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Battery technology – selection aid

Battery capacity:

This describes the storage capacity of a rechargeable battery cell. The capacity is given in ampere hours (Ah). One ampere hour means that the battery has stored sufficient energy to produce one ampere of electrical current for one hour.

Battery voltage:

The unit of measurement for battery voltage is the volt (V). Voltage describes the potential difference between the two poles of an electrical fixture.

Self-discharge:

Self-discharge means that a battery passively emits energy just by being in storage. After the expiry of a certain period, the battery pack must be charged in order to be able to operate electric tools. The self-discharge rate for Ni Cd batteries is 25% per month and only 3% for Li-Ion batteries. Li-Ion batteries can be used again immediately even after prolonged storage.

Operating temperature:

Battery cells are generally capable of providing their full power output within a certain temperature range. The temperature specification refers to the cell temperature and not the ambient temperature.

Different battery technologies:		
	NiCd battery	Li-ion battery
Memory effect	Yes	No
Self-discharging	Very high	Very reduced
Cell voltage	1.2 V per cell	3.6 V per cell
Operating temperature	-20°C to +50°C	-10°C to +50°C



3 years warranty for electric tools

Directly with the mobile phone to the registration

Extend the warranty period for your electric tool to three years.

Directly after the purchase, METABO, BOSCH, FEIN and MAKITA offer you the possibility to extend the warranty period for electric tools purchased in Germany to three years, free of charge.

A pre-requisite for the warranty extension is to register your tool on the corresponding manufacturer's website within 4 weeks after purchase.

The extended warranty period starts with the date of purchase.

Use your mobile phone to scan the QR code and you will directly come to an area with further information and to the registration area.

metabo



www.metabo.com/xxl

BOSCH



www.bosch-pt.com/warranty



www.fein.de/warranty

Makita



www.makita.de



3-year warranty on all Metabo battery packs

Without registration



metabo



BOSCH 24-month ProService

Register just once: 3 years warranty and 24 months ProService



BOSCH Cordless screwdriver - lithium-ion 3.6 volt

for clockwise and anti-clockwise rotation, 1-speed and 2-speed

Application:

For greater convenience in screw-driving applications using bits in tight places.

Execution:

- Integrated LED work light for illuminating the worksite
- Ident. No. 005:**
 - 1/4 inch universal bit holder
 - Motor brake
 - Multi-charger, charges both 3.6 V and 10.8 V batteries within one hour
- Ident. No. 463:**

- Automatic spindle locking for manual tightening or loosening of screws
- Optimal storage in charging station at the same time

Advantage:

- Ident. No. 005:** Very short head length (only 158 mm) and low weight (only 0.5 kg)

scope of supply and services:

Ident. No. 005: 2 x batteries (3.6 V/1.3 Ah), quick charger AL 1115 CV, hand loop, in plastic case

Ident. No. 463: Charger, 10 standard screwdriver bits



Ident. No. 005



Ident. No. 463

Model	GSR Mx2Drive	IXO
BOSCH no.	0 601 9A2 101	0 603 981 000
Type of rechargeable battery/battery	-	Li-Ion
Rechargeable battery/battery capacity (Ah)	1.5	1.5
Max. drilling Ø in wood (mm)	5	-
Idle speed 1st gear min./max.	0-150 U/min	0-215 U/min
Idle speed 2nd gear min./max.	0-580 U/min	-
Max. torque for hard screwing application (Nm)	10.0	4.5
Max. torque for soft screwing application (Nm)	5.0	4.5
Max. screw Ø (mm)	5	5
Weight (kg)	0.5	0.3
Battery included	Yes	Yes
With working lights	Yes	-
With rubber-coated handle	Yes	-
71026...	Ident. No. 005 Unit price, € O. R.	463 O. R.

71026 463 = Prod. group 729

71026 005 = Prod. group 731

Makita Cordless angle screwdriver and cordless angled impact screwdriver - lithium-ion 7.2 volt

for clockwise and anti-clockwise rotation, 1-speed and 2-speed

Application:

For driving in and extracting screws and nuts at points that are particularly difficult to access.

Execution:

- With motor brake
- With bright LED
- Compact design
- Ident. No. 003:** 2-speed gear unit
- Ident. No. 005:** With articulation function

- Compact for drilling and screw-driving work in tight spaces
- 21-level adjustable torque, plus drilling level

Ident. No. 005:

- Short charging time (30 min.)
- With electronically controllable speed
- For drilling, screw-driving and impact screw-driving

scope of supply and services:

2 x batteries (7.2 V/1.0 Ah), charger DC07SA, wood drill, bit set and Colt pocket, in rugged pocket



Ident. No. 003



Ident. No. 005

Model	DF 010 DSE	TD 021 DSE
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	1.0	1.0
Max. drilling Ø in steel (mm)	5	-
Max. drilling Ø in wood (mm)	6	-
Max. impact rate (U/min(rpm))	-	3000
Idle speed 1st gear min./max.	0-200 U/min	0-2300 U/min
Idle speed 2nd gear min./max.	0-600 U/min	-
Max. torque for hard screwing application (Nm)	5.6	22
Max. torque for soft screwing application (Nm)	3.6	22
Max. screw Ø (mm)	3.8	-
Tool holding device	1/4-inch hexagon socket	1/4-inch hexagon socket
Weight (kg)	0.55	0.54
Battery included	Yes	Yes
With working lights	Yes	Yes
71029...	Ident. No. 003 Unit price, € O. R.	005 O. R.

Prod. group 715

metabo® Cordless drill screwdriver - lithium-ion 10.8 volt for clockwise and anti-clockwise rotation, 2-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Compact and light design for versatile application
- Spindle has hexagon socket for screwdriver bits for working without a drill chuck
- Integrated LED work light for illuminating the worksite
- With practical belt hook, mountable on the right or left side without tools
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life
- 3-year battery pack warranty
- Battery packs have capacity indicator for checking the charge status

- **Ident. No. 058:** With angle driving attachment for drilling and screw-driving in hard-to-reach places

Advantage:

- **Ident. No. 051-058:** METABO Quick system: Fast changing of tool chuck and plug-in tool for flexible working

scope of supply and services:

- Ident. No. 049:** 2 x batteries (10.8 V/2.0 Ah), charger LC 40, quick-action drill chuck, belt hook, in plastic case
- Ident. No. 051:** Quick-change drill chuck, belt hook, 2 Li-Power battery packs (10.8 V/2.0 Ah), charger LC 40, plastic case
- Ident. No. 058:** 1 x battery (10.8 V/4.0 Ah), 1 x battery (10.8 V/2.0 Ah), charger LC 40, quick-change drill chuck, quick-change angle driving attachment, belt hook, in plastic case



Ident. No. 049

Model	PowerMaxx BS Basic	PowerMaxx BS Quick Basic	PowerMaxx BS Quick Pro
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	2.0	4.0
Max. drilling Ø in steel (mm)	10	10	10
Max. drilling Ø in wood (mm)	22	22	22
Idle speed 1st gear min./max.	0-360 U/min(rpm)	0-360 U/min(rpm)	0-360 U/min(rpm)
Idle speed 2nd gear min./max.	0-1400 U/min(rpm)	0-1400 U/min(rpm)	0-1400 U/min(rpm)
Max. torque for hard screwing application (Nm)	34	34	34
Max. torque for soft screwing application (Nm)	17	17	17
Max. screw Ø (mm)	7	7	7
Min./max. drill chuck span width	1.0-10.0 mm	1.0-10.0 mm	1.0-10.0 mm
Weight (kg)	0.8	0.8	0.8
Battery included	Yes	Yes	Yes
With working lights	Yes	Yes	Yes
71027...	Ident. No. 049	051	058
	Unit price, €	O. R.	O. R.

Prod. group 745

BOSCH Cordless screwdriver and cordless angle driver - lithium-ion 10.8 volt for clockwise and anti-clockwise rotation, 1-speed and 2-speed

Application:

For securing and releasing screws in tight and poorly accessible places.

Execution:

- BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge
- Motor brake for precision on the job in series screwing operations
- Integrated LED work light for illuminating the worksite
- Soft grip handle

Advantage:

- **Ident. No. 263:**
 - With extremely short construction, 143 mm, for optimal handling
 - Lockable 1/4 inch universal bit holder locks all common drilling and screwdriver bits
- **Ident. No. 282-286:** Versatile application, particularly in tight spaces and poorly accessible places, thanks to 5 adjustable head positions
- **Ident. No. 286:** 7-level electronic torque adjustment, plus drilling level

scope of supply and services:

2 x batteries (10.8 V/2.0 Ah), quick charger AL 1130 CV, in L-BOXX



Ident. No. 263



Ident. No. 282

Model	GSR 10.8 LI	GWI 10.8 V-LI	GWB 10.8 V-LI
BOSCH no.	0 601 992 909	0 601 360 U0D	0 601 390 908
Battery voltage (V/AC)	-	-	10.8
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	2.0	2.0
Max. drilling Ø in steel (mm)	10	8	-
Max. drilling Ø in wood (mm)	19	10	10
Idle speed 1st gear min./max.	0-350 U/min	0-585 U/min	0-1300 U/min
Idle speed 2nd gear min./max.	0-1300 U/min	-	-
Max. torque for hard screwing application (Nm)	30.0	13	11
Max. torque for soft screwing application (Nm)	13.0	5	11
Max. screw Ø (mm)	7	5	6
Weight (kg)	0.8	1.1	1.2
With right/left-hand rotation	-	-	Yes
Battery included	Yes	Yes	Yes
With working lights	Yes	No	Yes
With rubber-coated handle	Yes	Yes	Yes
71026...	Ident. No. 263	282	286
	Unit price, €	O. R.	O. R.

Prod. group 731

metabo® Cordless drill screwdriver - lithium-ion 14.4 volt

for clockwise and anti-clockwise rotation, 2-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Integrated LED work light for illuminating the worksite
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life
- Battery packs have capacity indicator for checking the charge status
- 3-year battery pack warranty
- With practical belt hook and bit holder, mountable on the right or left side
- Extremely high performance thanks to powerful METABO 4-pole motor for fast drilling and screw-driving

- Spindle has hexagon socket for screwdriver bits for working without a drill chuck

Advantage:

- Ident. No. 211:** METABO 'Quick': switch in seconds between drilling and screw-driving

scope of supply and services:

Ident. No. 017: 2 x batteries (14.4 V/2.0 Ah), charger ASC 30-36 V 'AIR COOLED', quick-action drill chuck, belt hook and bit-depot, in plastic case

Ident. No. 018: 2 x batteries (14.4 V/4.0 Ah), charger ASC 30-36 V 'AIR COOLED', quick-action drill chuck, belt hook and bit-depot, in plastic case

Ident. No. 211: 2 x batteries (14.4 V/4.0 Ah), charger ASC 30-36 V 'AIR COOLED', quick-change drill chuck, quick-change bit holder, in plastic case



Ident. No. 017



Ident. No. 211

Model	BS 14.4 LT Compact	BS 14.4 LT	BS 14.4 LT Quick
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	4.0	4.0
Max. drilling Ø in steel (mm)	13	13	13
Max. drilling Ø in wood (mm)	35	35	35
Idle speed 1st gear min./max.	0-400 U/min(rpm)	0-400 U/min(rpm)	0-400 U/min(rpm)
Idle speed 2nd gear min./max.	0-1450 U/min(rpm)	0-1450 U/min(rpm)	0-1450 U/min(rpm)
Max. torque for hard screwing application (Nm)	50	50	50
Max. torque for soft screwing application (Nm)	27	27	27
Max. screw Ø (mm)	8	8	8
Min./max. drill chuck span width	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.5	1.7	1.8
Battery included	Yes	Yes	Yes
With working lights	Yes	Yes	Yes
71037...	Ident. No. 017	Ident. No. 018	Ident. No. 211
	Unit price, € O. R.	Unit price, € O. R.	Unit price, € O. R.

Prod. group 745

BOSCH Cordless drill screwdriver and cordless impact drill driver - lithium-ion 14.4 volt

for clockwise and anti-clockwise rotation, 2-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- BOSCH Electronic Cell Protection (ECP) protects the battery from overload, overheating and deep discharge
- Integrated LED work light for illuminating the worksite
- Ident. No. 112:** Newly developed 2-speed planetary gear unit for powerful and versatile application options in screw-driving and drilling
- Ident. No. 112, 213:** Practical belt clip ensures tool is always to hand
- Ident. No. 122, 231:**
 - Electronic Rotation Control (ERC) detects sudden blocking and switches off the tool
 - Newly developed additional handle with corrugated profile and simple locking mechanism for rapid mounting and dismounting and secure seating
- Ident. No. 122-231:** Electronic Motor Protection (EMP) protects the motor from overload and ensures a long service life
- Ident. No. 213:**
 - Interchangeable coloured clips for easy marking and identification of the tool
 - Motor brake for precision on the job in series screwing operations
 - Mountable bit holder for easy transport and storage of the bits on the tool

Advantage:

- Very short head length owing to compact design
- Ident. No. 112:** Low weight: only 1.2 kg for perfect handling and effortless work
- Ident. No. 122, 231:** Very robust: fully functional even after a fall from 2 m onto concrete, thanks to flexible Dura Shield housing
- Ident. No. 122-231:** Innovative CoolPack batteries: optimal heat dissipation, extension of service life by up to 100% (compared to Li-ion batteries without CoolPack)
- Ident. No. 213:** 100% longer service life thanks to brushless EC motor technology

scope of supply and services:

Ident. No. 112: 2 x batteries (14.4 V/1.5 Ah), quick charger AL 1820 CV, in L-BOXX

Ident. No. 122: 2 x batteries (14.4 V/4.0 Ah), quick charger AL 1820 CV, additional handle, in L-BOXX

Ident. No. 213: 2 x batteries (14.4 V/4.0 Ah), quick charger 1860 CV, belt clip, bit holder, 4 x coloured clips, in L-BOXX

Ident. No. 231: 2 x batteries (14.4 V/4.0 Ah), quick charger 1860 CV, additional handle, in L-Boxx



Ident. No. 112



Ident. No. 122



Ident. No. 213



Ident. No. 231

Model	GSR 14.4-2-LI	GSR 14.4 V-EC	GSR 14.4 VE-2-LI	GSB 14.4 VE-2-LI
BOSCH no.	0 601 9B7 400	0 601 9D6 001	0 601 9D9 000	0 601 9D9 200
Motor design	-	-	-	4 pole motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	1.5	4.0	4.0	4.0
Max. drilling Ø in steel (mm)	10	13	13	13
Max. drilling Ø in wood (mm)	30	35	45	40
Max. impact rate (U/min(rpm))	-	-	-	27750
Idle speed 1st gear min./max.	0-340 U/min(rpm)	0-500 U/min(rpm)	0-400 U/min(rpm)	0-440 U/min(rpm)
Idle speed 2nd gear min./max.	0-1200 U/min(rpm)	0-1600 U/min(rpm)	0-1700 U/min(rpm)	0-1850 U/min(rpm)
Max. torque for hard screwing application (Nm)	35	46	75	80
Max. torque for soft screwing application (Nm)	16	28	40	36
Max. screw Ø (mm)	7	8	10	10
Min./max. drill chuck span width	1.5-10.0 mm	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.2	1.7	2.3	2.4
Battery included	Yes	Yes	Yes	Yes
With working lights	Yes	Yes	-	Yes
With rubber-coated handle	Yes	Yes	-	Yes
71026...	Ident. No. Unit price, €	112 O. R.	213 O. R.	122 O. R.

Prod. group 731



Cordless drill screwdriver DDF446RMJ

Li-ion 14.4 V

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Torque adjustable in 16 stages + drill adjustment
- With bright LED

- Electronically controllable speed

scope of supply and services:

2 x batteries (14.4 V/3.0 Ah), charger DC18RA, quick-action drill chuck, belt clip and mounting screw for belt clip, in plastic case MAKPAC size 2



Model	DDF 446 RMJ
Type of rechargeable battery/battery	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0
Max. drilling Ø in steel (mm)	13
Max. drilling Ø in wood (mm)	38
Idle speed 1st gear min./max.	0-400 U/min(rpm)
Idle speed 2nd gear min./max.	0-1500 U/min(rpm)
Max. torque for hard screwing application (Nm)	44
Max. torque for soft screwing application (Nm)	30
Min./max. drill chuck span width	1.0-13.0 mm
Weight (kg)	1.7
Battery included	Yes
With working lights	Yes
With rubber-coated handle	No
71029...	Ident. No. Unit price, €
	563 O. R.

Prod. group 715

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Cordless drill screwdriver - lithium-ion 14.4 volt

for clockwise and anti-clockwise rotation, 2-speed and 4-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- 3-year FEIN PLUS warranty including battery and charger
- Ident. No. 300:**
 - Powerful FEIN cordless screwdriver with brushless motor, 4-speed gear unit and removable drill chuck (14V/2Ah)
 - Li-ion battery with FEIN SafetyCell technology, separate communications line protects battery and tool from overload
 - Removable solid metal drill chuck/bit holder
 - Electronic torque adjustment
 - Motor and electronics are completely protected against dust
 - Magnetic bit holder holds bits in shapes C 63 and E 63

Ident. No. 335:

- 4-pole DC motor with overload protection
- Solid-metal quick-action drill chuck
- 2-speed solid metal gear unit
- 300 screw joints with one battery charge
- Drives 8 x 200 mm screws without pre-drilling
- Compact design

Advantage:

Ident. No. 300:

- 1200 screw joints with one battery charge
- Drives 8 x 300 mm screws without pre-drilling
- Carbide-tipped clamping jaws hold round drill shafts with particular dependability

scope of supply and services:

Ident. No. 300: 2 x batteries (14.4 V/2.0 Ah), quick charger ALG 50, removable drill chuck/separate bit holder, in plastic case

Ident. No. 335: 2 x batteries (14.4 V/2.0 Ah), quick charger ALG 50, in plastic case



Ident. No. 300



Ident. No. 335

Model	ASCM 14 QXC	ABS 14 C
Motor design	Brushless motor	4 pole motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	2.0
Max. drilling Ø in steel (mm)	13	13
Max. drilling Ø in wood (mm)	50	50
Idle speed 1st gear min./max.	0-400 U/min	0-450 U/min
Idle speed 2nd gear min./max.	0-800 U/min	0-1600 U/min
Idle speed 3. Min./max. thread	0-1950 U/min	-
Idle speed 4. Min./max. thread	0-3850 U/min	-
Max. torque for hard screwing application (Nm)	80	50
Max. torque for soft screwing application (Nm)	80	50
Max. screw Ø (mm)	8	8
Weight (kg)	1.7	1.8
Battery included	Yes	Yes
71028...	Ident. No. 300 Unit price, € O. R.	335 O. R.

Prod. group 704



Cordless drill screwdriver 6271 DWAE

NiCd 12 V

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Mechanical 2-speed planetary gear unit with metal gear wheels for optimal force transmission
- Torque adjustable in 16 stages + drill adjustment
- Handle with inserted rubber cushion for secure holding and comfortable working
- With spindle lock

Advantage:

- Handy cordless drill screwdriver with very short construction
- Electronic switch for continuously variable speed control
- Electronics for sensitive drilling and screwdriving, with spindle lock

scope of supply and services:

2 x batteries (12 V/2.0 Ah), charger, double bit PH2 and quick-action drill chuck, in plastic case



Model	6271 DWAE
Type of rechargeable battery/battery	NiCd
Rechargeable battery/battery capacity (Ah)	1.9
Max. drilling Ø in steel (mm)	10
Max. drilling Ø in wood (mm)	25
Idle speed 1st gear min./max.	0-400 U/min(rpm)
Idle speed 2nd gear min./max.	0-1300 U/min(rpm)
Max. torque for hard screwing application (Nm)	30
Max. torque for soft screwing application (Nm)	18
Min./max. drill chuck span width	0.8-10.0 mm
Weight (kg)	1.5
Battery included	Yes
71029...	Ident. No. 022 Unit price, € O. R.

Prod. group 715

metabo® Cordless drill screwdriver - lithium-ion 18 volt for clockwise and anti-clockwise rotation, 2-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Spindle has hexagon socket for screwdriver bits for working without a drill chuck
- Integrated LED work light for illuminating the worksite
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life
- Ident. No. 014:** With practical belt hook, mountable on the right or left side
- Ident. No. 041-280:** With practical belt hook and bit holder, mountable on the right or left side

Advantage:

- Battery packs have capacity indicator for checking the charge status

- Ident. No. 014:** Metabo Quick system: Fast changing of tool chuck and plug-in tool for flexible working

- Ident. No. 280:** 5.2 Ah battery pack has 75% more endurance compared to a 3.0 Ah battery of the same size

scope of supply and services:

Ident. No. 014: 2 x batteries (18 V/4.0 Ah), charger SC 60 Plus, quick-action drill chuck, belt hook, in plastic case

Ident. No. 041: 2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V 'AIR COOLED', quick-action drill chuck, belt hook and bit-depot, in plastic case

Ident. No. 280: 2 x batteries (18 V/5.2 Ah), charger ASC 30-36 V 'AIR COOLED', quick-action drill chuck, belt hook and bit-depot, in plastic case



Ident. No. 014



Ident. No. 280

Model	BS 18 Quick	BS 18 LT	BS 18 LT
Motor design	-	4 pole motor	4 pole motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	4.0	5.2
Max. drilling Ø in steel (mm)	10	13	13
Max. drilling Ø in wood (mm)	20	38	38
Idle speed 1st gear min./max.	0-450 U/min(rpm)	0-450 U/min(rpm)	0-450 U/min(rpm)
Idle speed 2nd gear min./max.	0-1600 U/min(rpm)	0-1600 U/min(rpm)	0-1600 U/min(rpm)
Max. torque for hard screwing application (Nm)	48	60	60
Max. torque for soft screwing application (Nm)	24	34	34
Max. screw Ø (mm)	7	8	-
Min./max. drill chuck span width	1.0-10.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.3	1.8	1.8
Battery included	Yes	Yes	Yes
With working lights	Yes	Yes	Yes
71037...	Ident. No. 014	041	280
Unit price, €	O. R.	O. R.	O. R.

Prod. group 745

BOSCH Cordless drill screwdriver and cordless impact drill driver - lithium-ion 18 volt for clockwise and anti-clockwise rotation, 2-speed

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge
- Ident. No. 132-142:** Integrated LED work light
- Ident. No. 142-233:**
 - Electronic Rotation Control (ERC) - detects sudden blocking and switches off the tool

- Electronic Motor Protection (EMP) protects the motor from overload and ensures a long service life

- Ident. No. 233:**
 - Brushless EC motor
 - Motor brake
 - Integrated LED light

Advantage:

- Ident. No. 132:** Head length just 169 mm
- Ident. No. 142:**
 - Functional even after a fall from 2 m onto concrete, thanks to flexible Dura Shield housing
 - Head length just 213 mm

- Ident. No. 142-233:** Innovative CoolPack batteries: optimal heat dissipation, extension of service life by up to 100% (compared to Li-ion batteries without CoolPack)

- Ident. No. 233:** Head length just 179 mm

scope of supply and services:

Ident. No. 132: 2 x batteries (18 V/1.5 Ah), quick charger AL 1820 CV, in L-BOXX

Ident. No. 142: 2 x batteries (18 V/4.0 Ah), quick charger AL 1860 CV, additional handle, in L-BOXX

Ident. No. 233: 2 x batteries (18 V/4.0 Ah), quick charger AL 1860 CV, belt clip, bit holder, 4 x coloured clips, in L-BOXX



Ident. No. 132



Ident. No. 142



Ident. No. 233

Model	GSR 18-2-Li	GSR 18 V-EC	GSR 18 VE-2-Li
BOSCH no.	0 601 9B7 300	0 601 9D6 101	0 601 9D9 100
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	1.5	4.0	4.0
Max. drilling Ø in steel (mm)	10	13	13
Max. drilling Ø in wood (mm)	30	38	50
Idle speed 1st gear min./max.	0-450 U/min(rpm)	0-500 U/min(rpm)	0-400 U/min(rpm)
Idle speed 2nd gear min./max.	0-1400 U/min(rpm)	0-1700 U/min(rpm)	0-1700 U/min(rpm)
Max. torque for hard screwing application (Nm)	38	50	80
Max. torque for soft screwing application (Nm)	17	31	47
Max. screw Ø (mm)	7	10	12
Min./max. drill chuck span width	1.0-10.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.3	1.9	2.4
Battery included	Yes	Yes	Yes
71026...	Ident. No. Unit price, €	132 O. R.	233 O. R.

Prod. group 731



Cordless drill screwdriver ASCM 18 QX

Li-ion 18 V

Application:

For use in drilling and screw-driving work using drills and bits.

Execution:

- Brushless FEIN PowerDrive motor with 30% higher efficiency
- Li-ion battery with FEIN SafetyCell technology, separate communications line protects battery and tool from overload
- 3-year FEIN PLUS warranty including battery and charger
- Removable solid metal drill chuck/bit holder
- Electronic torque adjustment
- Motor and electronics are completely protected against dust

- Magnetic bit holder with high-quality neodymium magnet

Advantage:

- 1800 screw joints with one battery charge
- Drives 10 x 400 mm screws without pre-drilling
- High torques up to 90 Nm
- Carbide-tipped clamping jaws hold round drill shafts with particular dependability
- Bit holder holds bits in shapes C 63 and E 63

scope of supply and services:

2 x batteries (18 V/4.0 Ah), quick charger ALG 50, 1 x handle, removable drill chuck/separate bit holder



Model	ASCM 18 QX
Motor design	Brushless motor
Type of rechargeable battery/battery	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0
Max. drilling Ø in steel (mm)	13
Max. drilling Ø in wood (mm)	50
Idle speed 1st gear min./max.	0-400 U/min
Idle speed 2nd gear min./max.	0-800 U/min
Idle speed 3. Min./max. thread	0-1950 U/min
Idle speed 4. Min./max. thread	0-3850 U/min
Max. torque for hard screwing application (Nm)	90
Max. torque for soft screwing application (Nm)	90
Max. screw Ø (mm)	10
Weight (kg)	2.0
Battery included	Yes
With working lights	No
With rubber-coated handle	No
71028...	Ident. No. Unit price, €
	370 O. R.

Prod. group 704

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Cordless drill - lithium-ion 18 volt

for clockwise and anti-clockwise rotation, 1-speed and 2-speed

Application:

For fast and precise drilling of boreholes.

Execution:

- Maximum quality with high concentricity for precise drilling results
- Maintenance-free brushless EC motor with high efficiency and high level of speed stability
- Optimal speed for lower diameter range and economical work due to efficient use of the machine
- Metal gear head

- Precision drill chuck made of metal
- Self-tightening drill chuck clamping jaws
- Automatic spindle locking and single-shell quick-action drill chuck
- FEIN sensitive handle

Advantage:

- Electronic speed regulation

scope of supply and services:

2 x batteries (18 V/4.0 Ah), quick charger ALG 50, additional handle, in plastic case



Model	ABOP 10	ABOP 13-2
Motor design	Brushless motor	Brushless motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0	4.0
Battery voltage (V/AC)	18	18
Max. drilling Ø in wood (mm)	30	37
Max. drilling Ø in steel (mm)	10	13
Idle speed 1st gear min./max.	0-1250 U/min	0-580 U/min
Idle speed 2nd gear min./max.	-	0-1760 U/min
Max. torque for hard screwing application (Nm)	11	24
Max. torque for soft screwing application (Nm)	11	8
Min./max. drill chuck span width	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	2.2	2.4
With right/left-hand rotation	Yes	Yes
Battery included	Yes	Yes
With working lights	No	No
With rubber-coated handle	Yes	Yes
71028...	Ident. No. Unit price, €	Ident. No. Unit price, €
	470 O. R.	480 O. R.

Prod. group 704



Cordless impact drill driver - lithium-ion 18 volt

for clockwise and anti-clockwise rotation, 2-speed

Application:

For drilling boreholes in particularly solid materials using mechanical impact.

Execution:

- Spindle has hexagon socket for screwdriver bits for working without a drill chuck
- Integrated LED work light for illuminating the worksite
- With practical belt hook and bit-depot, mountable on the right or left side
- 3-year battery pack warranty owing to Ultra-M technology
- Ident. No. 336:**
 - Switchable impulse mode for unscrewing stuck screws and spotting drilling on smooth surfaces

- Clamping neck for versatile application

Advantage:

- Battery packs have capacity indicator for checking the charge status
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life

scope of supply and services:

Ident. No. 323: 2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V 'AIR COOLED', quick-action drill chuck, belt hook and bit-depot, in plastic case

Ident. No. 336: 2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V "AIR COOLED", quick-action drill chuck Futuro Plus with metal sleeve, belt hook, additional handle, in MetaLoc case insert

Model	SB 18 LT	SB 18 LTX Impuls
Motor design	-	4 pole motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0	3.0
Max. impact rate (U/min(rpm))	27200	32300
Max. drilling Ø in wood (mm)	38	65
Max. drilling Ø in steel (mm)	13	13
Idle speed 1st gear min./max.	0-450 U/min	0-500 U/min
Idle speed 2nd gear min./max.	0-1600 U/min	0-1700 U/min
Max. torque for hard screwing application (Nm)	60	110
Min./max. drill chuck span width	1.5-13.0 mm	1.5-13.0 mm
Max. torque for soft screwing application (Nm)	34	55
Weight (kg)	1.9	2.1
With working lights	-	Yes
Battery included	Yes	Yes
71037...	Ident. No. Unit price, €	Ident. No. Unit price, €
	323 O. R.	336 O. R.

Prod. group 745

Cordless impact screwdriver and cordless impact drill driver - lithium-ion 10.8 volt

1-speed and 2-speed

Application:

No. 71026: For securing and releasing screws in tight and poorly accessible places.

No. 71037: For driving in and extracting screws and nuts with high torque.

Execution:

▪ Integrated LED light for illuminating the working area, including in dark places

▪ No. 71026:

- BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge
- Motor brake for precision on the job in series screwing operations

Advantage:

▪ **No. 71026:** At 189 mm, shortest construction in its class

▪ No. 71037:

- Low recoil during work with an extremely high torque
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life

scope of supply and services:

No. 71026: 2 x batteries (10.8 V/1.3 Ah), charger LC 40, in plastic case

No. 71037: 2 x batteries (10.8 V/1.5 Ah), charger LC 40, in plastic case



No. 71026



No. 71037

Model	GSB 10.8-2-LI	PowerMaxx SSD
BOSCH no.	0 601 9B6 906	-
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	2.0	2.0
Max. drilling Ø in steel (mm)	10	-
Max. drilling Ø in wood (mm)	19	-
Max. impact rate (U/min(rpm))	19500	3000
Idle speed 1st gear min./max.	0-380 U/min(rpm)	0-2300 U/min(rpm)
Idle speed 2nd gear min./max.	0-1300 U/min(rpm)	-
Max. torque for hard screwing application (Nm)	30	105
Max. torque for soft screwing application (Nm)	15	-
Max. screw Ø (mm)	7	-
Min./max. drill chuck span width	1.0-10.0 mm	-
Tool holding device	-	1/4-inch hexagon socket
Weight (kg)	1.0	1.0
Battery included	Yes	Yes
With working lights	-	Yes
With rubber-coated handle	-	No
BOSCH 71026...	Ident. No. 291	-
	Unit price, € O. R.	-
metabo 71037...	Ident. No. -	380
	Unit price, € -	O. R.

BOSCH = Prod. group 731

METABO = Prod. group 745

BOSCH Cordless rotating impact screwdriver - lithium-ion 14.4 volt

for clockwise and anti-clockwise rotation, 1-speed

Application:

For securing and releasing screws in tight and poorly accessible places.

Execution:

- Very short construction for perfect handling, even in the tightest spots and overhead
- Very robust: fully functional even after a fall from 2 m onto concrete, thanks to flexible Dura Shield housing
- Practical battery charge status indicator provides information on remaining power reserves available at any time
- BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge

Advantage:

- Unique possibility of selecting between the "Premium" battery (longer battery runtime) and the "Compact" battery (less weight for even more pleasant working)
- Innovative CoolPack batteries: optimal heat dissipation, extension of service life by up to 100% (compared to Li-ion batteries without CoolPack)

scope of supply and services:

2 x batteries (14.4 V/4.0 Ah), quick charger AL 1860 CV, in L-Boxx



Ident. No. 322

Model	GDR 14.4 V-LI	GDS 14.4 V-LI
BOSCH no.	0 601 9A1 40F	0 601 9A1 T06
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0	4.0
Max. impact rate (U/min(rpm))	3200	3200
Idle speed 1st gear min./max.	0-2800 U/min	0-2800 U/min
Max. torque for hard screwing application (Nm)	150	170
Tool holding device	1/4-inch hexagon socket	1/2-inch external square
Weight (kg)	1.6	1.6
Battery included	Yes	Yes
71026...	Ident. No. 322	334
	Unit price, € (O. R.)	O. R.

Prod. group 731

metabo® Cordless impact screwdriver SSW 18 LTX 200

Li-ion 18 V

Application:

For driving in and extracting screws and nuts with high torque.

Execution:

- Compact design for powerful applications
- Three speed/torque stages for a variety of applications
- Integrated work light for illuminating the worksite
- 3-year battery pack warranty

Advantage:

- Battery packs have capacity indicator for checking the charge status
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life
- Low recoil during work with an extremely high torque

scope of supply and services:

2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V "AIR COOLED", belt hook and bit-depot, in plastic case

Model	SSW 18 LTX 200
Type of rechargeable battery/battery	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0
Max. impact rate (U/min(rpm))	3000
Idle speed 1st gear min./max.	0-900 U/min
Idle speed 2nd gear min./max.	0-1650 U/min
Idle speed 3. Min./max. thread	0-2300 U/min
Max. torque for hard screwing application (Nm)	210
Tool holding device	1/2-inch external square
Max. torque for soft screwing application (Nm)	100
Weight (kg)	1.6
With working lights	Yes
Battery included	Yes
71037...	Ident. No. 362
	Unit price, € O. R.

Prod. group 745

BOSCH Cordless rotating impact screwdriver - lithium-ion 18 volt

for clockwise and anti-clockwise rotation, 1-speed

Application:

For securing and releasing screws in tight and poorly accessible places.

Execution:

- **Ident. No. 346:**
 - Brushless EC motor
 - Speed adjustable in three gear speeds
 - Impact rate: 0-1100/2600/3200 rpm, adjustable
- **Ident. No. 356:**
 - Very short construction for perfect handling
 - BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge

- Practical battery charge status indicator provides information on remaining power reserves available at any time

Advantage:

- **Ident. No. 346:** Special tool chuck combines 1/2 inch square drive and 1/4 inch hexagonal drive – for even more applications
- **Ident. No. 356:** Innovative CoolPack batteries: optimal heat dissipation, extension of service life by up to 100% (compared to Li-ion batteries without CoolPack)

scope of supply and services:

2 x batteries (18 V/4.0 Ah), quick charger AL 1860 CV, in L-Boxx

Model	GDX 18 V-EC	GDS 18 V-LI HT
BOSCH no.	0 601 9B9 100	0 601 9B1 303
Motor design	Brushless motor	-
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0	4.0
Max. impact rate (U/min(rpm))	3200	2100
Idle speed 1st gear min./max.	0-1300 U/min	0-1900 U/min
Idle speed 2nd gear min./max.	0-2000 U/min	-
Idle speed 3. Min./max. thread	0-2800 U/min	-
Max. torque for hard screwing application (Nm)	185	650
Tool holding device	1/2-inch external square and 1/4-inch inner square	1/2-inch external square
Weight (kg)	1.7	3.0
With working lights	Yes	Yes
With rubber-coated handle	Yes	Yes
Battery included	Yes	Yes
71026...	Ident. No. 346	356
	Unit price, € O. R.	O. R.

Prod. group 731



Ident. No. 346



Ident. No. 356

BOSCH

Cordless rotary hammer drill - lithium-ion 18 volt

with and without rechargeable battery

Application:

For drilling and chiselling with pneumatic impact mechanism, in stone and concrete.

Execution:

- BOSCH Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge
- **Ident. No. 008:**
 - Innovative BOSCH Premium-Lithium-Ion technology for longer service life and unbeatable battery running time
 - Practical battery charge status display with 3 LEDs
 - Integrated LED work light for illuminating the worksite
 - Screw connections: Screws up to 6 mm diameter in wood

- BOSCH Hyper Charge: with rapid charging, the batteries are already 75% charged after half of the charging time
- **Ident. No. 012-022:**
 - Brushless BOSCH EC motor: compact, dust-protected, light and absolutely maintenance-free
 - Innovative CoolPack batteries: optimal heat dissipation, extension of service life by up to 100% (compared to Li-ion batteries without CoolPack)
 - Very rugged: Electronic Motor Protection switches off the motor in the case of overload, fully functional even after a 2 m drop test onto concrete

Advantage:

- **Ident. No. 008:**
 - Most compact design in its class (overall length just 278 mm – including SDS-plus holder)
 - Pneumatic impact mechanism for bore holes up to 12 mm in concrete

- Also suitable for smaller to medium screw-driving and drilling applications in wood and metal
- **Ident. No. 012-022:**
 - Long-running time (191 holes 6 x 40 mm in concrete) with one battery charge (5.0 Ah) thanks to efficient BOSCH EC motor
 - Low weight (only 2.6 kg) and compact design for more comfortable working
 - Highest rate of chisel material removal (12 kg/hr.) in its class

scope of supply and services:

Ident. No. 012: Not including battery, not including charger, additional handle, depth stop 210 mm, L-Boxx insert, in box

Ident. No. 022: 2 x batteries (18 V/5.0 Ah), quick charger AL 1860 CV, additional handle, depth stop 210 mm, in L-BOXX



Ident. No. 008



Ident. No. 012



Ident. No. 022

Model	GBH 18-V-LI	GBH 18 V-EC	GBH 18 V-EC
BOSCH no.	0 611 905 302	0 611 904 004	0 611 904 00A
Motor design	-	Brushless motor	Brushless motor
Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion
Rechargeable battery/battery capacity (Ah)	3.0	4.0	5.0
Max. impact energy (J)	1.0	1.7	1.7
Max. impact rate (U/min(rpm))	4950	4550	4550
Max. drilling Ø in wood (mm)	16	20	20
Max. drilling Ø in steel (mm)	8	13	13
Max. drilling Ø in concrete (mm)	-	18	18
Max. recommended drilling Ø in concrete (mm)	12	10	10
Idle speed 1st gear min./max.	0-1050 U/min	0-1400 U/min	0-1400 U/min
Tool holding device	SDS-plus	SDS-plus	SDS-plus
Weight (kg)	2.1	2.6	2.6
With working lights	-	Yes	Yes
Battery included	Yes	Yes	Yes
70165...	Ident. No. 008	012	022
	Unit price, € (O. R.)	O. R.	O. R.

Prod. group 731

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BOSCH Cordless angle grinder GWS 18-125 V-LI Professional Li-ion 18 V

Application:

For grinding and cutting of workpieces.

Execution:

- LED provides information on battery charge status
- Handle can be used on the left and on the right side
- Practical battery charge status indicator provides information on power reserves at any time
- Gear head rotatable in 90° steps
- Very rugged and stress-resistant 4-pole high-power motor with Electronic Motor Protection (EMP) ensures long service life

- Electronic Cell Protection (ECP): protects battery from overload, overheating and deep discharge
- Twist-proof protective hood
- Overload protection, soft start and restart protection

Advantage:

- CoolPack battery: Extension of service life by up to 100% (compared to battery without CoolPack)

scope of supply and services:

2 x batteries (18 V/4.0 Ah), quick charger AL 1860 CV, additional handle, protective hood, L-Boxx



Model	GWS 18-125 V-LI
BOSCH no.	0 601 93A 30B
Motor design	4 pole motor
Type of rechargeable battery/battery	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0
Washer Ø (mm)	125
Idle speed 1st gear min./max.	0-10000 U/min
Thread dimension of spindle	M14
Weight (kg)	2.3
With restart protection	Yes
With soft start	Yes
With overload protection	Yes
Battery included	Yes
With quick clamping system	No
With disc brake	No
70376...	Ident. No. 015 Unit price, € O. R.

