

# PERLES

General catalogue 2014



# Icons

## Advantages



## Features

	New product		1-13 Keyed chuck 1-13		30° Bevel depth
	Weight		1-16 Keyed chuck 1-16		45° Bevel depth
	Diamond tools		1-13 Keyless chuck 1-13		Cutting angle
	Carton box		1-13 Self-tightening keyless chuck		Planner width
	Plastic case		Punching in steel		Cutting depth 90°
	Metal case		Punching in aluminium		Cutting depth 45°
	Electronic tachometer		Cutting in steel		Belt size
	Accessories		Cutting in aluminium		Connection
	Made in Germany		Movable guard		Quality test price

## Innovations & Perles solutions



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# Choose the right power tool

	Electrician	Plumber	Tiler	Builder/ plasterer	Painter	Carpenter/ roofer	Tool maker	Varnisher	Steel and metal construction	Basic construction	Drilling	PAGE
<b>Percussion drills</b>												
PSB 9-713	✓	✓								✓	✓	12
PSB 9-713S	✓	✓								✓	✓	12
PSB 9-1013	✓	✓								✓	✓	12
PSB 9-1013S	✓	✓								✓	✓	12
PSB 9-1213	✓	✓								✓	✓	12
PSB 9-1213S	✓	✓								✓	✓	12
PSB 9-1213SS	✓	✓								✓	✓	12
PSB 9-1216	✓	✓								✓	✓	12
PSB 9D-1213	✓	✓								✓	✓	14
PSB 9D-1213S	✓	✓								✓	✓	14
<b>Cordless drills</b>												
HB 6182-14LT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15
HB 6142-14LT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15
<b>Precision drills</b>												
B 9-710		✓					✓		✓		✓	16
PB 9-1013		✓					✓		✓		✓	16
PB 9D-1216		✓					✓		✓		✓	16
<b>High torque drill</b>												
PB 9-713 HTS						✓				✓	✓	18
<b>Magnetic drilling machines</b>												
MBB 32 LT									✓		✓	20
MB 823									✓		✓	20
MB 832									✓		✓	20
<b>Industrial drills</b>												
PB 1223									✓		✓	21
PB 1232									✓		✓	21
<b>Diamond drilling machines</b>												
Wet diamond drill B9W-7	✓	✓	✓								✓	22
Dry diamond drill B9D-12	✓	✓	✓								✓	23
<b>Mixers</b>												
PM 6-100 E			✓	✓	✓							24
ME 1250			✓	✓	✓							24
<b>One hand angle grinders</b>												
HSW 715	✓	✓	✓	✓		✓	✓		✓	✓		29
HSW 725	✓	✓	✓	✓		✓	✓		✓	✓		29
HSW 3115	✓	✓	✓	✓		✓	✓		✓	✓		28
HSW 3125	✓	✓	✓	✓		✓	✓		✓	✓		28
HSW3125 CE	✓	✓	✓	✓		✓	✓		✓	✓		28
HSW 3125 RE	✓	✓	✓	✓		✓	✓		✓	✓		28
HSW 3125 CET	✓	✓	✓	✓		✓	✓		✓	✓		28
<b>Angle grinders</b>												
HSW 1-6216EK	✓	✓	✓	✓		✓	✓		✓	✓		31
HSW 1-6246 EK <small>New</small>	✓	✓	✓	✓		✓	✓		✓	✓		31
HSW 1-6248 EK <small>New</small>	✓	✓	✓	✓		✓	✓		✓	✓		31
HSW 6256 EK	✓	✓	✓	✓		✓	✓		✓	✓		30
HSW 6276 CEK	✓	✓	✓	✓		✓	✓		✓	✓		30
<b>Concrete grinders</b>												
DBS 125			✓	✓						✓		32
DBS 125-20			✓	✓						✓		32
DBS 180			✓	✓						✓		32
<b>Tile core drill</b>												
WFB 3140 RE <small>New</small>	✓	✓	✓	✓		✓				✓	✓	34
<b>Wall chaser</b>												
WSF 2360	✓	✓								✓		35

	Electrician	Plumber	Tiler	Builder/ plasterer	Painter	Carpenter/ roofer	Tool maker	Varnisher	Steel and metal construction	Basic construction	Drilling	PAGE
<b>Angle polishers</b>												
UP 3142 RE						✓		✓				36
UP 4162 REK						✓		✓				36
<b>Die grinders</b>												
HSG 18						✓			✓			42
HSG 18 RE						✓			✓			42
<b>Sheet metal nibbler</b>												
BN 18						✓			✓			43
<b>Sheet metal shears</b>												
BS 18						✓			✓			43
<b>Portable chamfering machines</b>												
MF 1225 RE (30°)							✓		✓			44
MF 1225 RE (45°)							✓		✓			44
MF 2370E							✓		✓			45
<b>Metal cut-off saw</b>												
TSP-1 355		✓							✓			46
<b>Circular saws</b>												
KS 51						✓				✓		49
KS 55						✓				✓		48
KS 170						✓				✓		49
<b>Mitre saw</b>												
TKS 1612						✓				✓		50
<b>Planer and Belt sander</b>												
HOB 882						✓				✓		51
BSC 2-675						✓				✓		51
<b>Plunge routers</b>												
OF 3-808						✓				✓		52
OF 3-808RE						✓				✓		52
OF 9						✓				✓		53
OF 9E						✓				✓		53
<b>Flexible shaft vibrator</b>												
TBR 20										✓		56
<b>Pokers for flexible shaft vibrator</b>												
AMX1-25/4										✓		56
AMX1-34/4										✓		56
AMX1-43/4										✓		56
AMX1-50/4										✓		56
<b>Frequency converters</b>												
CAF 1-150 M										✓		57
CAF1-250M										✓		57
CAF 1-300T										✓		57
CAF 1-500T										✓		57
<b>High frequency generators</b>												
GAF1-1500H										✓		58
GAF1-2500H										✓		58
<b>High frequency vibration pokers</b>												
AV1-500 H										✓		59
AV1-500HD										✓		59
AV1-500HDRC										✓		59
AV1-600HD										✓		59
AV1-600HDRC										✓		59
AV1-700HD										✓		59
AV1-700HDRC										✓		59
<b>Electronic vibration pokers</b>												
EFC1-01										✓		60
EVP1-380TP										✓		60
EVP1-500TP										✓		60
EVP1-600TP										✓		60
EVP1-700 TP										✓		60

# Partner to Professionals since 1936

**1936** Establishment of the company PERLES by Rudolf Weber in Pieterlen, Switzerland.

**1951** Perles is the first company in the world to develop a **HIGH SPEED angle grinder**.

**1960** Merger with the company Iskra, Kranj, a Slovene manufacturer of professional power tools.

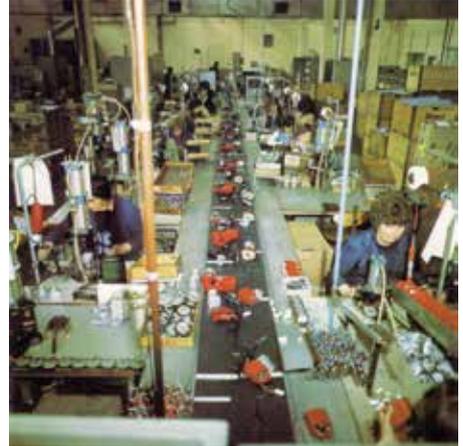
Development and production of the **first double-insulated industrial drills**.

**1970** Production of **professional tools for metal processing**.

**1964** Model: EVS-06/II  
**Industrial design award LGA-Zentrum Form, Stuttgart.**



**1971**



**1976** Establishment of the company in Ecuador.

**1982** Perles moves its entire **production to Slovenia**.

**1954**



**1965**



**1970**



**1960**



**1974**



**1965**



1990



**2000** Development of **first portable mixers** on the market in cooperation with a business partner – a milestone in the development and shape of mixers.

**2001** Portable mixers win the **iF Design Award**.

**2002** Development of the **most powerful angle grinder** (2700W) on the market.

**2008** Industrial designer Ernest Bevc wins a **Designer of the Year Award** for PSB 9 drills.



**2012** **Perles Innovation** – patented Perles clutch – extends the lifespan of drills up to five times.

**TODAY** Our activities are aimed at the development of **specialized tools** for construction and metal-working industry. We are a part of a strong group performing in the professional construction sector. We are proud that we do not offer only tools to our users, but also integral solutions.

1960



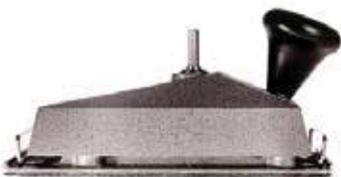
1967



1972



1962



1979



2012



# Sharp ideas generate sharp tools

Every business relationship must be built on trust and therefore we have been bound to top quality and perfection in the relationship with our partners ever since 1936. We started in Switzerland, however, today the product development and production takes place in the city of Kranj, Slovenia.

Today, only those people are successful who try hard to get to the bottom of matters; those who dig into a problem until they solve it and those who continuously create sharp ideas. And only people can have ideas. Therefore, we at Perles are aware of the fact that people are the biggest capital of a company. We are aware that success demands constant education of our employees as only this way we can be prepared for every day's changes in technology and in the market place.

We develop and create solutions which meet requirements of our most demanding costumers. Each of our products represents a symbiosis of first-quality materials, ergonomic design and top European technology. Therefore, it is not unusual that Perles trademark has been a synonym for exceptional quality for more than 70 years. Our tradition binds us to top quality and excellence in the relationship with our partners.



## Professionals have smooth taste for the best

Therefore, we want to be partners to professionals in industry and crafts. Our main principle is not only to offer tools, but integral solutions.

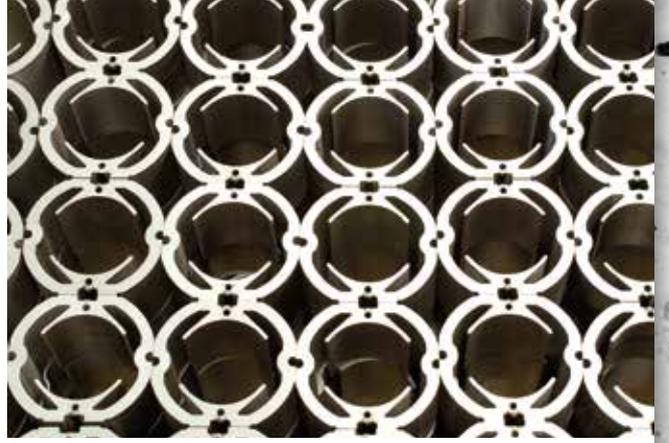
High degree of development and technological knowledge, industrial know-how, knowledge of the situation on global markets as well as great loyalty of employees enable us to do this. Demands of our customers and their success are our basic motivation.

Our production orientation could in short be named as professional tools for professional users. Thereby we lay the greatest stress on ergonomics, practicability, technical perfection and strict selection of the materials we use. Besides careful planning, production and careful selection of distributors, who have specific knowledge for selling our tools, we also pay great attention to the after-sales service.

## A good tool should not distract you from your work, but should allow you to rely on it

Nobody wants that anything would distract them from the optimal working process. Therefore, for each good power tool there should always be a quick and quality after-sales service at hand. We have more than 80 registered after-sales services all over the world.

Our after-sales services fulfil all standards and our service agents are verified for repairing tools. We do not repair tools only in the warranty period, but we also offer our customers economical repair after the warranty has expired. Thereby we wish to fulfil every demand for a professional and quick service due to which you will have your tool always at hand. We have a good and widely organized network of after-sales service agents, and only experienced experts take care of our tools.



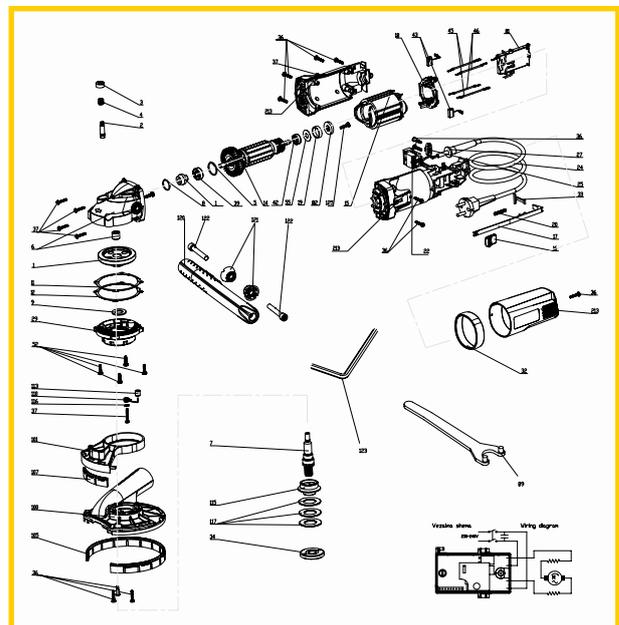
# After-sales network



We have over 80 registered after-sales services all over the world. You can find a list of registered services on our website [www.perles.com](http://www.perles.com), where you can also find the service application forms.

## 3-year warranty

All Perles products have a **3-year warranty**, which can be claimed by registering on our website [www.perles.com](http://www.perles.com).



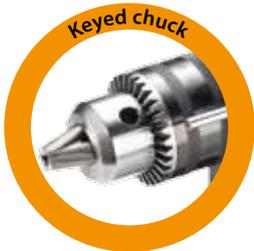
# Drilling & mixing



# Percussion drills



**Aluminium alloy gear housing**  
Optimum impact performance and a long lifetime



Keyed chuck



Keyless chuck "S"



Self-tightening keyless chuck "SS"

**2 mechanical gears**  
Optimum adaptation of the speed and torque drilling requirements

**Spindle lock**  
For quick, easy and secure accessory exchanges in a case of keyless chuck

**Durable motor**  
Durable electromotor with dust protection of the motor winding

**Rubber coating of the main handle**  
Very good grip of the machine

**Top quality rubber cord**  
**Made in the EU**, long service life even in increasing number of bending/folding



**Safety clutch**  
Protects the user from injury and power tool from overloading



**Optimal speed control**  
Electronic switch with stepped thumbwheel



**Long service life and higher motor power**  
Reverse rotation via rotating carbon brushes for direction change

## Percussion drills PSB 9 and PSB 9D:

- Large range of different power for different uses
- Variable speed control for precise work for different applications
- Electronic switch with adjustable speed
- Spindle lock for quick exchanges of accessories in a case of keyless chuck (models "S" and "SS")
- Safety clutch that protects the user from injury and power tool from overloading (all models except PSB 9-713 and PSB9-713S)

## Standard equipment:

- Side handle with depth gauge

**Optional accessories p. 25**



Model		PSB 9-713	PSB 9-713S	PSB 9-1013	PSB 9-1013S
Rated power	W	750		1,050	
No load speed 1st gear	min <sup>-1</sup>	0-1,200		0-1,500	
No load speed 2nd gear	min <sup>-1</sup>	0-3,200		0-3,500	
Left-right rotation		✓		✓	
Impact rate 1st rate	min <sup>-1</sup>	0-22,800		0-28,500	
Impact rate 2nd rate	min <sup>-1</sup>	0-60,800		0-66,500	
Drill chuck	Ø mm	 1-13	 1-13	 1-13	 1-13
Drilling capacities	steel	Ø mm	13	16	
	concrete	Ø mm	20	20	
	in wood	Ø mm	40	40	
Max. torque 1st gear	Nm	39.2		49.6	
Max. torque 2nd gear	Nm	14.4		20.8	
Safety clutch		/		✓	
Weight	kg	2.5		2.9	2.8
Code		010 004 917	010 004 874	010 004 916	010 004 931
Packaging		 PVC		 PVC	



Model		PSB 9-1213	PSB 9-1213S	PSB 9-1213 SS	PSB 9-1216
Rated power	W	1,200		1,200	
No load speed 1st gear	min <sup>-1</sup>	0-1,600		0-1,600	
No load speed 2nd gear	min <sup>-1</sup>	0-3,700		0-3,700	
Left-right rotation		✓		✓	
Impact rate 1st rate	min <sup>-1</sup>	0-30,400		0-30,400	
Impact rate 2nd rate	min <sup>-1</sup>	0-70,300		0-70,300	
Drill chuck	Ø mm	 1-13	 1-13	 1-13	 1-16
Drilling capacities	steel	Ø mm	16	16	
	concrete	Ø mm	20	20	
	in wood	Ø mm	45	45	
Max. torque 1st gear	Nm	48		48	
Max. torque 2nd gear	Nm	20.8		20.8	
Safety clutch		✓		✓	
Weight	kg	3.0	2.9	3.1	3.35
Code		010 004 921	010 004 875	010 004 938	010 004 939
Packaging		 PVC		 PVC	



## PERCUSSION DRILLS



### Drills PSB 9D:

- "D" handle for improved comfort and grip
- Suitable for diamond core bits up to 152 mm

### Standard equipment:

- Side handle with depth gauge

Optional accessories p. 25

Model		PSB 9D-1213	PSB 9D-1213S
Rated power	W	1,200	
No load speed 1st gear	min <sup>-1</sup>	0-1,100	
No load speed 2nd gear	min <sup>-1</sup>	0-2,100	
Left-right rotation		✓	
Impact rate 1st rate	min <sup>-1</sup>	20,900	
Impact rate 2nd rate	min <sup>-1</sup>	39,900	
Drill chuck	Ø mm	1-13	1-13
Drilling capacities	steel	Ø mm	16
	concrete	Ø mm	35
	in wood	Ø mm	50
Max. torque 1st gear	Nm	69.8	
Max. torque 2nd gear	Nm	34.3	
Weight	kg	3.3	3.2
Safety clutch		✓	
Code		010 004 876	010 004 974
Packaging			