Prod. group 731

metabo Cordless angle grinder W 18 LTX 125 Quick Li-ion 18 V

Application:

For grinding and cutting of workpieces.

Execution:

- LED provides information on battery charge status
- Rotatable battery pack for better working in tight spaces
- Removable dust protection filter protects motor from coarse particles
- METABO Quick for tool-free replacement of discs with quick-action clamping nut
- Twist-proof protective hood

- Overload protection, soft start and restart protection

Advantage:

- 3-year battery pack warranty
- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life

scope of supply and services:

2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V "AIR COOLED", protective hood, support flange, quick-action clamping nut, additional handle, dust filter, in plastic case



Rotating battery pack for more freedom of movement

Model	W 18 LTX 125 Quick
Motor design	4 pole motor
Type of rechargeable battery/battery	Li-Ion
Rechargeable battery/battery capacity (Ah)	4.0
Washer Ø (mm)	125
Idle speed 1st gear min./max.	0-8000 U/min
Thread dimension of spindle	M14
Weight (kg)	2.4
With restart protection	Yes
With soft start	Yes
With overload protection	Yes
Battery included	Yes
With quick clamping system	Yes
With disc brake	No
70377...	Ident. No. 020 Unit price, € O. R.

Prod. group 745

BOSCH Cordless straight grinder GGS 18 V-Li Professional

Li-ion 18 V

Application:

For fine finishing, smoothing and deburring.

Execution:

- Restart block prevents unintentional starting after replacement of the battery
- Electronic Motor Protection (EMP) protects the motor from overload and ensures a long service life

- Electronic Cell Protection (ECP): protects the battery from overload, overheating and deep discharge

Advantage:

- CoolPack battery: Extension of service life by up to 100% (compared to batteries without CoolPack)

scope of supply and services:

1 x battery (18 V/4.0 Ah), quick charger AL 1860 CV,
2 x open-ended spanners 19 mm, in L-Boxx



Model	GGs 18 V-Li
BOSCH no.	0 601 9B5 304
Motor design	4 pole motor
Rechargeable battery/battery capacity (Ah)	4.0
Idle speed 1st gear min./max.	0-22000 U/min
Max. clamping Ø (mm)	8
Weight (kg)	1.8
With overload protection	Yes
With rubber-coated handle	Yes
With restart protection	Yes
Battery included	Yes
BOSCH 70290...	Ident. No. 110
	Unit price, € O. R.

Prod. group 731



Cordless MultiMaster AFMM 14

Li-ion 14.4 V

Application:

For refurbishing painted and weathered surfaces.

Execution:

- Quick-IN quick change system for convenient replacement of accessories without key
- 8-star tool holding fixture with excellent torque transmission
- Electronic speed adjustment

- LED warns of diminishing battery voltage and overload

scope of supply and services:

2 x batteries (14.4 V/4.0 Ah), quick charger ALG 50, abrasive pad, 5 grinding discs each (K 60, 80, 120, 180), universal E-Cut saw blade (44 mm), E-Cut long-life saw blade (65 mm), cemented carbide segment saw blade, cemented carbide rasp (triangular) perforated, 1 HSS segment saw blade, solid spatula



Model	MultiMaster AFMM 14
Rechargeable battery/battery capacity (Ah)	3.0
Tool holding device	QuickIN
Weight (kg)	1.7
Battery included	Yes
70533...	Ident. No. 029
	Unit price, € O. R.

Prod. group 704

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Cordless sabre saw - lithium-ion 18 volt with and without rechargeable battery

Application:

For sawing wood, plastics, metal pipes and profiles and much more

Execution:

No. 71029:

- 4-pole motor without loss of torque
- Guide shoe lockable in 5 positions
- With bright LED
- Handle with inserted rubber cushion for secure holding and comfortable working
- Saw blade change with no tools
- Effective dust protection against the penetration of dust and dirt

No. 71169:

- Slim, light-weight machine with soft grip handle
- Rugged die-cast aluminium gear case
- Vario (V) electronics for working with stroke counts suitable for the material

- METABO Quick for tool-free exchanging of saw blades

- Adjustable depth stop for optimal usage of the saw blade and for versatile applications such as plunge cuts

- Saw blade 180° rotatable for comfortable working overhead

Advantage:

No. 71169:

- Ultra-M technology: maximum power, gentle charging, optimal energy usage, long service life
- Battery packs have capacity indicator for checking the charge status

scope of supply and services:

No. 71029: 1 x battery (18 V/4.0 Ah), charger DC18RA, saw blade set, in plastic case

No. 71169: 2 x batteries (18 V/4.0 Ah), charger ASC 30-36 V "AIR COOLED", hexagon key, in plastic case



No. 71029



No. 71169

Model	DJR 181 RM	ASE 18 LTX
Rechargeable battery/battery capacity (Ah)	4.0	4.0
Stroke length (mm)	28.0	30.0
Min./max. idle stroke speed	0-2900 U/min	0-2700 U/min
Weight (kg)	3.7	3.6
With working lights	Yes	No
With rubber-coated handle	Yes	Yes
With speed control	-	Yes
Battery included	Yes	Yes
makita 71029...	Ident. No. 351 Unit price, € O. R.	-
metabo 71169...	Ident. No. - Unit price, €	205 O. R.

MAKITA = Prod. group 715
METABO = Prod. group 745

BOSCH Cordless jigsaw GST 18 V-LI S Professional Li-ion 18 V

Application:

For complex radius cuts in wood and sheet metal.

Execution:

- Compact, light design with small handle size facilitates optimal control when sawing
- Rod shaped for guiding the saw beneath the workpiece
- SDS saw blade replacement with just one hand

Advantage:

- Powerful battery system for cuts even in thick or hard materials

scope of supply and services:

2 x battery (18 V/4.0 Ah), quick charger AL 1860 CV, 1 x saw blade T 144 DP, 1 x saw blade T 244 D, 1 x saw blade T 308 B, splinter protection, in L-Boxx



Model	GST 18 V-LI S
BOSCH no.	0 601 5A5 102
Rechargeable battery/battery capacity (Ah)	4.0
Min./max. idle stroke speed	550-2700 U/min
Lift height (mm)	23
Max. cutting capacity of wood (mm)	120
Max. cutting capacity of non-ferrous metals (mm)	8
Max. cutting capacity in aluminium (mm)	20
Weight (kg)	2.4
Design of the handle	Rod handle
With working lights	Yes
Battery included	Yes
71026...	Ident. No. 930 Unit price, € O. R.

Prod. group 731

metabo® Cordless cartridge gun - lithium-ion 10.8 volt for cartridges and film bags

Application:

For precise working with high discharge pressure and uniform discharge speed.

Execution:

- High discharge force for easily working with all materials, including particularly viscous materials
- Continuous adjustment of the discharge speed for precise working
- Solid metal gear unit for long service life

Advantage:

- No dripping thanks to automatic rack retraction
- 3-year battery pack warranty

scope of supply and services:

Ident. No. 085: 1 x battery (10.8 V/4.0 Ah), charger LC 40, 400 ml tube, discharge plate for film bag, discharge plate for cartridges, in box

Ident. No. 087: 1 x battery (10.8 V/4.0 Ah), charger LC 40, 600 ml tube, discharge plate for film bag, discharge plate for cartridges, in box



Ident. No. 085

Model	PowerMaxx KP	PowerMaxx KP
Max. contents (ml)	400	600
Battery voltage (V/AC)	10.8	10.8
Rechargeable battery/battery capacity (Ah)	4.0	4.0
Battery included	Yes	Yes
71027...	Ident. No. 085	Ident. No. 087
	Unit price, €	O. R.

Prod. group 745

metabo® Cordless hand lamps – 10.8 volt compatible with batteries from the power tool

Application:

For mobile illumination of the workspace.

Execution:

- Suitable for 10.8 V batteries
- **Ident. No. 081:**

- Lamp head can be swivelled and locked in 12 positions
- Powerful LED hand lamp for uniform, bright working light

▪ **Ident. No. 081-082:** Rotatable hook for suspending the lamp

▪ **Ident. No. 082:**

- Lamp head can be rotated and swivelled by 180° for virtually unlimited lighting positions
- Powerful LED torch for uniform, bright working light

scope of supply and services:

Not including battery, not including charger



Ident. No. 081



Ident. No. 082



Ident. No. 080

Model	PowerMaxx LED	PowerMaxx ULA LED	PowerMaxx SLA LED
Max. luminous period (h)	38.0	24.7	9.9
Battery included	No	No	No
metabo 71027...	Ident. No. 080	Ident. No. 081	Ident. No. 082
	Unit price, €	O. R.	O. R.

Prod. group 745

metabo® Spare lithium-ion battery for METABO electric tools

Application:

For use in METABO battery-powered electric tools.

Execution:

- **Ident. No. 490-550:** Sliding system
- **Ident. No. 625-640:** Plug-in system

Advantage:

- 3-year battery pack warranty

scope of supply and services:

In box



Ident. No. 540

Type of rechargeable battery/battery	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Nominal voltage (V/AC)	10.8	10.8	14.4	18.0	18.0
Rechargeable battery/battery capacity (Ah)	2.0	4.0	4.0	4.0	5.2
71037...	Ident. No. 625	Ident. No. 640	Ident. No. 490	Ident. No. 540	Ident. No. 550
	Unit price, €	O. R.	O. R.	O. R.	O. R.

71037 490 = Prod. group 745, 71037 640 = Prod. group 745, 71037 540 = Prod. group 786, 71037 550 = Prod. group 786, 71037 625 = Prod. group 786

metabo® Li-ion battery pack 18 V/1.5 Ah for METABO electric tools

Application:
As replacement battery.

Advantage:
▪ 3-year battery pack warranty

Execution:
▪ Sliding system

scope of supply and services:
In box

Type of rechargeable battery/battery	Li-Ion
Nominal voltage (V/AC)	18.0
Rechargeable battery/battery capacity (Ah)	1.5
71037...	Ident. No. 396
	Unit price, € O. R.

Prod. group 745

BOSCH Spare lithium-ion battery for BOSCH electric tools

Application:
For use in BOSCH battery-powered electric tools.

Advantage:
▪ **Ident. No. 661:** Lightweight for greater comfort when working, particularly in overhead applications

Execution:
▪ Plug-in system
▪ **Ident. No. 661:**
▪ BOSCH flexible Power System – battery suitable for all devices in one voltage class
▪ Very robust – fully functional even after a fall from 3 m onto concrete

scope of supply and services:
In box



Ident. No. 661

BOSCH no.	2 607 336 242	1 600 Z00 02X
Type of rechargeable battery/battery	Li-Ion	Li-Ion
Nominal voltage (V/AC)	3.6	10.8
Rechargeable battery/battery capacity (Ah)	1.3	2.0
71026...	Ident. No. 650	661
	Unit price, € O. R.	O. R.

Prod. group 731

Makita Spare rechargeable battery lithium-ion and NiCd for MAKITA electric tools

Application:
For use in MAKITA battery-powered electric tools.

Execution:
▪ **Ident. No. 121–206:** Plug-in system
▪ **Ident. No. 269–270:** Sliding system

scope of supply and services:
In box



Ident. No. 206
Li-ion battery 10.8 V 1.3 Ah



Ident. No. 269



Ident. No. 270

Type of rechargeable battery/battery	Li-Ion	Li-Ion	NiCd	Li-Ion	Li-Ion
Nominal voltage (V/AC)	7.2	10.8	12.0	14.4	18.0
Rechargeable battery/battery capacity (Ah)	1.0	1.3	2.0	3.0	3.0
71029...	Ident. No. 203	206	121	269	270
	Unit price, € O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 715

Li-ion battery pack 18 V/3.0 Ah for FEIN electric tools

Application:
For use in FEIN battery-powered electric tools.

scope of supply and services:
In box

Execution:
▪ Sliding system

Type of rechargeable battery/battery	Li-Ion
Nominal voltage (V/AC)	18.0
Rechargeable battery/battery capacity (Ah)	3.0
71028...	Ident. No. 550
	Unit price, € O. R.

Prod. group 704



metabo® Battery charger ASC 30-36 V Air Cooled EU

For Li-ion 14.4 V to 36 V

Application:

For charging all METABO Li-ion batteries from 14.4 V to 36 V.

Execution:

- Processor-controlled charge management system

Advantage:

- Patented "AIR COOLED" charging technology

- Very low standby power consumption

scope of supply and services:

In box

Technical Data:

- Model: ASC 30-36 V
- Charging time: 30 min
- Charging current: 3.0 A

70377...	Ident. No. Unit price, €	810 O. R.
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Prod. group 745



Differences between a drill and a hammer drill

What are the major differences between a drill and a hammer drill?

On a **drill**, the drill spindle is fixed firmly in the bearings. This results in a highly precise concentric running.

The rotation speeds have been optimised for drilling in metal

On a **hammer drill**, the drill spindle is mounted flexibly in the bearings.

Because of the system, the run-out precision is not as good as in purely drilling machines.

The rotation speed is usually higher than with drilling machines because stone is being drilled as well and this requires higher striking power.

metabo® Drill, 1-speed and 2-speed

voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:

For fast and precise drilling of boreholes.

Execution:

- Drill spindle with hexagon socket for screwdriver bits for working without a drill chuck
- Cut-out carbon brushes for protection from overload
- Continuous electronic speed control
- Ident. No. 004:** Small handy drill, with reduced vibration

- Ident. No. 006-016:** Robust design for continuous use
- Ident. No. 016:** Handy drill with rugged housing and durable motor
- Ident. No. 035:**
 - Rotatable carbon brush bridge for maximum power even with anti-clockwise rotation for extracting stuck screws
 - Wear-free die-cast aluminium gear case for optimal heat dissipation and durability

- Cable-protecting ball grommet for maximum freedom of movement and protection from cable breakage

Advantage:

- Ident. No. 006-016:** Futuro Top quick-action drill chuck: automatic re-tightening when drilling, for precise drilling results

scope of supply and services:

- Ident. No. 004:** Quick-action drill chuck, in box
- Ident. No. 035:** Quick-action drill chuck, extra handle, in box



Ident. No. 004



Ident. No. 016



Ident. No. 035

Model	BE 10	BE 500/06	BE 500/10	BE 751
Max. drilling Ø in steel (mm)	10.0	6	10.0	13.0
Max. drilling Ø in wood (mm)	20	20	30	40
Power input (W)	450	500	500	750
Power output (W)	240	-	-	450
Idle speed 1st gear min./max.	0-2400 U/min	0-4500 U/min	0-1600 U/min	0-1000 U/min
Idle speed 2nd gear min./max.	-	-	-	0-3100 U/min
Min./max. drill chuck span width	1.0-10.0 mm	1.0-10.0 mm	1.0-13.0 mm	1.5-13.0 mm
Weight (kg)	1.3	1.5	1.8	2.6
70005...	Ident. No. Unit price, €	004 O. R.	006 O. R.	016 O. R.
		004 O. R.	016 O. R.	035 O. R.

Prod. group 745

BOSCH Drilling machines, 1-speed

voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:
For fast and precise drilling of boreholes.

▪ **Ident. No. 004:** With high speed, suitable for small bore diameters.

Execution:

- Continuous electronic speed control

scope of supply and services:

Quick-action drill chuck, in box

Model	GBM 6 RE	GBM 10 RE
BOSCH no.	0 601 472 600	0 601 473 600
Max. drilling Ø in aluminium (mm)	8	10.0
Max. drilling Ø in steel (mm)	6.5	10.0
Max. drilling Ø in wood (mm)	15	25
Power input (W)	350	600
Power output (W)	136	360
Idle speed 1st gear min./max.	0-4000 U/min	0-2600 U/min
Weight (kg)	1.2	1.7
With rubber-coated handle	-	Yes
70002...	Ident. No. 004 Unit price, € O. R.	Ident. No. 006 O. R.

Prod. group 731



Ident. No. 004



Ident. No. 006

BOSCH Drilling machines, 2-speed

voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:
For fast and precise drilling of boreholes.

- **Ident. No. 041:**
- Synchronised 2-speed driving key transmission for switching while running
 - Anti-friction bearing-mounted for long service life
 - Switch is operated and locked with one finger
 - Suitable for agitation
 - Spade handle for good grip

Execution:

- Continuous electronic speed control
- **Ident. No. 027:**
 - Quick-action drill chuck made of metal, secured by centre screw against twisting loose in anti-clockwise rotation
 - Controllable speed for material-suitable operation
 - Robust design for continuous use
 - Entirely supported with ball bearings and anti-friction bearings for long service life and precise work

scope of supply and services:

Ident. No. 027: Quick-action drill chuck, in box

Ident. No. 041: Toothed ring drill chuck, extra handle, depth stop, in box

Model	GBM 10-2 RE	GBM 16-2 RE
BOSCH no.	0 601 168 560	0 601 120 503
Max. drilling Ø in aluminium (mm)	13.0	20
Max. drilling Ø in steel (mm)	10.0	16.0
Max. drilling Ø in wood (mm)	25	40
Power input (W)	500	1050
Power output (W)	270	570
Idle speed 1st gear min./max.	0-1150 U/min	0-600 U/min
Idle speed 2nd gear min./max.	0-2100 U/min	0-1450 U/min
Weight (kg)	1.7	3.7
With rubber-coated handle	Yes	Yes
70016...	Ident. No. 027 Unit price, € O. R.	Ident. No. 041 O. R.

Prod. group 731



Ident. No. 027



Ident. No. 041

**Drill, 1-speed and 2-speed****voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation****Application:**

For fast and precise drilling of boreholes.

Execution:

- Continuous electronic speed control
- Electronic speed regulation
- Drill spindle with automatic locking for convenient tool changing
- Robust design for continuous use
- Metal gear head
- 5-metre cable

- High concentricity

▪ **Ident. No. 004-006:** Quick-action drill chuck made from metal, precision drill chuck, self-tightening drill chuck clamping jaws

▪ **Ident. No. 021-041:** Quick-action metal drill chuck, precision drill chuck, self-tightening drill chuck clamping jaws

scope of supply and services:

Quick-action drill chuck, extra handle, in box



Ident. No. 004-006



Ident. No. 021-041

Model	BOP 6	BOP 10	BOP 10-2	BOP 13-2
Max. drilling Ø in steel (mm)	6.0	10.0	10.0	13.0
Max. drilling Ø in wood (mm)	20	30	35	37
Power input (W)	500	500	500	550
Power output (W)	270	270	270	300
Idle speed 1st gear min./max.	0-4000 U/min	0-1500 U/min	0-700 U/min	0-680 U/min
Idle speed 2nd gear min./max.	-	-	0-2250 U/min	0-2200 U/min
Min./max. drill chuck span width	0.5-10.0 mm	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.7	1.8	2.0	2.0
With rubber-coated handle	Yes	Yes	Yes	Yes
70018...	Ident. No. 004	Ident. No. 006	Ident. No. 021	Ident. No. 041
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 704

BOSCH Angle drill **GWB 10 RE Professional**
400 watt**Application:**

For drilling boreholes in hard-to-reach places.

Execution:

- Continuous electronic speed control
- Low transmission head height

Advantage:

- Comfortable and safe working due to angular shape with slim motor
- Rugged bevel gear drive for long service life
- Low overall height due to recessed drill chuck

scope of supply and services:

Toothed ring drill chuck, in box



Model	GWB 10 RE
BOSCH no.	0 601 132 703
Max. drilling Ø in steel (mm)	10
Max. drilling Ø in wood (mm)	22
Power input (W)	400
Power output (W)	170
Width across corners (mm)	23
Weight (kg)	1.7
70105...	Ident. No. 005
	Unit price, €
	O. R.

Prod. group 731

**3 years warranty for electric tools**

Directly with the mobile phone to the registration

Extend the warranty period for your electric tool to three years.

Directly after the purchase, METABO, BOSCH, FEIN and MAKITA offer you the possibility to extend the warranty period for electric tools purchased in Germany to three years, free of charge.

A pre-requisite for the warranty extension is to register your tool on the corresponding manufacturer's website within 4 weeks after purchase. The extended warranty period starts with the date of purchase.

Use your mobile phone to scan the QR code and you will directly come to an area with further information and to the registration area.

metabowww.metabo.com/xxl**BOSCH**www.bosch-pt.com/warrantywww.fein.de/warranty**Makita**www.makita.de

metabo® Cordless hammer drills, 1-speed and 2-speed

voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:

For drilling boreholes in particularly solid materials using mechanical impact.

Execution:

- Continuous electronic speed control
- Rotatable carbon brushes for equal power in clockwise and anti-clockwise rotation
- Ident. No. 111-190:** Wear-free die-cast aluminium gear case for optimal heat dissipation and durability
- Ident. No. 145-230:**
 - Safety coupling decouples drive unit if plug-in tool is blocked
 - Dust protection
- Ident. No. 230:**
 - Wear-free die-cast aluminium gear case
 - Overload protection

- Restart protection after power failure

Advantage:

- Ident. No. 145-230:** Ball grommet for maximum freedom of movement and protection from cable breakage
- Ident. No. 190:** Impulse mode for loosening stuck screw heads and perfect spot drilling on smooth surfaces without using a centre punch
- Ident. No. 230:**
 - Fast tool change with one hand thanks to quick-action drill chuck
 - Indicator for carbon brush replacement
 - High torque for the toughest applications

scope of supply and services:

Quick-action drill chuck, extra handle, depth stop, in plastic case



Ident. No. 111



Ident. No. 230

Model	SBE 610	SBE 751	SBE 900 Impuls	SBE 1100 Plus
Max. drilling Ø in steel (mm)	10	13	13	16
Max. drilling Ø in wood (mm)	20	40	40	40
Power input (W)	610	750	900	1100
Power output (W)	360	450	550	660
Idle speed 1st gear min./max.	0-3100 U/min	0-1000 U/min	0-1000 U/min	0-900 U/min
Idle speed 2nd gear min./max.	-	0-3100 U/min	0-3100 U/min	0-2800 U/min
Min./max. drill chuck span width	1.5-13.0 mm	1.0-13.0 mm	1.5-13.0 mm	1.0-13.0 mm
Weight (kg)	2.0	2.7	2.8	2.9
70020...	Ident. No. 111	145	190	230
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 745

BOSCH Cordless hammer drills, 1-speed and 2-speed

voltage 230 V, 50 Hz, shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:

For drilling boreholes in particularly solid materials using mechanical impact.

Execution:

- Continuous electronic speed control
- Wear-free metal gear case for optimal heat dissipation and durability
- Ident. No. 046-048:** Torque pre-selection for uniform driving in of screws
- Ident. No. 048:**
 - Constant-Electronic: Holds speed constant even under load

- Torque Control: Torque pre-selection for uniform driving in of screws

Advantage:

- Rotatable carbon brushes for equal power in clockwise and anti-clockwise rotation
- Fast tool change with one hand thanks to quick-action drill chuck
- Ball grommet for maximum freedom of movement and protection from cable breakage

scope of supply and services:

Quick-action drill chuck, extra handle, depth stop, in plastic case



Ident. No. 011



Ident. No. 046-048

Model	GSB 16 RE	GSB 19-2 RE	GSB 21-2 RE	GSB 21-2 RCT
BOSCH no.	0 601 14E 500	0 601 17B 500	0 601 19C 500	0 601 19C 700
Max. drilling Ø in steel (mm)	13	13	16	16
Max. drilling Ø in wood (mm)	30	40	40	40
Power input (W)	750	850	1100	1300
Power output (W)	380	430	630	695
Idle speed 1st gear min./max.	0-2800 U/min	0-1000 U/min	0-900 U/min	0-900 U/min
Idle speed 2nd gear min./max.	-	0-3000 U/min	0-3000 U/min	0-3000 U/min
Min./max. drill chuck span width	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	2.2	2.6	2.9	2.9
70021...	Ident. No. 011	021	046	048
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 731

BOSCH

Cordless hammer drills, 1-speed and 2-speed - DIY version

shockproof, suppressed, for clockwise and anti-clockwise rotation

Application:

For drilling boreholes in particularly solid materials using mechanical impact, DIY version.

Execution:

- Continuous electronic speed control
- Connection for dust extraction

Advantage:

- Fast tool change with one hand thanks to quick-action drill chuck
- Rotatable carbon brushes for equal power in clockwise and anti-clockwise rotation
- Ident. No. 112:** Ball grommet for maximum freedom of movement and protection from cable breakage

- Ident. No. 116–136:** Cable has novel cable guide with hanging device for practical storage

scope of supply and services:

Quick-action drill chuck, extra handle, depth stop, in plastic case



Ident. No. 112



Ident. No. 116



Ident. No. 136

Model	PSB 650 RE	PSB 750 RCE	PSB 1000-2 RCE
BOSCH no.	0 603 128 000	0 603 128 500	0 603 173 500
Max. drilling Ø in steel (mm)	12	12	16
Max. drilling Ø in wood (mm)	30	30	40
Power input (W)	650	750	1000
Power output (W)	340	400	530
Idle speed 1st gear min./max.	0-3000 U/min	0-3000 U/min	0-1100 U/min
Idle speed 2nd gear min./max.	-	-	0-2800 U/min
Min./max. drill chuck span width	1.5-13.0 mm	1.5-13.0 mm	1.5-13.0 mm
Weight (kg)	1.9	1.9	2.8
70021...	Ident. No. 112	Ident. No. 116	Ident. No. 136
	Unit price, € O. R.	Unit price, € (O. R.)	Unit price, € O. R.

Prod. group 729

Drill stands

for hand drills and hammer drills in stationary use

Application:

For stationary application of electric hand drills and hammer drills and for thread cutters, screwdrivers and grinders with 43 mm spindle neck.

Execution:

- With depth stop

Advantage:

- Guarantees secure and precise work

Model	MBS 165	890
Adapter Ø (mm)	43	43
Height (mm)	500	500
Overhang (mm)	165	165
Max. working stroke (mm)	65	65
Base plate length x base plate width	220 x 213 mm	220 x 213 mm
Weight (kg)	5.0	5.5
MAXION 70025...	Ident. No. 019	-
	Unit price, € O. R.	
metabo 70025...	Ident. No. 110	
	Unit price, € -	Unit price, € O. R.

METABO = Prod. group 745

MAXION = Prod. group 768

Accessories for		70025 019
70025...	Fast-action chuck device MKF 40	Ident. No. 219 Unit price, € O. R.



Ident. No. 019



Ident. No. 110

metabo® Angle drill and screw attachment for hand drills and hammer drills

Application:

Ident. No. 015: For use on hand-held drills and hammer drills.

Ident. No. 025: For easy screw-driving in hard-to-reach places.

Execution:

Ident. No. 015:

- Suitable for drills with spindle neck diameter of 43 mm
- Spindle with hexagon socket for screwdriver bits
- Quick-clamping coupling
- Transmission ratio 1:1
- Suitable for clockwise and anti-clockwise rotation
- Drill chuck connecting thread 1/2 inch - 20 UNF

- Bit clamping socket

Ident. No. 025:

- With 1/4 inch (6.35 mm) hexagonal shaft
- Magnetic bit holder
- Only 30 mm corner-to-corner
- Suitable for cordless screwdrivers up to a maximum of 14 Nm and 400 rpm

Advantage:

Ident. No. 025:

- Gear unit made of special steel
- Angle screwdriver attachment with 105° angle of inclination
- Suitable for clockwise and anti-clockwise rotation

70052...	Angle drill and screw attachment	Ident. No.	015
		Unit price, €	O. R.
70052...	Angle screwdriver attachment	Ident. No.	025
		Unit price, €	O. R.

Prod. group 745



Ident. No. 015



Ident. No. 025

ORION® Spirit level Levelling aid

Application:

For use on electric hand drills.

Execution:

- Suitable for all electric hand drills
- Mounted on spindle neck
- With depth stop

Advantage:

- Equipped with removable, robust and ergonomically shaped handle
- Facilitates drilling and screw-driving in hard-to-reach places

70056...	Ident. No.	030
	Unit price, €	O. R.

Prod. group 794



KÄRCHER Drill dust collectors DDC 50 small, handy and effective - no more dust when drilling

Application:

For collecting drilling dust.

Execution:

- Vacuum holding function for suction on all common interior surfaces

- Suitable for all drills

- Comfortable and safe working due to compact construction

scope of supply and services:

Batteries (2x 1.5 V Mignon AA), protective cap (also used as wall mount for storage)

Advantage:

- No need for any additional vacuum cleaners

Container capacity (cm³)		23
Suitable for max. drill-bit Ø (mm)		10
Length (mm)		160
Width (mm)		80
Height (mm)		40
Weight (kg)		0.24
70057...	Ident. No.	010
	Unit price. €	O. R.

Prod. group 759



Example application

BOSCH Impact screwdriver electronic GDS 18 E Professional

500 watt

Application:

For driving and extracting screws and nuts with high torque.

Execution:

- Wear-free impact mechanism made of metal

Advantage:

- Ideal for mounting wheels on cars, constructing scaffolds and shelves, in the workshop and for threaded connections in wood or concrete

- With hook for mounting
- Extremely easy to handle due to soft grip surface and favourable position of centre of gravity due to centre handle

scope of supply and services:

In box



Model	GDS 18E	
BOSCH no.	0 601 444 000	
Power input (W)	500	
Power output (W)	270	
Max. torque for hard screwing application (Nm)	250	
Max. torque for soft screwing application (Nm)	160	
Tool holding device	1/2-inch external square	
Weight (kg)	3.2	
BOSCH 71031...	Ident. No.	006
	Unit price, €	O. R.

Prod. group 731

BOSCH Hammer drills

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For drilling and chiselling with pneumatic impact mechanism, in stone and concrete.

Execution:

- SDS-plus
- Ident. No. 039:** Overload coupling
- Ident. No. 039-059:** Continuous speed control
- Ident. No. 039-066:** Rotation stop for chiselling
- Ident. No. 059-066:**
 - Impact stop for drilling in wood and steel
 - Replacement chuck for fast changing between drilling with impact in concrete and drilling without impact in wood and metal
- Ident. No. 059-076:** Overload coupling for high working safety even in the most demanding applications

Ident. No. 076:

- Very fast changing between SDS-plus and quick-action drill chuck
- Aluminium gear case

Advantage:

- Reduced vibration for effortless work
- Ident. No. 039-059:** Maximum drilling progress and highest chiselling power in its class
- Ident. No. 039-066:** Ball grommet for preventing cable breakage

scope of supply and services:

Ident. No. 039: Additional handle, depth stop, additional handle, in L-Boxx

Ident. No. 059: Quick-action drill chuck 13 mm, replacement chuck SDS-plus, additional handle, depth

stop 210 mm, 1/1 L-BOXX tool insert in L-BOXX

Ident. No. 066: Quick-action drill chuck 13 mm, replacement chuck SDS-plus, additional handle, depth stop 210 mm, 1/1 L-BOXX tool insert in L-BOXX 136

Ident. No. 076: Quick-action drill chuck 13 mm, replacement drill chuck SDS-plus, additional handle, depth stop 310 mm, tool case

Technical Data:

- Max. drilling diameter in steel: 13 mm
- Tool holding device: SDS-plus
- With soft start: No
- With restart protection: No



Ident. No. 039-059



Ident. No. 066



Ident. No. 076

Model	GBH 2-28 DV	GBH 2-28 DFV	GBH 3-28 DFR	GBH set 4-32 DFR
BOSCH no.	0 611 267 101	0 611 267 201	0 611 24A 004	0 611 332 101
Max. impact energy (J)	3.2	3.2	3.1	4.2
Power input (W)	850	850	800	900
Max. drilling Ø in wood (mm)	30	30	30	32
Max. recommended drilling Ø in concrete (mm)	28	28	28	32
Max. core drill bit Ø (mm)	68	68	82	90
Weight (kg)	2.9	3.1	3.6	4.7
70170...	Ident. No.	039	066	076
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 731

BOSCH Drill chucks and adapters

for all electro-pneumatic drills and demolition hammer with SDS-plus attachment

Application:

For all electro-pneumatic hammer drills and demolition hammers with SDS-plus holder.

- **Ident. No. 510:** Drill chuck with key up to 13 mm diameter, for clockwise rotation
- **Ident. No. 520:** SDS-plus drill chuck drive arbour

Execution:

- Connection thread ½ inch-20 UNF

BOSCH no.		1 608 571 062	1 617 000 132
Tool holding device		SDS-plus	SDS-plus
70170...	Ident. No.	510	520
	Unit price, €	O. R.	O. R.

Prod. group 732



BOSCH Chisel with SDS-plus drive arbour

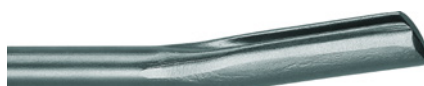
for hammer drills with rotation stop

Application:

For cutting and machining stone and metal.



Ident. No. 611-621



Ident. No. 631



Ident. No. 651

BOSCH no.		2 609 390 576	2 609 390 394	1 618 601 004	2 608 690 091
Form		Pointed	Flat	Hollow	Flat
Length (mm)		250	250	250	260
Width of cutting edge (mm)		-	20	22	40
70175...	Ident. No.	611	621	631	651
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 732

metabo® Magnetic core drilling unit MAG 32

1000 W, with Weldon holder

Application:

For drilling large diameters on magnetic workpieces.

Execution:

- Protection class 1
- Large stroke, therefore suitable for use with core drill bits, twist drills and countersinks
- Magnetic base with high retention force allows working on vertical surfaces and overhead
- Integrated coolant container for easily metered internal cooling of the core drill bit
- Bright LED light
- Restarting protection

- Hard-wearing 5-meter mains cable with rubber sheath
- Lockable carriage for comfortably changing tools

Advantage:

- Chip guard installable without tools protects user from metal chips and contact with tools
- Handle for comfortable carrying and lifting

scope of supply and services:

Ejector pin, securing belt, hexagon socket key size 4, chip guard, in plastic case



Model		MAG 32
Tool holding device		Weldon
Max. drilling Ø of core drill bit in steel (mm)		32
Max. drilling Ø in steel (mm)		13
Max. drilling depth (mm)		50
Max. rotation speed at nominal load (U/min(rpm))		450
Power input (W)		1000
Power output (W)		520
Baseplate width (mm)		189
Baseplate length (mm)		90
Max. working stroke (mm)		160
Weight (kg)		11.9
70142...	Ident. No.	011
	Unit price, €	O. R.

Prod. group 745

Accessories for			70142 011
70142...	Weldon to QuickIN adapter	Ident. No.	100
		Unit price, €	O. R.

**Magnetic core drilling unit KBB 30**
750 W, with Weldon holder**Application:**

For drilling large diameters on magnetic workpieces.

Execution:

- Protection class 1
- Rotation speed optimised for the use of HSS core drill bits

Advantage:

- Basic functionality for core drilling
- Robust machine layout for harsh working conditions

- Internal motor wiring cooling and gravitational force internal lubrication integrated into the drilling stand
- Pleasant and safe working due to compact construction and low weight for working at heights

scope of supply and services:

Coolant container, securing lashing strap, swarf hook, 2 centring pins, hexagon socket key 5 mm, contact protection, ref. no. 010+020, with plastic case



Model	KBB 30
Tool holding device	Weldon
Max. drilling Ø of core drill bit in steel (mm)	30
Max. drilling depth (mm)	50
Max. rotation speed at nominal load (U/min(rpm))	430
Power input (W)	750
Power output (W)	430
Baseplate width (mm)	178
Baseplate length (mm)	95
Max. working stroke (mm)	65
Adherence strength (kN)	8.0
Weight (kg)	10.0
70 143...	Ident. No. 005
	Unit price, € (O. R.)

Prod. group 704

Accessories for		70 143 005	
70 143...	Centring pin	Ident. No. 200	Unit price, € (O. R.)

**HSS Nova core drill bit**
Weldon holder**Application:**

For use on magnetic core drill units.

Advantage:

- The core drill bit exhibits high heat and wear resistance thanks to the fully hardened high-performance high-speed steel HSS Nova

Drill Ø (mm)	14	18	22
Cutting depth (mm)	50	50	50
70 143...	Ident. No. 250	Ident. No. 255	Ident. No. 260
	Unit price, € O. R.	Unit price, € O. R.	Unit price, € O. R.

Prod. group 704



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Magnetic core drilling units - with QuickIN holder
voltage 230 V, 50 Hz, protection class 1

Application:

For drilling large diameters on magnetic workpieces.

Execution:

- Protection class 1
- Suitable for overlapping drill holes
- Cooling lubricant supplied directly to the drill bit
- Strong magnetic retaining force for safe working in any position
- Self-starting lock to prevent uncontrolled restarting
- Overload protection for protection from overloading and overheating of the motor
- Ident. No. 028:** For precisely drilled holes using cemented carbide and HSS core drill bits

Advantage:

- Ident. No. 010:** Outstanding ease of handling for continuous use and working overhead
- Ident. No. 028:**
 - Convenient magnetic retention force display
 - Integrated coolant tank
 - Easy and confusion-free operating concept in the user's field of view

scope of supply and services:

Ident. No. 010: Toothed ring drill chuck, lashing strap, swarf hook, 2 centring pins, QuickIN adapter for M18x6P 1.5, contact protection, with cooling lubricant pump, in plastic case

Ident. No. 028: Coolant container, 1 centring pin 105 mm, contact protection, lashing strap, drift key, swarf hook, in plastic case

Model	KBM 32 Q	KBM 50 U
Tool holding device	QuickIN	QuickIN MT3
Max. drilling Ø of core drill bit in steel (mm)	32	50
Max. drilling Ø in steel (mm)	13	23
Max. drilling depth (mm)	50	50
Idle speed 1st gear min./max.	-	130-260 U/min
Idle speed 2nd gear min./max.	-	260-520 U/min
Max. rotation speed at nominal load (U/min(rpm))	440	-
Power input (W)	700	1200
Power output (W)	450	610
Baseplate width (mm)	160	195
Baseplate length (mm)	80	90
Max. working stroke (mm)	135	145
Adherence strength (kN)	9.0	12.5
Weight (kg)	10.5	13.9
70145...	Ident. No. Unit price, €	010 O. R.
		028 O. R.

Prod. group 704



Ident. No. 010



Ident. No. 028

Drive arbour, adapter and centring pin
for core drilling units

Application:

For use on magnetic core drill units.

Execution:

- Ident. No. 302-303:**
 - For table and column drilling machines
- Ident. No. 410:** Receptacle QuickIN/drive M18 x 6 P 1.5
- Ident. No. 420:** Receptacle QuickIN/drive 19 mm Weldon

- Ident. No. 510:** Centring pin for no. 70146 and no. 70147
- Ident. No. 520:** Centring pin for core drill bits with M18 x 6 thread and Weldon holder



Ident. No. 410



Ident. No. 420



Ident. No. 510

Type	Drive arbour Morse taper 2	Drive arbour Morse taper 3	M18 x 6 P 1.5 adapter	Weldon adapter	Centring pin	Centring pin
Length (mm)	-	-	-	-	104	119
Tool holding device	Morse taper shank	Morse taper shank	-	Weldon	-	Weldon
70145...	Ident. No. Unit price, €	302 O. R.	303 (O. R.)	410 O. R.	420 O. R.	510 O. R.
					520 O. R.	

Prod. group 704



HSS Nova core drill bit

QuickIN holder

Application:

For use on magnetic core drill units.

Advantage:

- The core drill bit exhibits high heat and wear resistance thanks to the fully hardened high-performance high-speed steel HSS Nova

Drill Ø (mm)	12	14	16	18	20	22	24	26
Cutting depth (mm)	50	50	50	50	50	50	50	50
Ident. No.	121	141	161	181	201	221	241	261
Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 704



metabo® Angle grinder

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For grinding and cutting off workpieces.

Execution:

- Metabo Marathon motor, Metabo S-automatic safety coupling, cut-out carbon brushes
- Ident. No. 262, 298–316, 330–421:** Restarting protection
- Ident. No. 282, 298–316, 330–421:** Electronic overload protection
- Ident. No. 292, 321:** Anti-vibration system
- Ident. No. 298, 321–330:** Tacho-Constamatic (TC) full-wave electronics
- Ident. No. 316:** Vario-Tacho-Constamatic (VTC) full-wave electronics
- Ident. No. 330:** Soft start
- Ident. No. 330–421:** Integrated auto-balancer
- Ident. No. 421:** Safety switch prevents unintentional switching on

Advantage:

- Gear case can be swivel-mounted for left-handed operation or for separation
- Ident. No. 222:** Smallest handle size in performance class
- Ident. No. 262–421:** M-Quick system for tool-free disk replacement at the push of a button
- Ident. No. 421:**
 - LED signal in the event of activated restart protection or overheating
 - Electronic safety cut-off of the motor if disc is blocked

scope of supply and services:

Ident. No. 222–262: Protective hood, support flange, M-Quick clamping nut, extra handle

Ident. No. 282–421: Protective hood, support flange, M-Quick clamping nut, extra handle Metabo VibraTech (MVT)



Ident. No. 242



Ident. No. 421

Model	W 9-115 Quick	WQ 1000	WEV 10-125 Quick	W 12-125 Quick	WA 12-125 Quick	WE 15-125 Quick	WEV 15-125 Quick	WEA 15-125 Quick
Washer Ø (mm)	115	125	125	125	125	125	125	125
Power input (W)	900	1010	1000	1250	1250	1550	1550	1550
Power output (W)	550	600	590	780	780	940	940	940
Idle speed 1st gear min./max.	0-10500 U/min(rpm)	0-10000 U/min(rpm)	2800-10500 U/min(rpm)	0-11000 U/min(rpm)	0-11000 U/min(rpm)	0-11000 U/min(rpm)	2800-11000 U/min(rpm)	0-11000 U/min(rpm)
Thread dimension of spindle	M14	M14	M14	M14	M14	M14	M14	M14
Weight (kg)	2.1	2.1	2.1	2.4	2.4	2.5	2.5	2.5
With restart protection	No	No	Yes	No	No	Yes	Yes	Yes
With soft start	No	No	Yes	No	No	Yes	Yes	Yes
With overload protection	No	No	Yes	No	No	Yes	Yes	Yes
With electronic feedback	No	No	Yes	No	No	Yes	Yes	Yes
With speed control	No	No	Yes	No	No	No	Yes	No
With disc brake	No	No	No	No	No	No	No	No
With dead man function	No	No	No	No	No	No	No	No
Ident. No.	222	242	262	282	292	298	316	321
Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Model	WEA 26-230 MVT Quick	WEA 17-125 Quick
Washer Ø (mm)	230	125
Power input (W)	2600	1700
Power output (W)	1800	1040
Idle speed 1st gear min./max.	0-6600 U/min(rpm)	0-11000 U/min(rpm)
Thread dimension of spindle	M14	M14
Weight (kg)	6.4	2.5
With restart protection	Yes	Yes
With soft start	Yes	Yes
With overload protection	Yes	Yes
With electronic feedback	Yes	Yes
With speed control	No	No
With disc brake	No	No
With dead man function	No	No
Ident. No.	421	330
Unit price, €	O. R.	O. R.

Prod. group 745

BOSCH Angle grinder - small, handy, powerful

230 volt, 50 Hz

Application:

For grinding and cutting off workpieces.

Execution:

- **Ident. No. 020, 038, 047-080:** 6-level speed pre-selection for different materials
- **Ident. No. 024-080:**
 - Geared head rotatable in 90° steps
 - Switch lock
 - Handle can be used on the left and on the right side
- **Ident. No. 030-080:**
 - KickBack Stop, soft start, overload protection, restart protection
 - Constant-Electronic for constant speed under heavy load

Advantage:

- **Ident. No. 030-080:** Reduced vibration for effort-less work

scope of supply and services:

Ident. No. 020-024: Holding flange, protective hood, clamping nut, extra handle, two-hole key, in box

Ident. No. 030-047: Holding flange, protective hood, clamping nut, extra handle, vibration control, two-hole key

Ident. No. 080: Holding flange, rapidly adjustable protective hood, clamping nut, extra handle, vibration control, two-hole key, in box



Ident. No. 020



Ident. No. 080

Model	GWS 7-115 E	GWS 9-115	GWS 13-125 CI	GWS 13-125 CIE	GWS 17-125 CI	GWS 17-125 CIE	GWS 15-125 CITH
BOSCH no.	0 601 388 201	0 601 790 000	0 601 79E 002	0 601 79F 002	0 601 79G 002	0 601 79H 002	0 601 830 407
Washer Ø (mm)	115	115	125	125	125	125	125
Power input (W)	720	900	1300	1300	1700	1700	1500
Power output (W)	300	530	700	700	1010	1010	860
Idle speed 1st gear min./max.	2800-11000 U/min(rpm)	0-11500 U/min(rpm)	-	2800-11500 U/min(rpm)	-	2800-11500 U/min(rpm)	2800-9300 U/min(rpm)
Max. idle speed (U/min(rpm))	-	-	11500	-	11500	-	-
Thread dimension of spindle	M14	M14	M14	M14	M14	M14	M14
Weight (kg)	1.9	2.0	2.3	2.3	2.4	2.4	2.3
With restart protection	-	-	Yes	Yes	Yes	Yes	Yes
With soft start	-	-	Yes	Yes	Yes	Yes	Yes
With overload protection	-	-	Yes	Yes	Yes	Yes	Yes
With electronic feedback	-	-	Yes	Yes	Yes	Yes	Yes
With speed control	-	-	No	Yes	No	Yes	No
With disc brake	-	-	No	No	No	No	No
With dead man function	-	-	No	No	No	No	No
70371...	Ident. No. 020	024	030	038	043	047	080
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 731

BOSCH Angle grinder - powerful, vibrations reduced by 50 %

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For grinding and cutting off workpieces.

Execution:

- Champion motor
- KickBack Stop, soft start, restart lock after power failure and overload protection
- Armoured windings protect motor from sharp grinding dust and guarantee long service life

- **Ident. No. 052:** Bar handle

- **Ident. No. 062:** Twist proof and rapidly adjustable protective hood for high level of user protection
- **Ident. No. 062-068:** Rotatable trigger handgrip

Advantage:

- Reduced vibration for effortless work

scope of supply and services:

Ident. No. 052-062: Holding flange, rapidly adjustable protective hood, clamping nut, extra handle, vibration control, two-hole key, in box

Ident. No. 065: Holding flange, quick-action clamping nut SDS, rapidly adjustable protective hood, clamping nut, extra handle, vibration control, two-hole key, in box



Ident. No. 052-062



Ident. No. 065



Ident. No. 068

Model	GWS 22-180 LVI	GWS 22-230 LVI	GWS 24-230 LVI	GWS 26-230 LVI
BOSCH no.	0 601 890 D00	0 601 891 D00	0 601 893 F04	0 601 895 F04
Washer Ø (mm)	180	230	230	230
Power input (W)	2200	2200	2400	2600
Power output (W)	1350	1350	1700	1800
Idle speed 1st gear min./max.	0-8500 U/min(rpm)	0-6600 U/min(rpm)	0-6600 U/min(rpm)	0-6600 U/min(rpm)
Thread dimension of spindle	M14	M14	M14	M14
Weight (kg)	5.3	5.4	5.5	5.6
70371...	Ident. No. 052	062	065	068
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 731

BOSCH

Quick-action clamping nut SDS-clic

Suitable for all angle grinders with M14 spindle thread

BOSCH no.	1 603 340 031
70371...	Ident. No. 100 Unit price, € O. R.

Prod. group 732



Angle grinder

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For grinding and cutting off workpieces.

Execution:

Ident. No. 006-026:

- POWERtronic for tremendous power
- Rotatable solid metal gear head
- Blockage monitoring, restart lock, soft start and electronic overload protection

Ident. No. 070-080:

- FEIN high-performance motor, dust-protected ball bearings, encapsulated electronic components

- Complete safety package with electric braking system EBS, restart lock and soft start-up
- Carbon brushes cut out automatically

Advantage:

- Ident. No. 016: With variable speed ideal for machining stainless steel
- Ident. No. 070-080: Tool-free quick-action clamping system QuickIN

scope of supply and services:

Ident. No. 006: Protective hood, 1 pair of flanges, anti-vibration handle, key

Ident. No. 016: Protective hood, 1 pair of flanges,

extra handle, key

Ident. No. 026: Protective hood, anti-vibration handle, tool-free quick-action clamping nut Fixtec, key

Ident. No. 070-080: Extra handle, protective wood, clamping unit for roughing and cutting discs

Technical Data:

- With restart protection: Yes
- With soft start: Yes
- With overload protection: Yes
- With electronic feedback: No
- With dead man function: No



Ident. No. 016



Ident. No. 026



Ident. No. 070-080

Model	WSG 15-125 P	WSG 15-70 Inox	WSG 15-125 PQ	WSB 20-180	WSB 20-230
Washer Ø (mm)	125	125	125	180	230
Power input (W)	1500	1500	1500	2000	2000
Power output (W)	900	900	900	1250	1250
Idle speed 1st gear min./max.	0-11000 U/min(rpm)	2500-7900 U/min(rpm)	0-11000 U/min(rpm)	0-8500 U/min(rpm)	0-6600 U/min(rpm)
Thread dimension of spindle	M14	M14	M14	QuickIN	QuickIN
Weight (kg)	2.3	2.4	2.1	5.9	5.9
With disc brake	No	No	No	Yes	Yes
With quick clamping system	No	No	No	Yes	Yes
70374...	Ident. No. 006 Unit price, € O. R.	016 O. R.	026 O. R.	070 O. R.	080 O. R.

Prod. group 704

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FLEX

Angle grinder

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For grinding and cutting off workpieces.

Execution:

- Spindle lock
- Continuously controllable speed for material-suitable operation
- Soft start, restart lock after power failure and overload protection
- Ident. No. 050:** Patented Multi-Grip system with front handle adjustable 180° in steps and safety locking: 1. unscrew, 2. lock, 3. screw tight
- Ident. No. 126:**

- FR full-wave electronics: with constant speed maintenance system using tachogenerator
- Protective hood adjustable without tools
- Ident. No. 128:** VR microprocessor electronics: Speed pre-selection, constant speed regulation using tachogenerator

Advantage:

- Ident. No. 024:** Epoxy-coated winding on field packet
- Ident. No. 024, 128:** Comfortable and safe working due to compact construction
- Ident. No. 050:**
 - Rear handle decoupled from motor by damping element

- Reduced vibration for effortless work

- Ident. No. 126-128:** SoftVib handle with integrated, patented clamping nut key and vibration damping

scope of supply and services:

Ident. No. 024: Protective hood, 125 diameter grinding, handle, face wrench, clamping flange, clamping nut M14

Ident. No. 126: Protective hood, 125 diameter grinding, SoftVib handle, clamping flange, clamping nut M14

Ident. No. 128: Protective hood, 125 diameter grinding, SoftVib handle, clamping flange, FixTec quick-action clamping nut M14



Ident. No. 050
With multi-grip system



Ident. No. 050



All models with FLEXgrip handle

Model	L 10-10/125	L 3206 CD	L 1710 FRA	L 3410 VR
Washer Ø (mm)	125	230	125	125
Power input (W)	1010	2500	1400	1400
Power output (W)	600	1700	880	880
Idle speed 1st gear min./max.	-	-	-	2900-11000 U/min(rpm)
Max. idle speed (U/min(rpm))	11000	6500	10000	-
Thread dimension of spindle	M14	M14	M14	M14
Weight (kg)	2.2	6.2	2.4	2.2
With restart protection	Yes	Yes	Yes	Yes
With soft start	No	Yes	Yes	Yes
With overload protection	No	Yes	Yes	Yes
With electronic feedback	No	Yes	Yes	Yes
With speed control	No	No	No	Yes
With disc brake	No	No	No	No
With quick clamping system	No	Yes	No	Yes
With dead man function	No	No	No	No
70470...	Ident. No. 024	Ident. No. 050	Ident. No. 126	Ident. No. 128
Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 707

metabo® Angle grinder WEV 15-125 Quick Inox

1550 watt

Application:

For grinding and cutting of INOX workpieces.

scope of supply and services:

Protective hood, support flange, M-Quick clamping nut, extra handle Metabo VibraTech (MVT)

Model	WEV 15-125 Quick Inox
Washer Ø (mm)	125
Power input (W)	1550
Power output (W)	940
Idle speed 1st gear min./max.	2000-7600 U/min(rpm)
Thread dimension of spindle	M14
Weight (kg)	2.5
With restart protection	Yes
With soft start	Yes
With overload protection	Yes
With electronic feedback	Yes
With speed control	Yes
With disc brake	No
With quick clamping system	Yes
With dead man function	No
70373...	Ident. No. 501
Unit price, €	O. R.

Prod. group 745



BOSCH Metal abrasive cutter GCO 2000 Prof

230 V, 50 Hz, 2000 W

Application:

For precision-angle cutting and trimming of various workpieces made of metal.

scope of supply and services:

Collet chuck 6 mm, open-end spanner, rubber protective cap and additional handle, in box

Execution:

- For universal use, hardened and polished, replaceable collet chuck for precise concentricity of the tools

Model	GCO 2000 Professional	
BOSCH no.	0 601 B17 200	
Washer Ø (mm)	355	
Cut-off wheel drill hole (mm)	25.4	
Max. idle speed (U/min(rpm))	3500	
Power input (W)	2000	
Length x height	510 x 400 mm	
Max. cutting capacity of square sections	110 x 110 mm	
Max. cutting capacity of rectangular sections	180 x 85 mm	
Max. cutting capacity of round sections (mm)	125	
Max. cutting capacity of L sections	130 x 130 mm	
Weight (kg)	18.0	
70372...	Ident. No.	020
	Unit price, €	O. R.

Prod. group 731



metabo® Straight grinder

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For fine finishing, smoothing and deburring.

Execution:

- Spindle stop at the push of a button: Tool change with a single key possible
- With a thread measure of just 195 mm, it is the most slender straight grinder on the market
- Robust and smooth running planetary gearbox provides high torques
- Thermal overload protection

- Safety cut-out and restart protection
- Suitable for driving flexible shaft
- Ident. No. 007:** High-performance with high speed, ideal for milling and grinding work
- Ident. No. 017:** Strong, for milling and grinding work
- Ident. No. 027:** Ideal for surface machining due to high torque and reduced number of revolutions per minute



Ident. No. 007



Ident. No. 027

Model	GE 710 Compact	GE 710 Plus	GE 950 G Plus
Idle speed 1st gear min./max.	13000-34000 U/min	10000-30500 U/min	2500-8700 U/min
Power input (W)	710	710	950
Power output (W)	430	430	510
Spindle-neck Ø (mm)	43	43	43
Max. clamping Ø (mm)	6	6	6
Weight (kg)	1.4	1.6	1.7
70309...	Ident. No. 007	Ident. No. 017	Ident. No. 027
	Unit price, €	O. R.	O. R.

Prod. group 745

Accessories for			70309 007	70309 017	70309 027
70309...	Collet chuck Ø 3 mm	Ident. No.	110	110	110
		Unit price, €	O. R.	O. R.	O. R.
70309...	Collet chuck Ø 6 mm	Ident. No.	120	120	120
		Unit price, €	O. R.	O. R.	O. R.
70309...	Collet chuck Ø 8 mm	Ident. No.	130	130	130
		Unit price, €	O. R.	O. R.	O. R.
70309...	Flexible shaft Speed range 7,500-30,000 rpm, 8 mm	Ident. No.	205	205	205
		Unit price, €	O. R.	O. R.	O. R.
70309...	Flexible shaft Speed range 20,000-30,000 rpm, 6 mm	Ident. No.	210	210	210
		Unit price, €	O. R.	O. R.	O. R.

BOSCH Straight grinder

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For fine finishing, smoothing and deburring.

Execution:

- Kickback stop, direct cooling, cut-out carbon brushes
- Ident. No. 010-045:** Constant-Electronic for constant speed even under heavy load
- Ident. No. 020, 045:** 6-level speed pre-selection for different materials
- Ident. No. 042-045:** Long, slim grinding spindle
- Ident. No. 051:** Constant-Electronic for constant speeds under heavy load

Advantage:

- Ident. No. 010-045:** Long service life due to double-sealed ball bearings
- Ident. No. 051:** Handy design and high torque – ideal for sanding surfaces with disc sanders, brushes and other accessories

scope of supply and services:

Ident. No. 010-020: 2 x open-end spanners size 19, clamping unit

Ident. No. 042-051: Single open-ended spanners 13 mm and 19 mm, clamping unit



Ident. No. 020



Ident. No. 042

Model	GG5 28 C	GG5 28 CE	GG5 28 LC	GG5 28 LCE	GG5 8 CE
BOSCH no.	0 601 220 000	0 601 220 100	0 601 221 000	0 601 221 100	0 601 222 100
Idle speed 1st gear min./max.	0-28000 U/min	10000-28000 U/min	0-28000 U/min	10000-28000 U/min	25000-8000 U/min
Power input (W)	600	650	650	650	750
Power output (W)	350	380	380	380	420
Spindle-neck Ø (mm)	43	43	43	43	43
Max. clamping Ø (mm)	8	8	8	8	8
Weight (kg)	1.4	1.4	1.6	1.6	1.7
With electronic feedback	Yes	Yes	Yes	Yes	Yes
With soft start	Yes	Yes	Yes	Yes	Yes
With overload protection	Yes	Yes	Yes	Yes	Yes
70301...	Ident. No. Unit price, €	010 O. R.	020 O. R.	042 O. R.	045 O. R.

Prod. group 731

Accessories for			70301 010	70301 020	70301 042	70301 045	70301 051
70303...	Collet chuck Ø 3 mm	Ident. No. Unit price, €	110 O. R.	110 O. R.	110 O. R.	110 O. R.	110 O. R.
70303...	Collet chuck Ø 6 mm	Ident. No. Unit price, €	120 O. R.	120 O. R.	120 O. R.	120 O. R.	120 O. R.
70303...	Collet chuck Ø 8 mm	Ident. No. Unit price, €	130 O. R.	130 O. R.	130 O. R.	130 O. R.	130 O. R.
70303...	Collet 1/8 inch	Ident. No. Unit price, €	140 O. R.	140 O. R.	140 O. R.	140 O. R.	140 O. R.
70303...	Collet chuck 1/4 inch	Ident. No. Unit price, €	150 O. R.	150 O. R.	150 O. R.	150 O. R.	150 O. R.
70306...	Clamping nut	Ident. No. Unit price, €	100 O. R.	100 O. R.	100 O. R.	100 O. R.	100 O. R.



Drive machine with flexible shaft MB 2-2 set 710 W, 230 V

Application:

For light grinding and milling work.

scope of supply and services:

Drive machine with flexible shaft and straight hand-piece, key for tool changing

Execution:

- With combined foot and suspension shackle

Model	MB 20-2
Min./max. rotation speed	10000-25000 U/min
Power input (W)	710
Power output (W)	430
Wave length (m)	1.50
Weight (kg)	4.40
72120...	Ident. No. Unit price, €
	010 O. R.

Prod. group 749

Accessories for			72120 010
72124...	Angled handpiece W 627	Ident. No. Unit price, €	010 O. R.
72124...	Straight handpiece KGS27	Ident. No. Unit price, €	020 O. R.
72124...	Flexible shaft 6 mm, maximum speed 25,000 rpm	Ident. No. Unit price, €	030 O. R.



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DREMEL® Propulsion machine with flexible shaft

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

Ident. No. 020: For light grinding, milling or drilling work.

Ident. No. 040: For light grinding, polishing or drilling work.

Execution:

▪ **Ident. No. 020:** With foot pedal

▪ **Ident. No. 040:**

- With collet chuck lock
- Replaceable carbon brushes
- EZ connection cap with integrated collet chuck key

Advantage:

▪ **Ident. No. 020:**

- High motor power at low speed
- Long service life due to reduction of rotation heat
- Maximum precision due to high concentricity
- **Ident. No. 040:**
 - Comfortable and enhanced tool guidance
 - Simple accessory replacement with collet chuck locking mechanism
 - Reduced vibration for effortless work

scope of supply and services:

Ident. No. 020: Removable handpiece, wall hook with wall mounting plate and 21 accessory parts

Ident. No. 040: Flexible shaft, 25 accessory parts, plastic case

Model	Fortiflex 9 100-21	3000/1-125
Min./max. clamping Ø	0.3-4 mm	0.8-3.2 mm
Min./max. rotation speed	0-20000 U/min	10000-33000 U/min
Power input (W)	300	130
Wave length (m)	1.33	0.19
Weight (kg)	1.50	0.55
72140...	Ident. No. 020	040
	Unit price, €	O. R.

Prod. group 768



Ident. No. 020



Ident. No. 040



Sanding polisher WPO 14-25 E

1200 W, 230 V

Execution:

- Continuous electronic speed control
- Spindle lock
- Restarting protection
- Automatic cut-out carbon brushes
- Dust-protected ball bearings
- Soft start

Advantage:

- For clockwise and anti-clockwise operation
- Universally usable as grinder/polisher and satin-tion machine

scope of supply and services:

Anti-vibration handle

Model	WPO 14-25 E
Max. polishing element Ø (mm)	230
Washer Ø (mm)	230
Min./max. idle speed	900-2500 U/min
Power output (W)	750
Power input (W)	1200
Thread dimension of spindle	M14
Weight (kg)	2.5
70374...	Ident. No. 041
	Unit price, €
	O. R.

Prod. group 704



FLEX

Roto random orbital polisher XC 3410 VRG set 900 watt

Application:

For polishing and sealing painted surfaces.

Execution:

- FLEX VR microprocessor electronics: with constant speed maintenance system by means of tachogenerator, soft start, accelerator switch, restart lock after power failure, overload protection, temperature monitoring and speed pre-selection
- Permanent forced drive for a continuous polishing pattern
- Damped special Velcro plate for polishing

- Very quiet running due to levelling compound

Advantage:

- Ideally suited for temperature-sensitive paint due to low heat production on the surface

scope of supply and services:

SoftVib handle, trigger handgrip, special Velcro plate diameter 140 mm, polishing sponge PS-W 160, microfibre cloth MW-C, fine grinding polish P 03/06-LD 250 ml, grinding polish P 05/04-LD 250 ml, in pocket

Model	XC 3401 VRG set		
Max. polishing element Ø (mm)	160		
Min./max. idle speed	160-480 U/min		
Power output (W)	590		
Power input (W)	900		
Thread dimension of spindle	M14		
Weight (kg)	2.6		
70381...	Ident. No.	010	
	Unit price, €	O. R.	

Prod. group 707



FLEX

Polishing machine PE 14-3 125 set 1400 W, 230 V

Application:

For polishing and sealing painted surfaces.

Execution:

- Continuous electronic speed control
- Spindle lock
- Restarting protection
- Constant speed under heavy load
- Overload protection and temperature monitoring

- Soft start
- Throttle switch

scope of supply and services:

Side handle, Velcro plate, diameter 150 mm, polishing sponge blue PS-B 160, polishing sponge white PS-W 160, microfibre polishing cloth, NanoPolish & Wax 250 ml, in box

Model	PE 14-3 125 set		
Max. polishing element Ø (mm)	160		
Washer Ø (mm)	150		
Min./max. idle speed	1100-3700 U/min		
Power output (W)	880		
Power input (W)	1400		
Thread dimension of spindle	M14		
Weight (kg)	2.2		
70380...	Ident. No.	012	
	Unit price, €	O. R.	

Prod. group 707



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FLEX**Satination machine LP 1503 VR set****1200 W, 230 V****Application:**

For satination, polishing, matting, structuring, brushing and deburring various materials.

Execution:

- VR full-wave electronics: with constant speed maintenance system by means of tachogenerator, soft start, overload protection and speed pre-selection

- Adjustable protective hood: for grinding tools up to 115 mm

Advantage:

- High-level of comfort when working
- Fast and tool-free replacement of grinding tools with knurled thumb screw

scope of supply and services:

Air pump

Model	LP 1503 VR Professional set	
Power input (W)	1200	
Power output (W)	700	
Min./max. idle speed	1200-3700 U/min	
Max. Ø of roll (mm)	115	
Max. tool width (mm)	100	
Tool holding device	Inner diameter 19 mm	
Weight (kg)	3.1	
70563...	Ident. No.	010
	Unit price, €	O. R.

Prod. group 707



Example application

FLEX**Tube belt sander LRP 1503 VRA set****1200 W, 230 V****Application:**

For grinding and polishing tube structures.

Execution:

- Powerful motor with high efficiency for high output power
- VR full-wave electronics: with constant speed maintenance system by means of tachogenerator, soft start, overload protection and speed pre-selection
- High-quality, sprung sanding arm: made of light metal with two deflection rollers

- Extra handle: rotatable 180° and lockable

Advantage:

- Suitable for tight spots
- Optimal wrapping of tubes
- Tool changing possible without using tools

scope of supply and services:

Set includes sanding belts, abrasive fleece, carrying case

Model	LRP 1503 VRA set	
Power input (W)	1200	
Power output (W)	700	
Min./max. belt speed	4-12 m/s	
Max. pipe Ø (mm)	125	
Suitable for strap dimension	760 x 40-20 mm	
Weight (kg)	3.7	
70565...	Ident. No.	010
	Unit price, €	O. R.

Prod. group 707



Example application

FLEX

Belt filing machine LBS 1105 VE set 710 W, 230 V

Application:

For sanding and filing at inaccessible spots.

Execution:

- Powerful motor with high efficiency for high output power
- VE electronics: for continuously variable pre-selection of belt speed
- Sanding head: pivots 140°, 9 mm or 30 mm sanding arms can be used
- Sanding arm adjustable for belt lengths 520 mm and 533 mm

- Machining length of sanding arm up to approx. 12 cm

Advantage:

- Quick belt change system: for fast, tool-free replacement

scope of supply and services:

Set includes sanding arms, sanding belts, abrasive fleece, carrying case

Model	LBS 1105 VE Professional set	
Power input (W)	710	
Power output (W)	420	
Min./max. belt speed	4-12 m/s	
Suitable for strap dimension	520/533 x 4-30 mm	
Weight (kg)	2.5	
70570...	Ident. No.	020
	Unit price, €	O. R.

Prod. group 707



FLEX

Sanding belts for belt sanding machines Endless

Application:

For pre-grinding of pipes and pipe unions.

Width of tape x length of strap	9 mm x 533 mm	9 mm x 533 mm	30 mm x 533 mm	30 mm x 533 mm
Grain size	60	120	60	120
Included in delivery	10 .	10 .	10 .	10 .
70570...	Ident. No.	406	412	506
	Price/pack, €	O. R.	O. R.	O. R.

Prod. group 707

BOSCH Multi-Cutter GOP 250 CE Professional 250 W, 230 V

Application:

For work in development, renovation and in the automotive field.

Execution:

- Powerful motor with high efficiency for high output power
- Integrated cable ball grommet increases flexibility and prevents cable breakage
- Controllable speed for material-suitable operation
- Extensive accessory program offers solutions for numerous application cases

with micro Velcro adhesion, HCS segment saw blade for plunge cuts for wood, stepped ASZ 85 EC, 5x Delta sanding sheets K 80, universal adapter, hexagon socket key, cable length 4 m, in box.

Technical Data:

- Model: GOP 250 CE
- BOSCH no.: 0 601 230 000
- Power input: 250 W
- Power output: 170 W
- Screw-head height: 85 mm
- Tool holding device: Hexagon socket
- Weight: 1.30 kg

scope of supply and services:

BIM submerged saw blade AIZ 28 EB for wood and metal, Delta sanding plate AVI 93 G

70532...	Ident. No.	020
	Unit price, €	O. R.

Prod. group 731



**MultiMaster FMM 350 Q Top****350 watt****Application:**

For heavy sawing and cutting work in development and renovation.

Execution:

- Powerful, self-supporting motor with high efficiency
- Vibration decoupling for effortless work
- Metal gear head and use of ball/needle bearings throughout
- Continuous electronic speed control
- Integrated interface for mounting additional system accessories
- 8-star tool holding fixture with excellent torque transmission

Advantage:

- Optimal handling due to Softgrip zone

- Large accessory programme available for all applications
- Comfortable QuickIN quick-action clamping system

scope of supply and services:

As per item no. 205, but with 1 perforated sanding plate, 5 perforated sanding sheets each (K 60, 80, 120, 180), 1 sanding plate diameter 115 mm, perforated, 2 perforated sanding sheets each (K 60, 80, 180),
2 E-Cut long-life saw blades (35 and 65 mm), 2 M-Cut saw blades (10 and 30 mm),
1 carbide segment saw blade, 1 carbide perforated rasp (triangular shape), 1 suction unit

Model	MultiMaster FMM 350 Q Top
Power input (W)	350
Tool holding device	QuickIN Max
Weight (kg)	1.40
70533...	Ident. No. 211
	Unit price, € O. R.

Prod. group 704

BOSCH Accessories for BOSCH multi-cutters and other multi-cutters
for all common brands of multi-cutter

Ident. No. 120



Ident. No. 140



Ident. No. 180



Ident. No. 190



Ident. No. 220

Applications	Cutting door frames to length Cutting smaller profile rails to length Cutting laminate Cutting parquet flooring	Recesses in furniture elements Plunge cuts in softwood Cutting wooden elements to length	Milling out joints Milling grooves in aerated concrete Smaller cutouts in soft wall tiles	Milling out joints from wall and floor tiles Removing grout and tile adhesive Removing joints in tight corners	Cutting soft materials Cutting insulation panels Flush cutting insulation material to length
BOSCH no.	2 608 661 636	2 608 661 637	2 608 661 642	2 608 661 757	2 608 661 693
Ø (mm)	85	-	85	70	100
Length x width	-	40 x 32 mm	-	-	-
Included in delivery	1.	1.	1.	1.	1.
70532...	Ident. No. 120	Ident. No. 140	Ident. No. 180	Ident. No. 190	Ident. No. 220
	Unit price, € O. R.	Unit price, € O. R.	Unit price, € O. R.	Unit price, € O. R.	Unit price, € O. R.

Prod. group 732

Accessories
for FEIN MultiMaster

Technical Data:

- Included in delivery: 1.



Ident. No. 300



Ident. No. 330



Ident. No. 700



Ident. No. 710

Applications		Plastics GRP Wood Putty Nonferrous metals Sheet metal up to approx. 1 mm	For soft materials only Ideal for working in corners	Cutting rigid materials	Cutting soft materials
Type		HSS saw blade	HSS saw blade	Segment blade convex	Segment blade concave
Ø (mm)		63	90	-	-
70533...	Ident. No.	300	330	700	710
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 704

metabo **Orbital sanders**
voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For sanding wood, plastics, metals, stone, plaster and painted surfaces.

Execution:

- Dust trap cartridge with filter for working without an extractor connected
- Ident. No. 010:**
 - Dust-protected ball bearings for long service life of the machine
 - Cut-out carbon brushes
- Ident. No. 025-055:**
 - Rugged clamping system for sandpaper with and without Velcro, as well as abrasives up to 10 mm thick
 - Multi-sealed ball bearings and tear-resistant rubber sleeve
 - TurboBoost: Connection of additional power reserves for maximum removal
 - Abrasive pad with additional lateral suction channels for clean working
 - Vario (V) electronics for working with orbital rates suitable for the material

- Extraction option by connecting an all-purpose vacuum cleaner

Advantage:

- Ident. No. 010:**
 - Long service life even under difficult usage conditions
 - Very good weight/performance ratio, therefore ideal for working overhead
- Ident. No. 025-055:**
 - Orbital system with double-row angular contact ball bearings for extremely quiet running and minimal vibration
 - Excellent sanding pattern without sanding whorls and grooves for professional surface treatment

scope of supply and services:

- Ident. No. 010:** Dust trap cartridge, in box
- Ident. No. 025-055:** Abrasive pad with Velcro adhesion, removable additional handle, dust trap cartridge, 1x folded filter, in box



Ident. No. 010



Ident. No. 025

Model		SR 10-23 Intec	Sr E 4350 Turbo Tec	Sr E 4351 Turbo Tec
Base plate length x base plate width		184 x 92 mm	190 x 92 mm	114 x 229 mm
Oscillating Ø		2.5 mm	2.2 mm	2.2 mm
Power input (W)		200	350	350
Power output (W)		90	180	180
Weight (kg)		2.0	2.5	2.7
70512...	Ident. No.	010	025	055
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 745

Accessories for		70512 010	70512 025	70512 055
70512...	Fold filter made of polyester	110	110	110
	Ident. No.	O. R.	O. R.	O. R.
	Unit price, €			

metabo **Abrasive discs**
for Metabo orbital sanders

Application:

- For clamping
- For machining of veneers, solid wood, polyester, steel and stainless steel sheets, non-ferrous metals

and light metals.

scope of supply and services:

1 pack of 10

Grain size		40	60	80	120	60	80
Number of holes (PCS)		8	8	8	8	14	14
Length x width		230 x 93 mm	230 x 93 mm	230 x 93 mm	230 x 93 mm	280 x 115 mm	280 x 115 mm
705 12...	Ident. No.	304	306	308	312	406	408
	Price/pack. €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 745

metabo® Sanding sheets for Metabo orbital sanders for Sr E 4350 Turbo Tec

Application:

For machining of veneers, solid wood, polyester, steel and stainless steel sheets, non-ferrous metals and light metals.

Execution:

- Abrasive pad with Velcro

scope of supply and services:

1 pack of 10

Technical Data:

- Number of holes: 8
- Length x width: 185 x 93 mm

Grain size		60	80
705 12...	Ident. No.	705	707
	Price/pack, €	O. R.	O. R.

Prod. group 745

BOSCH Orbital sanders voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For sanding wood, plastics, metals, stone, plaster and painted surfaces.

Execution:

- Controllable speed for material-suitable operation
- Perfect sandpaper mounting, even for paper without Velcro connection, due to innovative paper clamping system
- Direct connection of vacuum cleaner or micro-filter dust box for dust-free working in any application situation
- **Ident. No. 013:** Additional handle with vibration damping for comfortable gripping in any working position

Advantage:

- Ergonomically designed surfaces with soft grip for perfect handling with or without an additional handle
- Uniform distribution of the contact pressure for high surface quality
- Lowest level of vibration in class (<2.5 m/s²) due to decoupled motor housing

scope of supply and services:

Micro-filter box, additional handle, in L-Boxx



Ident. No. 023

Model		GSS 230 AVE	GSS 280 AVE
BOSCH no.		0 601 292 801	0 601 292 901
Base plate length x base plate width		92 x 182 mm	114 x 205 mm
Oscillating Ø		2.4 mm	2.4 mm
Power input (W)		300	350
Power output (W)		140	180
Weight (kg)		2.4	2.7
705 14...	Ident. No.	013	023
	Unit price, €	O. R.	O. R.

Prod. group 731

BOSCH Abrasive discs for BOSCH orbital sanders

Application:

For machining wood, metal, etc.

scope of supply and services:

1 pack of 10

Execution:

- Sanding sheets with Velcro

Grain size		60	80	120	60	80	120
Number of holes (PCS)		8	8	8	14	14	14
Length x width		186 x 93 mm	186 x 93 mm	186 x 93 mm	230 x 115 mm	230 x 115 mm	230 x 115 mm
705 14...	Ident. No.	206	208	212	306	308	312
	Price/pack, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 732

BOSCH Triangular sander GDA 280 E Professional 280 watt

Application:

For polishing in corners and edges and on small surfaces.

Execution:

- Controllable speed
- With integrated extraction channel for direct connection to a vacuum cleaner

Advantage:

- Especially suitable for hard-to-access areas and on small surfaces

- Comfortable and safe working due to compact construction

- Fast and tool-free replacement of grinding discs with SDS system

- Comfortable and safe working due to small handle size and soft grip surface

scope of supply and services:

Sanding tongue oval, sanding tongue flat, sanding sheet set, 15 pcs. 5 x K60/5 x K120/5 x K240, polishing felt, disc sanding attachment, in L-Boxx



Model	GDA 280 E
BOSCH no.	0 601 294 76A
Min./max. idle speed	13000-19000 U/min
Power input (W)	280
Power output (W)	160
Oscillating Ø	2 mm
Weight (kg)	1.1
70530...	Ident. No. 022 Unit price, € O. R.

Prod. group 731

Accessories for		70530 022
70530...	Abrasive pad	Ident. No. 100 Unit price, € O. R.

BOSCH Abrasive discs

for BOSCH triangular sander model PDA 240 E and GDA 280 E

Application:

For machining wood.

Execution:

- Corundum with synthetic resin binder, high material removal power, for all types of wood and wood materials (plywood)

Advantage:

- Ident. No. 308-318: 4x longer lifetime when sanding paints, lacquer and smearing materials (e.g. fillers, putty)

scope of supply and services:

1 pack of 5

Technical Data:

- Dimensions of triangle-shaped sandpaper: 93 x 93 x 93 mm

Type	Red Wood	Red Wood	Red Wood	Red Wood assortment
BOSCH no.	2 608 605 601	2 608 605 602	2 608 605 603	2 608 605 191
Grain size	80	120	180	-
Included in delivery	5 .	5 .	5 .	6 .
70530...	Ident. No. 308 Price/pack, € O. R.	Ident. No. 312 O. R.	Ident. No. 318 O. R.	Ident. No. 390 O. R.

Prod. group 732

metabo® Random orbital sander

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For finishing surfaces.

Execution:

- Vario (V) electronics: Adjusting ring for controlling the speed for material-suitable operation
- Connection of additional power reserves for maximum removal with TurboBoost
- Thanks to the Power Control System, no sanding grooves when running machine is set down onto the material
- Removable extra handle
- Dust-protected ball bearings for long service life of the machine
- Rugged bearing housing made from wear-free die-cast aluminium

- Handle area with slip-proof soft grip surface
- Dust trap cartridge with filter for working without an extractor connected
- Ident. No. 100: Connection of wet or dry vacuum cleaner possible
- Ident. No. 200: Adjustment of fine sanding or high removal with patented dual resonant circuit adjustment

scope of supply and services:

Support plate with Velcro adhesion, hexagon key, removable additional handle, dust trap cartridge, 1x folded filter, in box

Technical Data:

- Min./max. idle speed: 4200-11000 U/min



Ident. No. 100

Model	SXE 425 Turbo Tec	SXE 450 Turbo Tec
Support-disc Ø (mm)	125	150
Power input (W)	320	350
Power output (W)	160	180
Oscillating Ø	5 mm	2.8 mm 6.2 mm
Thread dimension of spindle	M6 x 16	M8 x 16
Weight (kg)	2.3	2.4
70535...	Ident. No. 100 Unit price, € O. R.	Ident. No. 200 O. R.

Prod. group 745

Accessories for		70535 100	70535 200
70512...	Fold filter made of polyester	Ident. No. 110 Unit price, € O. R.	Ident. No. 110 O. R.

BOSCH Random orbital sander

voltage 230 V, 50 Hz, shockproof, suppressed

Application:
For finishing surfaces.