# Cordless drills

## CORDLESS DRILL HB 6182-14LT



18 V 1.25 kg

## CORDLESS DRILL HB 6142-14LT



14.4 V 1.2 kg



### Cordless drills HB:

- Light, compact and ergonomic design
- Li-ion technology provides long use
- "Auto-lock" spindle locking system
- Electronic switch with precise speed adjustment and electric brake
- 18 stage torque adjustment
- Rubber lining on the handle for a reliable and firm grip
- Additional lamp illuminates the working area



### Standard equipment:

- 2 batteries 1.4 Ah (Li-ion), charger

Model		HB 6142-14LT	HB 6182-14LT
Voltage	V	14	18
No load speed 1st	Min <sup>-1</sup>	0-420	0-430
No load speed 2nd gear	rpm <sup>-1</sup>	0-1550	0-1600
Max. torque	Nm	35	40
Chuck	Ø mm	0.8-10	0.8-10
Automatic spindle lock		✓	✓
Max. drilling in steel	Ø mm	10	10
Max. drilling in wood	Ø mm	15	25
Max. diameter of wood screw	Ø mm	5	6
Max. diameter of metrical screw	Ø mm	6	8
Charging time	h	1	1
Battery capacity	Ah	1.4	1.4
Weight	kg	1.20	1.25
Code		010 005 073	010 005 072
Packaging			

Optional accessories p.

# Precision drills



**Special gearbox** construction for precise drilling in a drill stand



**Durable motor**  
Durable electromotor with dust protection of the motor winding

**Ergonomic anti-slip handle**  
Very good grip of the machine

**Precise drilling** of small bores ( $\varnothing$  1-13 mm).

**Top quality rubber cord made in the EU**, long service life even in increasing number of bending/folding



**Fully supported spindle** allows repeated accurate use in a drill stand where high axial load is present



**Optimal speed control**  
Electronic switch with stepped thumbwheel



**Long service life and higher motor power**  
Reverse rotation via rotating carbon brushes for direction change





Model		B 9-710	PB 9-1013	PB 9D-1216
Rated power	W	750	1,050	1,200
No load speed 1st gear	min <sup>-1</sup>	0-3,200	0-1,500	0-1,100
No load speed 2nd gear	min <sup>-1</sup>	-	0-3,500	0-2,200
Left-right rotation		✓	✓	✓
Drill chuck	Ø mm	 1-13	 1-13	 1-16
Drilling capacities in steel	Ø mm	10	16	16
Drilling capacities in wood	Ø mm	25	40	50
Max. torque	Nm	14.4	49.6	69.8
Max. torque 2nd gear	Nm	-	20.8	34.3
Weight	kg	1.6	2.9	3.5
Safety clutch		/	✓	✓
Code		010 005 045	010 005 153	010 004 877
Packaging		 PVC	 PVC	

### Precision drills:

- Designed for precise drilling in **metals, wood and plastics**
- Safety clutch (except model PB 9-713) protects the user and the power tool against overloading
- Single speed (B 9-710)
- Variable speed control
- "D" handle for improved comfort and grip (model PB 9D-1216)
- Specially designed and developed for users in:
  - **Car industry:** manufacture of truck build-ups (preparation of rivets)

- **Metal industry:** bores for threads of smaller diameters (M3-M6), pre-drilling for larger diameters, reaming, roofers: for drilling bores for screws, tightening and loosening screws

### Standard equipment:

- Side handle with depth gauge



# High-torque drill



## Additional anti-vibration handle

Up to 80 % vibration removal through ergonomically designed anti-vibration side handle

**Ergonomic and safety side handle** for easier work and better control

## Aluminium alloy gear housing

Optimum impact performance and a long lifetime

## Simple and compact design

for better engine cooling and better protection

**Spindle lock** for easier and faster change of accessories

## Ergonomic anti-slip handle

Very good grip of the machine



Special **design gearbox** to achieve **higher torque** and **longer life** of the machine



## Optimal speed control

Electronic switch with stepped thumbwheel



## Reversible brushes

for equal torque in L/R rotations  
**Cut off brushes** to prevent damage to the rotor





**750 W**   **95/45 Nm**

Model		PB9-713HTS
Rated power	W	750
No load rpm 1st speed	min	475
No load rpm 2nd speed	min	1000
Maximal torque in 1st speed	Nm	95
Maximal torque in 2nd speed	Nm	45
Chuck capacity	mm	13
Weight	kg	2.8
Code		010 005 058
Packaging		

### High-torque drill PB 9-713 HTS:

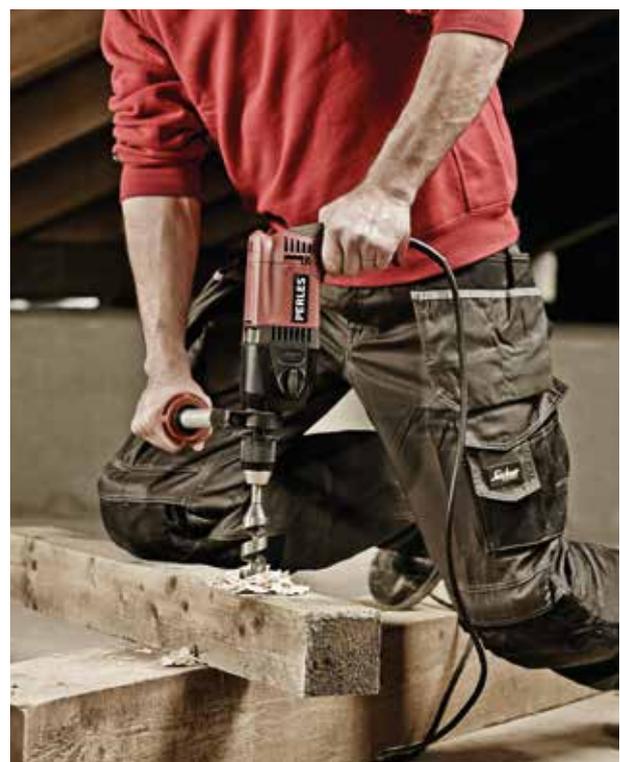
- Perles high-performance motor with high torque for the most heavy-duty applications with large diameter accessory and for screwdriving of wood screws
- Specially designed for **carpenters, roofers and users in metal industry**
- Two speeds for optimal drilling and screwdriving
- Turnable brushes for equal torque in L/R rotations
- Spindle lock for easier and faster change of accessories
- Durable electromotor with dust protection of the motor winding
- Gear housing made of aluminium alloy provides high stiffness and long lifetime
- Variable speed control for precise work for different applications
- 2 mechanical gears for rotation speed and torque adjustment
- Rubber inlay on the main handle for better grip
- Durable rubber cord for long service life

### Standard equipment:

- Side handle

### Applications:

- Drilling in wood with longer **LEVIS drill bits** and with **bigger diameter**
- Drilling in wood with core bits of bigger diameters
- Screwdriving larger and longer wood screws in timbered structures
- Screwdriving turbo bolt with predrilling in concrete bricks, light concrete
- Drilling bigger diameters in steel with HSS



# Magnetic drilling machines and industrial drills

## CORDLESS MAGNETIC DRILL



### Powerful 4-pole motor

Low noise  
High torque  
Temperature protection

### Spindle and shaft guide

Solid spindle  
Integrated cooling ring  
Self-lubricating bearing brush



### Battery

Li-ion technology  
LED capacity indicator  
Easy to replace  
Protection: prevents charge from falling below certain level



### Solid handle

Keeps the tool balanced when being moved

### Rotating arm

High positioning for optimum operation and maximum stroke  
Depth indicator  
Fully chrome

### Easy-to-operate panel

Acoustic and visual safety signal  
Multicolour LEDs  
Acoustic and visual safety signal

### Electromagnet

Integrated magnet sensor

37 V

kg 15 kg

### Cordless Magnetic drill MBB 36 LT:

- **Unique technology** – motor and electromagnet are powered by the same source:  
Depending on diameter, the type of material, and the manner in which the material is drilled, this battery-powered magnetic drilling machine can be used to drill between 16 to 110 holes
- **Total freedom of movement and mobility:**
  - Cordless, ergonomically sound and compact design, extremely light
- **Fully integrated safety system:**
  - The motor will not start without sufficient magnetic force
  - The remaining capacity of the battery is displayed via LED indicators. If the capacity of battery falls to a specific level, the motor will automatically switch off, leaving the machine with enough magnetic force for it to be safely retrieved from the item being worked on