Execution:

- Speed controllable for material-suitable operation
- Constant-Electronic for constant speed under load
- Efficient and perfect dust extraction with the Bosch Microfilter System
- Velcro closure for fast, convenient sanding disc replacement
- Ident. No. 032:** Friction brake allows fast shut-off of the tool for optimised working efficiency
- Ident. No. 060:** Grinding disc brake prevents damage (e.g. grooves) to workpiece

Advantage:

- Ident. No. 032:** Vibration-reduced for effortless work
- Ident. No. 042:** Suitable for left-handers
- Ident. No. 060:**

- Change from fine sanding to rough sanding or polishing with a single click
- Five times higher removal in turbo operation (coarse sanding): time savings enable amortisation in a few working hours
- Protects health due to 98% dust capture using external suction unit

scope of supply and services:

Ident. No. 032: Extra handle, grinding disc (150 mm), grinding disc (150 mm) 8 + 1 perforation, grinding disc (125 mm), 2x sandpaper grain size 120, microfilter box, hexagon socket key, in L-Boxx

Ident. No. 042: Sandpaper grain size 80, adapter, suction adapter, in box

Ident. No. 060: Sandpaper grain size 120, grinding disc, key holder, hexagon key size 5 (part no. 1 907 950 006), extra handle, in plastic box

Technical Data:

- Support-disc diameter: 150 mm



Ident. No. 032

Model	GEX 125/150 AVE	GEX 150 AC	GEX 150 Turbo
BOSCH no.	0 601 37B 101	0 601 372 768	0 601 250 760
Min./max. idle speed	5500-12000 U/min	4500-12000 U/min	3100-6650 U/min
Power input (W)	400	340	600
Oscillating Ø	4 mm	4 mm	4.5 mm
Thread dimension of spindle	M8 x 25	M8 x 25	M8 x 18
Weight (kg)	2.4	2.1	2.4
With electronic feedback	No	Yes	Yes
70536...	Ident. No. 032 Unit price, € O. R.	Ident. No. 042 Unit price, € O. R.	Ident. No. 060 Unit price, € O. R.

Prod. group 731

metabo® Adhesive sanding sheets with Velcro

For METABO and BOSCH random orbital sanders

Application:
For machining wood, metal, and coloured paints.

scope of supply and services:
1 pack of 5

Execution:

- High-quality sandpaper with semi-open scattering and high cutting power for a homogeneous sanding pattern

Technical Data:

- Included in delivery: 5 .

Ø (mm)	125	125	125	125	125	150	150	150	150	150
Number of holes (PCS)	8	8	8	8	8	6	6	6	6	6
Grid size	40	60	80	120	240	40	60	80	120	240
70535...	Ident. No. 504 Price/pack, € O. R.	Ident. No. 506 Price/pack, € O. R.	Ident. No. 508 Price/pack, € O. R.	Ident. No. 512 Price/pack, € O. R.	Ident. No. 524 Price/pack, € O. R.	Ident. No. 604 Price/pack, € O. R.	Ident. No. 606 Price/pack, € O. R.	Ident. No. 608 Price/pack, € O. R.	Ident. No. 612 Price/pack, € O. R.	Ident. No. 624 Price/pack, € O. R.

Prod. group 745

metabo® Double-ended grinders

voltage 230 V, 50 Hz or three-phase motor 400 V, 50 Hz

Application:
For grinding, sharpening, deburring and derusting of steel, metals and tools.

Execution:

- Maintenance-free induction motor, low noise and vibration
- Protective hood with bayonet mount
- Large spark protection glasses to protect eyes
- Vibration-damping rubber feet for secure position
- Ident. No. 010-030:** Motor for single-phase alternating current
- Ident. No. 020, 060:** Laterally closed protective hoods with extraction connectors
- Ident. No. 020-060:**
 - With connectible emergency stop switch and restart protection
 - Workpiece rests adjustable without tools
- Ident. No. 030-050:** Wear-free cast aluminium protective hoods

- Ident. No. 040-050:** Powerful three-phase motor with high torque
- Ident. No. 060:**
 - With wet and dry grinding discs
 - High-power motor for single-phase alternating current
 - Corrosion-resistant water bath container

scope of supply and services:

Ident. No. 010-040: Synthetic corundum grinding discs grain sizes 36 and 60, spark protection glasses, workpiece rest, hexagon key

Ident. No. 050: Synthetic corundum grinding discs grain size 60, wet-grinding disc, spark protection glasses, workpiece rest, hexagon key

Ident. No. 060: Synthetic corundum grinding disc grain size 60, wet-grinding disc, spark protection glasses, workpiece rest, hexagon key, corrosion-resistant water bath container



Ident. No. 020



Ident. No. 060

Model	DS 150	DS 175	DS 200	DSD 200	DSD 250	TNS 175
Max. idle speed (U/min(rpm))	2980	2980	2980	2980	1490	2980
Motor design	Alternating current motor	Alternating current motor	Alternating current motor	Three-phase AC motor	Three-phase AC motor	Alternating current motor
Power input (W)	350	500	600	750	900	500
Power output (W)	200	310	370	450	540	310
Disc Ø x disc thickness	150 x 20 mm	175 x 25 mm	200 x 25 mm	200 x 25 mm	250 x 40 mm	175/200 x 25/40 mm
Disc hole Ø (mm)	20	32	32	32	51	32/20
Inner Ø of connecting piece (mm)	-	35	35	35	35	35
Weight (kg)	9.5	14.5	16.3	16.0	33.3	14.9
With restart protection	No	Yes	Yes	Yes	Yes	Yes
70574...	Ident. No. 010	020	030	040	050	060
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 745

Accessories for		70574 010	70574 020	70574 030	70574 040	70574 050	70574 060
70574... Machine stand	Ident. No. 410	410	410	410	410	410	410
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.
70574... Wall console	Ident. No. 420	420	420	420	420	420	420
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

metabo® Sanding disc

For METABO double-ended grinding and belt sanding machines

Execution:

- Grain size 36 P: Synthetic corundum for pre-sanding of hardened and unhardened steels

- Grain size 60 N: Synthetic corundum, for fine sanding of hardened and unhardened steels

Disc Ø x disc thickness	150 x 20 mm	150 x 20 mm	175 x 25 mm	175 x 25 mm	200 x 25 mm	200 x 25 mm	250 x 40 mm	250 x 40 mm
Disc hole Ø (mm)	20	20	32	32	32	32	51	51
Grain size	36	60	36	60	36	60	36	60
Included in delivery	1 .	1 .	1 .	1 .	1 .	1 .	1 .	1 .
70574...	Ident. No. 205	210	215	220	225	230	235	240
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 745

metabo® Combination belt sanding machine BS 175

500 watt

Application:

For demanding sharpening, grinding and deburring work

Execution:

- Large belt sander arm, tilts continuously up to 90°
- Lower noise and vibration, maintenance-free induction motor
- Protective hood with bayonet mount

- Dust-protected emergency stop switch
- Restarting protection
- Large spark protection glasses to protect eyes
- Vibration-damping rubber feet for secure position

scope of supply and services:

Synthetic corundum grinding disc grain size 60, fabric sanding belt grain size 60, spark protection glasses, workpiece rest, hexagon key



Model	BS 175
Max. idle speed (U/min(rpm))	2980
Power input (W)	500
Power output (W)	310
Washer Ø (mm)	175
Washer thickness (mm)	25
Disc hole Ø (mm)	32
Length of tape (mm)	1020
Max. sanding belt width (mm)	50
Inner Ø of connecting piece (mm)	35
Weight (kg)	14.5
70574...	Ident. No. 070
	Unit price, € O R

Prod. group 745

Accessories for		70574 070
70574... Machine stand	Ident. No. 410	410
	Unit price, €	O. R.

metabo® Sanding belts, endless

for METABO belt sanding machine

Application:

Ident. No. 306: For machining unalloyed and low-alloy steels, cast iron, aluminium alloys, brass, bronze, hard metallic layers, rubber and plastics.

Ident. No. 308-324: For machining metals, unalloyed and low-alloy steels, cast iron, aluminium alloys, brass, bronze, hard metallic layers, rubber

and plastics.

Execution:

- High-quality sandpaper (synthetic corundum) with tight scattering, high cutting power and long service life

Width of band (mm)	50	50	50	50	50	50
Length of tape (mm)	1020	1020	1020	1020	1020	1020
Grain size	60	80	100	120	180	240
Included in delivery	3 .	3 .	3 .	3 .	3 .	3 .
70583...	Ident. No. 306	308	310	312	318	324
	Price/pack, €	O. R.	O. R.	O. R.	O. R.	O. R.

Prod. group 745

Belt sanders**voltage 230 V, 50 Hz, shockproof, suppressed****Application:**

For removing, flat-sanding, smoothing and cleaning wood, plastic and metal.

Execution:

- Sanding belt 75 x 533 mm
- Ident. No. 048:**
 - Adjusting ring for pre-selecting the belt speed
 - Vario-Tacho-Constamatic (VTC) full-wave electronics for working with belt speeds suitable for the material
 - With machine stand and longitudinal stop
- Ident. No. 055:**
 - Swivel castor fine adjustment
 - Aluminium rollers for the most demanding applications
 - Control electronics with speed preselection for material-suitable operation
 - Robust toothed belt and metal toothed belt wheels

- Connection for suction with dust bag and vacuum cleaner

Advantage:

- Ident. No. 048:**
 - Fast and tool-free sanding belt replacement
 - Connection for a wet and dry vacuum cleaner possible
- Ident. No. 055:** Optimised sanding results due to graphite-coated abrasive pad

scope of supply and services:

Ident. No. 048: Dust collection bag, extra handle, hexagon key, suction adapter, longitudinal stop and machine stand

Ident. No. 055: With sanding belt, graphite plate, parallel/angle stop, dust bag, subframe, in plastic case



Ident. No. 048



Ident. No. 055

Model	BAE 75	GBS 75 AE set
BOSCH no.	-	0 601 274 765
Min./max. belt speed	4.0-7.5 m/s	200-330 m/s
Power input (W)	1010	750
Power output (W)	500	410
Width of tape x length of strap	75 mm x 533 mm	75 mm x 533 mm
Weight (kg)	4.9	3.4
With speed control	Yes	Yes
With electronic feedback	Yes	No
metabo 70571...	Ident. No. 048	-
	Unit price, €	O. R.
BOSCH 70571...	Ident. No. 055	-
	Unit price, €	O. R.

BOSCH = Prod. group 731
METABO = Prod. group 745

**Electric scraper****voltage 230 V, 50 Hz, shockproof, suppressed****Application:**

Ident. No. 005: For light smoothing of vertical surfaces.

Ident. No. 010: For scraping, even on large and vertical surfaces.

Execution:

- Stroke counter infinitely adjustable electronically up to 1600 rpm
- Equipped with scraper blade suspension
- Use of carbide-tipped scraper blades, clamp holder with exchangeable scraping plates made of cemented carbide with four cutting edges or steel plates

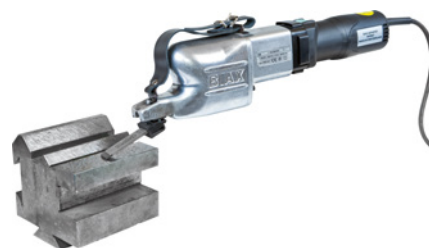
- Suitable for scraping plastics, scraping films, fine scraping, precision scraping and oil film scraping
- Stroke length regulation infinitely adjustable

Advantage:

- Also suitable for dovetail guides and prisms, in combination with special blades

scope of supply and services:

Cable and plug, set of carbon brushes, keys for adjusting stroke and changing tools, scraping blade 20/90, in plastic case

Ident. No. 005
Model BL 10Ident. No. 010
Model BL 40

Model	BL 10	BL 40
Power input (W)	320	320
Max. number of strokes (U/min(rpm))	1600	1600
Min./max. stroke length	0-10 mm	0-20 mm
Weight (kg)	2.7	3.7
70601...	Ident. No. 005	010
	Unit price, €	(O. R.)

Prod. group 749

**Scraping tools****for BIAX electric scrapers****Application:**

No. 70602: For rough scraping of surfaces.

For machining grey cast iron, machine cast iron, steel and cast steel, bronze, brass, hard materials.

No. 70609: For finish and precision scraping of surfaces, prisms, dovetail guides etc.

For machining grey cast iron, machine cast iron, bronze, brass and hard material

Execution:

- No. 70602:** Carbide-tipped scraping blade
- No. 70609:** Internally sprung scraping blade



No. 70602



No. 70609

Type		Scraping blade	Scraping blade	Scraping blade	Scraping blade sprung	Scraping blade sprung
Length x width		90 x 20 mm	90 x 25 mm	90 x 30 mm	150 x 15 mm	150 x 20 mm
Edge radius (mm)		60	90	140	60	60
70602...	Ident. No.	030	040	050	-	-
	Unit price, €	O. R.	(O. R.)	O. R.	-	-
70609...	Ident. No.	-	-	-	020	030
	Unit price, €	-	-	-	O. R.	O. R.

Prod. group 749



Clamp holder for BIAX electric scraper

Application:

For standard scraping of surfaces.

Advantage:

- For use in electric scrapers, models BL and BS 40

Execution:

- Straight version

Type		Clamp holder	Clamp holder
Length x width		23 x 85 mm	23 x 135 mm
70603...	Ident. No.	010	020
	Unit price, €	O. R.	O. R.

Prod. group 749



Scraper plates for BIAX electric scraper

made from cemented carbide and HHS

Application:

Ident. No. 020-030: For rough and finish scraping of surfaces.

Ident. No. 040: For rough and finish scraping of surfaces.

For machining grey cast iron, machine cast iron, steel and cast steel, bronze, brass and hard

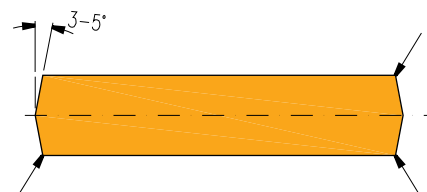
materials

Execution:

- Ident. No. 020-030:** For machining grey cast iron, machine cast iron, steel and cast steel, bronze, brass and hard materials

Type		Carbide scraping plates	Carbide scraping plates	Carbide scraping plates
Length x width		25 x 20 mm	25 x 25 mm	25 x 30 mm
Edge radius (mm)		150	150	150
70604...	Ident. No.	020	030	040
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 749



Carbide scraping plate



Tin snips

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For cutting sheet-metal.

- Ident. No. 250:** Free view of work surface and cutting line

Execution:

- allow chip-free cutting
- High curve and radial manoeuvrability
- Ident. No. 160:** Cutting table made of high-strength steel

Advantage:

- Low exertion of force necessary due to optimum cutting geometry
- Ident. No. 160:**
 - Reversible blade with four cutting sides
 - Smallest and most manoeuvrable shears in their performance class

- Ident. No. 250:** Fast and precise cutting even for overhead work

scope of supply and services:

Ident. No. 160: 2 x batteries (12 V), 4-sided reversible blade, in plastic case

Ident. No. 250: 2 x batteries (28 V), 4-sided reversible blade, in plastic case



Ident. No. 160
Similar image



Ident. No. 250
Similar image



Model		TruTool S 160	TruTool S 250
Max. cutting capacity in sheet metal (400 N/mm ²) (mm)		1.6	2.5
Max. cutting capacity in sheet metal (600N/mm ²) (mm)		1.2	2.0
Max. cutting capacity in sheet metal (800N/mm ²) (mm)		1.0	1.5
Max. cutting capacity in aluminium sheet (250 N/mm ²) (mm)		2.0	3.0
Min./max. cutting speed		8-12 m/min	4-7 m/min
Min. radius (mm)		15	20
Power input (W)		350	500
Stroke rate (U/min(rpm))		4800	1760
Weight (kg)		1.6	2.2
71061...	Ident. No.	160	250
	Unit price, €	O. R.	O. R.

Prod. group 717

Accessories for			71061 160	71061 250
71061...	Reversible blade for TruTool S 160	Ident. No. Set price, €	616 O. R.	-
71061...	Reversible blade for TruTool S 250	Ident. No. Set price, €	-	625 O. R.

Sheet metal nibblers TruTool N 500

1400 watt

Application:

For cutting flat and corrugated sheet metal, particularly for cuts over folds, edges, welding seams and double sheet metal.

Execution:

- Four cutting directions

- Also available as an electrical version

Advantage:

- Optimal weight/performance ratio

scope of supply and services:

Punch 5/P5, die 5, in plastic case

Model	TruTool N 500	
Max. cutting capacity in sheet metal (400 N/mm ²) (mm)	5.0	
Max. cutting capacity in sheet metal (600N/mm ²) (mm)	3.0	
Max. cutting capacity in sheet metal (800N/mm ²) (mm)	2.5	
Max. cutting capacity in aluminium sheet (250 N/mm ²) (mm)	7.0	
Cutting speed (m/min)	1.5	
Min. radius (mm)	90	
Power input (W)	1400	
Stroke rate (U/min(rpm))	720	
Weight (kg)	4.0	
71070...	Ident. No.	021
	Unit price, €	O. R.

Prod. group 717

Accessories for			71070 021
71070...	Punch for TruTool N 500	Ident. No. Unit price, €	121 O. R.
71070...	Die 5 for TruTool N 500	Ident. No. Unit price, €	220 O. R.



Similar image



Electric sabre saws

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For removing old components and for cutting pipes.

Execution:

- No. 71168:**
 - with connectible pendulum stroke and VV electronic control
 - Soft start with throttle switch
 - Fast and tool-free exchanging of saw blades
- No. 71170:**
 - With constant pendulum stroke for fast sawing progress
 - Vibration-reduced for effortless work
 - Bright LED light
 - Metal hook for hanging up the tool during an interruption of work
 - Rubberised gear case for safe and comfortable gripping

- Powerful motor with Constant Electronic

Advantage:

- No. 71168:** Fast and tool-free exchanging of saw blades
- No. 71170:** Faster tool change with one hand thanks to SDS saw blade replacement

scope of supply and services:

No. 71168: Assortment of saw blades, in plastic case

No. 71170: Saw blade wood S 2345 X, saw blade metal S 123 XF, in plastic case

Technical Data:

- Stroke length: 28 mm
- With rubber-coated handle: Yes
- With electronic feedback: Yes



No. 71168



No. 71170

Model	SKE 2902 VV		GSA 1300 PCE	
BOSCH no.	-		0 601 64E 200	
Max. cutting capacity of wood (mm)	-		230	
Max. cutting capacity of steel (mm)	250		-	
Max. cutting capacity of non-ferrous metals (mm)	-		20	
Min./max. idle stroke speed	0-2600 U/min		0-2900 U/min	
Power input (W)	1200		1300	
Power output (W)	670		-	
Weight (kg)	4.0		4.1	
With working lights	No		Yes	
With soft start	Yes		No	
FLEX 71168...	Ident. No.	007	-	
	Unit price, €	O. R.		
BOSCH 71170...	Ident. No.	-	023	
	Unit price, €		O. R.	

FLEX = Prod. group 707
BOSCH = Prod. group 731

metabo® Jigsaws

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For powerful cutting in wood, non-ferrous base metal and steel.

Execution:

- Switchable chip-blowing function
- Deep saw blade guide
- Ident. No. 021:** Vario (V) electronics for working with stroke counts suitable for the material
- Ident. No. 047:**
 - Fin can be inserted into guide plate for easy straight cutting

- Vario-Tacho-Constamatic (VTC) full-wave electronics
- Integrated LED work light

Advantage:

- Metabo Quick for tool-free replacement of saw blades
- Extraction option by connecting an all-purpose vacuum cleaner

scope of supply and services:

Extractor connection, sight glass, splinter protection plate, hexagon key, in plastic case

Model	STEB 70 Quick	STE 90 SCS
Design of the handle	Stirrup handle	Knob
Max. cutting capacity of wood (mm)	70	90
Max. cutting capacity of steel (mm)	6	6
Max. cutting capacity of non-ferrous metals (mm)	20	20
Min./max. idle stroke speed	900-3300 U/min	1000-3000 U/min
Power input (W)	570	610
Power output (W)	335	360
Number of pendulum-stroke stages	4	4
Weight (kg)	2.0	2.3
With working lights	No	Yes
With rubber-coated handle	No	No
With electronic feedback	No	Yes
With restart protection	No	No
71127...	Ident. No. 021 Unit price, € O. R.	Ident. No. 047 Unit price, € O. R.

Prod. group 745



Ident. No. 021



Ident. No. 047

BOSCH Jigsaws

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For complex radius cuts in wood and sheet metal.

Execution:

- Ident. No. 112:**
 - Switchable chip-blowing function
 - Control electronics
- Ident. No. 112-119:** 4-stage oscillation
- Ident. No. 114-119:** Electronic speed preselection
- Ident. No. 143:**
 - Constant-Electronic
 - Connection for a wet and dry vacuum cleaner possible
 - Highly precise saw blade guide with patented double roller
 - Bright LED light
 - Rugged magnesium baseplate

Advantage:

- Ident. No. 112-119:** Saw blade change with no tools
- Ident. No. 143:**
 - "Parking position" for fast, practical saw blade replacement with just one hand
 - First rate smooth running thanks to mass compensation system

scope of supply and services:

Ident. No. 112: Extractor set, sight glass, splinter protection plate, hexagon key, plastic case

Ident. No. 114-119: Saw blade T 144 D, cover hood, sliding shoe, suction nozzle, splinter protection, 1/1 L-BOXX insert, in L-BOXX 136

Ident. No. 143: Saw blade T 144 DP, saw blade T 244 D, saw blade T 308 B, splinter protection, extractor adapter 1/1 L-BOXX insert, in L-BOXX 136



Ident. No. 114



Ident. No. 143

Model	GST 90 E	GST 150 CE	GST 150 BCE	GST 160 BCE
BOSCH no.	0 601 58G 000	0 601 512 003	0 601 513 003	0 601 518 000
Design of the handle	Knob	Knob	Stirrup handle	Stirrup handle
Max. cutting capacity of wood (mm)	90	150	150	160
Max. cutting capacity of steel (mm)	10	10	10	10
Max. cutting capacity in aluminium (mm)	20	20	20	20
Min./max. idle stroke speed	500-3100 U/min	500-3100 U/min	500-3100 U/min	800-3000 U/min
Lift height (mm)	26	26	26	26
Power input (W)	650	780	780	800
Weight (kg)	2.3	2.6	2.7	2.3
With working lights	No	No	Yes	Yes
With rubber-coated handle	No	Yes	Yes	No
With electronic feedback	No	Yes	Yes	Yes
With soft start	No	No	No	No
71128...	Ident. No. 112 Unit price, € O. R.	Ident. No. 114 Unit price, € O. R.	Ident. No. 119 Unit price, € O. R.	Ident. No. 143 Unit price, € O. R.

Prod. group 731

**Jigsaw 4351 FCTJ****720 watt****Application:**

For complex radius cuts in wood and sheet metal.

Execution:

- 4-stage pendulum stroke adjustment
- Bright LED light
- Extraction adapter

Advantage:

- Square lifting rod reduces tilting in curved cuts
- Reduced vibrations
- Saw blade change with no tools

scope of supply and services:

Suction connector, saw blade set, plastic slide plate, splinter guard, in plastic case MAKPAC 1



Model	4351 FCTJ
Design of the handle	Knob
Max. cutting capacity of wood (mm)	135
Max. cutting capacity of steel (mm)	10
Max. cutting capacity of non-ferrous metals (mm)	20
Min./max. idle stroke speed	800-2800 U/min
Lift height (mm)	26
Power input (W)	720
Number of pendulum-stroke stages	4
Weight (kg)	2.5
With working lights	Yes
71124...	Ident. No. 031 Unit price, € O. R.

Prod. group 715

**Sabre saw blades**

for the following makes: BOSCH, AEG, FEIN, METABO (for FLEX all models except SR 602)

Advantage:

- For extremely heavy loads
- Highly flexible
- Long service life

scope of supply and services:

1 pack of 5

Technical Data:

- Cutting material: Bimetal

BOSCH no.	S 922 BF	S 922 EF	S 922 AF	S 1122 BF	S 1122 EF	S 1022 VF	S 1211 H	S 1211 VF
Saw blade design	Restricted Milled	Corrugated Milled	Corrugated Milled	Restricted Milled	Corrugated Milled	Restricted Milled	Restricted Milled	Restricted Milled
Length (mm)	150	150	150	200	200	200	300	300
Teeth spacing (mm)	1.8	1.4	1.0	1.8	1.4	-	2.5	-
Min./max teeth spacing	-	-	-	-	-	1.8-2.4 mm	-	1.8-2.4 mm
Applications	Sheet metals (3-8 mm) Solid pipes (Ø 10-100 mm) Solid profiles (Ø 10-100 mm) Fast cutting	Sheet metals (1.5-4 mm) Pipes (Ø 5-100 mm) Profiles (Ø 5-100 mm)	Sheet metals (0.7-3 mm) Fine pipes (Ø 5-10 mm) Fine profiles (Ø 5-10 mm) Effortless cutting Fine cut	Sheet metals (3-8 mm) Solid pipes (Ø 10-175 mm) Solid profiles (Ø 10-175 mm) Flexible flush cuts Fast cutting	Sheet metals (1.5-4 mm) Pipes (Ø 5-175 mm) Profiles (Ø 5-175 mm) Flexible flush cuts	St 37 Non-ferrous metals Stainless steel Steel tubes V2A Cast iron (3-8 mm)	St 37 Profiles Nonferrous metals Steel tubes Steel tubes Insulating material (3-10 mm)	St 37 Nonferrous metals Cast-iron pipes up to 3-8 mm Steel pipes up to 3-8 mm Pallet construction
71134...	Ident. No. 010 Price/pack, € O. R.	020 O. R.	030 O. R.	040 O. R.	050 O. R.	060 O. R.	070 O. R.	080 O. R.

Prod. group 793

**Sabre saw blades**

for the following makes: BOSCH, AEG, FEIN, METABO (for FLEX all models except SR 602 VV)

Advantage:

- For extremely heavy loads
- Highly flexible
- Long service life

scope of supply and services:

1 pack of 5

Technical Data:

- Cutting material: Bimetal



Ident. No. 015



Ident. No. 055



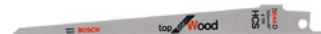
Ident. No. 065



Ident. No. 115



Ident. No. 235



Ident. No. 505



Ident. No. 515



Ident. No. 525

Model	BOSCH no.	Saw blade design	Length (mm)	Teeth spacing (mm)	Min./max teeth spacing	Applications	71135... ID no.	O. R.
S 922 EF	2 608 656 015	Restricted Milled	150	1.4	-	Sheet metals (1.5-4 mm) Pipes (Ø 5-100 mm) Profiles (Ø 5-100 mm)	015	O. R.



Model	BOSCH no.	Saw blade design	Length (mm)	Teeth spacing (mm)	Min./max teeth spacing	Applications	71135... ID no.	
S 922 BF	2 608 656 014	Restricted Milled	150	1.8	-	Sheet metals (3-8 mm) Solid pipes (Ø 10-100 mm) Solid profiles (Ø 10-100 mm) Fast cutting	055	O. R.
S 1122 BF	2 608 656 019	Restricted Milled	225	1.8	-	Sheet metals (3-8 mm) Solid pipes (Ø 10-175 mm) Solid profiles (Ø 10-175 mm) Flexible flush cuts Fast cutting	065	O. R.
S 1122 HF	2 608 656 021	Restricted Milled	225	2.5	-	Pallet repairs Timber with nails (5-175 mm) Wood with metal (5-175 mm) Sheet metals Tubes Aluminium profiles (3-12 mm) Flexible flush cuts	115	O. R.
S 1222 VF	2 608 656 022	Restricted Milled	300	-	1.8-2.6 mm	Timber with nails (5-250 mm) Wood with metal (5-250 mm) Sheet metals Aluminium profiles (3-10 mm) Plastic profiles (Ø 3-250 mm) Flexible flush cuts	155	O. R.
S 1411 DF	2 608 654 763	Restricted Milled	300	4.3	-	Timber with nails Wood with metal Chipboard (10-250 mm) Aerated concrete (10-250 mm) Plastics GRP Profiles (5-60 mm)	235	O. R.
S 644 D	2 608 650 673	Restricted Ground	150	4.3	-	Construction timber (6-100 mm) Timber walls (< 75 mm) Boards: chip (6-60 mm) Boards: MDF (6-60 mm) Plywood Plastic (6-100 mm) Specially for plunge cuts	505	O. R.
S 1531 L	2 608 650 676	Restricted Ground	240	5.0	-	Rough timber Free of nails (15-190 mm) Live wood Pruning green wood (Ø < 190 mm) Firewood (Ø 15-190 mm)	515	O. R.
S 1542 K	2 608 650 682	Restricted Ground	240	8.5	-	Rough timber Free of nails (15-190 mm) Live wood Pruning green wood (Ø < 190 mm) Firewood (Ø 15-190 mm)	525	O. R.
							Price/pack, €	

Prod. group 733

ATORN® Jigsaw blades

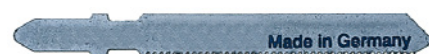
for the following makes BOSCH, Makita, Metabo, AEG, DeWALT, FESTOOL, FLEX, HOLZ-HER, Milwaukee

Advantage:

- Ident. No. 010: Outstanding edge holding ability
- Ident. No. 110, 130: High heat and wear resistance
- Ident. No. 120, 210: Bimetal, made from HSS and HCS, unbreakable, for extreme stresses, highly flexible, long service life

scope of supply and services:

- Ident. No. 010-110, 130: 1 pack of 20 in practical plastic box
- Ident. No. 120, 210: 1 pack of 5



Model	Cutting material	Saw blade design	Length (mm)	Teeth spacing (mm)	Applications	71130... ID no.	
T 101 B	HCS	Ground (HCS)	75	2.5	Softwood Chipboard (3-30 mm) Core boards (3-30 mm) Fibreboard (3-30 mm) Plastics (Ø < 30 mm) Epoxy (Ø < 30 mm)	010	O. R.
T 118 A	HSS	Corrugated (HSS)	50	1.2	Sheet metals (1-3 mm)	110	O. R.

Model	Cutting material	Saw blade design	Length (mm)	Teeth spacing (mm)	Applications	71130... ID no.	
T 118 B	HSS	Corrugated (HSS)	50	2.0	Sheet metals (2.5-6 mm)	120	O. R.
T 127 D	HSS	Straight-set (HSS)	75	3.0	Sheet metals (3-15 mm) Pipes (Ø < 30 mm) Profiles (Ø < 30 mm)	130	O. R.
T 118 AF	Bimetal	Corrugated (bimetal)	50	1.2	Sheet metals (1-3 mm)	210	O. R.
						Price/pack, €	

Prod. group 793

ATORN® Jigsaw blades

for the following makes BOSCH, Makita, Metabo, AEG, DeWALT, FESTOOL, FLEX, HOLZ-HER, Milwaukee

Execution:

- Suitable for BOSCH, Makita, Metabo, AEG, DeWALT, FESTOOL, FLEX, HOLZ-HER, Milwaukee

Ident. No. 410:

- Consisting of: 8 x coarse and fast (T 144 D), 8 x fine and clean (T 101 B), 4 x curve (T 119 BO)
- The jigsaw blade demonstrates outstanding edge holding ability thanks to hard carbon steel HCS
- Corresponds to BOSCH model: 8 x T 144 D/8 x T 101 B/4 x T 119 BO

Ident. No. 510:

- Consisting of: 8 x fine (T 118 A), 8 x medium (T 118 B), 4 x coarse (T 127 D)

- The jigsaw blade exhibits high heat and wear resistance thanks to the fully hardened high-performance high-speed steel HSS

- Corresponds to BOSCH model: 8 x T 118 A/8 x T 118 B/4 x T 127 D

scope of supply and services:

Ident. No. 410: 1 pack of 20 in practical plastic box: 8 x coarse and fast (corresponds to T 144 D) 8 x fine and clean (corresponds to T 101 B) 4 x curve (corresponds to T 119 BO)

Ident. No. 510: 1 pack of 20 in practical plastic box: 8 x fine (corresponds to T 118 A) 8 x medium (corresponds to T 118 B) 4 x coarse (corresponds to T 127 D)



Ident. No. 410



Ident. No. 510

Suitable for	Wood	Metal
Saw blade design	Ground (HCS) Restricted	Straight-set (HSS) Milled
Number of pieces in assortment/set (PCS)	20	20
71130...	Ident. No. 410 Price/pack, € O. R.	Ident. No. 510 Price/pack, € O. R.

Prod. group 793

BOSCH Jigsaw blades - HSS

for the following makes BOSCH, Makita, Metabo, AEG, DeWALT, FESTOOL, FLEX, HOLZ-HER, Milwaukee

Advantage:

- Ident. No. 205:** Bimetal, made from HSS and HCS, unbreakable, for extreme stresses, highly flexible, long service life
- Ident. No. 215-295:** High heat and wear resistance

scope of supply and services:

1 pack of 5

Technical Data:

- Cutting material: HSS



Ident. No. 205



Ident. No. 215



Ident. No. 225



Ident. No. 235



Ident. No. 255



Ident. No. 265



Ident. No. 275



Ident. No. 295

Model	BOSCH no.	Saw blade design	Length (mm)	Teeth spacing (mm)	Min./max teeth spacing	Applications	71132... ID no.	
T 118 G	2 608 631 012	Corrugated Milled	92	0.7	-	Sheet metals (0.5-1.5 mm)	205	O. R.
T 118 A	2 608 631 013	Corrugated Milled	92	-	1.1-1.5 mm	Sheet metals (1-3 mm)	215	O. R.
T 218 A	2 608 631 032	Corrugated Milled	92	-	1.1-1.5 mm	Sheet metals (1-3 mm) Specially for curved cuts	225	O. R.
T 318 A	2 608 631 319	Corrugated Milled	132	1.2	-	Sheet metals (1-3 mm) Pipes incl. aluminium (Ø < 65 mm) Profiles incl. aluminium (Ø < 65 mm)	235	O. R.
T 118 B	2 608 631 014	Corrugated Milled	92	-	1.9-2.3 mm	Sheet metals (2.5-6 mm)	247	O. R.
T 318 B	2 608 631 404	Corrugated Milled	132	2.0	-	Sheet metals (2.5-6 mm) Pipes incl. aluminium (Ø < 65 mm) Profiles incl. aluminium (Ø < 65 mm) Precise angle cutting	255	O. R.
T 123 X	2 608 638 473	Restricted Milled	74	-	1.2-2.6 mm	Sheet metals (1.5-10 mm) Pipes incl. aluminium (Ø < 30 mm) Profiles incl. aluminium (Ø < 30 mm)	265	O. R.

Model	BOSCH no.	Saw blade design	Length (mm)	Teeth spacing (mm)	Min./max teeth spacing	Applications	71132... ID no.	
T 127 D	2 608 631 017	Restricted Milled	100	3.0	-	Sheet metals (3-15 mm) Pipes (Ø < 30 mm) Profiles (Ø < 30 mm)	275	O. R.
T 101 A	2 608 631 010	Ground	100	2.0	-	Plexiglas (2-20 mm) Polycarbonate (2-20 mm)	295	O. R.
							Price / pack, €	

Prod. group 733

metabo® Mitre and chop saws

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For all blank cutting work, ideal for interior work, for sawing wood, coated panels and plastic materials.

Execution:

- Wear-free cast aluminium gear case
- Laser for exact display of the cutting line
- Pulling function for broad workpieces
- Bright LED light
- With depth stop for easily producing grooves
- Ident. No. 211:**
 - Fast and precise setting of common angles using snap-in points
 - with spindle lock
- Ident. No. 225:**
 - fast and precise setting of common angles using snap-in points
 - With spindle lock

Advantage:

- Also suitable for single-hand carrying
- Ident. No. 225:** Saw head tiltable to the left, with extra angle range for undercuts

scope of supply and services:

- Ident. No. 211:** Cemented carbide saw blade (40 teeth), 2 integrated table width extensions, cut-off stop, material clamp, tool for changing blades, cable wind-up, chip collection bag
- Ident. No. 225:** Cemented carbide saw blade (48 teeth), 2 integrated table width extensions, cut-off stop, material clamp, tool for changing blades, cable wind-up, chip collection bag

Technical Data:

- Max. cutting width at 90 degrees: 305 mm
- Max. cutting width at 45 degrees: 205 mm
- Cutting speed: 42 m/s
- Saw blade hole: 30 mm



Ident. No. 211



Ident. No. 225

Model	KGS 216 M	KGS 254 M
Length x width x height	760 x 475 x 340 mm	790 x 515 x 515 mm
Max. cutting depth at 90 degrees (mm)	65	90
Max. cutting depth at 45 degrees (mm)	36	47
Max. idle speed (U/min(rpm))	5000	4500
Rotation speed (U/min(rpm))	3750	3150
Power input (kW)	1500	1800
Power output (kW)	900	979
Saw blade Ø (mm)	216	254
Weight (kg)	13.5	16.3
71181...	Ident. No. 211	Ident. No. 225
	Unit price, €	O. R.

Prod. group 745

Makita® Plunge-cut saw SP6000J1

1300 watt

Application:

For sawing deep and precise cuts.

Execution:

- with constant electronics, soft start-up and overload protection
- Continuous electronic speed control
- Angle adjustment from -1° to +48° (undercut function)
- Angle quick adjustment for -1°; 22.5° and quick pre-selection of 45° or 48° as max. tilting angle
- With marking mode for splinter-free cutting

- with saw blade lock

Advantage:

- Does not tip off the guide rail even at greatest angles of inclination
- Cutting point stays at exactly the same position with all angle settings

scope of supply and services:

Carbide saw blade, assembly tool, MAKPAC size 4, guide rail



Model	SP6000J1
Power input (W)	1300
Min./max. idle speed	2000-5800 U/min(rpm)
Max. cutting depth at 0 degrees (mm)	56
Max. cutting depth at 45 degrees (mm)	40
Saw blade Ø (mm)	165
Saw blade hole (mm)	20
Weight (kg)	4.4
With soft start	Yes
With overload protection	Yes
With electronic feedback	Yes
71182...	Ident. No. 110
	Unit price, €
	O. R.

Prod. group 715

**Bandsaws**

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For cutting metals.

Execution:

- Small band saw for professional use
- Gear drive with long-life lubricants and automatic belt tensioning

- Safety switch

Ident. No. 010: Electronic speed regulator 20÷100 m/min. with torque control

Ident. No. 020: Electronic speed regulator 25÷138 m/min. with torque control

scope of supply and services:

Ident. No. 010: 1 saw band (1138 x 13 x 0.65 mm)

Ident. No. 020: 1 saw band (1440 x 13 x 0.65 mm)

Technical Data:

- Power input: 1800 W
- Saw band width: 13 mm
- Saw band thickness: 0.65 mm



Ident. No. 010



Ident. No. 020



Practical transportation

Model	W. Z. 100/R	W. Z. 150/R
Min./max. belt speed	20-100 m/min	25-138 m/min
Cutting capacity of round materials at 0 degrees (mm)	100	150
Cutting capacity of round materials at 45 degrees (mm)	55	75
Cutting capacity of square materials at 0 degrees (mm)	-	125
Cutting capacity of square materials at 45 degrees (mm)	-	50
Cutting capacity of flat materials at 0 degrees	100 x 105 mm	150 x 125 mm
Cutting capacity of flat materials at 45 degrees	55 x 60 mm	70 x 50 mm
Saw band length (mm)	1138	1440
Weight (kg)	20.0	35.0
71200...	Ident. No. 010 Unit price, € O. R.	Ident. No. 020 Unit price, € O. R.

Prod. group 703

Accessories for			71200 010	71200 020
51725... Bimetal band saw blade	Number of teeth per inch 6/10	Ident. No. Unit price, €	006 O. R.	026 O. R.
	Number of teeth per inch 8/12	Ident. No. Unit price, €	008 O. R.	028 O. R.
	Number of teeth per inch 10/14	Ident. No. Unit price, €	010 O. R.	030 O. R.

metabo® Hot air guns

voltage 230 V, 50 Hz, shockproof, suppressed

Application:

For removing paint, shaping, shrink-fitting and welding.