### Standard equipment:

- Battery 37 V, battery charger, gloves, safety goggles, rotating arm, coolant set, coolant spray

Model	MBB 36 LT	
Annular cutters	Ø mm	12-36
Twist drills	Ø mm	1-13
Maximum drill depth	mm	55
Length	mm	297
Width	mm	112
Stroke	mm	420-610
Weight incl. battery	kg	15
Magnet	mm	160 x 80 x 42
Magnetic force	kg	1700
Battery capacity	V/Ah	37/7
Charging time	h	1.5
No load speed (idle)	min <sup>-1</sup>	506
No load speed (in use)	min <sup>-1</sup>	375
Spindle	mm	19.05 Weldon
Code		010 095 145
Packaging		PVC

## MAGNETIC DRILLS

**Magnetic drilling machines MB 823 and MB 832 (magnetic stand + industrial drill PB 1223 or PB 1232)**



1,150 W  13 kg

### Magnetic stand:

- Special chuck for inserting core bits
- Built-in safety features
- Robust electronic switching unit protects the drill from restarting in case of power failure
- Drill can be restarted only when the magnet is switched on
- Specially designed baseplate magnets provide maximum retaining on thin and thick ferrous material
- Built-in power socket for easy drill connection
- Safety belt to protect the stand in case of power failure

### Industrial drills PB 1223 and PB 1232:

- Designed for use in industries and construction
- Efficient drilling of large diameter bores in metals and wood
- Safety overload clutch protects the user from injuries and the power tool from damage
- Morse taper tool/bit holder
- Rigid clamping provides operation in a stand

### Standard equipment for magnetic drilling machines:

- Adapter MK 2/Weldon 19 mm self-lubricating (for model MB 823), adapter MK 3/Weldon 19 mm self-lubricating (for model MB 832), punch for core bits, drill chuck Ø 13 (1/2"), adapter Weldon 19/1/2" x 20 NF, coolant set, safety chain

Model		MB 823	MB 832
<b>MAGNETIC STAND</b>			
Total magnet power	W	110	110
Max. lift	mm	150	150
Magnet retaining force	N	18,500	18,500
Baseplate dimensions	mm	178 x 85	178 x 85
<b>INDUSTRIAL DRILL</b>			
Rated power	W	1,150	1,150
No load speed 1st gear	min <sup>-1</sup>	260	180
No load speed 2nd gear	min <sup>-1</sup>	480	310
Drilling capacities with drill bits	Ø mm	23	32
Drilling capacities with cores	Ø mm	15-40	15-50
Morse taper size		MK 2	MK 3
Total weight (stand + drill)	kg	13	13
Code		010 095 133	010 095 136
Packaging			

### Optional accessories p. 25

## INDUSTRIAL DRILLS



1,150 W  4,6 kg

**PERLES**

### Standard equipment:

- Chuck key, drill chuck Ø 13 mm, adapter MK 2 (for PB 1223), adapter MK 3 (for PB 1232)

Model		PB 1223	PB 1232
Rated power	W	1,150	1,150
No load speed 1st gear	min <sup>-1</sup>	260	180
No load speed 2nd gear	min <sup>-1</sup>	480	310
Drilling capacities with drill bits	Ø mm	23	32
Morse taper size		MK 2	MK 3
Total weight (stand + drill)	kg	4.6	4.6
Code		010 004 980	010 004 981
Packaging			

# Diamond drilling machines

## WET DIAMOND DRILL



**Stainless steel spindle**  
Corrosion free and long life use of the drill

**Guiding system**  
for easy fixing and core positioning

**Water supply control - on/off**  
Stepless quantity control

**Metal gearbox**  
Long life and powerful

**Optimal speed control**  
Electronic switch with stepped thumbwheel for precise drilling starts and fingertip control when working

**Additional handle**  
Side handle with depth stop for easier use of the machine

**PRCD-safety switch**  
FI-protection integrated in the cable

**Long service life and higher motor power**  
Reverse rotation via rotating carbon brushes for direction change

750 W 2.5 kg

### Wet diamond drill B9W-7:

- Extremely fast and accurate **wet drilling in natural stone, tiles, ceramic, porcelain, stoneware, glass, reinforced concrete**
- Blind or through holes for fitting connectors as well as gravestones and worktops
- Anchor holes
- Mounting holes for switches
- Ideal drill for stonemasons, tilers and installation companies
- Adjustable rotation speed for optimal drilling in different materials with different drill diameters
- Wet drilling for low drill bit wear out
- Switch with lock-on button for permanent use
- PRCD-safety switch for FI-protection integrated in the cable
- Stainless steel spindle for corrosion free long life use of the drill
- Additional side handle with depth stop for easier use of the machine
- Adjustable water supply with on/off valve
- Available with adapter 1/2" UNF/R 1/2" and drilling support for easy start

### Standard equipment:

- Core Ø 6 mm, Ø 14 mm (Ø mm CH), adapter 1/2" x 20 UNF/R 1/2, drilling support

Model	B9W-7	
Input power	W	750
Rotation speed	min <sup>-1</sup>	0-8000
Drilling capacity	Ø mm	25
Clamping diameter	mm	43
Spindle connection		1/2"
Weight	kg	2.5
Code		010 005 100
Packaging		

Optional accessories p.

# DRY DIAMOND DRILL



**Metal gearbox**  
Optimum performance and a long lifetime



**Additional anti-vibration handle**  
Up to 80 % vibration removal through ergonomically designed anti-vibration side handle

**Motor**  
Designed for fast and accurate drilling in all building materials

**Ergonomically designed "D" handle with anti-slip grip**

**Closed "D" handle**  
for drilling force transmission to the center of the drill-core



**Adjustable rotation speed**  
Optimal drilling in different materials with different drill diameters



**Long service life and higher motor power**  
Reverse rotation via rotating carbon brushes for direction change

**1200 W** **3.4 kg**

## Dry diamond drill B9D-12:

- Fast and accurate dry drilling up to 82 mm in all building materials, such as: **concrete, masonry, sand-lime bricks, tiles**
- For electrical installation work – socket sinking e.g., switches and sockets
- Dry-drilling machine for use in places where presence of water is not allowed
- Electronic soft start
- Switch with lock-on button for permanent use

## Standard equipment:

- Adapter 1/2" x 20 UNF/M16, core M16/Ø 68, M16/Ø 82, drill bit B10

**Overload clutch** with rotating balls, without any heat rise, protects the user from injury and transmission against breakage, **extremely long lifetime**

Optional accessories p. 25

Model	B9D-12	
Input power	W	1,200
Rotation speed 1st gear	min <sup>-1</sup>	0-1,100
Rotation speed 2nd gear	min <sup>-1</sup>	0-2,300
Drilling capacity	Ø mm	152
Clamping diameter	mm	43
Spindle connection		1/2" x 20 UNF
Weight	kg	3.4
Code		010 005 099
Packaging		



# Mixers

## MIXER PM 6



1,000 W 3.4 kg

## MIXER ME



1,250 W 4.6 kg

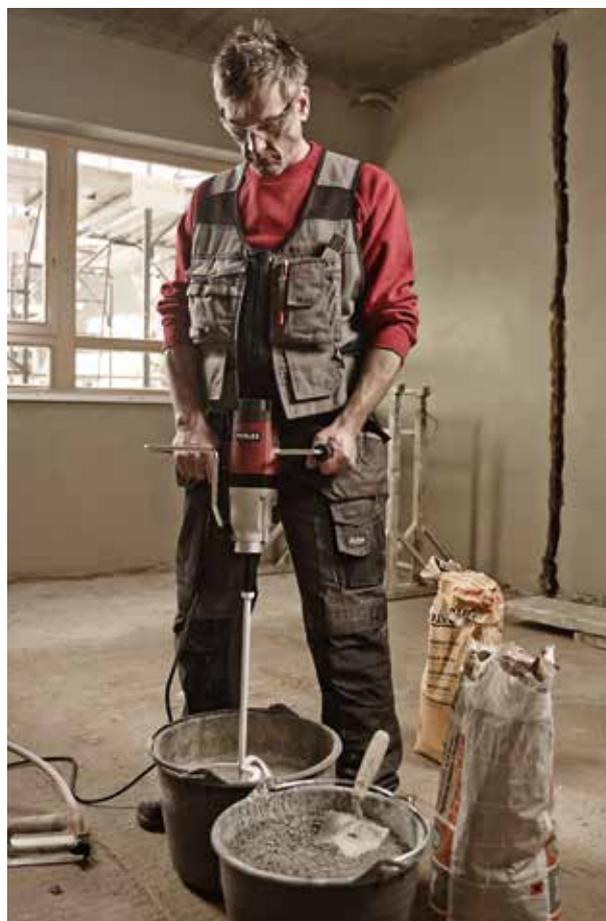
### Mixers:

- Aluminium gear housing for optimal heat dissipation, stability and long service life
- Soft start
- Powerful motor
- Designed for **plasterers, bricklayers, painters and decorators ...**
- Suitable for mortar, plaster, levelling compound, insulating material and other liquid materials, such as paint and varnish
- Ergonomic D-shaped handle for optimal tool guidance (model PM 6-100E)
- Side handle for gripping the tool securely

### Standard equipment:

- Side handle, hexagon key, stirrer (VK 120 for PM 6-1000E and MK 160 for ME 1250E)

Model		PM 6-1000E	ME 1250E
Rated power	W	1,000	1,250
Rated speed 1st gear	min <sup>-1</sup>	0-650	0-170
Rated speed 2nd gear	min <sup>-1</sup>	-	0-340
Max. mixing volume	l	40	90
Stirrer enclosed		✓	✓
Mixer retention		M14	M14
Weight	kg	3.4	4.6
Code		010 009 291	010 009 362
Packaging			



Optional accessories p. 26

# Accessories

## Accessories for percussion drills (page: 12-14)

Model	Code	
Drill chuck Ø 13 mm 1/2" thread	010 075 162	
Drill chuck Ø 13 mm 1/2" thread - keyless	010 075 163	
Drill chuck Ø 16 mm 1/2" thread	010 075 165	
Drill chuck Ø 13 mm 1/2" thread - keyless self-tightening metallic	010 075 697	
Chuck key Ø 10/13 mm	010 075 028	
Chuck key Ø 10/16 mm	010 075 166	

## Accessories for cordless drills (page: 15)

Model	Code	
CERAM-HEX SET Premium - tile drilling kit for dry drilling: Diamond drill bits Ø 6/8/10 mm Drilling support 	010 075 889	
 Ceram-hex	Ø 6 mm	010 075 883
	Ø 8 mm	010 075 884
	Ø 10 mm	010 075 885
	Ø 12 mm	010 075 886
	Ø 14 mm	010 075 887

Model	Code	
Drill guide with vacuum cup, for exact positioning of the drill	010 075 888	

## Accessories for industrial drills (page: 21)

Model	Code	
Adapter MK2 - inner thread M14 (for PB 1223)	010 075 244	
Adapter MK2 5/8" outer thread (for PB 1223)	010 075 414	
Weldon core bit set Cutter Ø 14 mm 2x Ø 18 mm 2x Ø 22 mm 2x Pilot pin (for MB 823/832 & MBB 36 LT)	010 075 914	

## Accessories for wet diamond drill (page: 22)

Model	Code	
 Wet diamond drill bit	Ø 6 -10 mm	10075854
	Ø 8-10 mm	10075855
	Ø 10-10 mm	10075856
	Ø 12 -1/2GF	10075857
	Ø 14 -1/2GF	10075858
	Ø 20 -1/2GF	10075859
	Ø 25 -1/2GF	10075860

## Accessories for dry diamond drill (page: 23)

Model	Code	
Socket drill M16/Ø 68 	010 075 911	
Socket drill M16/Ø 82 	010 075 912	
TC center drill 2 pcs. 6,5 x 70 mm	010 075 914	

**Accessories for mixers** (page: 24)

**Negative flow paddle FM**

The classic paint mixer for versatile DIY and professional use with average machine loads. For paints, lacquers, creamy plaster, thin coating, etc.



Model	Code	Max. mix volume	Length (mm)	Required power
FM 100	010 075 443	10-25	590	700

**Negative flow paddle MK neg**

Rugged professional mixing tool, ideal for liquid and fibrous materials as well as for gypsum plaster. Large volumes possible, without splashing. For high-power machines only.



Model	Code	Max. mix volume	Length (mm)	Required power
MK 120 neg	010 075 744	10-15	590	900
MK 140 neg	010 075 745	25-40	590	1,200
MK 160 neg	010 075 746	30-60	590	1,600

**Positive flow paddle MK**

The particularly rugged professional mixing tool for tough day-to-day building service. 3 mixing blades for fast results with all heavy and highly-viscous materials. It is particularly suitable for all types of mortar, plaster screed, etc.



Model	Code	Max. mix volume	Length (mm)	Required power
MK 120	010 075 467	10-15	590	900
MK 140	010 075 464	25-40	590	900

**Positive flow paddle WK**

Suitable for diverse applications, this mixing tool is notable for very good conveyance of the material. Two mixing helixes for easy guidance in the material and minimal stress on the machine. For all sticky and viscous materials, e.g. tile adhesives, building mortars, thin set, ready-mixed mortars, plasters, fillers, etc.



Model	Code	Max. mix volume	Length (mm)	Required power
WK 120	010 075 465	10-15	590	1000
WK 140	010 075 444	15-30	590	1,200

**Positive Flow Paddle MM**

The optimal mixing tool for small volumes of thin set, ready-mixed mortars and pointing mortars. Notably smooth mixing action makes it ideal for high-speed machines, e.g. power drills.



Model	Code	Max. mix volume	Length (mm)	Required power
MM 115	010 075 186	10-15	590	700

# Grinding & cutting & polishing



# One hand angle grinders

## Aluminium alloy gear housing

Optimum performance for a long lifetime



**Steel milled gears** ensure smoother running and long service even in the most difficult working conditions

## Durable motor

High power of electromotor ensures effective use of grinders

## Reinforced motor housing

Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Top quality rubber cord made in the EU**, long service life even with increased amount of bending/folding

## Ergonomic design

Solid and small gear housing made of aluminium alloy allows better access to hard-to-reach places

Additional rubber coating on the motor housing for better grip

ON/OFF switch can be reached without changing hands on the power tool



360° rotation of the protective shield without the use of additional tools enables rapid adaptation to working



## Anti-vibration side handle

Up to 80 % less vibration through ergonomically designed anti-vibration side handle

Optional accessories p. 37





### One hand angle grinders HSW 3000:

- Adjustable power for different users
- Small angle grinder with great power reserve for the most **demanding works in building industry**, such as **diamond cutting of concrete** and **natural or artificial stone**
- Aluminium gearbox housing ensures higher construction strength
- Improved cooling system enables efficient work even in extreme working conditions
- Anti-vibration handle – mountable in 2 different positions
- Cut-off carbon brushes for protection of the motor
- Spindle lock – easy disc change

### Standard equipment:

- Pin spanner, flange nut, flange, anti-vibration side handle

Model		HSW 3115	HSW 3125	HSW 3125CE	HSW 3125RE	HSW 3125CET
Rated power	W	1,010			1,250	1,400
No load speed	min <sup>-1</sup>	12,000		12,000 Constant electronics	2,500-12,000 Constant electronic + adjustable rotation speed	12,000 Tacho constant electronics
Disc size	mm	115	125		125	125
Spindle		M14			M14	M14
Weight	kg	2.4	2.5		2.5	2.5
Code		010 023 310	010 023 311	010 023 312	010 023 313	010 023 374
Packaging						

## ONE HAND ANGLE GRINDERS



### One hand angle grinders HSW 700:

- The smallest angle grinder provides good ergonomics and light weight due to its solid construction
- Built-in high quality components and high-quality construction provide long service life of the power tool
- Suitable for long-lasting easy works

### Standard equipment:

- Pin spanner, flange nut, flange, side handle

Model		HSW 715	HSW 725
Rated power	W	710	
No load speed	min <sup>-1</sup>	10,000	
Disc size	mm	115	125
Spindle		M14	
Weight	kg	2.4	2.5
Code		010 023 267	010 023 333
Packaging			

# Angle grinders

## Durable motor

High power of electromotor ensures effective use of grinders

## Aluminium alloy gear housing

Optimum performance for a long lifetime

## Steel milled gears

ensure smoother running and long lifetime even in the most difficult working conditions

## Reinforced motor housing

Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Rotating main handle** can be quickly rotated to the left and right side by simply releasing the locking lever



**Top quality rubber cord made in the EU**, long service life even with increased amount of bending/folding

**Electronics** for reduced disc wear and faster cutting by up to 10 % and protection of the user from injuries and the tool from damage



360° rotation of the protective shield without the use of additional tools enables rapid adaptation to working



## Anti-vibration side handle

Up to 80 % vibration removal through ergonomically designed anti-vibration side handle, which can be set in 3 positions: left, right and centre





### Angle grinders HSW 6000 CEK + EK:

- Outstanding power from 2,500 to 2,700 W for fast work progress
- Quick and simple adjustment to working requirements due to top ergonomics and quality production
- Soft start electronics prevent impact when tool is started and protect user from injuries and reduce tool damage
- "CEK" version is equipped with constant electronics that maintain constant speed and efficiency under heavier loads



### Standard equipment:

- Pin spanner, flange nut, flange, anti-vibration side handle

### Optional accessories p. 37

Model		HSW 6256EK	HSW 6276CEK
Rated power	W	2,500	2,700
No load speed	min <sup>-1</sup>	6,500	
Soft start		✓	
Disc size	mm	230	
Spindle		M14	
Weight	kg	5.2	
Code		010 023 184	010 023 186
Packaging			