Execution:

- High-quality ceramic heater, powerful motor and optimal device cooling
- Ident. No. 011: Temperature adjusted with adjusting wheel
- Ident. No. 013:

- Efficient work owing to four pre-set, adaptable programs

- Suitable for temperature-sensitive materials due to precise control of air quantity and temperature

scope of supply and services:

Ident. No. 006-011: Broad jet nozzle (50 mm), reducing nozzle (20 mm), in plastic case

Ident. No. 013: Broad jet nozzle (50 mm), reflector nozzle, reducing nozzle (9 mm), in plastic case



Ident. No. 006



Ident. No. 013

Model	H 16-500	HE 20-600	HE 23-650 Control
Min./max. air current	240-450 l/min	150-500 l/min	150-500 l/min
Min./max. blower temperature	300 bis 500 °C	50 bis 600 °C	50 bis 650 °C
Power input (W)	1600	2000	2300
Weight (kg)	0.6	0.7	0.9
71172...	Ident. No. 006 Unit price, € O. R.	Ident. No. 011 Unit price, € O. R.	Ident. No. 013 Unit price, € O. R.

Prod. group 745

Pneumatic drills

Application:

Ident. No. 010–015: For drilling bore holes.

Ident. No. 110, 220: For drilling boreholes in poorly accessible places.

Ident. No. 210: For drilling boreholes, particularly for bodywork and industry.

Execution:

▪ **Ident. No. 010–015:**

- With toothed ring drill chuck
- With clockwise rotation

▪ **Ident. No. 010–015, 210:** Handle insulated against cold

▪ **Ident. No. 010–015, 210–220:** Exhaust air guidance through the handle

▪ **Ident. No. 110:** With sensitive valve control

▪ **Ident. No. 110–220:** With clockwise and anti-clockwise rotation

Advantage:

▪ **Ident. No. 210–220:** Suitable for continuous operation

scope of supply and services:

Ident. No. 010–110, 220: In box



Ident. No. 010
Ref. no. 012 and ref. no. 015 similar



Ident. No. 110



Ident. No. 210
Ideal for bodywork and industry



Ident. No. 220

Model			9030-1	9030-5	CP-879	-	-
BOSCH no.			-	-	-	0 607 160 501	0 607 160 504
Max. idle speed (U/min(rpm))			2600	1200	1800	2800	850
Power input (W)			375	373	370	320	320
Air consumption (l/min)			113	113	480	510	510
Min./max. drill chuck span width			1-10 mm	1-10 mm	1-10 mm	1-10 mm	1-10 mm
Connection thread			G 1/4 inch	G 1/4 inch	G 1/4 inch	NPT 1/4 inch	NPT 1/4 inch
Max. drilling Ø in steel (mm)			10	10	10	6	10
Inner hose Ø (mm)			10	10	10	10	10
Weight (kg)			1.25	1.36	1.00	0.62	0.70
HAZET	75032...	Ident. No.	210	220	-	-	-
		Unit price, €	O. R.	O. R.	-	-	-
CP	75032...	Ident. No.	-	-	110	-	-
		Unit price, €	-	-	O. R.	-	-
BOSCH	75032...	Ident. No.	-	-	-	010	015
		Unit price, €	-	-	-	O. R.	O. R.

BOSCH = Prod. group 728

HAZET = Prod. group 738

CP = Prod. group 752

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BOSCH Pneumatic ratcheting screwdriver 0 607 460 401

Tightening torque 1.5-10 Nm

Application:
For light screw-driving work.

Execution:

- With ratchet coupling
- With external torque adjustment
- Handle insulated against cold
- Exhaust air guidance through the handle

Advantage:

- Highly comfortable grip thanks to slender handle
- Adjustable without using tools

scope of supply and services:
In box



Pistol design

BOSCH no.	0 607 460 401
Power output (W)	320
Rotation speed (U/min(rpm))	750
Min./max. tightening torque	1.5-10.0 Nm
Air consumption (l/min)	510
Inner hose Ø (mm)	10
Tool holding device	1/4-inch hexagon socket
Connection thread	G 1/4 inch
Weight (kg)	0.9
75050...	Ident. No. 500
	Unit price, € O. R.

Prod. group 728

Pneumatic straight screwdrivers

All screwdrivers with clockwise and anti-clockwise rotation, tool holder: 1/4-inch hexagon socket

Application:
For light screw-driving work.

Execution:

- Air discharge to the rear
- **Ident. No. 020, 820:**
 - With shut-off clutch
 - With push start
 - With quick-change chuck
- **Ident. No. 600:**
 - With ratchet coupling
 - With external torque adjustment
- **Ident. No. 600-820:**
 - Handle insulated against cold

- With clockwise and anti-clockwise rotation

Advantage:

- **Ident. No. 020:** Low noise

scope of supply and services:

Ident. No. 020: With coupling spring 1x each green + black, key for setting torque, 1.5-m DL hose, 0.5-m exhaust air hose, in box

Ident. No. 600: With extra handle, G 1/4 hose nipple, in box

Ident. No. 820: With arresting hook, hanging bracket, G 1/4 hose nipple, additional handle, in box



Ident. No. 020



Ident. No. 600

Type	-	Straight screwdriver	Straight ratcheting screwdriver
Model	GAF 505	-	-
BOSCH no.	-	0 607 461 206	0 607 460 001
Power output (W)	-	400	380
Max. idle speed (U/min(rpm))	500	700	900
Min./max. tightening torque	0.3-4.0 Nm	5.5-15.0 Nm	1.5-10.0 Nm
Air consumption (l/min)	300	660	720
Tool holding device	1/4-inch hexagon socket	1/4-inch quick-action chuck	1/4-inch hexagon socket
Inner hose Ø (mm)	7	10	10
Connection thread	G 1/8 inch	G 1/4 inch	NPT 1/4 inch
Weight (kg)	0.63	1.30	1.00
BIAX 75050...	Ident. No. 020	-	-
	Unit price, € O. R.	-	-
BOSCH 75050...	Ident. No. -	820	600
	Unit price, €	O. R.	O. R.

BOSCH = Prod. group 728

BIAX DRUCKLUFT = Prod. group 748

Pneumatic ratchet screwdrivers

with clockwise and anti-clockwise rotation

Application:
For heavy screw-driving work in poorly accessible places.

Execution:

- With ratchet coupling

- **No. 75050 200-75053 420:** With clockwise and anti-clockwise rotation
- **No. 75050 980-75053 420:** Continuously variable torque adjustment
- **No. 75053:** Handle insulated against cold

Advantage:

- **No. 75053:** Reduced vibration for effortless work

scope of supply and services:
In box






No. 75050 200



No. 75053 420



No. 75050 980

Model	CP 7830 HQ	MR-2410 B	-	9020-2	9022-2
BOSCH no.	-	-	0 607 450 795	-	-
Max. idle speed (U/min(rpm))	190	135	160	170	160
Tool holding device	1/2-inch external square	1/2-inch external square	1/4-inch external square	1/4-inch external square	1/2-inch external square
Max. tightening torque (Nm)	122	78	70	35	70
Air consumption (l/min)	524	480	480	180	180
Connection thread	G 1/4 inch	G 1/4 inch	NPT 1/4 inch	G 1/4 inch	G 1/4 inch
Inner hose Ø (mm)	10	10	10	10	10
Screw-head height (mm)	45.0	50.0	42.5	30.0	45.0
Length (mm)	300	255	300	165	230
Weight (kg)	1.20	1.90	1.30	0.5	1.2
 75050...	Ident. No. Unit price, €	-	-	-	-
 75050...	Ident. No. Unit price, €	200 O. R.	-	-	-
BOSCH 75050...	Ident. No. Unit price, €	-	980 O. R.	-	-
 75053...	Ident. No. Unit price, €	-	-	410 O. R.	420 O. R.

75050 980 = Prod. group 728, 75053 410 = Prod. group 738, 75053 420 = Prod. group 738, 75050 196 = Prod. group 752, 75050 200 = Prod. group 752

Pneumatic impact screwdriver CP 721

Tightening torque 68 Nm

Application:

For heavy screw-driving work with soft screwing applications.

Execution:

- With built-in power regulator
- 4 power stages in clockwise rotation

- Impact mechanism engages gently and has very good durability
- With clockwise and anti-clockwise rotation
- Square drive 3/8 inch

scope of supply and services:

In box

Model	CP 721
Max. idle speed (U/min(rpm))	11000
Max. tightening torque (Nm)	650
Air consumption (l/min)	300
Length (mm)	71
Inner hose Ø (mm)	8.0
Connection thread	G 1/4 inch
Drive	3/8 inch
Hammer mechanism system	Rocking-Dog striking mechanism
Weight (kg)	1.20
75066...	Ident. No. Unit price, €
	007 O. R.

Prod. group 752

Pneumatic impact screwdriver, 1/2" drive square

for heavy-duty screwdriving tasks

Application:

For heavy screw-driving work.

Execution:

- With clockwise and anti-clockwise rotation
- Square drive 1/2 inch
- No. 75065:**
 - 1 power stage in anti-clockwise rotation
 - Handle insulated against cold
 - Exhaust air guidance through the handle

- No. 75065 010-75065 020, 75066 110-75066 310:** 3 power stages in clockwise rotation
- No. 75066 004:** Automatic full unscrewing torque in anticlockwise rotation
- No. 75066 110-75066 310:**
 - Rubberised handle insulated against cold
 - High rotation speeds for quick and economical working
 - Automatic full unscrewing torque can be achieved in anticlockwise rotation

Advantage:

- No. 75066 110-75066 310:** Reduced vibration thanks to finely balanced impact mechanism for effortless work

scope of supply and services:

In box

Technical Data:

- Drive: 1/2 inch






No. 75066 004
RR-160 H



No. 75066 110



No. 75066 310

Model		9012 SPC	9012 MG	-	-	RR-160 H
BOSCH no.		-	-	0 607 450 628	0 607 450 615	-
Max. idle speed (U/min(rpm))		7000	7500	7000	7000	8000
Max. tightening torque (Nm)		750	1590	310	350	580
Air consumption (l/min)		127	133	510	540	252
Length (mm)		200	208	190	200	195
Inner hose Ø (mm)		10.0	10.0	10.0	10.0	9.5
Connection thread		G 1/4 inch	G 1/4 inch	NPT 1/4 inch	NPT 1/4 inch	3/8 inch
Hammer mechanism system		Pin impact mechanism	High-performance twin hammer mechanism	Pin impact mechanism	Twin hammer mechanism	Dynapact hammer mechanism
Weight (kg)		2.6	2.5	2.30	2.40	2.30
 75065...	Ident. No.	020	010	-	-	-
	Unit price, €	O. R.	O. R.	-	-	-
 75066...	Ident. No.	-	-	110	310	-
	Unit price, €	-	-	O. R.	O. R.	-
 75066...	Ident. No.	-	-	-	-	004
	Unit price, €	-	-	-	-	O. R.

BOSCH = Prod. group 728
HAZET = Prod. group 738
YOKOTA = Prod. group 752



Pneumatic impact screwdriver 9013 SPC

Tightening torque 1400 Nm

Application:

For heavy screw-driving work.

- With clockwise and anti-clockwise rotation
- Square drive 3/4 inch

Execution:

- High-performance pin impact mechanism
- 3 power stages in clockwise rotation
- 1 power stage in anti-clockwise rotation
- Handle insulated against cold
- Exhaust air guidance through the handle

Advantage:

- Reduced vibration for effortless work

scope of supply and services:

In box



9013 SPC

Model		9013 SPC
Max. idle speed (U/min(rpm))		3800
Max. tightening torque (Nm)		1800
Air consumption (l/min)		176
Length (mm)		200
Inner hose Ø (mm)		10.0
Connection thread		G 3/8 inch
Drive		3/4 inch
Hammer mechanism system		High-performance pin impact mechanism
Weight (kg)		5.4
75065...	Ident. No.	040
	Unit price, €	O. R.

Prod. group 738



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Pneumatic impact screwdriver

Application:

Ident. No. 031: For heavy screw-driving work, particularly for suspension, automotive and bus maintenance, agricultural implements and construction implements.

Ident. No. 410: For heavy screw-driving work.

Execution:

- With clockwise and anti-clockwise rotation
- Square drive 3/4 inch
- Ident. No. 031:** Automatic full unscrewing torque in anticlockwise rotation

Ident. No. 410:

- Rubberised handle insulated against cold
- High rotation speeds for quick and economical working
- 3 power stages in clockwise rotation
- Automatic full unscrewing torque can be achieved in anticlockwise rotation

scope of supply and services:

In box



Ident. No. 031
CP 772 H



Ident. No. 410

Model	CP 772 H	-
BOSCH no.	-	0 607 450 616
Max. idle speed (U/min(rpm))	4200	4500
Max. tightening torque (Nm)	950	950
Air consumption (l/min)	678	720
Length (mm)	244	220
Inner hose Ø (mm)	10.0	13.0
Connection thread	3/8 inch	NPT 3/8 inch
Drive	3/4 inch	3/4 inch
Hammer mechanism system	Pin impact mechanism	Twin hammer mechanism
Weight (kg)	4.70	5.00
75066...	Ident. No. 031 Unit price, €	-
BOSCH 75066...	Ident. No. 410 Unit price, €	-

BOSCH = Prod. group 728

CP = Prod. group 752

BOSCH Pneumatic chisel hammer set 0 607 560 501

Application:

Set for cutting sheet metal, plastering, separating, striking and chipping, in particular for body work.

Execution:

- Suitable for round-shaft and hexagonal chisels

- With adjustable striking force

scope of supply and services:

Includes 1 each: pipe cutting chisel, sheet metal cutting chisel and flat chisel (Bosch no. 160 939 098/300 and no. 2 609 390 015), in box



Type	In a set
BOSCH no.	0 607 560 501
Max. working range (mm)	67
Max. impact rate (U/min(rpm))	3600
Air consumption (l/min)	510
Tool holding device	Hexagon shank 10 mm/round shank 10.2 mm
Connection thread	NPT 1/4 inch
Inner hose Ø (mm)	10
Weight (kg)	0.98
75084...	Ident. No. 030 Unit price, €

Prod. group 728

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BOSCH Pneumatic needle scaler 0 607 560 502

Impact rate 3900/min

Application:

For cleaning work, particularly for removing rust and paint, and for cleaning concrete formwork and boilers.

- With pistol grip

- Needles adapt to elevations and depressions of the material

Execution:

- With hardened steel needles

scope of supply and services:

With 1 set of 19 needles, in box



BOSCH no.	0 607 560 502
Max. impact rate (U/min(rpm))	3600
Air consumption (l/min)	510
Length (mm)	300
Number of needles (PCS)	19
Ø of needle (mm)	3
Connection thread	NPT 1/4 inch
Inner hose Ø (mm)	10
Weight (kg)	1.9
75091...	Ident. No. 010
	Unit price, € O. R.

Prod. group 728

Accessories for			75091 010
75091...	Replacement needle set	Ident. No.	210
		Set price, €	O. R.

Pneumatic angle grinders and vertical grinders

Application:

Ident. No. 041-056: For grinding work particularly in bodywork and in mechanics' workshops.

Ident. No. 116-125: For grinding work in poorly accessible places.

- **Ident. No. 116-125:** With collet chuck system for holding a wide variety of tools

- **Ident. No. 125:** With extended neck and small angle head

Execution:

- Air discharge to the rear

- **Ident. No. 041-056:**

- Controlled rotational speed for constant speeds
- With dead-man and locking switch
- Handle insulated against cold
- With key for changing tools

Advantage:

- **Ident. No. 041-056:** Highly comfortable grip thanks to slender handle

scope of supply and services:

With key for changing tools, models BIAx WRH/WRD with collet chuck according to table, in box



Ident. No. 116
Model WRH 6-20/3 Z



Ident. No. 125
Model WRD 6-20/2 ZL 90

Model	-	-	WRH 6-20/3 Z	WRD 6-20/2 ZL 90
BOSCH no.	0 607 352 114	0 607 352 113	-	-
Max. idle speed (U/min(rpm))	7000	12000	20000	20000
Valve design	-	-	Lever valve	Rotary valve
Power input (W)	550	550	300	300
Air consumption (l/min)	15.5	9.5	500	500
Inner hose Ø (mm)	10	10	7	7
Screw-head height (mm)	-	-	70	45
Thread dimension of spindle	M14	M14	-	-
Length (mm)	-	-	200	330
Washer Ø (mm)	125	125	75	75
Connection thread	NPT 1/4 inch	NPT 1/4 inch	G 1/8 inch	G 1/8 inch
Max. clamping Ø (mm)	-	-	6	6
Weight (kg)	1.4	1.4	0.77	1.00
BOSCH 75042...	Ident. No. 041	Ident. No. 056	-	-
	Unit price, € O. R.	Unit price, € O. R.		
BIAx 75042...	Ident. No. 116	Ident. No. 125	O. R.	O. R.
	Unit price, € O. R.	Unit price, € O. R.		

BOSCH = Prod. group 728

BIAx DRUCKLUFT = Prod. group 748

Accessories for			75042 116	75042 125
75036...	Spare collet chuck ZG 4/3	Ident. No.	600	600
		Unit price, €	O. R.	O. R.
75036...	Spare collet chuck ZG 4/6	Ident. No.	610	610
		Unit price, €	O. R.	O. R.
75048...	Hose unit 78 N 3665	Ident. No.	780	780
		Unit price, €	O. R.	O. R.



Pneumatic straight grinders with turning valve

Application:

Ident. No. 015-035, 065: For fine finishing, smoothing and deburring.

Ident. No. 045: For fine finishing, smoothing and deburring, for powerful working.

Execution:

- Environmentally friendly owing to central air discharge
- Air discharge to the rear
- **Ident. No. 015-035:** With complete hose unit and silencer
- **Ident. No. 045-065:** Air connection thread G 1/8 inch

Advantage:

- **Ident. No. 015-035:** Handy ergonomics for effortless grinding

scope of supply and services:

With collet chuck according to table, 2 keys for changing tools, straight grinder with complete hose unit and silencer, in box



Ident. No. 015
Model SRD 3-85/2



Ident. No. 035
Model SRD 3-55/2



Ident. No. 045-065
Model SRD 6-45/2

Model	SRD 3-85/2	SRD 3-55/2	SRD 6-45/2	SRD 8-30/2
Valve design	Rotary valve	Rotary valve	Rotary valve	Rotary valve
Ø of housing (mm)	19	15	32	31
Max. idle speed (U/min(rpm))	85000	55000	45000	30000
Power input (W)	80	60	260	240
Air consumption (l/min)	170	170	380	450
Length (mm)	170	150	196	189
Inner hose Ø (mm)	4.5	4.5	7.0	7.0
Max. clamping Ø (mm)	3	3	6	6
Suitable for max. sanding block Ø (mm)	6	8	10	16
Max. HM rotating milling cutter Ø (mm)	4	6	8	10
Weight (kg)	0.13	0.09	0.31	0.37
75036...	015	035	045	065
Ident. No.	O. R.	O. R.	O. R.	O. R.
Unit price, €				

Prod. group 748

Accessories for			75036 015	75036 035	75036 045	75036 065
75036...	Spare collet chuck ZG 5/3	Ident. No. Unit price, €	630 O. R.	630 O. R.	-	-
75036...	Spare collet chuck ZG 4/3	Ident. No. Unit price, €	-	-	600 O. R.	-
75036...	Spare collet chuck ZG 4/6	Ident. No. Unit price, €	-	-	610 O. R.	-
75048...	Hose unit 77 N 3665	Ident. No. Unit price, €	-	-	770 O. R.	770 O. R.
75036...	Spare collet chuck ZG 7/3	Ident. No. Unit price, €	-	-	-	640 O. R.
75036...	Spare collet chuck ZG 7/6	Ident. No. Unit price, €	-	-	-	660 O. R.
75036...	Spare collet chuck ZG 7/8	Ident. No. Unit price, €	-	-	-	680 (O. R.)



Pneumatic straight grinders with lever valve

Application:

Ident. No. 025, 075: For fine finishing, smoothing and deburring.

Ident. No. 055: For fine finishing, smoothing and deburring, for powerful working.

Ident. No. 095: For fine finishing, smoothing, deburring and polishing.

Execution:

- Environmentally friendly owing to central air discharge
- Air discharge to the rear
- **Ident. No. 025:**
 - With high speed for a clean grinding pattern
 - With complete hose unit and silencer

- **Ident. No. 055-095:** Air connection thread G 1/8 inch

Advantage:

- **Ident. No. 025:** Handy ergonomics for effortless grinding

scope of supply and services:

With collet chuck according to table, 2 keys for changing tools, in box



Ident. No. 025
Model SRH 3-85/2



Ident. No. 055-075
Models SRH 6-45/2, SRH 8-30/2



Ident. No. 095
Model SRH 8-20/2

Model		SRH 3-85/2	SRH 6-45/2	SRH 8-30/2	SRH 8-20/2
Valve design		Lever valve	Lever valve	Lever valve	Lever valve
Ø of housing (mm)		19	32	31	41
Max. idle speed (U/min(rpm))		85000	55000	30000	20000
Power input (W)		80	260	240	300
Air consumption (l/min)		170	380	450	500
Length (mm)		170	196	189	191
Inner hose Ø (mm)		4.5	7.0	7.0	7.0
Max. clamping Ø (mm)		3	6	6	6
Suitable for max. sanding block Ø (mm)		6	10	16	24
Max. HM rotating milling cutter Ø (mm)		4	8	10	12
Weight (kg)		0.17	0.36	0.41	0.62
75036...	Ident. No.	025	055	075	095
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 748

Accessories for			75036 025	75036 055	75036 075	75036 095
75036...	Spare collet chuck ZG	Ident. No.	630	-	-	-
5/3		Unit price, €	O. R.	-	-	-
75036...	Spare collet chuck ZG	Ident. No.	-	600	-	-
4/3		Unit price, €	-	O. R.	-	-
75036...	Spare collet chuck ZG	Ident. No.	-	610	-	-
4/6		Unit price, €	-	O. R.	-	-
75048...	Hose unit 77 N 3665	Ident. No.	-	770	770	-
		Unit price, €	-	O. R.	O. R.	-
75036...	Spare collet chuck ZG	Ident. No.	-	-	640	640
7/3		Unit price, €	-	-	O. R.	O. R.
75036...	Spare collet chuck ZG	Ident. No.	-	-	660	660
7/6		Unit price, €	-	-	O. R.	O. R.
75036...	Spare collet chuck ZG	Ident. No.	-	-	680	680
7/8		Unit price, €	-	-	(O. R.)	(O. R.)
75048...	Hose unit 78 N 3665	Ident. No.	-	-	-	780
		Unit price, €	-	-	-	O. R.



Pneumatic straight grinders

speed regulated, with lever valve

Application:

For milling, roughing and rough machining.

- With energy-saving motor technology
- Air connection thread G 1/8 inch

Execution:

- With double bearing of the drive spindle for particularly quiet running during milling work
- Controlled speed, for constant speeds and low air consumption when idling

scope of supply and services:

With 6-mm collet chuck and key for changing tools, in box



Ident. No. 240
Model SARH 830



Ident. No. 280
Model SARH 820

Model		SARH 830	SARH 820
Valve design		Lever valve	Lever valve
Ø of housing (mm)		32	38
Max. idle speed (U/min(rpm))		30000	20000
Power input (W)		260	300
Air consumption (l/min)		400	500
Length (mm)		185	220
Inner hose Ø (mm)		7.0	7.0
Max. clamping Ø (mm)		6	6
Suitable for max. sanding block Ø (mm)		16	24
Max. HM rotating milling cutter Ø (mm)		10	12
Weight (kg)		0.52	0.83
75036...	Ident. No.	240	280
	Unit price, €	O. R.	O. R.

Prod. group 748

Accessories for			75036 240	75036 280
75036...	Spare collet chuck ZG	Ident. No.	640	640
7/3		Unit price, €	O. R.	O. R.
75036...	Spare collet chuck ZG	Ident. No.	660	660
7/6		Unit price, €	O. R.	O. R.
75036...	Spare collet chuck ZG	Ident. No.	680	680
7/8		Unit price, €	(O. R.)	(O. R.)
75048...	Hose unit 5 N 3665	Ident. No.	050	050
		Unit price, €	O. R.	O. R.

Pneumatic straight grinders

Application:

No. 75037 100: For fine grinding work, particularly in metalworking crafts and bodywork construction.

No. 75037 300: For precision grinding work, perfectly suitable for roughing and rough machining.

No. 75038: For grinding, buffing, polishing and deburring.

No. 75039: For grinding and deburring, particularly in metal work, toolmaking, form construction and bodywork construction.

Execution:

No. 75037:

- Handle insulated against cold
- Controlled rotational speed for constant speeds
- Air discharge to the rear
- With locking switch

No. 75038:

- Speed regulation with adjusting wheel
- Max. operating pressure: 6.3 bar

No. 75038 210:

- Straight version
- Sound-pressure level: 91 db(A)

No. 75038 220:

- Angled version
- Sound-pressure level: 90 db(A)

No. 75039:

- One-hand operation

Advantage:

- **No. 75037:** Slender handle for highly comfortable grip

scope of supply and services:

No. 75037-75038: With 6-mm collet chuck and key for changing tools, in box

Technical Data:

- Max. clamping diameter: 6 mm
- Connection thread: G 1/4 inch



No. 75037 300



No. 75038 210



No. 75038 220



No. 75039

Model	-	-	9032-1	9032-5	MG-7206B
BOSCH no.	0 607 260 100	0 607 252 103	-	-	-
Ø of housing (mm)	48	54	39	39	-
Min./max. idle speed	-	-	2000-25000 U/min	2000-22000 U/min	-
Max. idle speed (U/min(rpm))	21000	21000	25000	22000	23000
Power input (W)	290	550	164	160	380
Air consumption (l/min)	510	750	113	113	500
Length (mm)	200	320	158	160	-
Inner hose Ø (mm)	10.0	10.0	10.0	10.0	6.5
Suitable for max. sanding block Ø (mm)	40	40	6	6	25
Weight (kg)	0.58	1.10	0.63	0.77	0.56
BOSCH 75037...	Ident. No. 100 Unit price, € O. R.	Ident. No. 300 Unit price, € O. R.	-	-	-
HAZET 75038...	Ident. No. - Unit price, €	Ident. No. - Unit price, €	210 O. R.	220 O. R.	-
Yokota 75039...	Ident. No. - Unit price, €	Ident. No. - Unit price, €	-	-	010 O. R.

BOSCH = Prod. group 728

HAZET = Prod. group 738

YOKOTA = Prod. group 752



Compressed air turbine grinders

oil free

Application:

For grinding work on metallic materials.

Execution:

- Can be operated without oil
- **Ident. No. 005:** Exhaust air discharge to the front
- **Ident. No. 405:**

- Air discharge to the rear
- Controlled rotational speed for constant speeds
- With run-out brake

Advantage:

- With elastic spindle bearing for improved surface quality and lower wear on cutters
- **Ident. No. 005:**

- Low noise
- Low maintenance as no need to change blades

- **Ident. No. 405:** Maintenance-free owing to turbine drive

scope of supply and services:

With collet chuck 3 mm diameter, and complete hose unit, in box



Ident. No. 005



Ident. No. 405



Example application

Model		TVD 3-100/2	T 365/2
Valve design		Rotary valve	Gate valve
Ø of housing (mm)		32	23/38
Max. idle speed (U/min(rpm))		100000	65000
Air consumption (l/min)		180	180
Length (mm)		139.5	166
Inner hose Ø (mm)		4.5	4.0
Max. clamping Ø (mm)		3	3
Suitable for max. sanding block Ø (mm)		5	8
Max. HM rotating milling cutter Ø (mm)		3	6
Weight (kg)		0.25	0.22
75036...	Ident. No.	005	405
	Unit price, €	O. R.	O. R.

Prod. group 748

Accessories for			75036 005	75036 405
75036...	Spare collet chuck ZG	Ident. No.	630	630
5/3		Unit price, €	O. R.	O. R.

**Pneumatic hand belt sander 9033-4****300 watt****Application:**

For working on narrow surfaces.

Execution:

- Head can be adjusted through 360°
- With continuously variable speed regulation
- With automatic belt adjustment

- With practical locking for fast sanding belt replacement
- Belt speed 1188 m/min.

scope of supply and services:

With three sanding belts size 10 x 330 mm (grain size 80, 100, 120), in box



Max. idle speed (U/min(rpm))	18000
Air consumption (l/min)	240
Ø of housing (mm)	36
Connection thread	G 1/4 inch
Length (mm)	330
Inner hose Ø (mm)	9.5
Max. sanding belt width (mm)	10
Weight (kg)	1.11
75070...	Ident. No.
	Unit price, €
	010
	O. R.

Prod. group 738

**Pneumatic blow-out gun****Standard nozzle, air jacket nozzle, safety nozzle****Application:**

For cleaning workpieces, machine parts and the like.

Execution:

- Airflow can be regulated roughly by actuation lever
- Valve head made of oil-resistant special rubber
- Blast nozzle interchangeable
- Air connection G 1/4 inch
- Air jacket nozzle for eye protection with 8 laterally exiting nozzle bores

- Safety nozzle for noise reduction by approx. 25 dB
- 75175210 straight version

Advantage:

- With additional noise reduction by approx. 25 dB(A) for low-noise working

scope of supply and services:

In box

No. 75175 060-75175 200
Image with standard nozzleNo. 75175 210
Image: straight version

Image with air jacket nozzle



Image with safety nozzle

Max. working pressure (bar)	-	-	-	10	8
Connection thread	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch
Inner hose Ø (mm)	6	9	13	-	-
Nozzle size (mm)	1.5	1.5	1.5	1.5	2.0
Nozzle connection thread	M12 x 1.25	M12 x 1.25	M12 x 1.25	M12 x 1.25	M12 x 1.25
75175...	Hose nozzle	Nozzle design	Ident. No.	060	090
		With normal nozzle	Unit price, €	O. R.	O. R.
75175...	Plug-in nipple	With normal nozzle	Ident. No.	-	-
			Unit price, €	O. R.	O. R.
75176...	Hose nozzle	With air sheathed air nozzle	Ident. No.	060	090
			Unit price, €	O. R.	O. R.
75177...	Hose nozzle	With safety nozzle	Ident. No.	060	090
			Unit price, €	O. R.	O. R.

Prod. group 790

ATORN® Compressed air safety nozzle

For pneumatic blow-out guns

Application:

For noise reduction and for safe handling of compressed air.

- Conforms to BG regulation B3 for noise control
- Conforms to EC machine directive

Execution:

- Satisfies OSHA requirements

Technical Data:

- Nozzle connection thread: M12 x 1.25

	Type	Ident. No.	
75177...	Safety nozzle	Unit price, €	145 O. R.

Prod. group 790



ewo Low-noise, energy-saving nozzle for blow-out gun

Application:

For regulating the air quantity and reducing the pressure in connection with the blow-out gun.

- Controllable by rotating the operating shell in 7 click stops
- Characterized by a total of +/- 125°

Execution:

- Max. operating pressure: 10 bar
- Basic body made from aluminium, other parts POM
- Volume flow: 10 to 95 l/min at 6 bar

Advantage:

- Regulating the flow downwards prevents sharp and pointed chips or harmful fluids flying around uncontrollably, for safe working.

Nozzle connection thread	Ident. No.	
75178...	Unit price, €	M12 x 1.25 200 O. R.

Prod. group 758



Parking station

For blow-out and compressed air guns

Application:

For secure holding of blow-out and compressed air guns in standard operation.

Advantage:

- Lowers energy costs by minimising leaks in the compressed air network
- Increases operational safety with no hosing left lying around
- Saves working time and costs with quick, direct access to the gun

Execution:

- Installed using included angle bracket
- Can be installed anywhere

	Ident. No.	
75156...	Unit price, €	010 O. R.

Prod. group 758



ewo Pneumatic blow-out gun With hose nozzle or plug-in nipple

Application:

For cleaning workpieces, machine parts and the like.

- With continuously variable air flow regulation

Execution:

- Ref. nos. 006-013 with hose nozzle
- Ref. no. 050 with plug-in nipple
- Nozzles and extensions from aluminium series (no. 75177-75178) can be used
- With 30° offset extension, rotatable and dismantable

scope of supply and services:

In box

Technical Data:

- Connection thread: G 1/4 inch
- Nozzle size: 2.3 mm
- Nozzle connection thread: M12 x 1.25
- Air consumption: 120 l/min

Inner hose Ø (mm)		6	9	13	-
75174...	Hose nozzle	Ident. No. 006 Unit price, € O. R.	Ident. No. 009 Unit price, € O. R.	Ident. No. 013 Unit price, € O. R.	-
75174...	Plug-in nipple	Ident. No. - Unit price, €	Ident. No. - Unit price, €	Ident. No. - Unit price, €	050 O. R.

Prod. group 753



Pneumatic blow-out gun

With hose nozzle, for internal hose diameter 10 mm

Application:

For targeted and precise blowing out of workpieces and injection moulded parts.

Execution:

- With compressed air regulation via counter screw
- With multi-duct nozzle
- Nozzle made from steel, therefore no breakage of nozzle tip
- Noise level at 6 bar = 79 dB(A)

Advantage:

- Low noise

scope of supply and services:

In box

Technical Data:

- Max. working pressure: 10 bar
- Connection thread: G 1/4 inch
- Inner hose diameter: 6 mm
- Nozzle size: 65.0 mm



75179...	Ident. No. Unit price, €	200 O. R.
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Prod. group 753

Accessories for		75179 200
75179...	Compressed air nozzle	Ident. No. Unit price, €
		260 O. R.

**Compressed air and liquid blast guns (series 208)**

for cleaning with compressed air or non-explosive water-based liquids

Application:

For cleaning workpieces, machine parts and the like with compressed air or non-explosive water-based liquids.

Execution:

- Ident. No. 003-006:

- Nozzle made of brass
- With flow regulation
- Ident. No. 005-006: Satisfies OSHA and ArbStättV requirements

- Ident. No. 105: Consisting of blow gun, silencer, rubber nozzle (diameter 14 mm), protective shield

Advantage:

- Ergonomic handle piece for working comfortably
- Ident. No. 005-006: Noise-reduced

scope of supply and services:

Ident. No. 105: In box



Ident. No. 005



Magnetic holder

Model	With 90 mm permanently attached pipe	Removable 90 mm pipe	Star-Tip low-noise permanently attached pipe	Star-Tip low-noise removable pipe	Blow gun blister pack
Max. working pressure (bar)	16	16	16	16	16
Burst pressure (bar)	64	64	64	64	64
Connection thread	R 1/4 inch	R 1/4 inch	R 1/4 inch	R 1/4 inch	G 1/4 inch
Sound-pressure level (dB)	96	94	79	79	96
Min./max. temperature conditions	-20 bis +60 °C	-20 bis +60 °C	-20 bis +60 °C	-20 bis +60 °C	-20 bis +60 °C
75179...	Ident. No. Unit price, €	003 O. R.	004 O. R.	005 O. R.	006 O. R.
					105 O. R.

Prod. group 753

Accessories for		75179 003	75179 004	75179 005	75179 006	75179 105
75103...	Magnetic holder	Ident. No. Unit price, €	190 O. R.	190 O. R.	190 O. R.	190 O. R.

Compressed air and liquid blast guns MultiFLOW for cleaning jobs using water, coolant or compressed air

Application:

For cleaning work with compressed air, coolant or non-explosive water-based liquid.

Execution:

- Precisely adjustable flow rate regulation
- Satisfies OSHA requirements

- Planar or pointed jet with adjustable jet nozzle
- Ident. No. 010:**
 - Nickel-plated steel nipple
 - Conforms to European standard 7.6 (nominal diameter 7.6 mm, Euro profile)
 - Compatible with all standard pneumatic systems
 - Matching coupling, e.g. no. 75135 010-113
- Ident. No. 020:**

- Nickel-plated steel nipple (Gardena nipple)
- Especially suitable for liquids
- Ident. No. 030:**
 - Nickel-plated steel universal nipple
 - Female thread 1/4 inch

Advantage:

- With recoil dampening for comfortable working



Removes swarf reliably, even in places difficult to access

Efficient cleaning of machines using coolant

Type	Min./max. flow capacity	Min./max. air consumption	Max. working pressure (bar)	Burst pressure (bar)	Connection thread	Min./max. sound-pressure-level	Min./max. temperature conditions	75103... ID no.
320 nipple	5-25 l/min	200-1200 l/min	16	64	R 1/4 inch	79-101 dB	-20 bis +60 °C	010 O. R.
Liquid nipple	5-25 l/min	200-1200 l/min	16	64	R 1/4 inch	79-101 dB	-20 bis +60 °C	020 O. R.
Steel nipple 1/4 inch female thread	5-25 l/min	200-1200 l/min	16	64	R 1/4 inch	79-101 dB	-20 bis +60 °C	030 O. R.
								Unit price, €

Prod. group 753

Accessories for			75103 010	75103 020	75103 030
75103...	Magnetic holder	Ident. No. Unit price, €	190 O. R.	190 O. R.	190 O. R.

ewo Compressed air safety washing gun Multiclean With hose nozzle, for internal hose diameter 12.5 mm

Application:

For cleaning or washing machines and parts in machining areas, for higher pressures up to 40 bar with water or drilling fluid.

Execution:

- With lever and regulating wheel
- With nozzle
- With rubber handle
- Nickel-plated aluminium housing

Model	Multiclean
Min./max. flow capacity	4-13 l/min
Max. working pressure (bar)	40
Connection thread	G 1/2 inch
Nozzle size (mm)	2
Min./max. temperature conditions	+5 bis +90 °C
75202...	Ident. No. Unit price, €
	010 O. R.

Prod. group 753

Accessories for			75202 010
75202...	Replacement nozzle for washing gun	Ident. No. Unit price, €	100 O. R.
	Multiclean 2 mm	Ident. No. Unit price, €	110 O. R.
	Multiclean 4 mm	Ident. No. Unit price, €	110 O. R.



ATORN® Compressed air spray gun Nozzle diameter 3 mm

Application:

For spraying low-viscosity media such as oils.

Execution:

- With plastic cup

- Matt transparent
- Jet adjustable with nozzle
- With pivoting nozzle

Max. working pressure (bar)	6
Nozzle size (mm)	3
75201...	Ident. No. Unit price, €
	010 O. R.

Prod. group 790

Accessories for			75201 010
75201...	Spare cup with lid	Ident. No. Unit price, €	100 O. R.



ORION® Cleaning nozzles for compressed air

suitable for suction and blowing operations

Application:

For cleaning workpieces, machine parts incl. by blowing away or suctioning chips or slurry, and for drying and cooling machines and tools.

Execution:

- **Ident. No. 210–220:** With easy changing of functions from suction to blowing work by reversing the internal nozzle

- **Ident. No. 230:** With special version for cleaning blind holes by simultaneously blowing and suctioning



Ident. No. 210



Ident. No. 220



Ident. No. 230

Model		1	2	3
Type		With female thread	With female thread	With female thread
Connection thread		G 1/4 inch	G 1/4 inch	G 1/4 inch
75154...	Ident. No.	210	220	230
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 753



Compressed air tyre inflation gauge

0-10 bar, can be calibrated; EU type approval

Application:

For filling, bleeding and testing tyre pressure in workshops and filling stations.

Execution:

- Manometer with plastic protective cap for protection against shock and impacts
- Manometer diameter: 80 mm
- With safety against overpressure

- Can be loaded up to final display value
- With plug-in nipple
- Scale interval in bar and psi
- With EU type test approval
- Can be calibrated



Ident. No. 030



Ident. No. 040



Ident. No. 050

Type		With automotive valve lever connector	With double-sided filling station connector	With clip connector
Min./max. pressure measuring range		0-12 bar	0-12 bar	0-12 bar
75180...	Ident. No.	030	040	050
	Unit price, €	O. R.	O. R.	O. R.