## ANGLE GRINDERS



### Angle grinders HSW 1-6000 EK:

- Soft start electronics prevent impact when tool is started and protect user from injuries and reduce tool damage
- Durable motor with power reserve
- Steel gear set ensures smoother running and long lifetime

### Standard equipment:

- Pin spanner, flange nut, flange, side handle

### Optional accessories p. 37

Model		HSW 1-6216 EK	HSW 1-6246 EK	HSW 1-6248EK
Rated power	W	2,100	2,400	2,400
No load speed	min <sup>-1</sup>	6,500	6,500	8,200
Soft start		✓	✓	✓
Disc size	mm	230	230	180
Spindle		M14	M14	M14
Weight	kg	5.5	5.5	5.5
Code		010 023 336	010 023 410	010 023 411
Packaging				

# Concrete grinders



**Aluminium alloy gear housing**  
Optimum performance for a long lifetime

**Reinforced motor housing**  
Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Disc height adjustment**  
enables optimal disc position in case of disc wearing out or protection rubber wearing out

**Durable motor**  
High power of electromotor ensures effective use of grinders



**Dust spout** for effective dust removal with vacuum cleaner



**Adjustable ergonomic front handle** for perfect balance



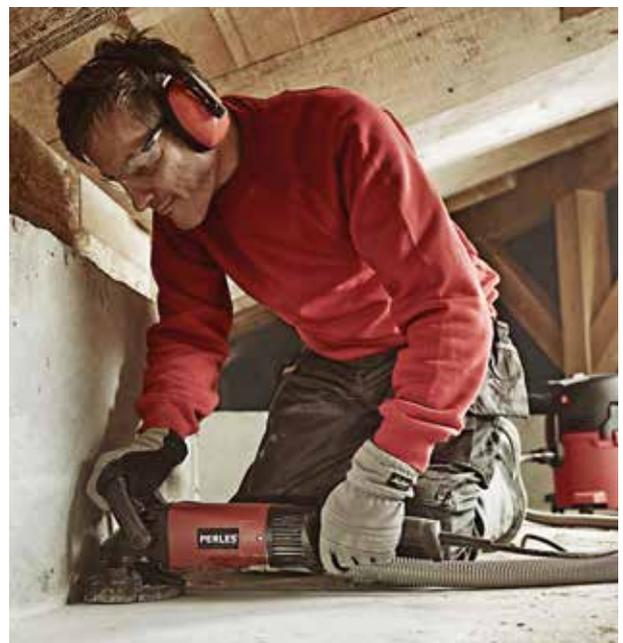
**Replacable rubber protection** enhances dust collection for dust-free working conditions



Innovative **movable guard** enables precise material removal in corners (models DBS 125 and DBS 125-20)



The highly efficient Perles concrete grinder in combination with a specially designed cup wheel improve dust extraction. In combination with a vacuum cleaner the system performance is unbeatable in performance and lifetime.





Model		DBS 125	DBS 125-20	DBS 180
Rated power	W	1,400	2,000	2,700
No load speed	min <sup>-1</sup>	8,000	8,000	6,500
Soft start		✓	✓	✓
Disc size	mm	125	125	180
Height of disc settings	mm	4.5	4.5	4.5
Movable guard				✓
Used with floor guide		/	/	✓
Spindle		M14	M14	M14
Adjustable front handle	°	30	30	30
Weight	kg	2.8	3.5	6.2
Code		010 023 351	010 023 384	010 023 383
Packaging				

### Concrete grinders DBS:

- Suitable for use in basic construction applications: grinding and smoothing of surfaces, removing of screed seams, residual mud, plaster and coatings, preparation of surfaces (for example tile preparation)
- Materials: **Concrete, screed, tile adhesive, natural stone, plaster, paint, coatings, carpet adhesive**
- Overload protection protects the motor against overheating
- Switch with lock off and on function (DBS125-20 IN DBS 180)
- Special dust protection enables long motor and bearing life
- Models DBS 125-20 and DBS 180 can be used together with floor guide BF 180

### Standard equipment:

DBS	
Premium universal cup wheel 	
Butterfly – cup wheel 	

Optional accessories p. 37



Floor guide BF 180  
see page 37

# Tile core drill



**Durable motor**  
High power of electromotor ensures effective use of grinders



**Aluminium alloy gear housing**  
Optimum impact performance and a long lifetime

**Ergonomic design**

Additional rubber coating on the motor housing for better grip  
ON/OFF switch can be reached without moving hands on the power tool

**Reinforced motor housing**

Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Guiding system** for easy tile fixing and core positioning



**Adjustable ergonomic front handle** for perfect balance

Model		FB 3140RE
Rated power	W	1,400
No load speed	min <sup>-1</sup>	2,500-8,000
Soft start		✓
Drilling capacity	Ø mm	82
Thread connection		M 16
Weight	kg	2.8
Code		010 005 132
Packaging		

**Tile core drill FB 3140RE:**

- Dry drilling of tiles and plates of **natural stone, granite, marble, ceramic and glass**
- Drilling holes for **armature and toilet installations, recessed lights, switches** etc.
- Special dust protection enables long motor and bearing life
- Adjustable speed for proper speed setting according to core diameter
- Switch with lock on function

**Standard equipment:**

- Guiding system



Optional accessories p.

# Wall chaser



**Quick setting** of the cutting width



**Precision work**  
Variable cutting depth and width enable adjustment to any working conditions



**Exceptional power**  
Extremely powerful 2,300 W motor provides high work capacity and speed



**Parallel outside rollers** provide precision cuts by a lathe

## Wall chaser WFS 2360:

- Specially designed for professional cutting of slots in reinforced **concrete, bricks, stone** and **light concrete**
- Electronics provide soft start and protect the power tool against overloading
- 2 switches provide protection of the user and safe work
- Efficient motor cooling

## Standard equipment:

- 2 UNT-T diamond cutting discs, disc replacement spanner, Allen key

Optional accessories p. 38



Model	WSF 2360	
Rated power	W	2,300
No load speed	min <sup>-1</sup>	6,500
Disc size	mm	180
Cutting depth	mm	3-60
Cutting width	mm	15-44
Weight	kg	7.6
Code		010 085 380
Packaging		

# Angle polishers

**Aluminum alloy gear housing**  
Optimum performance for a long lifetime

**Steel milled gears**  
ensure smoother running and a long lifetime even in the most difficult working conditions

**Ergonomic main handle**

**Universal M14 thread**  
enables the use of any accessories

**Gearing** made of highly endurable plastics (GRIVORY®) also serves as a spacer for polishing spots that are difficult to access

**Reinforced motor housing**  
Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Durable motor**  
High power of electromotor ensures effective use of grinders

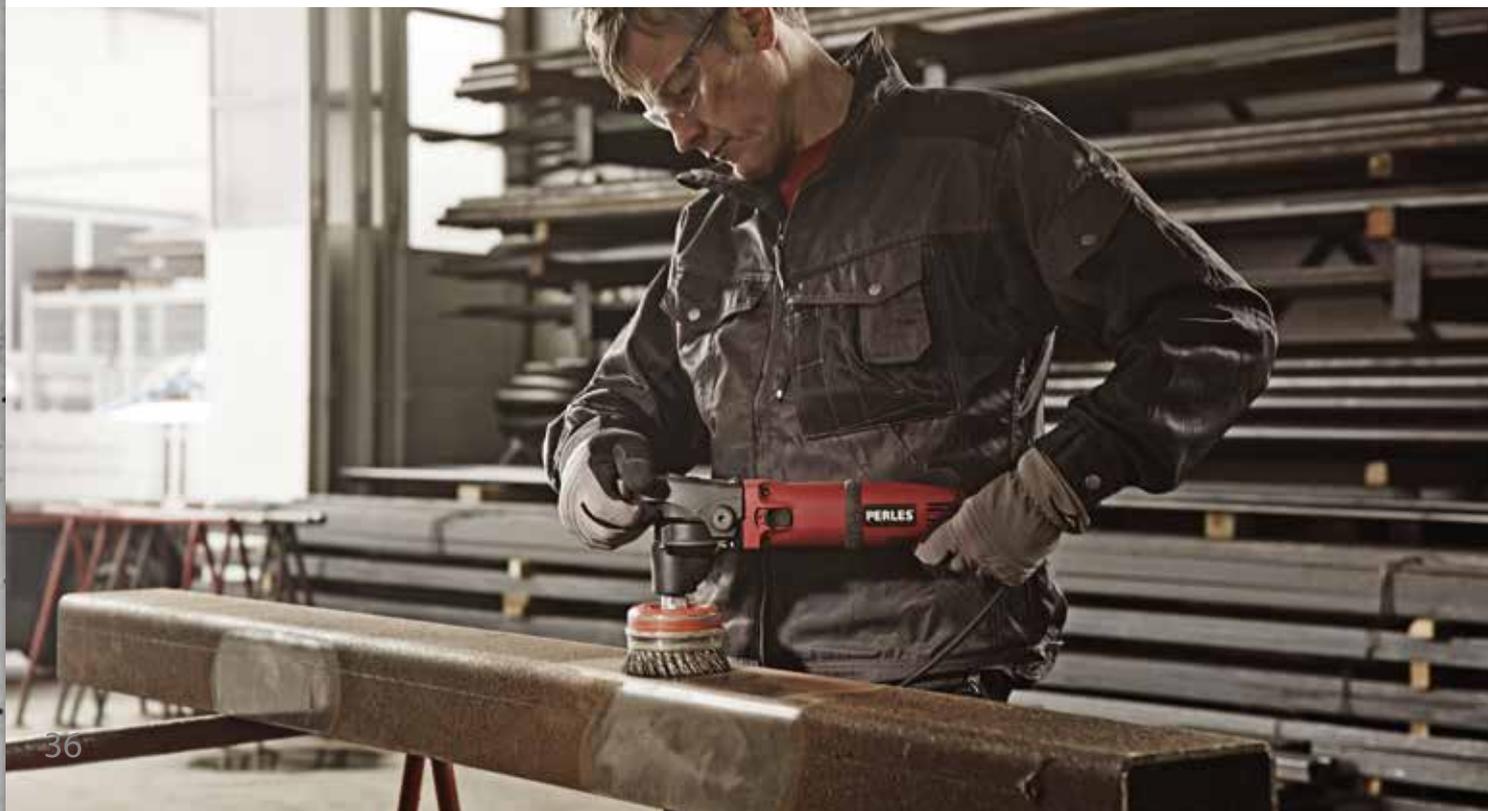
**Top quality rubber cord**  
made in the EU, long service life even with increased amount of bending/folding

**Ergonomic design**  
Solid and small gear housing made of aluminium alloy allows better access to hard-to-reach

Additional rubber coating on the motor housing for better grip  
ON/OFF switch can be reached without changing hands on the power tool



**Additional anti-vibration side handle**  
Up to 80 % vibration removal through ergonomically designed anti-vibration side handle





Model		UP 3142RE	UP 4162REK
Rated power	W	1,400	1,600
No load speed	min <sup>-1</sup>	650-2,200	900-3,000
Disc size	mm	150	180
Spindle		M14	M14
Weight	kg	2.2	3.5
Code		010 023 218	010 023 104
Packaging			

### Angle polishers UP:

- Specially designed for users in:
  - **car industry** (car body painters): polishing of varnish (polishing with foams with diameters from Ø 80 mm to Ø 150 mm)
  - **shipbuilding** (polishing of plastics with woolen polishing discs with diameters from Ø 180 mm to Ø 220 mm)
  - **metal industry** (polishing of metals for attaining high gloss with felt and pressed cloths)
  - **wood industry** (brushing of wood to attain an "old" appearance with metal brushes from Ø 80 mm and up)
- Variable speed control provides a wide range of application
- Soft start prevents an impact when the power tool is switched on, helps spreading polishing paste
- Universal M14 tool holder to suit most accessories
- Automatic overload protection switches down power when required to prevent motor damage
- Constant speed electronics for constant and adjustable rotation speed

### Standard equipment:

#### UP 3142RE

Spanner  
Anti-vibration handle



#### UP 4162REK

Blue polishing sponge;  
softer sponge for the final  
gloss of polished surfaces,  
density 39 kg/m<sup>3</sup>



Optional accessories p.  38

# Accessories

## Diamond blades for angle grinders (page: 28-30)

### Model Code

#### PREMIUM SAW BLADES

#### Premium saw blade forged 17 mm

- Castellated segments, longer lifetime than ever before, cuts twice as fast as standard blade, 20% less vibration
- **Materials:** hard stone, concrete, reinforced concrete, cast iron, heat resistant



Premium life UC17 Ø 230	010 075 868	
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#### Premium saw blade forged 13 mm

- High segments, extremely fast cut, low vibration
- **Materials:** hard stone, concrete, reinforced concrete, cast iron, heat resistant



Premium speed UC13 Ø 230	010 075 869	
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#### PROFESSIONAL SAW BLADES

#### Profi laser UF 13

- Forged 13 mm
- High segments, laser welded, silent sandwich steel core, low noise, low vibration
- **Materials:** granite, hard stone, concrete, reinforced concrete, cast iron



Ø 115	010 075 870	
Ø 125	010 075 871	
Ø 180	010 075 872	
Ø 230	010 075 874	

#### STANDARD SAW BLADES

#### Turbo-U10

- 10 mm high turbo rim
- First choice blade for masonry & roofs
- **Materials:** granite, hard stone, concrete



Ø 115	010.075.875	
Ø 125	010.075.876	
Ø 180	010.075.877	
Ø 230	010.075.878	

#### UNIVERSAL SAW BLADES

#### Uni concrete 12

- 12 mm high castellated segments
- Attractive design of segment and slot
- **Material:** Concrete



Ø 115	010 075 879	
Ø 125	010 075 880	
Ø 180	010 075 881	
Ø 230	010 075 882	

## Accessories for angle grinders (page: 28-30)

### Model Code

Pin spanner	010 075 230	
Flange nut	010 075 231	
Flange	One-hand angle grinder	010 075 232
	Angle grinders	010 075 233

## Diamond cup wheels for concrete grinders

(page: 32-33)

### Model Code

#### EPOXY COATINGS

#### Epoxy cup

- High material removal for epoxy and paint coatings
- C-shaped segments with stable sharp edge, perfect balance
- Welded segment, high security



Ø 125	010 075 864	
Ø 180	010 075 862	

#### UNIVERSAL CONCRETE

#### Zero-cup

- Improved segment shape for flat wear and smooth surfaces
- Accurate tolerance-control welded segments, no vibration and very high material removal
- High efficiency for dust exhausting



Ø 125	010 075 867	
Ø 180	010 075 861	

PREMIUM UNIVERSAL		
<b>Butterfly - cup</b>		
<ul style="list-style-type: none"> <li>• Highest performance in concrete, cement, and screed</li> <li>• High resistance of segment crack that brings highest safety</li> <li>• Absolutely balanced tools from beginning until complete usage</li> </ul>		
		
Ø 115	010 075 865	
Ø 125	010 075 866	
Ø 180	010 075 867	

**Accessories for concrete grinders** (page: 32-33)

Model	Code	
Flor guide BF 180 (for model DBS 180 and DBS 125-20)	010 075 858	
Vacuum cleaner on demand		

**Accessories for tile core drill** (page: 34)

Model	Code	
<b>DIAMOND CORES M14</b>		
Ceram-M14		
Ø 6	010 075 891	
Ø 8	010 075 892	
Ø 10	010 075 893	
Ø 12	010 075 894	
Ø 14	010 075 895	
Ø 16	010 075 896	
Ø 20	010 075 897	
Ø 25	010 075 898	
Ø 32	010 075 899	
Ø 38	010 075 900	
Ø 45	010 075 901	
Ø 58	010 075 902	
Ø 65	010 075 903	
Ø 68	010 075 904	
Ø 70	010 075 905	
Ø 80	010 075 906	
Ø 110	010 075 907	
Ceram-M14 set Ø 6/8/10/14 mm -M14	010 075 890	

Diamond blades for tiles and very hard ceramic		
<b>Ceram-gres cut</b>		
Ø115	010 075 908	
Ø125	010 075 909	

Diamond blade cut&grind for granite and universal cut & grind		
Ø125	010 075 910	

DRILL GUIDE		
Drill guide with vacuum cup for exact positioning of the drill	010 075 888	

**Accessories for wall chaser** (page: 35)

Model	Code	
Diamond cutting disc Ø 180 mm x 30.0 mm	010 075 800	

**Accessories for angle polishers** (page: 36-37)

Model	Code	
Spanner	010 075 230	
Flange	010 075 233	
Flange nut	010 075 237	
Nylon backing pad with a die nut	010 075 549	
Backing padhook and loop sponge	010 075 551	
Universal backing/fixing pad Ø 117 for polishing sponges	010 075 543	

Model	Code	
<b>White polishing sponge;</b> denser (45 kg/m <sup>3</sup> ), more resistant polishing sponge for medium-fine polishing	010 075 548	
<b>Yellow polishing sponge</b> with open cells for removing top layers and rough polishing, density 35 kg/m <sup>3</sup>	010 075 544	
<b>Orange polishing sponge;</b> thinner sponge for perfect control of polishing for smoothing the traces of the preceding work and attaining gloss	010 075 546	
<b>Red polishing sponge;</b> the softest sponge with closed cells for attaining parlour gloss	010 075 547	
<b>Blue polishing sponge;</b> softer sponge for the final gloss of polished surfaces, density 39 kg/m <sup>3</sup>	010 075 545	
<b>Classic Set:</b> Nylon flexible backing pad with a die nut – nut – Allen key – top-quality 100 % lambswool on lamb skin	010 075 542	
<b>Perfect Gloss Set:</b> Universal backing/fixing pad - thin orange polishing sponge – the softest red polishing sponge with closed cells	010 075 540	
<b>Original Gloss Set:</b> Universal backing/fixing pad – yellow polishing sponge with open cells – softer blue polishing sponge	010 075 541	

Model	Code	
Hook and loop lambswool polishing bonnet Ø 150 mm	010 075 553	
100 % lambswool polishing bonnet with a drawstring	010 075 552	
Brush with special nylon bristles Ø 130 mm	010 075 554	



# Metal working



# Die grinders



## Die grinders:

- High rotational speed (rpm) ensures optimal cutting
- Suitable for many applications. Often used with **rotary burrs for cleaning welds, die manufacture, sharpening, polishing and deburring.**
- "RE" model equipped with electronics for variable speed adjustment and overload protection.