Prod. group 753



Couplings

automatic shut-off, made of brass, e.g. for handheld pneumatic machines, DN 7.2

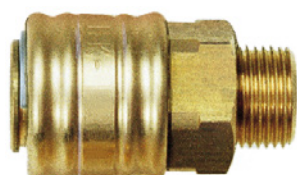
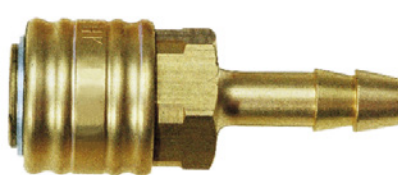
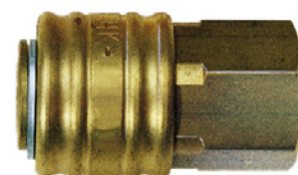
Application:

For connecting hoses to compressed air tools and compressed air machines.

Execution:

- DN 7.2
- Automatic shut off
- Immediate seal, therefore no loss of pressure
- Not necessary to push back sleeve when coupling

- Seal oil-, gasoline- and heat-resistant
- Rollers made from stainless steel
- Perbunan (NBR) seal
- **Ident. No. 010–030, 110–125:** Spring made of V2A steel

Ident. No. 010–030
Couplings with male threadIdent. No. 060–100
Couplings with hose connectionIdent. No. 110–125
Couplings with female thread

Version	With male thread	With male thread	With male thread	With female thread	With female thread	With female thread	With hose connection	With hose connection
Connection thread	G 1/4 inch	G 3/8 inch	G 1/2 inch	G 1/4 inch	G 3/8 inch	G 1/2 inch	-	-
Width across flats	21 mm	21 mm	21 mm	21 mm	21 mm	24 mm	21 mm	21 mm
Suitable for hose internal Ø (mm)	-	-	-	-	-	-	6	8
75141...	Ident. No.	010	020	030	110	120	125	060
	Unit price, €	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.	O. R.

Version	With hose connection	With hose connection	With hose connection
Connection thread	-	-	-
Width across flats	21 mm	21 mm	21 mm
Suitable for hose internal Ø (mm)	9	10	13
75141...	Ident. No. Unit price, €	090 O. R.	095 O. R.

Prod. group 790

ATORN® Compressed air plug-in nipple With G 1/4 inch male thread

Application:

For connecting the hose, the tool or the machine to the compressed air coupling.

Execution:

- Fits pneumatic couplings no. 75141
- Made of brass

Type	With male thread	With male thread	With male thread
Length (mm)	33	33	35
Connection thread	G 1/4 inch	G 3/8 inch	G 1/2 inch
Thread length (mm)	8	9	10
Width across flats	17 mm	19 mm	24 mm
75147...	Ident. No. Unit price, €	140 O. R.	150 O. R.

Prod. group 790

ATORN® Compressed air plug-in nipple With G 1/2 inch female thread

Application:

For connecting the hose, the tool or the machine to the compressed air coupling.

Execution:

- Fits pneumatic couplings no. 75141
- Made of brass

Type	With female thread	With female thread	With female thread
Length (mm)	33	33	33
Connection thread	G 1/4 inch	G 3/8 inch	G 1/2 inch
Thread length (mm)	10	10	10
Width across flats	17 mm	19 mm	24 mm
75149...	Ident. No. Unit price, €	170 O. R.	180 O. R.

Prod. group 790

ATORN® Pneumatic plug-in connector For hose internal diameter 9 mm

Application:

For connecting the hose, the tool or the machine to the compressed air coupling.

Execution:

- Fits pneumatic couplings no. 75141
- Made of brass

Suitable for hose internal Ø (mm)	6.0	8.0	9.0	10.0	13.0
Length (mm)	45	45	45	45	45
75145...	Ident. No. Unit price, €	060 O. R.	080 O. R.	090 O. R.	100 O. R.

Prod. group 790

CEJN Compressed air plug-in nipple With R 1/2 inch male thread

Application:

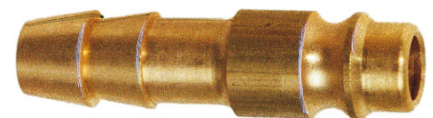
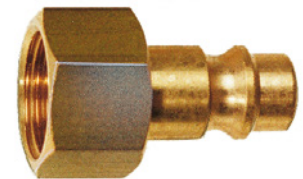
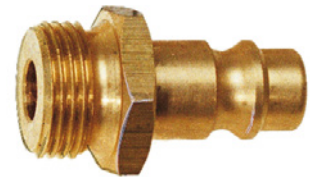
For connecting the hose, the tool or the machine to the compressed air coupling.

Execution:

- Fits pneumatic safety coupling no. 75135
- Made of steel, galvanised

Type	With male thread	With male thread	With male thread
Connection thread	R 1/4 inch	R 3/8 inch	R 1/2 inch
Thread length (mm)	11	11	15
Width across flats	14 mm	17 mm	22 mm
75136...	Ident. No. Unit price, €	010 O. R.	020 O. R.

Prod. group 758





Air diffusers with 2 or 3 exits

Application:

For distributing compressed air and connecting multiple hoses to one point.

Execution:

- Connections can be cut off individually

Number of connections (PCS)		2	2	3	3
Connection thread		G 3/8 inch	G 1/2 inch	G 3/8 inch	G 1/2 inch
75150...	Ident. No.	010	015	020	025
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 758



Ident. No. 010-015



Ident. No. 020-025

PTFE thread tape

from 100 % PTFE, for sealing of threads (DVGW and BMA approved)

Application:

For sealing metal and plastic threads for gas and water lines.

Execution:

- Made from 100% PTFE

- Complies with DIN EN 751-3 (domestic construction)
- Does not contain any oil or grease
- Suitable for gas lines up to 5 bar
- Suitable for drinking water lines up to 16 bar
- Suitable for hot water lines up to 7 bar

Length of tape (m)		12
Thickness of tape (mm)		0.1
Width of band (mm)		12
Min./max. temperature conditions		-20 bis +125 °C
75100...	Ident. No.	010
	Unit price, €	O. R.

Prod. group 752



BILZ Compressed air safety coupling HSK 2

Compatible with BILZ HERMETIKUS compressed air system

Application:

For connecting hoses to compressed air tools and compressed air machines.

Execution:

- Fits pneumatic hose nozzles no. 75115 -75121
- Suitable for permanently installed compressed air lines

- The cut-off valve is automatically opened when coupling, and when uncoupling, the flow is automatically cut off

Advantage:

- Prevention of whiplash effect when uncoupling, for increased safety at the workplace
- Low pressure losses due to favourably shaped valve in terms of airflow



Model	HSK 0	HSK 0	HSK 1	HSK 1	HSK 2
Connection thread	G 1/4 inch	G 3/8 inch	G 3/8 inch	G 1/2 inch	G 1/2 inch
Opening (mm)	4.0	4.0	7.5	7.5	10.0
Outer Ø (mm)	28	28	36	36	44
Width across flats	24 mm	24 mm	30 mm	30 mm	36 mm
Thread length (mm)	8	10	10	12	12
Length (mm)	61	63	72	74	82
75105...	Ident. No.	010	020	110	120
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 754

BILZ Pneumatic hose nozzle

made of steel, hardened, gunmetal finish

Application:

For connecting the hose, the tool or the machine to the compressed air coupling.

Execution:

- Fits BILZ HERMETIKUS couplings no. 75105
- Hardened
- Burnished



Model		K-T 0	K-T 0	K-T 1	K-T 1	K-T 1	K-T 2	K-T 2
Suitable for hose internal Ø (mm)		6	10	6	10	13	13	16
Clearance hole (mm)		4.0	6.0	7.5	7.5	7.5	10.0	10.0
Length (mm)		60.0	60.0	70.0	70.0	70.0	81.0	81.0
75115...	Ident. No. Unit price, €	010 O. R.	020 O. R.	110 O. R.	120 O. R.	130 O. R.	210 O. R.	220 O. R.

Prod. group 754

metabo® Compressed air hose reels in rotating, manual and automatic design

Application:

For space-saving storage of pneumatic hoses and rolling up correctly.

Execution:

- **Ident. No. 210:**
 - With rotary joint
 - Can be rotated 360°
- **Ident. No. 210, 231-240:** Highly flexible PU hose
- **Ident. No. 220:**
 - With 20-m pressure hose with fabric inlay

- With ergonomic handle for carrying comfort
- **Ident. No. 220, 240:** With plug-in nipple
- **Ident. No. 231:** Plastic housing
- **Ident. No. 231-240:**
 - With wall and ceiling mounting bracket
 - Locking and rolling up simply by pulling
- **Ident. No. 240:**
 - Metal housing
 - With quick-release coupling



Ident. No. 210



Ident. No. 220



Ident. No. 231



Ident. No. 240

Model		ST 200 pivot-mounted	SA 100 manual	SA 250 automatic	SA 300 automatic
Hose length (m)		30	20	8	15
Inner hose Ø (mm)		9	9	8	8
Outer Ø of hose (mm)		12.5	15.0	12.0	12.0
Max. working pressure (bar)		12	15	15	12
75014...	Ident. No. Unit price, €	210 O. R.	220 O. R.	231 O. R.	240 O. R.

Prod. group 745

Compressed air hose winder automatic version; closed or open hose winder

Application:

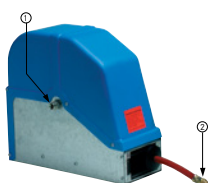
For space-saving storage of pneumatic hoses and rolling up correctly.

Execution:

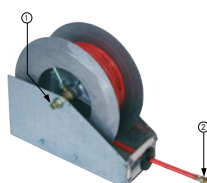
- With possibility of locking on each revolution to release tension

- Release of lock by briefly pulling on the hose
- Complete roll-up of the hose by spring tension
- With nylon-reinforced PVC hose for operating pressure up to 20 bar
- Automatic version

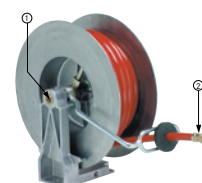
- **Ident. No. 045:** Stand made from galvanised sheet steel
- **Ident. No. 100-115:**
 - For wall, floor and ceiling mounting
 - Drum diameter 300 mm



Ident. No. 020-040, 070
Model 4 closed version (G)



Ident. No. 045
Model 4 open version (O) stands made of galvanised
steel sheet



Ident. No. 100-115
Model 3 open version (O) for wall, floor and ceiling
mounting



Ident. No. 100-115



Type	Closed	Closed	Closed	Open	Open	Open	Open
Model	40808	41210	42008	30810	31208	31210	42008
Hose length (m)	8	12	20	8	12	12	20
Inner hose Ø (mm)	8	10	8	10	8	10	8
Width x height	140 x 270 mm	140 x 370 mm	140 x 370 mm	155 x 325 mm	155 x 325 mm	155 x 325 mm	140 x 360 mm
Housing connection thread	3/8-inch male thread	3/8-inch male thread	3/8-inch male thread	3/8-inch female thread	3/8-inch female thread	3/8-inch female thread	3/8-inch male thread
Hose connection thread	1/4 inch	3/8 inch	1/4 inch	3/8 inch	1/4 inch	3/8 inch	1/4 inch
Max. working pressure (bar)	15	20	15	20	20	20	15
75015...	Ident. No. Unit price, €	020 O. R.	070 O. R.	040 O. R.	105 O. R.	100 O. R.	115 O. R.
							045 O. R.

Prod. group 750

Accessories for		75015 020	75015 040	75015 045	75015 070	75015 100	75015 105
75015...	W-plate For model 4	Ident. No. Unit price, €	400 O. R.	400 O. R.	400 O. R.	-	-
75015...	W-plate For model 3	Ident. No. Unit price, €	-	-	-	500 O. R.	500 O. R.

Accessories for		75015 115
75015...	W-plate For model 4	Ident. No. Unit price, €
75015...	W-plate For model 3	Ident. No. Unit price, €

metabo® Recoil hoses

Made from PA or PU (polyurethane)

Application:

For connection to compressed-air tools and compressed-air machines.

Execution:

- For a clearly organised workplace
- For reducing the risk of accidents

- Ident. No. 002-004:** With brass quick-action coupling and plug-in nipple
- Ident. No. 110-140:**
 - With rotating brass connection parts
 - With straight input and output piece (10 and 50 cm)



Hose length (m)	5.0	7.5	5.0	5.0	10.0	10.0
Inner hose Ø (mm)	8.0	8.0	6.5	8.0	6.5	8.0
Connection thread	-	-	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch
Max. working pressure (bar)	8	8	10	10	10	10
75051...	Ident. No. Unit price, €	002 O. R.	004 O. R.	110 O. R.	120 O. R.	130 O. R.
						140 O. R.

Prod. group 758

prevost Pneumatic spiral hose

made of polyamide

Application:

For connection to compressed-air tools and compressed-air machines.

Execution:

- With special fitting connections at both ends

- Suitable for water and air
- Max. pressure: 10 bar
- Max. temperature: 90°C
- For a clearly organised workplace
- For reducing the risk of accidents



Hose length (m)	2.5	2.5	5.0	5.0	10.0	10.0
Outer Ø of hose (mm)	8	10	8	10	8	10
Inner hose Ø (mm)	6.0	8.0	6.0	8.0	6.0	8.0
Connection thread	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch
Max. working pressure (bar)	10	10	10	10	10	10
75052...	Ident. No. Unit price, €	010 O. R.	025 O. R.	030 O. R.	045 O. R.	050 O. R.
						065 O. R.

Prod. group 758

prevost Pneumatic spiral hose

made of polyurethane

Application:

For connection to compressed-air tools and compressed-air machines.

Execution:

- With one fixed and one rotating screwed joint with ball bearing, can also be rotated with slight pressure

- Connections pre-coated with Teflon, therefore scratch-resistant
- Max. pressure: 8 bar
- Max. temperature: 70°C

Advantage:

- Extremely flexible for better handling



Hose length (m)	2.0	4.0	4.0	6.0
Outer Ø of hose (mm)	8	8	10	10
Inner hose Ø (mm)	5.0	5.0	6.5	6.5
Connection thread	G 1/4 inch	G 1/4 inch	G 1/4 inch	G 1/4 inch
Max. working pressure (bar)	10	10	10	10
75054...	Ident. No. Unit price, €	015 O. R.	025 O. R.	035 O. R.

Prod. group 758



Pneumatic spiral hose

made of polyurethane with steel coupling and nipple, fully assembled

Application:

For connection to compressed-air tools and compressed-air machines.

Execution:

- With steel coupling and nipple
- With ends and rotary joint axially offset on both sides

- Max. pressure: 10 bar

Advantage:

- Spark-resistant for working in a welding environment
- Immediately usable as coupling and nipple (DN 7.2) already installed



Hose length (m)	2.0	4.0	6.0	4.0	6.0
Outer Ø of hose (mm)	10	10	10	12	12
Inner hose Ø (mm)	6.5	6.5	6.5	8.0	8.0
Max. working pressure (bar)	10	10	10	10	10
75055...	Ident. No. Unit price, €	010 O. R.	020 O. R.	030 O. R.	040 O. R.

Prod. group 758



Compressed air hoses

in various designs; for compressed air and water

Application:

For transporting compressed air and water.

Execution:

- Cadmium- and silicone-free
- Ident. No. 305-325:**
 - For a broad spectrum of applications
 - Partly oil-, gasoline- and alkali-resistant
 - Abrasion-proof, weatherproof and UV-resistant
 - Unlimited storage life
- Ident. No. 350-360:**
 - Made from high-quality polyester fibres in soft technology

- 3-layer
- Oil- and petrol-repellent
- High durability, pressure and UV resistance

Advantage:

- Ident. No. 350-360:** Low weight and very flexible for better handling

Technical Data:

- Max. working pressure: 15 bar
- Burst pressure: 60 bar
- Hose length: 50 m



Ident. No. 305-325



Ident. No. 350-360

Inner hose Ø (mm)	6.0	8.0	9.0	10.0	13.0	6.3	9.0	12.7
Outer Ø of hose (mm)	12.0	14.0	15.0	16.0	20.0	11.0	14.5	19.0
Cladding (mm)	3.00	3.00	3.00	3.00	3.50	2.35	2.75	3.15
Min./max. temperature conditions	-15 bis +60 °C	-15 bis +60 °C	-15 bis +60 °C	-15 bis +60 °C	-15 bis +60 °C	-20 bis +60 °C	-20 bis +60 °C	-20 bis +60 °C
75390...	Ident. No. Unit price, €	305 O. R.	310 O. R.	315 O. R.	320 O. R.	325 O. R.	350 O. R.	355 O. R.

Prod. group 758

Hose clamp

Application:

For securing the end of a hose.

Execution:

- With worm gear
- Head shape C8
- Galvanised
- Free of chromium 6

- Secure sealing owing to elastic tightening
- Band made of stainless steel
- Low risk of injury from hose thanks to stamped band

Technical Data:

- Width of band: 9.0 mm
- Included in delivery: 50 units



Min./max. Ø	10-16 mm	12-20 mm	16-27 mm	20-32 mm	25-40 mm	32-50 mm
75406...	Ident. No. Unit price, €	010 O. R.	015 O. R.	020 O. R.	030 O. R.	040 O. R.

Prod. group 758

Accessories for		75406 010	75406 015	75406 020	75406 030	75406 040	75406 050
75406...	Hose clamps assortment Band width 9 mm, 105-part	Ident. No. Unit price, €	210 O. R.	210 O. R.	210 O. R.	210 O. R.	210 O. R.

Hose clamp

Application:

For securing the end of a hose.

Execution:

- With worm gear
- Head shape C14
- Galvanised

- Free of chromium 6
- Secure sealing owing to elastic tightening
- Band made of stainless steel
- Low risk of injury from hose thanks to stamped band



Min./max. Ø		16-27 mm	20-32 mm	25-40 mm	32-50 mm
Width of band (mm)		12.0	12.0	12.0	12.0
Included in delivery		50 units	50 units	50 units	50 units
75407...	Ident. No.	020	030	040	050
	Unit price, €	O. R.	O. R.	O. R.	O. R.

Prod. group 758

metabo® Mobile compressed air systems (direct drive)

single and double cylinder, IP 54 degree of protection

Application:

For producing compressed air for simple commercial applications.

Execution:

- Oil-lubricated piston compressor
- For single-phase alternating current
- Pressure reducer with manometer for controllable working pressure
- Good cold start by push button with start-up valve
- Thermal motor protection
- No testing before commissioning necessary
- Two manometers for controlled working and boiler pressure
- Rubberised, robust wheels for mobile application

Advantage:

- 10-year boiler warranty against rust penetration
- Rubberised pull handle for comfortable handling

Technical Data:

- Working pressure: 8 bar
- Intake air capacity: 200 l/min
- Delivery quantity effective at 80% max. pressure: 95 l/min
- Filling capacity: 110 l/min
- Power input: 1500 W
- Max. rotation speed: 2850 U/min
- Sound-pressure level: 97 dB
- With overload protection: Yes



Ident. No. 214



Ident. No. 312

Model		Basic 250-50 W	Basic 250-24 W
Tank capacity (l)		50	24
Length x width x height		830 x 445 x 715 mm	630 x 406 x 630 mm
Weight (kg)		32.0	27.0
75290...	Ident. No.	214	312
	Unit price, €	O. R.	O. R.

Prod. group 745

	Accessories for		75290 214	75290 312
75290...	Compressed air tool	Ident. No.	506	506
set LPZ 4		Set price, €	O. R.	O. R.
75290...	Compressed air tool	Ident. No.	511	511
set LPZ 7		Set price, €	O. R.	O. R.

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Electric tools

metabo® Mobile compressed air systems (V-belt driven) Two-cylinder, IP 54 degree of protection

Application:

For producing compressed air for simple commercial applications.

Execution:

- Belt drive for low motor speeds and quiet running
- Oil-lubricated piston compressor
- With filter pressure reducer including manometer and mist oiler for improved air quality and controllable working pressure
- Good cold start by push button with start-up valve
- Two manometers for controlled working and boiler pressure
- Thermal motor protection
- Pull handle with integrated cable wind-up
- **Ident. No. 027:** For single-phase alternating current

Ident. No. 041:

- For three-phase current
- With after-cooler for producing less condensation water

Advantage:

- 10-year boiler warranty against rust penetration
- Steering rollers with parking brake for good manoeuvrability
- Large rubberised wheels for comfortable transport
- **Ident. No. 041:** Two-stage compression for particularly high performance and long service life

Technical Data:

- With overload protection: Yes

Model	Mega 400-50 W	Mega 700-90 D
Working pressure (bar)	10	11
Intake air capacity (l/min)	400	650
Delivery quantity effective at 80% max. pressure (l/min)	260	450
Filling capacity (l/min)	300	520
Tank capacity (l)	50	90
Power input (W)	2200	4000
Max. rotation speed (U/min(rpm))	1050	1400
Sound-pressure level (dB)	86	88
Length x width x height	1050 x 410 x 817 mm	1188 x 520 x 1110 mm
Weight (kg)	73.0	119.0
75290...	Ident. No. 027 O. R.*	041 O. R.*

Prod. group 745

Accessories for		75290 027	75290 041
75290... set LPZ 4	Compressed air tool	Ident. No. 506 O. R.	506 O. R.
75290... set LPZ 7	Compressed air tool	Ident. No. 511 O. R.	511 O. R.



Ident. No. 027



Ident. No. 041

ewo® Compressed air mini-oiler with connecting thread G 3/8"

Application:

For attachment to impact compressed air tools for oil supply.

- Oil level easy to check through transparent sight glass
- With pulsed operation rhythm

Execution:

- With fine adjustment of oil metering

Connection thread		G 1/4 inch	G 3/8 inch
75420...	Ident. No. Unit price, €	010 O. R.	020 O. R.

Prod. group 758



ewo® Filter pressure reducer min./max. pressure control range: 0.5-10 bar

Application:

For cleaning and adjusting the working air.

Execution:

- With manual drain valve for emptying condensate

Connection thread	G 1/2 inch
Air flow (l/min)	5500
Width x height	70 x 273 mm
Container volume, filter (cm³)	85
Min./max. pressure control range	0.5-10 bar
Filtration grade (µm)	40
Max. primary pressure (bar)	16
75422...	Ident. No. Unit price, €

Prod. group 758





Compressed-air conditioning unit for cleaning compressed air

Application:

For cleaning compressed air, adjusting the desired pressure and for oil atomisation for a long service

life for various compressed air tools and pneumatic controllers.

Connection thread		G 3/8 inch	G 1/2 inch
Air flow (l/min)		1800	3400
Container volume, filter (cm ³)		25	85
Container volume, lubricator (cm ³)		50	125
Width x height		96 x 203 mm	140 x 273 mm
75424...	Ident. No.	020	030
	Unit price, €	O. R.	O. R.

Prod. group 758

Accessories for		75424 020	75424 030
75424...	Spare plastic container	110	130
	For maintenance unit	O. R.	(O. R.)
75424...	Spare plastic container	210	230
	For oilers	O. R.	(O. R.)
75424...	Bracket mount	305	330
	Ident. No.	O. R.	O. R.
	Set price, €		



Energy supply unit Electrical version

Application:

Stationary and detachable power supply for use at any work height

- Impact resistant plastic housing with large tool hook
- With 3-m long, robust and galvanised steel link chain

Execution:

- Sockets have self-closing covers for protection against dust and dirt

Advantage:

- Operate without entangled cables at the workplace

Cable length (m)		5
Cable type		H05VV-F3G1.5 mm ²
Cable material		Plastic
Number of sockets (Schuko) (PCS)		8
Width (mm)		100
Height (mm)		150
Depth (mm)		560
Colour		Yellow
IP protection class		IP 20
Weight (kg)		1.48
75000...	Ident. No.	200
	Unit price, €	O. R.

Prod. group 750



Multiple socket outlets in various designs for use in industry, trade, offices or private homes

Application:

For connecting up to six electrical consumers.

Execution:

- With on/off switch for controllable power supply

Cable length (m)	1.4	1.4	3.0
Cable type	H05VV-F3G1.5 mm ²	H05VV-F3G1.5 mm ²	H07RN-F3G1.5 mm ²
Cable material	PVC	PVC	Rubber
Number of sockets (Schuko) (PCS)	6	6	6
Colour	Black	Black	Black
IP protection class	IP 20	IP 20	IP 44
Weight (kg)	0.40	0.43	0.95
75000...	Ident. No.	010	015
	Unit price, €	O. R.	O. R.

Prod. group 750



Ident. No. 015



Ident. No. 020

HEDI Extension cables

Approved for continuous use outside, as well as on construction and installation sites, in accordance with BGI 608

Application:

For extending the connection cable of an electrical device.

- Suitable for continuous use outdoors
- Approved for use on construction and assembly sites in accordance with BGI 608

Execution:

- With splash-proof coupling and plug

Nominal voltage (V/AC)	250	250	400	400
Cable length (m)	10	25	10	25
Cable type	H07RN-F3G1.5 mm ²	H07RN-F3G1.5 mm ²	H07RN-F5G1.5 mm ²	H07RN-F5G1.5 mm ²
Cable material	Rubber	Rubber	Rubber	Rubber
Number of sockets (Schuko) (PCS)	1	1	-	-
Number of sockets (CEE) (PCS)	-	-	1	1
Colour	Black	Black	Black	Black
IP protection class	IP 44	IP 44	IP 44	IP 44
Weight (kg)	1.5	4.0	2.4	5.4
75000...	Ident. No. Unit price, €	050 O. R.	055 O. R.	060 O. R.

Prod. group 750



Ident. No. 050-055
Extension cable for 250 V DC



Ident. No. 060-065
Extension cable for 400 V AC



Cable boxes

for use in dry environments, 250 V, with overload protection

Application:

Multiple socket outlet with extension cable for use in a dry environment.

Advantage:

- Only suitable for use in a dry environment
- Indicator lamp for overload and overheating
- Good stability thanks to a robust double foot
- Ergonomically shaped carrying handle

Execution:

- With overload and overheating protection
- Impact-resistant plastic housing

Cable length (m)	10	15
Cable type	H05VV-F3G1.5 mm ²	H05VV-F3G1.5 mm ²
Cable material	Plastic	Plastic
Number of sockets (Schuko) (PCS)	4	4
Colour	Black/light grey	Black/light grey
Width x height x depth	225 x 270 x 80 mm	225 x 270 x 120 mm
Weight (kg)	1.6	2.3
75002...	Ident. No. Unit price, €	210 O. R.

Prod. group 750



HEDI Cable drum

Drum body made of plastic

Application:

Extension cable drum with multiple socket outlet for use in a dry environment.

Advantage:

- With thermal circuit breaker
- Tested to VDE standard
- Vertical and horizontal application possible
- Easy handling thanks to low weight
- Ergonomic, insulated bow handle

Execution:

- With overload protection
- Plug parking station
- Rotation stop switch

Cable length (m)	25
Cable type	H05VV-F3G1.5 mm ²
Number of sockets (Schuko) (PCS)	4
Drum body material	Plastic
Ø (mm)	255
Colour of cable	Black
Width x height x depth	260 x 297 x 215 mm
IP protection class	IP 20
Weight (kg)	1.9
75006...	Ident. No. Unit price, €

005
O. R.

Prod. group 750



HEDI Cable drum - for short-term outdoor use

Drum designed in plastic or galvanised sheet steel

Application:

Extension cable drum with multiple socket outlet for brief use outdoors.

Execution:

- With overload protection
- Splash-proof
- Plug parking station
- Rotation stop switch
- Steel pipe frame for stable positioning

- With integrated HEDI DiagS cable drum diagnostic system

Advantage:

- Suitable for short-term use outdoors
- With thermal circuit breaker
- Tested to VDE standard
- Vertical and horizontal application possible
- **Ident. No. 015:** Steel sheet drum is earthed

Cable length (m)	50	50
Cable type	H05RR-F3G1.5 mm ²	H05RR-F3G1.5 mm ²
Number of sockets (Schuko) (PCS)	3	3
Drum body material	Plastic	Steel plate
Ø (mm)	290	290
Colour of cable	Black	Black
Width x height x depth	268 x 393 x 243 mm	268 x 393 x 243 mm
IP protection class	IP 44	IP 44
Weight (kg)	8.6	9.0
75006...	Ident. No. Unit price, €	010 O. R.

Prod. group 750



Ident. No. 010



Ident. No. 015

HEDI Cable drum - for continuous outdoor use

Drum in plastic/galvanised sheet steel design, AC/DC

Application:

Ident. No. 030: Extension cable drum with multiple socket outlet for continuous use outdoors.

Ident. No. 045: Extension cable drum with multiple socket outlet and CEE socket for continuous use outdoors.

Execution:

- With overload protection
- Splash-proof
- Plug parking station
- Rotation stop switch

- Steel pipe frame for stable positioning
- With integrated HEDI DiagS cable drum diagnostic system
- **Ident. No. 045:** With 1 CEE socket

Advantage:

- Suitable for continuous use outdoors
- With thermal circuit breaker
- Tested to VDE standard
- Vertical and horizontal application possible

Cable length (m)	40	25
Cable type	H07RN-F3G1.5 mm ²	H07RN-F3G1.5 mm ²
Number of sockets (Schuko) (PCS)	3	2
Number of sockets (CEE) (PCS)	-	1
Drum body material	Plastic	Plastic
Ø (mm)	290	290
Colour of cable	Black	Black
Width x height x depth	268 x 393 x 243 mm	268 x 393 x 243 mm
IP protection class	IP 44	IP 44
Weight (kg)	8.2	-
75006...	Ident. No. Unit price, €	030 O. R.

Prod. group 750



Ident. No. 030
With black or red cable



Ident. No. 045
With Schuko and CEE sockets

Schill Cable drum

Drum body made of special hard rubber

Application:

Extension cable drum with multiple socket outlet for continuous use outdoors.

Execution:

- Splash-proof
- Self-closing hinged lid

Advantage:

- Suitable for continuous use outdoors
- With thermal circuit breaker
- Drum body made of synthetic rubber – load capacity like steel, but lighter
- Resistant to chemicals, oils and petrol

Cable length (m)	25	25	50
Cable type	H07RN-F3G1.5 mm ²	H05RR-F3G1.5 mm ²	H05RR-F3G1.5 mm ²
Number of sockets (Schuko) (PCS)	3	4	4
Drum body material	Hard rubber	Hard rubber	Hard rubber
Ø (mm)	235	310	310
Colour of cable	Black	Black	Black
Width x height x depth	235 x 300 x 205 mm	310 x 310 x 229 mm	310 x 310 x 229 mm
IP protection class	IP 54	IP 54	IP 54
Weight (kg)	4.9	6.0	9.6
75011...	Ident. No. Unit price, €	003 O. R.	050 O. R.

Prod. group 750



Ident. No. 003



Ident. No. 025-050

HEDI Spring balance drums
Electrical version

Application:

Cable drum for all operations in which carrying the drum is a hindrance.

Execution:

- Maximum power with cable wound: 800 W
- Maximum power with cable unwound: 2000 W
- 1-metre connecting cable

- Robust, closed housing

Advantage:

- With thermal circuit breaker
- For use in areas with dust and dirt hazards
- Swivelling bracket for wall and ceiling mounting with 150° rotation
- Cable can be snapped in

Cable length (m)	10	15
Cable type	H07RN-F3G 1.5 mm ²	H07RN-F3G 1.5 mm ²
Cable material	Rubber	Rubber
Number of sockets (Schuko) (PCS)	1	1
Drum body material	Plastic	Plastic
Ø (mm)	290	290
Width x height x depth	275 x 325 x 18.5 mm	275 x 325 x 18.5 mm
Colour of cable	Black	Black
IP protection class	IP 44	IP 44
Weight (kg)	5.8	6.6
75006...	Ident. No. Unit price, €	110 O. R.
		115 O. R.

Prod. group 750



ATORN Non-contact voltage tester
12-1000 V, visual and vibrating display

EN standard 61010

Application:

For non-contact testing and detection of energised conductors and cable breaks.

Execution:

- Impact and breakage resistant ABS plastic
- Anti-slip surface

Advantage:

- Capacitive measuring method
- Measurements from 12 V
- Vibrating display
- Integrated LED pocket torch
- 5-year manufacturer's warranty

75016...	Ident. No. Unit price, €	305 O. R.
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Prod. group 793



BENNING Voltage tester
Simple operation; IP65

EN standard 61243-3

Application:

Ident. No. 027-037: For use in all installation fields and renewable energy fields.

Ident. No. 055: For checking absence of voltage including in very heavy application up to 400 V AC/DC.

Execution:

- Ident. No. 027:**
 - Diode testing
 - Resistance measurement
 - Frequency measurement
- Ident. No. 027-032:**
 - Conductivity testing
 - Cable break detector
- Ident. No. 027-037:** Phase sequence display
- Ident. No. 032-037:**
 - One-pole phase testing

- Polarity testing
- Vibration alarm
- Ident. No. 037:** Load connection
- Ident. No. 055:**
 - Very rugged
 - Epoxy resin display
 - Rubberised handle

Advantage:

- Easy to use
- Reliable display
- Ident. No. 027:** TRUE RMS
- Ident. No. 027-037:** High voltage display
- Ident. No. 032:** Functional even without batteries
- Ident. No. 037-055:** No batteries necessary



Ident. No. 027



Ident. No. 055



Ident. No. 032



Ident. No. 037



Model	DUSPOL digital	DUSPOL analogue	DUSPOL expert	PROFIPOL
Display	LED/LCD Audible	LED/moving coil	LED Audible	LED
Length x width x height	330 x 85 x 55 mm	330 x 85 x 55 mm	330 x 85 x 55 mm	255 x 69 x 42 mm
Min./max. voltage range AC	1-1000 V/AC	12-1000 V/AC	12-1000 V/AC	6-400 V/AC
Min./max. voltage range DC	1-1200 V/DC	12-1000 V/DC	12-1000 V/DC	6-400 V/DC
Min./max. frequency	1 / 1000 Hz	-	-	-
Min./max. continuity test	0-100 kOhm	-	0-100 kOhm	-
Min./max. electrical-resistance measuring range	0.1-300 kOhm	-	-	-
Phase-sequence test	Yes	Yes	Yes	No
Phase sequence test	Yes	Yes	Yes	No
Polarity testing	Yes	Yes	Yes	Yes
Vibration control system	Yes	Yes	Yes	No
Measurement point lighting	Yes	No	Yes	No
Width (mm)	85	85	85	69
IP protection class	IP 65	IP 65	IP 65	IP 65
Weight (kg)	0.380	0.350	0.370	0.190
CAT measurement category	CAT IV/600 V CAT III/1000 V	CAT IV/600 V CAT III/1000 V	CAT IV/600 V CAT III/1000 V	CAT III/400 V
75017...	Ident. No. Unit price, €	027 O. R.	037 O. R.	032 O. R.

Prod. group 751

Accessories for		75017 027	75017 032	75017 037	75017 055
75017... DUSPOL quick-access case	Ident. No. Unit price, €	111 O. R.	111 O. R.	111 O. R.	111 O. R.

BENNING**DUTEST PRO continuity tester**

Suitable for high and low impedance resistance measurement

EN standard 61010

Application:

For detecting wiring faults and cable disruptions.

- Torch function (adjustable in 4 levels)

Advantage:

- Easy to use

Execution:

- Acoustic test buzzer

Model	DUTEST PRO
Display	LED Audible
Min./max. test current, audible	0-60 mA
Protected for external voltage up to (V/AC)	400
Min./max. continuity test	0-100 Ohm
Phase sequence test	Yes
Polarity testing	Yes
Non-contact test	No
CAT measurement category	CAT II/300 V
75021...	Ident. No. Unit price, €
	011 O. R.

Prod. group 751

**BENNING****TRITEST Pro rotation field direction indicator**

Displays clockwise rotation field or anticlockwise rotation field via green/red LED

EN standard 61557-7

Application:

For testing the rotation field direction in three-phase networks.

- With alligator clip

Advantage:

- Easy detection of rotation field direction

Execution:

- LED torch function

Display	LED
Min./max. voltage range AC	400-500 V/AC
EN standard	61557-7
CAT measurement category	CAT III/300 V
75021...	Ident. No. Unit price, €
	101 O. R.

Prod. group 751



Test buzzer TESTOFON

TACO NAUERT

Application:

For testing electric appliances, telephones and telecommunication systems, measuring and control equipment as well as electronic circuits.

Execution:

- Low impedance
- Voltage-resistant
- No blow out protection
- Tone scale proportional to resistance

Max. test voltage (V/AC/DC)	4.2
Max. test current (mA)	2
Min./max. range	40-1000 Hz
Voltage-resistant up to (V/AC)	420
Briefly able to withstand voltage (V/AC)	420
75022...	Ident. No. 010
	Unit price, € O. R.

Prod. group 751



ATORN® Digital multimeter

With integrated cable breakage detector and LED torch

EN standard 61010

Application:

For universal application in electrical installation, service and industry.

Advantage:

- For universal use
- Easy to use
- Non-contact cable breakage detector
- LED torch
- 5-year manufacturer's warranty

Execution:

- Compact design
- Very rugged
- Break-proof plastic display

Model	NA
Min./max. test voltage (DC)	0 V/AC-400 V/AC
Min./max. test voltage (AC)	0 V/AC-400 V/AC
Min./max. direct current of measuring range	0 A-4 A
Min./max. alternating current of measuring range	0 A-4 A
Min./max. electrical-resistance measuring range	0-20 MOhm
CAT measurement category	CAT II/400 V CAT III/300 V
Length x width x height	140 x 70 x 35 mm
75016...	Ident. No. 320
	Unit price, € O. R.

Prod. group 793



BENNING Pocket multimeter MMP3

Small digital multimeter in leather case

EN standard 61010

Application:

For use in installation fields and simple, industrial fields.

- Continuity/diode testing
- Frequency measurement
- Capacitance measurement

Execution:

- AC/DC voltage measurement
- Resistance measurement

Advantage:

- Easy to use

Model	MM P3
Display range	5000 digits
Measuring accuracy	+/- 0.6 %
Min./max. test voltage (DC)	100 µV/AC-600 V/AC
Min./max. test voltage (AC)	100 µV/AC-600 V/AC
Min./max. electrical-resistance measuring range	0.0000001-40 MOhm
Min./max. frequency	0.000000001 / 5 MHz
Min./max. capacitor capacity	10 pF-100 µF
Measuring procedure	RMS
CAT measurement category	CAT III/300 V CAT II/600 V
Length x width x height	132 x 86 x 19 mm
75021...	Ident. No. 200
	Unit price, € O. R.

Prod. group 751



BENNING**Multi-purpose measuring instruments**
Digital multimeter

EN standard 61010

Application:

For use in installation fields.

Execution:

- AC/DC voltage measurement
- Volt sensor
- Resistance measurement

- Continuity/diode testing
- Ident. No. 111:** HOLD memory function
- Ident. No. 121-131:**
 - AC/DC current measurement up to 10 A
 - Frequency measurement
 - Capacitance measurement

- Ident. No. 131:** Temperature measurement

Advantage:

- Robust
- Easy to use
- Good price/performance ratio

Ident. No. 111
BENNING MM 1-1Ident. No. 121
BENNING MM 1-2Ident. No. 131
BENNING MM 1-3

Model	MAN 1-1	MAN 1-2	MAN 1-3
Display range	2000 digits	2000 digits	2000 digits
Measuring accuracy	+/- 0.5 %	+/- 0.5 %	+/- 0.5 %
Min./max. test voltage (DC)	100 µV/AC-1000 V/AC	100 µV/AC-1000 V/AC	100 µV/AC-1000 V/AC
Min./max. test voltage (AC)	100 µV/AC-750 V/AC	100 µV/AC-750 V/AC	100 µV/AC-750 V/AC
Min./max. direct current of measuring range	-	1 mA-10 A	1 mA-10 A
Min./max. alternating current of measuring range	-	1 mA-10 A	1 mA-10 A
Min./max. electrical-resistance measuring range	0.0000001-20 MOhm	0.0000001-20 MOhm	0.0000001-20 MOhm
Min./max. frequency	-	0.000001 / 20 MHz	0.000001 / 20 MHz
Min./max. capacitor capacity	-	1 pF-2 mF	1 pF-2 mF
Temperature range	-	-	-20 °C to +800 °C
Measuring procedure	-	RMS	RMS
CAT measurement category	CAT III/600 V CAT II/1000 V	CAT III/600 V CAT II/1000 V	CAT III/600 V CAT II/1000 V
Length x width x height	156 x 74 x 44 mm	156 x 74 x 44 mm	156 x 74 x 44 mm
75024...	Ident. No. 111 Unit price, € O. R.	Ident. No. 121 Unit price, € O. R.	Ident. No. 131 Unit price, € O. R.

Prod. group 751

BENNING**High-performance multi-purpose measuring instruments**
Digital multimeter

EN standard 61010

Application:**Ident. No. 210:** For use in installation fields.**Ident. No. 231:** For use in installation fields/industry.**Ident. No. 240:** For use in installation fields/industry with recording capability.**Execution:**

- AC/DC voltage measurement
- Resistance measurement

- Continuity/diode testing
- Ident. No. 210:**
 - AC current measurement up to 300 A
 - HOLD memory function
- Ident. No. 231:** LoZ voltage measurement with low input impedance
- Ident. No. 231-240:**
 - AC/DC current measurement up to 10 A
 - Volt sensor
 - Frequency measurement

- Capacitance measurement

Advantage:

- Easy to use
- Ident. No. 210:**
 - High AC current measurement up to 300 A
 - Good price/performance ratio
- Ident. No. 231-240:** Robust
- Ident. No. 240:** PC connection via USB

Ident. No. 210
BENNING MM4Ident. No. 231
BENNING MM7-1Ident. No. 240
BENNING MM10

Model	MM 4	MAN 7-1	MM 10
Display range	4200 digits	6000 digits	6000 digits
Measuring accuracy	+/- 0.5 %	+/- 0.08 %	+/- 0.5 %
Min./max. test voltage (DC)	1 mV/AC-600 V/AC	10 µV/AC-1000 V/AC	100 µV/AC-1000 V/AC
Min./max. test voltage (AC)	1 mV/AC-600 V/AC	10 µV/AC-1000 V/AC	100 µV/AC-750 V/AC
Min./max. direct current of measuring range	-	10 µA-10 A	0.1 µA-10 A
Min./max. alternating current of measuring range	0.1 A-300 A	10 µA-10 A	1 mA-10 A
Min./max. electrical-resistance measuring range	0.0000001-42 MOhm	0.0000001-40 MOhm	0.0000001-60 MOhm
Min./max. frequency	-	0.00001 / 100 kHz	0.000001 / 60 MHz
Min./max. capacitor capacity	-	1 nF-10 mF	1 pF-6 mF
Temperature range	-	-40 °C to +400 °C	-
Measuring procedure	RMS	TRUE RMS	TRUE RMS
CAT measurement category	CAT III/300 V CAT II/600 V	CAT IV/600 V CAT III/1000 V	CAT IV/600 V CAT III/1000 V
Length x width x height	225 x 77 x 35 mm	190 x 94 x 48 mm	164 x 82 x 44 mm
75024...	Ident. No. 210 Unit price, € O. R.	Ident. No. 231 Unit price, € O. R.	Ident. No. 240 Unit price, € O. R.

Prod. group 751

BENNING

Multi-purpose measuring instruments
Digital current clamp multimeter

EN standard 61010

Application:

Ident. No. 300: For AC current measurement in electrical installations.

Ident. No. 310-320: For measurement in electrical installations.

Execution:

Ident. No. 300-310: AC current up to 400 A

Ident. No. 310:

Voltage up to 600 V AC/DC

Continuity testing

Ident. No. 310-320: Resistance measurement

Ident. No. 320:

AC current up to 200 A

Voltage up to 750 V AC / 1000 V DC

Continuity/diode testing

Advantage:

Robust

Small

Handy

Easy to use

Ident. No. 300
BENNING CM 1-1Ident. No. 310
BENNING CM 1-2Ident. No. 320
BENNING CM 1-3

Model	CM 1-1	CM 1-2	CM 1-3
Display range	2000 digits	2000 digits	2000 digits
Measuring accuracy	+/- 2 %	+/- 1 %	+/- 1 %
Min./max. test voltage (DC)	-	0.1 V/AC-600 V/AC	0.1 mV/AC-1000 V/AC
Min./max. test voltage (AC)	-	0.1 V/AC-600 V/AC	0.1 mV/AC-750 V/AC
Min./max. alternating current of measuring range	0.01 A-400 A	0.1 A-400 A	0.1 A-200 A
Min./max. operating temperature	0 bis 50 °C	0 bis 50 °C	0 bis 50 °C
Max. collet opening (mm)	30	30	16
Memory function	HOLD MAX	HOLD	HOLD
Measuring procedure	RMS	RMS	RMS
CAT measurement category	CAT III/600 V	CAT III/600 V	CAT IV/600 V CAT III/1000 V
Length x width x height	180 x 70 x 42 mm	190 x 70 x 38 mm	190 x 60 x 40 mm
75024...	Ident. No. Unit price, €	Ident. No. Unit price, €	Ident. No. Unit price, €
	300 O. R.	310 O. R.	320 O. R.

Prod. group 751

BENNING

High-performance measuring instruments
Digital current clamp multimeter

EN standard 61010

Application:

For measurement in electrical installations/
industry/PV.

Execution:

Resistance measurement

Ident. No. 330:

AC/DC current up to 300 A

Voltage up to 600 V AC/DC

Continuity testing

Ident. No. 335: Voltage up to 750 V AC / 1000 V DC

Ident. No. 335-340:

AC/DC current up to 600 A

Continuity/diode testing

Ident. No. 340:

Voltage up to 600 V AC / 600 V DC

Power measurement with power factor cos phi

Frequency measurement

Temperature measurement

Advantage:

TRUE RMS voltage measurement

Handy

Easy to use

Ident. No. 330: Small

Ident. No. 335: Automatic function/measuring range selection

Ident. No. 340: Large measuring ranges

Ident. No. 330
BENNING CM 2

Model	CM 8	CM 5-1	CM 2
Display range	6000 digits	9999 digits	4000 digits
Measuring accuracy	+/- 0.7 %	+/- 0.9 %	+/- 0.5 %
Min./max. test voltage (DC)	10 mV/AC-600 V/AC	1.3 V/AC-750 V/AC	0.1 mV/AC-600 V/AC
Min./max. test voltage (AC)	10 mV/AC-600 V/AC	0.7 V/AC-1000 V/AC	1 mV/AC-600 V/AC
Min./max. direct current of measuring range	0.1 A-600 A	0.9 A-600 A	10 mA-300 A
Min./max. alternating current of measuring range	0.1 A-600 A	0.9 A-600 A	100 mA-300 A
Min./max. effective power	0.001-600 kW	-	-
Min./max. frequency	0.0001 / 4 kHz	-	-
Min./max. operating temperature	0 bis 50 °C	0 bis 50 °C	0 bis 50 °C
Max. collet opening (mm)	40	35	25
Memory function	HOLD MAX/MIN PEAK INRUSH	HOLD	HOLD MAX
Measuring procedure	TRUE RMS	TRUE RMS	TRUE RMS
CAT measurement category	CAT III/600 V	CAT IV/600 V CAT III/1000 V	CAT III/300 V CAT II/600 V
Length x width x height	235 x 85 x 51 mm	215 x 85 x 51 mm	192 x 66 x 27 mm
75024...	Ident. No. Unit price, €	Ident. No. Unit price, €	Ident. No. Unit price, €
	340 O. R.	335 O. R.	330 O. R.

Prod. group 751

BENNING**Insulation and resistance meter IT101****TRUE RMS insulation resistance meter with calculation of resulting leakage current****Application:**

For insulation resistance and low impedance measurement in electrical installations.

Execution:

- R ISO test voltages up to 1000 V
- R PE test current 200 mA
- Polarisation index (PI), dielectric absorption ratio (DAR)
- Switchable test probe

- TRUE RMS voltage measurement with low-pass filter

Advantage:

- High R ISO test voltage
- TRUE RMS voltage measurement
- Handy
- Easy to use

Display range	4000 digits
Measuring accuracy	0.015%
Min./max. insulation resistance	1 kOhm-20 GOhm
Min./max. test voltage (DC)	0.1 V/AC-600 V/AC
Min./max. test voltage (AC)	0.1 V/AC-600 V/AC
Min./max. electrical-resistance measuring range	0.00001-40 kOhm
Length x width x height	207 x 95 x 52 mm
Measuring procedure	TRUE RMS
CAT measurement category	CAT IV/600 V
75024...	Ident. No. 610 Unit price, € O. R.

Prod. group 751



BENNING IT 101

**BENNING****Leakage current clamp CM 9****TRUE RMS leakage current clamp, digital current clamp for current of 1 µA to 100 A AC****Application:**

For finding leakage and discharge currents (insulation faults) in electrical installations.

Execution:

- AC current from 1 µA to 100 A
- Low-pass filter
- Threshold value setting

Advantage:

- TRUE RMS voltage measurement
- Large measuring range
- Handy
- Easy to use

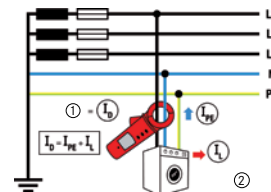
Display range	6000 digits
Measuring accuracy	+/- 1 %
Min./max. alternating current of measuring range	1 µA-100 A
Max. collet opening (mm)	40
Length x width x height	205 x 75 x 40 mm
Measuring procedure	TRUE RMS
CAT measurement category	CAT III/300 V
75024...	Ident. No. 390 Unit price, € O. R.

Prod. group 751

Accessories for		75024 390
75024...	Schuko plug/coupling	Ident. No. 410 Unit price, € O. R.
75024...	16 A CEE-CEE measuring adapter	Ident. No. 420 Unit price, € O. R.
75024...	32 A CEE-CEE measuring adapter	Ident. No. 430 Unit price, € O. R.



BENNING CM 9



Differential current process example: washing machine

BOSCH**Position finder GMS 120 Professional****voltage 230 V, 50 Hz, shockproof, suppressed****Application:**

For locating energised conductors, metals and wooden substructures.

Execution:

- Automatic calibration
- Three-colour LED light ring
- Precise display of object centre with 'Centre Finder' scale

- Display of material properties
- Illuminated display

Advantage:

- Three locating modes: Drywall mode, metal mode, mode for energised conductors
- Location of deep objects up to 12 cm down

BOSCH no.	0 601 081 000
Model	GMS 120
Max. detection depth of ferrous metals (mm)	120
Max. detection depth of non-ferrous metals (mm)	80
Max. detection depth of live cables (mm)	50
Max. detection depth of wood (mm)	38
Automatic switch-off	5min
Number of rechargeable batteries/batteries (PCS)	1
Rechargeable battery/battery designation	9 V 6LR61
Weight (kg)	0.27
75016...	Ident. No. 010 Unit price, € O. R.

Prod. group 731



Nilfisk ALTO Wet/dry vacuum cleaners
voltage 230 V, 50 Hz

Application:

No. 75520: Handy and robust vacuum cleaner for use in the workshop.

No. 75521: Multi-purpose vacuum cleaner for crafts, industry and professionals.

Execution:

▪ **No. 75520:**

- Washable PET filter element with a filtration of at least 99.9%
- MultiFit connection system
- Tool adapter with suction power regulation
- Numerous options for holding accessories
- Blow-out function

▪ **No. 75521:**

- Washable PET fleece filter element
- With socket for power tools

▪ **No. 75521 041:** Professional extraction of water, sand, earth, slurry, ashes or wood chips and much more

▪ **No. 75521 051:**

- Compact, ergonomic and powerful design

- With continuously variable speed control and soft start-up
- Antistatic function

Advantage:

- **No. 75521:** Semi-automatic Push & Clean filter cleaning system for consistently high suction power (cleans itself at the push of a button)

scope of supply and services:

No. 75520: With suction hose (diameter 32 mm), hand tube with suction power regulation, extension tube, floor nozzle, brush nozzle, universal and joint nozzle, filter element and filter bag

No. 75521 041: With suction hose (diameter 32 mm), hand tube, aluminium extension tube, combination floor nozzle, joint nozzle, non-woven fabric filter bag

No. 75521 051: With suction hose (diameter 32 mm), hand tube, aluminium extension tube, combination floor nozzle, joint nozzle, non-woven fabric filter bag and tool adapter



No. 75520

Model	21-01 PC INOX	ATTIX 30-01	ATTIX 30-21
Power input (W)	1250	1500	1500
Max. air delivery volume (l/min)	3600	3700	3700
Underpressure (mbar)	210	250	250
Container capacity (l)	20	30	30
Sound-pressure level (dB)	64	59	59
With device connector	No	Yes	Yes
With antistatic system	-	-	Yes
Weight (kg)	8.5	10.0	10.0
Length x width x height	390 x 400 x 525 mm	450 x 380 x 595 mm	450 x 380 x 595 mm
Cable length (m)	5.0	7.5	7.5
75520...	Ident. No. 012 Unit price, € O. R.	-	-
75521...	Ident. No. - Unit price, €	041 O. R.	051 O. R.

Prod. group 759

Accessories for		75520 012	75521 041	75521 051
75520... Filter pack 4 non-woven fabric filters and 1 wet filter	Ident. No. Price/pack, €	311 O. R.	-	-
75521... Filter element	Ident. No. Unit price, €	440 O. R.	440 O. R.	440 O. R.
75521... Filter bags, 5 units	Ident. No. Price/pack, €	-	341 O. R.	341 O. R.

Nilfisk ALTO Wet/dry vacuum cleaners
voltage 230 V, 50 Hz

Application:

No. 75522: Professional vacuum cleaner for the workshop, with long usage periods.

No. 75524 011: Suction in continuous operation for dust classes L and M and ATEX Zone 22, all non-carcinogenic dust with MAK values > 0.1 mg/m³ and/or combustible dust from Zone 22.

No. 75524 020: Flexible high-performance vacuum cleaner with two-motor drive for demanding cleaning tasks.

Execution:

▪ **No. 75522 036, 75524 020:**

- With SoftStart
- Antistatic function
- Washable PET fleece filter element

- **No. 75522 036-75524 011:** With socket for power tools

▪ **No. 75524 011:**

- Electronic follow-up control
- Secure suction into the filter; the whole system is completely de-dusted
- Variable speed control
- Tilting container for easy emptying

▪ **No. 75524 020:**

- Tilting container removable
- Two-motor drive 2 x 1500 W

Advantage:

- **No. 75522:** Fully automatic XtremeClean filter cleaning system
- **No. 75524 011:** Brushless long-life motor

- **No. 75524 020:** Semi-automatic Push&Clean filter cleaning system

scope of supply and services:

No. 75522: With 4-m suction hose (diameter 36 mm), with rubberised tapered hose nozzle, filter element and filter bag, power cable holder, 7.5-m rubberised mains cable

No. 75524 011: With 3.5-m suction hose AntiStatic (diameter 27 mm), tool adapter, filter element and filter bag, cable holder, rubberised 7.5-m mains cable

No. 75524 020: With 4-m suction hose (38 mm), stainless steel extension tube 2 x 0.5 m, bent hand pipe, non-woven fabric filter bag, filter element, filter element PET nano fibre, floor nozzle 400 mm, joint nozzle plastic 300 mm



No. 75522



No. 75524 011



No. 75524 020

Model	ATTIX 791-2 M/B1	ATTIX 961-01	ATTIX 751-11
Power input (W)	1500	1500	1500
Max. air delivery volume (l/min)	3800	3600	3600
Underpressure (mbar)	250	250	230
Container capacity (l)	70	70	70
Sound-pressure level (dB)	59	67	57
With device connector	-	-	Yes
With antistatic system	-	-	Yes
Weight (kg)	25.0	30.0	25.0
Length x width x height	650 x 580 x 970 mm	580 x 600 x 970 mm	605 x 580 x 970 mm
Cable length (m)	7.5	10.0	7.5
75524...	Ident. No. Unit price, €	011 (O. R.)*	020 O. R.
75522...	Ident. No. Unit price, €	-	-
			036 O. R.*

Prod. group 759

Accessories for		75522 036	75524 011	75524 020
75521... Chip set for ATTIX 961-01	Ident. No. Unit price, €	110 O. R.	-	110 O. R.
75521... Filter bags, 5 units	Ident. No. Price/pack, €	360 O. R.	360 O. R.	365 O. R.
75521... Filter element	Ident. No. Unit price, €	440 O. R.	440 O. R.	460 O. R.
75521... Chip basket for ATTIX 961-01	Ident. No. Unit price, €	-	-	120 (O. R.)

KÄRCHER Wet/dry vacuum cleaners

voltage 230 V, 50 Hz

Application:

For vacuuming dirt, liquids and large quantities of fine dust.

Execution:

- Wet/dry floor nozzle and joint nozzle
- Filter bag
- Maintenance-free suction turbines
- No. 75523-75525:** Flat folding filter
- No. 75526:** Cartridge filter

Advantage:

- No. 75523:**
 - Discharge hose (oil resistant)
 - Tilting frame
- No. 75523-75525:**
 - Automatic shutdown at maximum filling quantity
 - Automatic filter cleaning Tact
 - Stop castor

scope of supply and services:

No. 75523: With 4.0-m suction hose, C 40 with elbow, electrostatically earthed, 2 x 0.5-m suction

tubes made from metal, wet/dry suction nozzle (360 mm) joint nozzle, flat folded filter (dust class M)

No. 75525: With suction hose 2.5 m, metal suction tube 2 x 0.5 m, wet/dry suction nozzle (300 mm), joint nozzle, paper filter bag (dust class M)

No. 75526: With 2.5-m suction hose with elbow, cartridge filter, metal suction hose 2 x 0.5 m, wet and dry floor nozzle, joint nozzle, paper filter bag (double layered, BIA C)



No. 75523



No. 75525



No. 75526

Model	NT 65/2 Tact 2	NT 35/1 Tact	NT 27/1 ME Advance
Power input (W)	2760	1380	1380
Max. air delivery volume (l/min)	4440	3660	4020
Underpressure (mbar)	254	230	208
Container capacity (l)	65	35	27
Sound-pressure level (dB)	73	67	72
Weight (kg)	24.5	11.5	8.2
Length x width x height	575 x 490 x 880 mm	520 x 380 x 580 mm	420 x 420 x 540 mm
Cable length (m)	10.0	7.5	7.5
75523...	Ident. No. Unit price, €	017 O. R.	-
75525...	Ident. No. Unit price, €	-	029 O. R.
75526...	Ident. No. Unit price, €	-	-
			023 O. R.

Prod. group 759

Accessories for		75523 017	75525 029	75526 023
75523... Paper filter bags, 5 units	Ident. No. Price/pack, €	315 O. R.	-	-
75523... Filter element	Ident. No. Unit price, €	420 O. R.	-	-
75525... Filter element	Ident. No. Unit price, €	-	422 O. R.	-
75526... Paper filter bags, 5 units	Ident. No. Price/pack, €	-	-	320 O. R.
75526... Filter element	Ident. No. Unit price, €	-	-	422 O. R.

starmix Wet and dry vacuum cleaner 1432 ST

Power consumption 1400 watt

Application:

For greater stresses in commercial application.

Execution:

- For wet/dry cleaning of buildings (commercial, garage, household, etc.)
- High-power motor fan with bypass cooling
- Extremely robust folding filter cartridge (IFA (BIA) tested for dust class M)

- Impact-resistant plastic container – resists all common fats and alkalis
- Pneumatic water level detection
- With accessory holder

scope of supply and services:

With 1.75-m suction hose, 2x suction tubes (made of plastic, 50 cm each), 1x joint nozzle, 1x coarse dust nozzle, 1x coarse dust floor nozzle (36 mm wide)

Model	1432 ST
Power input (W)	1400
Max. air delivery volume (l/min)	4140
Underpressure (mbar)	259
Container capacity (l)	32
Weight (kg)	9.3
Length x width x height	417 x 390 x 640 mm
Cable length (m)	8
75534...	Ident. No. 011 Unit price, € O. R.

Prod. group 759

Accessories for		75534 011
75534...	Paper filter bags, 5 units	Ident. No. 111 Price/pack, € O. R.
75534...	Spare fold filter	Ident. No. 210 Unit price, € O. R.
75535...	Filter bag FST (fine dust pre-filter)	Ident. No. 228 Unit price, € O. R.



starmix Special accessories

for wet and dry vacuum cleaner No. 75534

Application:

Ident. No. 320: For metal chips, oil, emulsion, dirt, etc.

Ident. No. 340: For universal cleaning in crafts, business and industry.

Execution:

- Ident. No. 320:** All parts oil-resistant

scope of supply and services:

Ident. No. 320: With 1 suction hose (Ø 49 mm x 3.0 m), 1 steel joint nozzle (25 cm), 1 connection sleeve for power tools (conical), 1 adapter piece from Ø 49 mm to Ø 35 mm connection system

Ident. No. 340: With 1 suction hose (Ø 35 mm x 3.2 m), 1 stainless steel handle tube with admixed air slider, 2 stainless steel suction tubes (Ø 35 mm x 50 cm each), 1 joint nozzle (37 cm), round suction brush, 1 professional floor nozzle 45 (aluminium)

75534...	Machine cleaning set MZ special accessories	Ident. No. 320 Set price, € O. R.
75534...	Special professional accessories set PZ	Ident. No. 340 Set price, € O. R.

Prod. group 759



Ident. No. 320
Machine cleaning set MZ



Ident. No. 340
Professional set of accessories PZ



Industrial cleaner - for cleaning swarf, liquids and dust

voltage 230 V, 50/60 Hz

Application:

Ident. No. 005: For industrial application especially for vacuuming metal chips, granules, liquids, oils, slurry and dust, for cleaning machines, systems and production sites as well as for replacing coolants.

Ident. No. 010: Especially suitable for vacuuming up metal chips, granules, coolants and slurry as well as leaked oil from machine tools, and for cleaning tool-changing areas and workpieces.

Execution:

- Service life of carbon brushes approximately 2500 operating hours
- With bearing shaft for tilt emptying
- Drive unit W 2 G is sound-damped and splash-proof
- With nozzle holder

Advantage:

- Conforms to the basic safety and health requirements of EC guidelines (CE declaration of conformity)
- The removable hose swivelling through 360° allows convenient emptying of liquids and is used as a visual fill level monitor

- **Ident. No. 005:** Vacuums both wet and dry

Ident. No. 010:

- With ergonomic control handle
- Filling level display hose with chip pre-filter
- Quick connector for fast emptying

scope of supply and services:

Drive unit has 2 x 1.0 kW high-performance bypass suction turbines and integrated safety filter, steel collection container, corner screen, fill level and emptying hose, connection cable with plug, rubber-wheeled chassis made from steel, 2 lockable castors and 2 block rollers, 1 unit each of nos. 75540-105, 110 and 130

Technical Data:

- Power input: 2000 W
- Max. air delivery volume: 6000 l/min
- Underpressure: 220 mbar
- Cable length: 5.0 m
- Hose length: 3 m
- Inner hose diameter: 51 mm

Model		RI 100 W2G	RI 300 W2G
Container capacity (l)		80	125
Length x width x height		740 x 620 x 1180 mm	750 x 700 x 1420 mm
Weight (kg)		74.0	84.0
75540...	Ident. No.	005	010
	Unit price, €	(O. R.)	(O. R.)

Prod. group 760



Ident. No. 005



Ident. No. 010

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Smoke extraction equipment

with filter and flexible extractor arm, hose version, >99 % filtration efficiency

Application:

Ident. No. 011: For extracting fumes, dust and also gases that are released during welding processes for cutting and joining when machining unalloyed steels, including high-alloy chromium/nickel steels.

Ident. No. 020: For extracting fumes during welding work with unalloyed steels and precious metals.

Execution:

- With flexible suction arm in hose version
- With filter
- Suction arms can be swivelled through 360° and can be moved into any desired position, which is self-supporting
- Ident. No. 011:**
 - When the filter is saturated, an indicator lamp shows that a filter change is necessary
 - The particles and gases are filtered out of the air stream in a multi-stage filtering process and the clean air is fed back to the working area
 - Filter elements are accessible via a maintenance hatch and therefore can be easily and quickly removed
- Ident. No. 020:**
 - Monitoring of the volume flow and filter indicates when a filter change is necessary

- Thanks to effective air guidance in the unit, the operator cannot come into contact with the harmful substances
- Air discharge on the rear of the unit is via an outlet grille facing upwards, rendering undetectable disruptive air flow at a distance of 1 m
- With operating hours counter
- With powerful fan using high negative pressure, which guarantees a high volume flow even when the filter is saturated

Advantage:

- Ident. No. 011:** Tested based on DIN EN ISO 15012-1 (2005) and IFA (previously BGIA) certified (IFA no. 201020469/1140) for welding fume class W3
- Ident. No. 020:**
 - Complies with the safety requirements for equipment in welding fume class W3 (highly alloyed steels)
 - When used as intended, the system can be used for air circulation, as the prerequisites for exemption clauses in accordance with the new statutory German Hazardous Materials Ordinance (GefStoffV) are satisfied
 - Seal seat raising unit guarantees complete seal integrity and thus the filtration efficiency of the filter equipment



Version	On castors	On castors
Nominal voltage (V / AC)	230	400
Max. idle speed (U/min(rpm))	2800	2800
Motor output (kW)	1.1	1.1
Extraction arm (PCS)	1	1
Nominal width of extraction arm (mm)	150	150
Max. suction capacity (m³/h)	1000	1250
Overhang (mm)	3000	3000
Air supply quantity (m³/h)	2500	2500
Roll Ø (mm)	75	125
Number of fixed rollers (PCS)	2	2
Number of steering rollers (PCS)	2	2
Energy efficiency (%)	99	99
Length x width x height	580 x 580 x 900 mm	665 x 681 x 995 mm
Weight (kg)	80	130
75736...	Ident. No. 011 Unit price, € (O. R.) ⁺	Ident. No. 020 Unit price, € (O. R.) ⁺

Prod. group 759

Accessories for		75736 011	75736 020
75736... Coarse filter set	Ident. No. 290 Set price, € (O. R.) ⁺	300 (O. R.) ⁺	-
75736... Pre-filter	Ident. No. 320 Unit price, € (O. R.) ⁺	-	-
75736... Activated carbon filter	Ident. No. 340 Unit price, € (O. R.) ⁺	-	-
75736... Main filter	Ident. No. 400 Unit price, € (O. R.) ⁺	410 (O. R.) ⁺	-

ORION® Electric scribes ARKOGRAF

Labels made of metal, steel and non-metal materials with oscillating electrode

Application:

No. 78010: For marking metal and steel with oscillating electrode.

No. 78025: For marking metal, steel and non-metallic materials with oscillating electrode.

Execution:

- Frequency 50-60 Hz
- Not suitable for anodised parts
- Suitable for thicker writing
- For 6 writing widths
- Operates with an oscillating electrode according to the electric arc short circuit principle

- Consisting of special transformer for 1-8 V secondary voltage, with on/off switch, indicator lamp, approx. 1 m connection cable with Schuko plug, writing pencil, 3 electrodes each for 1.2 x 25 mm and 1.5 x 25 mm, for steel and metals, baseplate and wooden box.
- Surface must be grease free, without rust, scale or other contamination!

Advantage:

- No. 78025:** With intensity controller, branding pencil and 3 electrodes (hot loops)

Suitable for		Steel Metal	Steel Metal Nonferrous
Power input (W)		50	50
78010...	Ident. No. 010 Unit price, € (O. R.)	-	-
78025...	Ident. No. 010 Unit price, € (O. R.)	-	-

Prod. group 794



Accessories for			78010 010	78025 010
78025...	Writing pencil For steel and metals	Ident. No. Unit price, €	100 O. R.	100 O. R.
78025...	Electrodes For steel and metals 1.2 x 25 mm	Ident. No. Unit price, €	111 O. R.	111 O. R.
78025...	Electrodes For steel and metals 1.5 x 25 mm	Ident. No. Unit price, €	121 O. R.	121 O. R.
78025...	Branding pencil For non-metallic materials	Ident. No. Unit price, €	-	200 O. R.
78025...	Electrodes (hot loops) For non-metallic materials	Ident. No. Unit price, €	-	211 O. R.

Rotoscriber labeller

Transformer-operated

Application:

For varied labelling tasks, such as labelling metal, plastic, glass, object carriers and much more.

Execution:

- Automatic adjustment as soon as it is brought into the writing position
- Shuts down when released from hand
- No tools necessary to replace the rotating writing tips
- To change tools, the worn-out tip is pulled out and the new one is attached with slight pressure

Advantage:

- Drive shaft in stainless steel with special ball bearing

78035...	Ident. No. Unit price, €	010 O. R.
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Prod. group 780

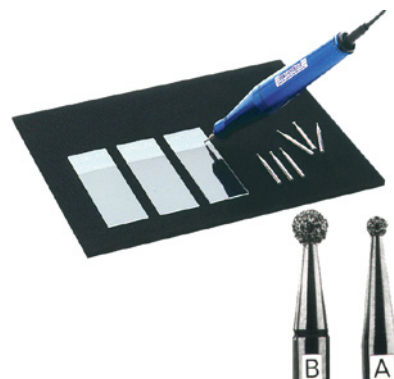
Accessories for			78035 010
78035...	Replacement writing tips For metal	Ident. No. Unit price, €	030 O. R.
78035...	Replacement writing tips For glass and similar hard materials	Ident. No. Unit price, €	040 O. R.

scope of supply and services:

With transformer and writing tip for metal

Technical Data:

- Operating voltage: 12 V/AC
- Current consumption: 400 mA
- Max. idle speed: 20000 U/min
- Material of the housing: Aluminium
- Surface: Anodised
- Length: 125 mm
- Diameter of housing: 20 mm
- Weight: 0.07 kg



Compressed air marking pencil

Pneumatically operated, with R 1/4 inch male thread

Application:

For applying markings and labels to metal, glass, plastics and hardened steel.

Execution:

- Maintenance unit, e.g. no. 75424, should be connected upstream
- With rotary valve for switching on and off
- Hose 2 m

Advantage:

- Operates with approximately 3 times higher frequency than conventional pneumatically operated versions

scope of supply and services:

With engraving needle, medium

Min./max. number of strokes		500-600 U/min
Min./max. air consumption		25-30 l/min
Inner hose Ø (mm)		4.0
Working pressure (bar)		6
Vibration (m/s²)		0.7
Sound-pressure level (dB)		62
Weight (kg)		0.25
78043...	Ident. No.	010
	Unit price, €	O. R.

Prod. group 780

Accessories for			78043 010
78043...	Engraving needle, fine	Ident. No. Unit price, €	100 O. R.
78043...	Engraving needle, medium	Ident. No. Unit price, €	105 O. R.
78043...	Engraving needle, coarse	Ident. No. Unit price, €	110 O. R.



Pneumatic hand stamp BM 10

Pneumatically operated, impact force 1 kN

Application:

For marking parts produced from material up to max. 40 HRC.

Execution:

- Patented
- With pneumatic impact triggering
- Low pressure forces are necessary on the workpiece for impact triggering
- Embossing power continuously adjustable via pressure controller
- Recoilless
- Fast and easy replacement of the engraving stamp
- Engraving stamp: Individual and multiple symbols in different font sizes, such as check marks listed in the table, digits from 0-9 and capital letters from A-Z deliverable within 3-4 weeks. Production is order based, price on request.



Example application: Pneumatic stamp with AUTOSTAT air spring balance

- Note for ordering engraving stamps: please specify the font size and symbol (number, letter or check mark).

Technical Data:

- Model: BM 10
- Impact force: 1 kN
- Adapter diameter: 8 mm
- Max. script height for 1-digit engravings: 4.0 mm
- Max. script height for 2-digit engravings: 2.5 mm
- Max. script height for 3-digit engravings: 2.0 mm
- Diameter of housing: 25 mm
- Length: 260 mm
- Weight: 0.6 kg



Engraving example

	1	2	3	4	5	6	7	8
A	☐	☐	☐	☐	☐	☐	☐	☐
B	☐	☐	☐	☐	☐	☐	☐	☐
C	☐	☐	☐	☐	☐	☐	☐	☐
D	☐	☐	☐	☐	☐	☐	☐	☐
E	☐	☐	☐	☐	☐	☐	☐	☐
F	☐	☐	☐	☐	☐	☐	☐	☐
G	☐	☐	☐	☐	☐	☐	☐	☐

Control stamp selection table

78048...	Ident. No. Unit price, €	310 O. R.
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Prod. group 785

ALZMETALL Bench drill ALZTRONIC power supply 230 V

Application:

Robust bench drilling machines for use in workshops.

Execution:

- On/Off switch with lockable EMERGENCY OFF cover
- reversing switch for clockwise and anti-clockwise rotation
- degree of protection IP 54
- spindle protection with electric protection
- connection plug (already fitted), cable length: 3 metres
- digital speed display (LED)
- paint DD structure finish RAL 7035 light grey and 7016 anthracite



ZM1603-1, ZM1603-2,
ZM1603-3

ZM1603-4, ZM1603-5

Model	ALZTRONIC 6	ALZTRONIC 9	ALZTRONIC 12	ALZTRONIC 14	ALZTRONIC 16
Max. drill Ø in steel E335/ St 60 (continuous mode) (mm)	6	9	12	14	16
Drill chuck holder	B 16	B 16	B 16	MT 2	MT 2
Spindle stroke (mm)	40	40	40	80	80
Overhang (mm)	200	200	200	190	190
Pillar Ø (mm)	50	50	50	65	65
Clamping area	240 x 300 mm	240 x 300 mm	240 x 300 mm	240 x 300 mm	240 x 300 mm
T-slots on clamping table (number x width x spacing)	2 x 12 x 80 mm	2 x 12 x 80 mm	2 x 12 x 80 mm	2 x 12 x 80 mm	2 x 12 x 80 mm
Feed type	Manual	Manual	Manual	Manual	Manual
Weight (kg)	64	64	64	83	83
Number of drive levels	Continuous	Continuous	Continuous	Continuous	Continuous
Motor output (kW)	0.54	0.54	0.54	0.54	0.54
Min./max. spindle speed	700-10000 U/min	390-6500 U/min	250-5000 U/min	230-4000 U/min	100-2000 U/min

Prod. group



Bench drill ALZSTAR

power supply 400 V

Application:

Economical drills for use in workshops.

Execution:

- main switch with motor protection switch, lockable
- mushroom pushbutton (locking) for EMERGENCY-STOP

- degree of protection IP 54
- reversing switch for clockwise/anti-clockwise rotation
- paint DD structure finish RAL 7035 light grey and 7016 anthracite

Model	ALZSTAR 18-T/S
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	18
Drill chuck holder	MT 2
Spindle stroke (mm)	80
Overhang (mm)	190
Pillar Ø (mm)	65
Clamping area	240 x 300 mm
T-slots on clamping table (number x width x spacing)	2 x 12 x 18 mm
Feed type	Manual
Rotational speed indicator	Scale
Weight (kg)	110
Number of drive levels	Continuous
Total engine capacity	0.37/0.55 kW
Min./max. spindle speed	225-4300 U/min

Prod. group



Model ALZSTAR 18-T/S



Bench drill AX

power supply 400 V

Application:

Robust, economical drill for use in workshops.

Execution:

- main switch with motor protection switch, lockable
- mushroom pushbutton (locking) for EMERGENCY-STOP

- degree of protection IP 54
- digital speed gauge
- paint DD structure finish RAL 7035 light grey and 7016 anthracite
- additional motor and speed variations on request

Model	AX2-T/S
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	23
Drill chuck holder	MT 2
Spindle stroke (mm)	100
Overhang (mm)	250
Pillar Ø (mm)	90
Clamping area	300 x 370 mm
T-slots on clamping table (number x width x spacing)	2 x 14 x 160 mm
Feed type	Manual
Rotational speed indicator	Digital
Weight (kg)	160
Number of drive levels	Continuous
Total engine capacity	0.6/0.95 kW
Min./max. spindle speed	225-4300 U/min

Prod. group



Model AX 2-T/S



Bench drills TB 10 Plus / TB 10 Eco Plus

power supply 230 V

Application:

TB 10 Eco Plus: Sensitive precision drill in alternating current version with electronically, infinitely variable controlled motor speeds, with quiet operation and excellent user comfort.

TB 10 Plus: The new TB 10 bench drill generation – innovative design meets impressive technical features. From the new touchscreen display, the ergonomically adapted drilling lever and the ideal lighting to simplified application thanks to fewer operating controls. Complemented by optional and innovative safety features, such as the newly developed drill protection, the machine quickly becomes indispensable in daily use.

Execution:

- quickly adjustable drill depth stop
- emergency stop palm button
- infinitely variable speed control
- digital rotation speed and drilling depth display (TB 10 Plus only)
- LED lighting (TB 10 Plus only)
- drill protection with electric protection
- thread cutting device (max. M5)
- spindle stop

Model	TB 10 Eco Plus	TB 10 Plus
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	10	10
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	12	12
Max. thread-cutting performance	-	M6
Drill chuck holder	B 16	B 16
Spindle stroke (mm)	50	60
Pillar Ø (mm)	50	70
Overhang (mm)	180	220



TB 10 Plus; image with option

Clamping area	180 x 260 mm	250 x 300 mm
Feed type	Manual	Manual
Rotational speed indicator	Digital	Digital
Weight (kg)	30	44
Number of drive levels	Continuous	Continuous
Motor output (kW)	0.45	0.54
Min./max. spindle speed	500-3000 U/min	120-6000 U/min

Prod. group

FLÖTT Bench drills TB 13 Plus / TB 18 Plus

power supply TB 13 Plus = 230 V / TB 18 Plus = 400 V

Application:

The new TB 13 Plus and TB 18 Plus bench drill generation – innovative design and impressive technical features. From the new touchscreen display, the ergonomically adapted drilling lever and the ideal lighting to simplified application thanks to fewer operating controls. Complemented by optional and innovative safety features, such as the newly developed drill protection, the machine quickly becomes indispensable in daily use.

- emergency stop palm button
- infinitely variable speed control
- digital rotation speed and drilling depth display
- LED lighting
- drill protection with electric protection
- thread cutting device
- spindle stop
- with intermediate table
- **TB 13 Plus MK2:** "TO GO" version – available from the warehouse!

Execution:

- quickly adjustable drill depth stop

Model	TB 13 Plus B16	TB 13 Plus MK2	TB 18 Plus
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	13	13	16
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	15	15	20
Max. thread-cutting performance	M8	M8	M10
Drill chuck holder	B 16	MT 2	MT 2
Spindle stroke (mm)	60	60	100
Pillar Ø (mm)	70	70	82
Overhang (mm)	220	220	240
Clamping area	250 x 300 mm	250 x 300 mm	280 x 340 mm
Feed type	Manual	Manual	Manual
Rotational speed indicator	Digital	Digital	Digital
Weight (kg)	62	62	110
Number of drive levels	Continuous	Continuous	Continuous
Motor output (kW)	0.54	0.54	1
Min./max. spindle speed	40-4000 U/min	40-4000 U/min	40-4000 U/min

Prod. group



TB 13 Plus B16, TB 13 Plus MK2
TB 13 Plus; image with option



TB 18 Plus
SB/TB 18 Plus; image with option

FLÖTT Bench drill

power supply 400 V

Application:

Universal drill with infinitely variable speed drive, digital drilling depth and rotation speed display, depth stop with precision adjustment, including connection cable with CEE plug.

Execution:

- quickly adjustable drill depth stop
- emergency stop palm button
- thermal overload protection
- undervoltage trigger
- Connection cable (1.5 m) with CEE plug
- drill protection with electric protection
- infinitely variable speed control
- table height adjusted via rack
- manual reversing switch for clockwise/anti-clockwise rotation
- digital rotation speed and drilling depth display

Model	TB P23 ST
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	18
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	23
Drill chuck holder	MT 2
Spindle stroke (mm)	100
Pillar Ø (mm)	82
Clamping area	280 x 340 mm
Overhang (mm)	240
Feed type	Manual
Rotational speed indicator	Digital
Weight (kg)	175
Number of drive levels	Continuous
Total engine capacity	0.45/0.8 kW
Spindle speed level	Level 1: 125-2000 Level 2: 250-4000

Prod. group



Model TB P 23 ST

MAXION Bench drills BT-series

power supply 400 V

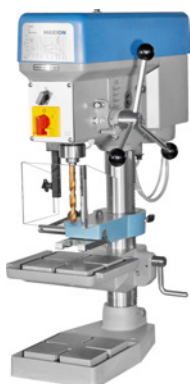
Application:

Powerful, precise bench drill with high accuracy and quality.

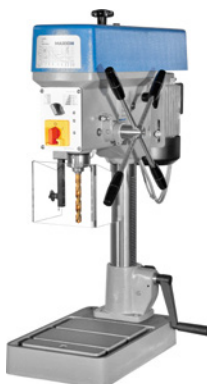
Execution:

- optional with tapping function

- BT 25 optional with 3 automatic feeds
- also available as a pillar drill
- additional motor and speed variations on request



BT 13 ST



BT 18 ST



BT 25 ST

Model	BT 13 ST	BT 18 ST	BT 25 ST
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	13	18	25
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	15	20	30
Max. thread-cutting performance	-	M16	M20
Drill chuck holder	B 16	MT 2	MT 3
Spindle stroke (mm)	70	100	120
Overhang (mm)	180	215	260
Pillar Ø (mm)	65	75	110
Clamping area	170 x 230 mm	285 x 220 mm	420 x 390 mm
T-slots on clamping table (number x width x spacing)	4 x 10 mm cross slot	2 x 12 x 120 mm	2 x 14 x 180 mm
Weight (kg)	65	85	215
Feed type	Manual	Manual	Manual
Rotational speed indicator	Scale	Digital	Digital
Total engine capacity	0.45/1 kW	0.6/1.2 kW	0.8/1.5 kW
Min./max. spindle speed	420-2100 U/min	200-3600 U/min	160-2800 U/min

Prod. group

MAXION Bench drill UNIMAX

power supply 230 V

Application:

Powerful, universal and infinitely variable drill with clockwise/anti-clockwise rotation and digital

display.

Model	UNIMAX 1 Tab
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	15
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	18
Max. thread-cutting performance	M8
Drill chuck holder	MT 2
Spindle stroke (mm)	80
Overhang (mm)	180
Pillar Ø (mm)	65
Clamping area	220 x 250 mm
T-slots on clamping table (number x width x spacing)	2 x 10 x 80 mm
Weight (kg)	80
Feed type	Manual
Number of drive levels	Continuous
Motor output (kW)	1.1
Min./max. spindle speed	200-4000 U/min

Prod. group



ALZMETALL Pillar drills ALZSTAR-series power supply 400 V

Application:

Heavy-duty, precise production drill with increased characteristics.

Execution:

- main switch with motor protection switch
- mushroom pushbutton (locking) for EMERGENCY-STOP
- reversing switch for clockwise/anti-clockwise rotation

- degree of protection IP 54
- paint DD structure finish RAL 7035 light grey and 7016 anthracite
- infinitely variable speed adjustment with digital display
- fully assembled connector plug (2 m)
- spindle protection with electric protection

Model	ALZSTAR 30/S	ALZSTAR 40/S	ALZSTAR 40/SV
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	30	40	40
Drill chuck holder	MT 3	MT 3	MT 3
Spindle stroke (mm)	140	120	120
Overhang (mm)	293	293	293
Pillar Ø (mm)	115	115	115
Clamping area	360 x 514 mm	360 x 514 mm	360 x 514 mm
T-slots on clamping table (number x width x spacing)	2 x 14 x 224 mm	2 x 14 x 224 mm	2 x 14 x 224 mm
Feed type	Manual	Manual	2 steps
Feed stages	-	-	0.1 mm/U 0.2 mm/U
Rotational speed indicator	Digital	Digital	Digital
Number of drive levels	Continuous	Continuous	Continuous
Weight (kg)	260	270	285
Total engine capacity	1/1.6 kW	1.45/1.9 kW	1.45/1.9 kW
Min./max. spindle speed	225-4300 U/min	160-2250 U/min	160-2250 U/min

Prod. group



ZM1603-7

ALZMETALL Pillar drills AX-series power supply 400 V

Application:

Heavy-duty, precise production drill with increased characteristics.

Execution:

- main switch with motor protection switch
- mushroom pushbutton (locking) for EMERGENCY-STOP
- degree of protection IP 54

- paint DD structure finish RAL 7035 light grey and 7016 anthracite
- infinitely variable speed adjustment with digital display
- feed overload protection
- spindle protection with electric protection
- Machine oil: initial filling with loose container, supplied in delivery
- additional motor and speed variations on request

Model	AX3/SV	AX4/SV
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	40	55
Drill chuck holder	MT 3	MT 4
Spindle stroke (mm)	120	140
Overhang (mm)	293	300
Pillar Ø (mm)	115	145
Clamping area	360 x 515 mm	430 x 615 mm
T-slots on clamping table (number x width x spacing)	2 x 14 x 224 mm	2 x 14 x 224 mm
Feed type	2 steps	2 steps
Feed stages	0.1 mm/U 0.2 mm/U	0.1 mm/U 0.3 mm/U
Number of drive levels	Continuous	Continuous
Weight (kg)	270	380
Total engine capacity	1.45/1.9 kW	1.8/2.9 kW
Min./max. spindle speed	160-2250 U/min	70-1200 U/min

Prod. group



ZM1604-3
Model AX 4/SV



Pillar drills AB-series

power supply 400 V

Application:

Heavy-duty, precise production drill with increased characteristics.

Execution:

- electromagnetic feed clutch
- lockable main switch
- mushroom pushbutton, locking, for EMERGENCY STOP

- degree of protection IP 54
- infinitely variable speed adjustment with digital display
- spindle protection with electric protection
- Machine oil: initial filling with loose container, supplied in delivery
- with overload protection and electric star handle switch

Model	AB 26/SV	AB 34/SV	AB 40/SV	AB 50/SV
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	26	34	40	50
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	30	40	50	60
Drill chuck holder	MT 3	MT 4	MT 4	MT 4
Spindle stroke (mm)	160	160	160	200
Overhang (mm)	293	300	300	350
Pillar Ø (mm)	115	145	145	200
Clamping area	360 x 514 mm	430 x 615 mm	430 x 615 mm	510 x 720 mm
T-slots on clamping table (number x width x spacing)	2 x 14 x 224 mm	2 x 14 x 224 mm	2 x 14 x 224 mm	2 x 14 x 224 mm
Feed type	4 steps	4 steps	4 steps	4 steps
Feed stages	0.1 mm/U 0.2 mm/U 0.3 mm/U 0.4 mm/U	0.1 mm/U 0.2 mm/U 0.3 mm/U 0.4 mm/U	0.1 mm/U 0.2 mm/U 0.3 mm/U 0.4 mm/U	0.15 mm/U 0.2 mm/U 0.3 mm/U 0.36 mm/U
Number of drive levels	Continuous	Continuous	Continuous	Continuous
Rotational speed indicator	Digital	Digital	Digital	Digital
Weight (kg)	440	470	470	605
Total engine capacity	1/1.6 kW	1.4/2.2 kW	1.8/2.9 kW	3.6/4.3 kW
Min./max. spindle speed	120-2200 U/min	100-1800 U/min	70-4000 U/min	60-1530 U/min

Prod. group



ZM0605-5
Model AB 34/SV



ZM1604-6



Pillar drills

power supply 400 V

Application:

SB M3 ST MV: Universal drill with infinitely variable speed drive, depth stop with precision adjustment, including connection cable with CEE plug. With optional mechanical feed.

SB P23 ST: Universal drill with infinitely variable speed drive, digital drilling depth and rotation speed display, depth stop with precision adjustment, including connection cable with CEE plug.

SB P40 STG PV electronic: Universal drill with infinitely variable speed drive; digital drilling depth and rotation speed display and infinitely programmable feed with integrated thread cutting device. A chip-break module, an automatic spindle stop and intermittent control are optional.

Execution:

- emergency stop palm button
- thermal overload protection
- undervoltage trigger
- Connection cable (1.5 m) with CEE plug
- drill protection with electric protection
- infinitely variable speed control
- table height adjusted via rack
- **SB M3 ST MV, SB P40 STG PV electronic:** finely adjustable drill depth stop
- **SB P23 ST:** quickly adjustable drill depth stop



SB M3 ST MV



SB P23 ST



SB P40 STG PV electronic
Image with options

Model	SB P23 ST	SB M3 ST MV	SB P40 STG PV electronic
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	18	25	35
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	23	30	40
Max. thread-cutting performance	M16	M20	M30
Drill chuck holder	MT 2	MT 3	MT 4
Spindle stroke (mm)	100	125	160
Overhang (mm)	240	280	300
Pillar Ø (mm)	82	110	125

Clamping area	280 x 340 mm	340 x 420 mm	450 x 590 mm
T-slots on clamping table (number x width x spacing)	2 x 13 x 125 mm	2 x 13 x 125 mm	2 x 14 x 160 mm
Feed type	Manual	3 steps	Continuous
Feed stages	Manual	0.1 mm/U 0.16 mm/U 0.25 mm/U	-
Min./max. continuous feed motion	-	-	0-300 mm/U
Number of drive levels	Continuous	Continuous	Continuous
Weight (kg)	205	275	440
Total engine capacity	0.45/0.8 kW	0.9/1.45 kW	1.5/3 kW
Spindle speed level	Level 2: 250-4000 Level 1: 125-2000	Level 1: 125-2000 Level 2: 250-4000	Level 2: 100-2000 Level 1: 70-1400

Prod. group

MAXION Pillar drills UNIMAX-series power supply 400 V

Application:

Powerful, universal and infinitely variable drill with clockwise/anti-clockwise rotation and digital display.

Execution:

- AV = optional with automatic feed, chip breaking, digital drill depth display



UNIMAX 2



UNIMAX 3



UNIMAX 4 Basic

Model	UNIMAX 2	UNIMAX 3	UNIMAX 4 Basic
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	18	25	35
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	20	30	40
Max. thread-cutting performance	-	-	M30
Drill chuck holder	MT 2	MT 3	MT 4
Spindle stroke (mm)	100	125	175
Overhang (mm)	225	260	300
Pillar Ø (mm)	90	110	120
Clamping area	315 x 450 mm	365 x 500 mm	400 x 550 mm
T-slots on clamping table (number x width x spacing)	2 x 12 x 120 mm	2 x 14 x 180 mm	2 x 14 x 180 mm
Feed type	Manual	Manual	Continuous
Number of drive levels	Continuous	Continuous	Continuous
Weight (kg)	170	250	450
Total engine capacity	1.5/1.5 kW	0.8/1.5 kW	1.5/3 kW
Spindle speed level	Level 1: 100-2000 Level 2: 200-4000	Level 1: 80-1440 Level 2: 180-3200	Level 1: 120-2500 Level 2: 60-1250

Prod. group

ALZMETALLO Radial drill AB-series power supply 400 V

Application:

Heavy-duty, precise production drill with increased characteristics.

Execution:

- electromagnetic feed clutch with overload protection and electric star handle switch
- clockwise rotation through contactor control including motor protection switch for drive and lift motor
- control transformer (VDE 0113)
- lockable main switch
- base plate with T-slots
- mushroom push-button (locking) for EMERGENCY STOP
- degree of protection IP 54
- spindle protection with electric protection
- paint: DD structure finish light grey RAL 7035 and anthracite RAL 7016, black
- additional motor and speed variations on request

Model	AB 30/R-1000	AB 30/R-1400
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	32	32
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	45	45
Drill chuck holder	MT 4	MT 4
Spindle stroke (mm)	160	160
Overhang (mm)	1000	1400
Pillar Ø (mm)	220	300
Feed type	4 steps	4 steps
Feed stages	0.15 mm/U 0.2 mm/U 0.3 mm/U 0.36 mm/U	0.15 mm/U 0.2 mm/U 0.3 mm/U 0.36 mm/U
Number of drive levels	12 steps	12 steps
Weight (kg)	1250	1650
Motor output (kW)	1.5	1.5
Min./max. spindle speed	28-1250 U/min	28-1250 U/min

Prod. group



ZM1606-4



Rapid radial drill ALZSPRINT

power supply 400 V

Application:

Heavy-duty, precise production drill with increased characteristics.

Execution:

- mushroom pushbutton (locking) for EMERGENCY STOP
- degree of protection IP 54
- electromagnetic feed clutch with pushbutton

- thread cutting device with double return speed
- clockwise rotation through contactor control
- control transformer (VDE 0113)
- spindle protection with electric protection
- lockable main switch
- hydraulic central clamp
- lighting

Model	ALZSPRINT 30
Max. drill Ø in steel E335/St 60 (continuous mode) (mm)	30
Max. drill Ø in steel E335/St 60 (normal mode) (mm)	32
Max. thread-cutting performance	M24
Drill chuck holder	MT 4
Spindle stroke (mm)	140
Pillar cam (mm)	430
Clamping area	600 x 1200 mm
T-slots on clamping table (number x width x spacing)	4 x 18 x 125 mm
Adjustment travel without guide cover (mm)	900
Feed type	3 steps
Feed stages	0.075 mm/U 0.15 mm/U 0.3 mm/U
Number of drive levels	18 steps
Weight (kg)	2180
Total engine capacity	1.1/1.6 kW
Min./max. spindle speed	60-3050 U/min

Prod. group



ALZSPRINT 30



High-performance circular saws VMS

manual version

Application:

Easy to operate, sturdy design and precise cutting make this saw a must for every steel and metal construction workshop.

Execution:

- manual version
- saw blade feed via safety ratchet lever

- convenient mitre setting with fixed stops
- powerful pole-switching motors for 2 speeds
- large gearbox with EISELE rotation compensation
- heavy machine underframe
- integrated coolant equipment and chip drawer
- paint: RAL 4002 red violet; RAL 7035 light grey

Model	VMS 300	VMS 350	VMS 370
Max. machining cross-section, round, at 90° (mm)	90	120	130
Max. machining cross-section, rectangular, at 90°	120 x 75 mm	170 x 100 mm	200 x 100 mm
Max. machining cross-section, round, at 45° (mm)	90	120	130
Max. machining cross-section, rectangular, at 45°	80 x 75 mm	120 x 100 mm	140 x 100 mm
Saw blade Ø (mm)	275	350	370
Saw blade width (mm)	2	3	3
Bore Ø (mm)	40	40	40
Adjustable sawblade speed	40 80	17 34	17 34
Adjustable sawblade speed (optional)	-	34 68	34 68
Pivot-mounted upper machine part	45-90-45-30°	45-90-45-30°	45-90-45-30°
Total engine capacity	1/1.2 kW	1.4/1.9 kW	2/2.6 kW
Weight (kg)	190	330	460
Length x width x height	900 x 800 x 1600 mm	800 x 900 x 1700 mm	1000 x 1100 x 1800 mm

Prod. group



VMS 300



High-performance circular saws VMS-PV semi-automatic version

Application:

Easy to operate, sturdy design and precise cutting make this saw a must for every steel and metal construction workshop.

Execution:

- semi-automated version
- pneumatic, fast-action chuck devices, optional with clamping force reduction
- infinitely variable hydropneumatic saw blade feed

- stroke adjustment of the saw unit via clamping lever
- large gearbox with EISELE rotation compensation
- convenient saw blade changeover
- additional add-on gear with 4 speeds
- clamping pressure reduction
- micro-spray system
- paint: RAL 4002 red violet; RAL 7035 light grey

Model	VMS 300-PV	VMS 350-PV	VMS 370-PV
Max. machining cross-section, round, at 90° (mm)	90	120	130
Max. machining cross-section, rectangular, at 90°	120 x 75 mm	170 x 100 mm	200 x 100 mm
Max. machining cross-section, round, at 45° (mm)	90	120	130
Max. machining cross-section, rectangular, at 45°	80 x 75 mm	120 x 100 mm	140 x 100 mm
Saw blade Ø (mm)	275	350	370
Saw blade width (mm)	2	3	3
Bore Ø (mm)	40	40	40
Adjustable sawblade speed	40 80	17 34	17 34
Adjustable sawblade speed (optional)	-	34 68	34 68
Pivot-mounted upper machine part	45-90-45-30°	45-90-45-30°	45-90-45-30°
Total engine capacity	1/1.2 kW	1.4/1.9 kW	2/2.6 kW
Width (mm)	900	900	1000
Length x width x height	1050 x 900 x 1800 mm	1050 x 900 x 1900 mm	1150 x 1000 x 2000 mm

Prod. group



VMS 350-PV
Model VMS 350 PV



High-performance circular saws VMS-A fully-automatic version

Application:

The ease of use and sturdy design for precise cutting ensure these automatic saws are indispensable for serial cutting with medium and large batches. Some of highlights include feeding with flat guide and ball bearing spindle for maximum precision in the positioning, the generous lining meets the most stringent safety requirements and offers the easiest operation in both automatic and manual modes.

Execution:

- fully automated version
- integrated coolant equipment and micro-spray system
- pneumatic or hydraulic saw feed and quick-action clamping vice with clamping pressure reduction
- NC controller with graphic display and keypad
- convenient clamping lever
- paint: RAL 4002 red violet; RAL 7035 light grey

Model	VMS 370 A	VMS 400 A
Max. machining cross-section, round, at 90° (mm)	130	140
Max. machining cross-section, rectangular, at 90°	200 x 100 mm	200 x 120 mm
Max. machining cross-section, round, at 45° (mm)	130	140
Max. machining cross-section, rectangular, at 45°	140 x 100 mm	140 x 120 mm
Saw blade Ø (mm)	370	400
Bore Ø (mm)	40	40
Adjustable sawblade speed	8 16 32 64	8 16 32 64
Pivot-mounted upper machine part	45-90-45-30°	45-90-45-30°
Total engine capacity	2/2.6 kW	2/2.6 kW
Weight (kg)	600	700
Length x width x height	2150 x 770 x 1540 mm	2150 x 770 x 1540 mm

Prod. group



VMS 400 A



High-performance circular saws

semi-automated version

Application:

The universal mitre circular saws ensure high cutting performance and long saw blade service life thanks to a robust and stable machine base for vibration-damped and low-noise operation of the saw.

- easy-to-use mitre setting
- hydraulic clamping device
- clamping pressure reduction
- infinitely variable saw blade feed
- paint: RAL 4002 red violet; RAL 7035 light grey

Execution:

- semi-automated version

Model	PSU 450 H
Max. machining cross-section, round, at 90° (mm)	150
Max. machining cross-section, rectangular, at 90°	240 x 70 mm
Max. machining cross-section, round, at 45° (mm)	145
Max. machining cross-section, rectangular, at 45°	170 x 70 mm
Saw blade Ø (mm)	450
Bore Ø (mm)	40
Adjustable sawblade speed	6 12 24 48
Pivot-mounted upper machine part	90-45-30-0°
Total engine capacity	3/3.6 kW
Weight (kg)	1250
Length x width x height	1610 x 1400 x 1900 mm

Prod. group



Model PSU 450 H



High-performance circular saws VS

manual version

Application:

The proven VS series circular saws are ideally suited for robust long-term use. The hardened and polished guide paths and the gears, which have been tried and tested for many years, help to achieve low-vibration sawing that protects the saw blade.

- hardened, grounded gear wheels in the gear
- groove for precise cuts combining two round tubes
- second clamping vice groove for slotting
- powerful drive motor
- table plate with low tension equipment
- hardened, ground, adjustable guide rails

Execution:

- manual version

Model	VS 300	VS 350	VS 370
Max. machining cross-section, round, at 90° (mm)	95	110	130
Max. machining cross-section, rectangular, at 90°	125 x 90 mm	170 x 105 mm	170 x 115 mm
Max. machining cross-section, round, at 45° (mm)	95	110	130
Max. machining cross-section, rectangular, at 45°	95 x 85 mm	130 x 105 mm	130 x 115 mm
Saw blade Ø (mm)	300	350	370
Saw blade width (mm)	2.5	3	3
Bore Ø (mm)	40	40	40
Adjustable sawblade speed	40 80	36 72	36 72
Adjustable sawblade speed (optional)	20 40	18 36	18 36
Pivot-mounted upper machine part	45-90-45-30°	45-90-45-30°	45-90-45-30°
Total engine capacity	1.6/2.1 kW	1.9/2.6 kW	1.9/2.6 kW
Weight (kg)	230	360	380
Length x width x height	620 x 580 x 1700 mm	750 x 650 x 1700 mm	750 x 650 x 1700 mm

Prod. group



VS 300

High-performance circular saws VS-HA semi-automatic version

Application:

The proven VS series circular saws are ideally suited for robust long-term use. The hardened and polished guide paths and the gears, which have been tried and tested for many years, help to achieve low-vibration sawing that protects the saw blade.

Execution:

- semi-automated version
- hardened, grounded gear wheels in the gear

- groove for precise cuts combining two round tubes
- second clamping vice groove for slotting
- powerful drive motor
- table plate with low tension equipment
- hardened, ground, adjustable guide rails
- pneumatic clamping device
- infinitely variable hydro-pneumatic saw blade feed

Model	VS 300 HA	VS 350 HA	VS 370 HA
Max. machining cross-section, round, at 90° (mm)	95	110	130
Max. machining cross-section, rectangular, at 90°	125 x 90 mm	170 x 105 mm	170 x 105 mm
Max. machining cross-section, round, at 45° (mm)	95	110	130
Max. machining cross-section, rectangular, at 45°	95 x 85 mm	130 x 105 mm	130 x 115 mm
Saw blade Ø (mm)	300	350	370
Saw blade width (mm)	2.5	3	3
Bore Ø (mm)	40	40	40
Adjustable sawblade speed	40 80	36 72	36 72
Adjustable sawblade speed (optional)	20 40	18 36	18 36
Pivot-mounted upper machine part	45-90-45-30°	45-90-45-30°	45-90-45-30°
Total engine capacity	1.6/2.1 kW	1.9/2.6 kW	1.9/2.6 kW
Weight (kg)	250	400	420
Length x width x height	700 x 700 x 1600 mm	800 x 850 x 1900 mm	800 x 850 x 1900 mm

Prod. group



VS 350 HA
Model VS 350 HA

Underfloor lightweight metal circular saw manual version

Application:

Manual undertable mitre saw for aluminium and plastic. For universal use in workshops and on construction sites.

Execution:

- manual version
- vertical material clamping from above

- clamping of material on right and left of saw blade
- material quick-action chuck device using cam
- mitre setting on the right and left up to 45°
- manual saw blade feed
- carry handles for mobile use
- including lightweight longitudinal stop
- includes manual sprayer

Model	LS 300 M
Max. machining cross-section, round, at 90° (mm)	100
Max. machining cross-section, rectangular, at 90°	50 x 160 mm
Max. machining cross-section, round, at 45° (mm)	80
Max. machining cross-section, rectangular, at 45°	50 x 100 mm
Saw blade Ø (mm)	300
Bore Ø (mm)	40
Adjustable sawblade speed	3000
Pivot-mounted upper machine part	45-90-45°
Motor output (kW)	1.5
Weight (kg)	65
Length x width x height	600 x 450 x 550 mm

Prod. group



Image with option



Aluminium circular saws AL

manual version

Application:

Fast-running precision circular mitre saw for non-ferrous metals and plastics.

Execution:

- manual version
- bench model
- cooling system with minimal lubrication
- 2 manual vices
- pulse switch on hand lever
- emergency stop palm button

- chip collection tray and chip container

- available at extra cost: accessories such as spray system, roller conveyors or pneumatic clamping system

Advantage:

- versatile, powerful production saw
- fast-running, rotation speeds up to 2800 rpm
- mitre cuts up to 45° possible
- free demo service available

Model	AL 350	AL 380
Max. machining cross-section, round, at 90° (mm)	120	140
Max. machining cross-section, rectangular, at 90°	150 x 80 mm	165 x 80 mm
Max. machining cross-section, round, at 45° (mm)	110	120
Max. machining cross-section, rectangular, at 45°	110 x 80 mm	120 x 70 mm
Saw blade Ø (mm)	350	380
Bore Ø (mm)	40	40
Adjustable sawblade speed	1400 2800	2600
Total engine capacity	1.85/2.5 kW	3/3 kW

Prod. group



AL 350



Circular mitre saw S 225

manual version

Application:

Portable, compact saw for cutting steel, stainless steel and non-ferrous metals.

Execution:

- manual version
- bench model
- cooling system with minimal lubrication
- hand vice

- pulse switch on hand lever
- motor protection main switch

Advantage:

- versatile, compact circular mitre saw
- mitre cuts up to 60° possible
- free demo service available

Model	S 225
Max. machining cross-section, round, at 90° (mm)	70
Max. machining cross-section, rectangular, at 90°	80 x 50 mm
Max. machining cross-section, round, at 45° (mm)	64
Max. machining cross-section, rectangular, at 45°	60 x 50 mm
Saw blade Ø (mm)	225
Bore Ø (mm)	32
Adjustable sawblade speed	42 56
Motor output (kW)	0.8
Optional total motor capacity	0.8/1.2 kW

Prod. group



Pipe and steel section circular saws

manual version

Application:

Compact and powerful mitre saw for cutting stainless steel, steel and non-ferrous metals.

Execution:

- manual version
- cooling system (membrane pump)
- emergency stop switch
- available at extra cost: accessories such as spray system or pneumatic clamping system
- H 250, H 300:

- bench model
- manual vice with brace

H 350:

- free-standing model with closed floor unit
- manual vice with quick-action clamping lever and brace

Advantage:

- versatile, powerful production saw
- mitre cuts up to 45° possible
- free demo service available



H 250



H 300



H 350

Model	H 250	H 300	H 350
Max. machining cross-section, round, at 90° (mm)	80	95	120
Max. machining cross-section, rectangular, at 90°	110 x 50 mm	145 x 60 mm	160 x 70 mm
Max. machining cross-section, round, at 45° (mm)	75	90	105
Max. machining cross-section, rectangular, at 45°	70 x 50 mm	110 x 60 mm	110 x 70 mm
Saw blade Ø (mm)	250	315	350
Bore Ø (mm)	40	40	40
Adjustable sawblade speed	50 100	44 88	44 88
Total engine capacity	0.8 / 1.2 kW	1.1 / 1.4 kW	1.8 / 2.2 kW

Prod. group

HEMA Metal bandsaws BB-series power supply 400 V

Application:

The BB models feature different cutting speeds, which means they can be used for virtually any material. Be it tool steel, structural steel or stainless steel, aluminium, copper, brass or plastics such as polyamide.

Execution:

- closed, stable machine housing in stand-LEFT design

- safety guard protected by limit switch
- swivel-mounted grey cast iron table (up to 45°)
- aluminium cast wheels with vulcanised and ground linings
- precision cemented carbide guide, for high loads
- vibration-damping wheel suspension
- gearbox motor with 2 speeds
- runs extremely quiet

Model	BB 315/M	BB 315/3M
Max. cutting height (mm)	205	250
Max. cutting width (mm)	295	600
Clamping area	450 x 450 mm	450 x 820 mm
Roll Ø (mm)	315	315
Total engine capacity	0.55/0.88 kW	0.55/0.88 kW

Prod. group



BB 315/3M
Image with optional floor unit

Mössner Steel and metal bandsaws SM-series power supply 400 V

Application:

The solid and powerful band saws are used in the most versatile of applications in all industry sectors. The heavy-duty and low-vibration design ensures smooth operation and durability of these machines. The band saws are designed according to EU standard and have the CE certificate.

Execution:

- band saw stand in robust grey cast iron construction/steel construction
- infinitely variable via gearboxes, frequency inverters and three-phase motors

- saw band tension indicator
- tilting workbench
- replaceable aluminium running wheels with vulcanised hard rubber coating
- swivelling upper running wheel
- complete electric design in accordance with VDE
- position switch for securing safety guards
- saw band guide with jaws or rollers
- 1 bimetal saw band and 1 set of operating keys

Model	SM 320	SM 420
Max. cutting height (mm)	170	230
Max. cutting width (mm)	310	410
Roll Ø (mm)	320	420
Projection at width (mm)	310	410
Projection at height (mm)	170	230
Clamping area	500 x 500 mm	600 x 600 mm
Total engine capacity	0.9 / 1.3 kW	1.1 / 1.7 kW
Weight (kg)	470	590

Prod. group



SM 320
Image with options



Steel and metal bandsaw SSF-series

as model SM 320 and 420, however with adjustable cutting speed

Application:

The solid and powerful band saws are used in the most versatile of applications in all industry sectors. The heavy-duty and low-vibration design ensures smooth operation and durability of these machines. The band saws are designed according to EU standard and have the CE certificate.

Execution:

- band saw stand in robust grey cast iron construction/steel construction
- infinitely variable via gearboxes, frequency inverters and three-phase motors

- saw band tension indicator
- tilting workbench
- replaceable aluminium running wheels with vulcanised hard rubber coating
- swivelling upper running wheel
- complete electric design in accordance with VDE
- position switch for securing safety guards
- saw band guide with jaws or rollers
- 1 bimetal saw band and 1 set of operating keys

Model	SSF 420	SSF 520
Max. cutting height (mm)	230	520
Max. cutting width (mm)	410	510
Roll Ø (mm)	420	520
Projection at width (mm)	410	510
Projection at height (mm)	230	520
Clamping area	600 x 600 mm	785 x 740 mm
Min./max. cutting speed	12-2000 m/min	22-2280 m/min
Motor output (kW)	2.2	5.5
Weight (kg)	680	1100

Prod. group



SSF 420
Image with options



Twist drill sharpener V 391

Grinding range Ø 3-19 mm

Application:

Economical and practical regrinding solution for simple trade and industrial requirements. With cam-controlled chuck for excellent conical grinding with cross thinning

Execution:

- motor 230 V/3.0 A/50 Hz

- rotation speed: 2850 rpm
- extremely simple drill positioning
- adjustable tip angle 118-140°
- thinning in one clamping operation
- infinitely variable relief grinding
- with CBN sanding disc

Model	V 391
Min./max. sanding area	3-19 mm
Min./max. point angle	118-140 Degree
Length x width x height	300 x 280 x 230 mm
Weight (kg)	8.2

Prod. group



Image with options



Twist drill sharpener XT 3000

Grinding range Ø 3-21 mm

Application:

With practical quick-change system, a particularly powerful regrinding solution for twist drills, NC spotting drills, conical countersinks and stepped drill bits. An excellent grinding centre with floor unit and suction system options

Execution:

- motor 230 V/3.0 A/50 Hz

- rotation speed: 2850 rpm
- infinitely variable change to tip angle of 118°-150° without changing discs (90° option)
- precise grinding in one clamping
- 2 high-quality CBN sanding discs
- 1 x 6-jaw precision chuck for 3-12 mm diameter
- 1 x 6-jaw precision chuck for 12-21 mm diameter

Model	XT 3000
Min./max. sanding area	3-21 mm
Min./max. point angle	118-150 Degree
Length x width x height	410 x 410 x 260 mm
Weight (kg)	25

Prod. group



Image with options

CUBCHI Twist drill sharpener Micra 10 Integral

Grinding range Ø 0.5-16 mm, option to Ø 20 mm

Application:

This machine produces four-surface grinding, which is recommended for narrow bore tolerances in particular. Even twist drills with standard shanks can be clamped securely. This particular type of grinding is also increasingly used with solid carbide drills.

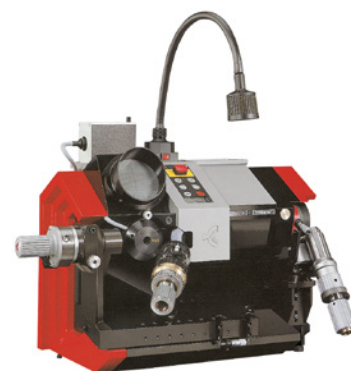
Execution:

- tip angle of 80°-180° for drills with 2 and 3 cutting edges
- clearance angle can be adjusted between 0°-18°
- adjustable pointed angle between -40° and +10°

- universal collet with 4 tensioning pins 0.5-6.35 mm
- 1 set of collet chucks 6-16 mm (10x) with associated chuck
- centring socket to hold twist drills with Morse taper no. 1, 2, 3 and 4
- micrometer screw stop for thinning
- projector with 15x zoom including cold light source
- 4 sanding disc flanges, 1 CBN thinning sanding disc, 3 sanding discs (grain 60, 100, 220)
- sanding disc dressing tool with diamond, 0.5 carat

Model	Micra 10 Integral
Min./max. sanding area	0.5-16 mm
Min./max. point angle	80-180 Degree
Length x width x height	680 x 500 x 520 mm
Weight (kg)	57

Prod. group



MICRA 10 INTEGRAL

CUBCHI Twist drill grinding machine APE 40

Grinding range Ø 2-40 mm

Application:

This model creates excellent conical grinding with extremely low cutting impact so that even closely toleranced drill holes can be created with larger drills. Also available as an automatic machine.

Execution:

- tip angle of 40-180° for left-cutting or right-cutting tools with 1-12 cutting edges
- 6-jaw precision chuck
- 4-part set of cam discs for right-cutting tools with 1, 2, 3, 4, 6 cutting edges

- Morse taper no. 1, 2, 3 and 4
- integrated cooling system
- pointed device for cross grinding and standard web thinning
- Sanding disc Tyrolit 89A60J5AV217 200 x 25 x 32 grain 60
- cup sanding disc 125 x 13 x 20 for thinning with electric drive
- sanding disc dressing tool with diamond, 0.5 carat
- halogen bulb

Model	APE 40
Min./max. sanding area	2-40 mm
Min./max. point angle	40-180 Degree
Length x width x height	840 x 820 x 1200 mm
Weight (kg)	170

Prod. group



APE 40

Engraver's milling cutter FSS

Grinding range Ø 3-20 mm

Application:

The FSS is a proven model, and its simple, robust machine design guarantees long-term precision. The excellent precision and handling of this model have proven themselves over several decades in extreme workshop applications.

Execution:

- robust drive
- precise grinding spindle
- integrated dressing unit

- easy handling
- variety of grinding options
- e.g.: single-lip milling cutter – in wide variety of forms
- Twist drill 3-20 mm diameter, stamp up to max. 25 mm diameter
- ejector pins, tracer pins, electrodes
- cemented carbide blade, flat and round, turning and shaping steels

Model	FSS
Max. relief angle (Degree)	45
Max. grinding radius (mm)	20
Max. collet chuck Ø (mm)	18
Rotation speed (U/min(rpm))	4600
Max. fine adjustment of tool carrier (mm)	10
Max. movement of tool carrier (mm)	120
Adjust travel of tool clamping unit (mm)	35
Adjustment travel of transverse carriage (mm)	30
Length x width x height	500 x 500 x 300 mm
Weight (kg)	32

Prod. group





Steel grinding and lapping machine

Table-top or stand version

Application:

For rough and fine grinding of lathe chisels and reversible tips.

Execution:

- protective cover
- clamping flange for diamond discs or, alternatively, for ceramic discs with 125 mm diameter
- Support table ATS (ST1 = 1 table, ST2 = 2 tables)
- spring table ATS: can be adjusted axially and locked into position, infinitely variable adjustment of the table tilt with threaded spindle from -5 to +15 degrees, with scale and clamping lever. This

table also features a locking lever, which prevents lateral movement. The table therefore becomes rigid if required, such as during radius grinding. The milled T-groove is used to guide an angle stop, which can be supplied as an optional accessory. This groove enables the required angle of the tool to the sanding disc to be easily maintained during the grinding process.

Notes:

The grinding motor comes with a reversing switch for clockwise/anti-clockwise rotation.

Model	ST 1/125	ST 2/125
Grinding wheel dimensions	125 x 22 x 32 mm	125 x 22 x 32 mm
Diamond grinding wheel dimensions	96 x 14 mm	96 x 14 mm
Rotation speed (U/min(rpm))	2900	2900
Motor output (kW)	0.37	0.37

Prod. group



ST 1-125
In bench version; image with options



ST 2-125
Image with options



Double-ended grinding machine

Table-top or stand version

Application:

The classic quality machine for grinding and sharpening workpieces for your workshop. As a bench model, with stand without suction system or stand with suction system (both available as an option).

Execution:

- smooth-running, maintenance-free motor

Model	TS 200 SD P
Grinding wheel dimensions	200 x 32 x 32 mm
Rotation speed (U/min(rpm))	2550
Motor output (kW)	1
Weight (kg)	20

Prod. group

- protective cover closed on the side
- sturdy and adjustable workpiece support
- motor protection switch and undervoltage circuit breaker
- stand with or without dust suction system available as an option



TS 200 SD P



Electric double-ended grinders

Table-top or stand version

Application:

The DS machine series offers a complete range of machines for the most varied of grinding and sharpening applications. Machines with 150-mm to 200-mm grinding disc diameters are also available as alternate current machines.

Execution:

- Model DS 12/200-DS 15/300: The machines are delivered as a bench-mounted model or a free-standing model with integrated water immersion tank. Included in standard accessories: sanding discs (synthetic corundum), protective covers,

workpiece supports. The machines can also be delivered with eye protection shields.

- Model DS 12/200A-DS 15/300A: The DS series workshop grinding machine, with a suction system integrated in the machine stand, is characterised by its compact design. Any resulting coarse sanding dust is pre-cleaned by a water pre-separator and filtered effectively by a downstream pre-filter and post-filter. Pre-cleaning the sanding dust guarantees a long service life for the filter elements.



DS 12/200
Table version

Model	DS 12/200	DS 12/250	DS 12/300
Grinding wheel dimensions	200 x 32 x 51 mm	250 x 32 x 51 mm	300 x 40 x 76 mm
Rotation speed (U/min(rpm))	2900	1450	1450
Motor output (kW)	0.9	0.73	1.1
Weight (kg)	40	47	80

Prod. group

Arbour presses

subframe option

Application:

Arbour presses are invaluable for driving in and driving out arbours, spindles, pins etc. They are also essential in the CIM age for mechanical workshops

and repair shops. The arbour presses are designed to be mounted on a workbench. Sizes 2, 3 A and 3 B are available with an underframe, which allows vibration-proof work processes.

Execution:

- for mounting on a workbench
- **1633-6, 1633-7, ZM1633-8:** with underframe (optional)



1633-4
Size 0



1633-5
Size 1



1633-6
Size 2



1633-7
Size 3 A



ZM1633-8
Size 3 B



Frame for arbour press

Model	Size 0	Size 1	Size 2	Size 3A	Size 3B
Max. Ø of workpiece (mm)	180	200	320	450	450
Throat depth to centre of spindle (mm)	100	104	164	230	230
Max. distance between table and rack (mm)	110	200	300	400	400
Slot widths of support table	10 mm 15 mm 20 mm 25 mm	10 mm 15 mm 22 mm 30 mm	15 mm 25 mm 35 mm 50 mm	25 mm 45 mm 65 mm 85 mm	25 mm 45 mm 65 mm 85 mm
Pusher rod Ø (mm)	28	36	42	48	48
Cast iron body height (mm)	260	400	545	700	700
Compressive force (kN)	3.5	5	7	8	8
Width x depth	195 x 130 mm	277 x 172 mm	358 x 198 mm	480 x 250 mm	480 x 250 mm
Weight (kg)	11	25	42	92	96
Weight of base frame (kg)	-	-	55	55	55

Prod. group

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