## Standard equipment:

- Key set, collet chuck  $\varnothing$  6 mm

## Accessories:

Model		HSG 18	HSG 18RE
Rated power	W	500	800
No load speed	min <sup>-1</sup>	27,000	9,000 -30,000
Variable speed		/	✓
Max. tool diameter	mm	25	25
Collect chuck	mm	6	6
Weight	kg	2.0	2.0
Code		010 023 105	010 023 089
Packaging			

HSG 18	Code	
Collet chuck $\varnothing$ 6 mm	010 075 179	
Clamp nut	010 075 180	



# Sheet metal nibbler and sheet metal shears

## SHEET METAL NIBBLER



500 W  2 mm  2.5 mm

Model		BN 18
Rated power	W	500
No load speed	min <sup>-1</sup>	2,400
Punching in steel max. thickness (to 400 N/mm)	mm	2.0
Punching in aluminium max. thickness (to 200 N/mm)	mm	2.5
Weight	kg	2.4
Code		010 040 147
Packaging		

### Sheet metal nibbler BN 18:

- Easily guidable and ergonomically designed motor gearbox
- Cutting very small radius
- Easily adapted to work on flat and corrugated materials

### Standard equipment:

- Die and punch for standard sheet metal, die and punch for corrugated metal

### Accessories:

BN 18	Code	
Die for standard sheet metal	010 075 181	
Die for corrugated sheet metal	010 075 176	
Punch for standard sheet metal	010 075 182	
Punch for corrugated sheet metal	010 075 177	

## SHEET METAL SHEARS



500 W  2.8 mm  3.5 mm

Model		BS 18
Rated power	W	500
No load speed	min <sup>-1</sup>	2,400
Cutting in steel max. thickness (to 400 N/mm)	mm	2.8
Cutting in aluminium max. thickness (to 200 N/mm)	mm	3.5
Weight	kg	3.5
Code		010 050 169
Packaging		

### Sheet metal shears BS 18:

- Gearbox made of aluminium alloy ensures long service life of the tool, reduces vibration level and enables accurate and clear cuts
- Ergonomic form for efficient and easy work

### Standard equipment:

- Two blades, hexagon key

### Accessories:

BS 18	Code	
Upper knife	010 075 183	
Lower knife	010 075 184	

# Portable chamfering machine



 **0-5 mm**    **1,250 W**

 **0-5 mm**    **1,250 W**

Model		MF 1225 RE (45)
Rated power	W	1,250
No load speed	min <sup>-1</sup>	2,500-12,000
Bevel depth	mm	0-5/45°
Milling head	Ø mm	29
Weight	kg	3.0
Code		010 085 346
Packaging		

Model		MF 1225 RE (30)
Rated power	W	1,250
No load speed	min <sup>-1</sup>	2,500-12,000
Bevel depth	mm	0-5/30°
Milling head	Ø mm	29
Weight	kg	3.0
Code		010 085 369
Packaging		

## Portable chamfering machine:

- Fast and consistent bevel cutting on straight and profiled ferrous and non-ferrous material edges
- Also suitable for stainless steel and tool steel; correct cutting insert selection required
- Uses cemented carbide inserts mounted in a hand-held cutting tool holder
- Carbide provides long tool life
- Carbide inserts are indexable and each can be used on all 4 sides
- Ideal edge weld preparation tool

## Standard equipment:

- Keys, coated for steel and stainless steel (2 pcs), side handle

## Accessories:

MF 1225RE	Code	
Indexable insert, coated for steel and stainless steel (2 pcs)	010 075 657	
Indexable insert, uncoated for steel and aluminium (2 pcs)	010 075 658	





# PORTABLE CHAMFERING MACHINE

**Portable edge milling machine**

High power of electromotor ensures effective use of grinders

**Aluminium alloy gearhousing**

Optimum impact performance and a long lifetime

**Steel milled gears**

ensure smoother running and long lifetime even in the most difficult working conditions

**Rotating main handle** can be quickly rotated to the left and right side by simply releasing the locking lever

**Reinforced motor housing** Made of polyamide reinforced with 30 % glass fibre provides high impact resistance

**Side handle** can be set in 3 positions: left, right and centre



**Carbide inserts** for long tool life

 **0-7 mm**    **2,300 W**

Model		MF 2370 E
Rated power	W	2,300
No load speed	min <sup>-1</sup>	6,500
Bevel depth	mm	0-7°
Milling head	Ø mm	40
Weight	kg	8.4
Code		010 085 343
Packaging		

**Portable chamfering machine:**

- Fast and consistent bevel cutting on straight and profiled ferrous and non-ferrous material edges
- Also suitable for stainless steel and tool steel; correct cutting insert selection required
- Uses cemented carbide inserts mounted in a hand-held cutting tool holder
- Carbide provides long tool life
- Carbide inserts are indexable and each can be used on all 4 sides
- Ideal edge weld preparation tool

**Standard equipment:**

- Keys, coated for steel and stainless steel (2 pcs), side handle



**Accessories:**

MF 2370E	Code	
Indexable insert, uncoated for steel and stainless steel, grey cast iron (3 pcs)	010 075 692	



# Metal cut-off saw

**Easy transportation** due to built-in handle and locking device

**Adjustable spark deflector** carries sparks, dust and debris away from the operator

**Quick clamping device** with variable mitre conversion up to 45° on both sides

**Spindle lock** for quick and easy change of cutting discs with ball bearing and designed for high loads

**Motor and gear** with ball bearing and designed for high loads



**2,300 W**  **15-30-45-90°** **Ø 355 mm**

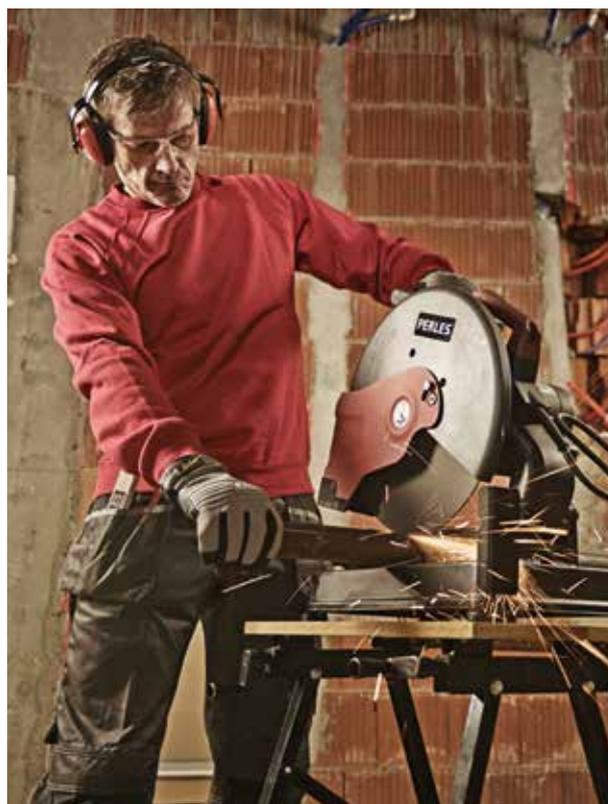
Model		TSP 1-355
Rated power	W	2,300
No load speed	min <sup>-1</sup>	3,800
Disc size	mm	355
Weight	kg	17.5
Code		010 023 242
Packaging		

## Metal cut-off saw:

- Suitable for quick and accurate cutting of steel and non-ferrous profiles
- Quick profile clamping system enables safe cutting
- Motor and gearbox housing enable the highest loads
- Spindle lock for quick change of cutting discs
- Keyless vice with variable setting of cutting angle 45°
- Simple transport
- Adjustable cutting depth
- Adjustable spark deflector

## Standard equipment:

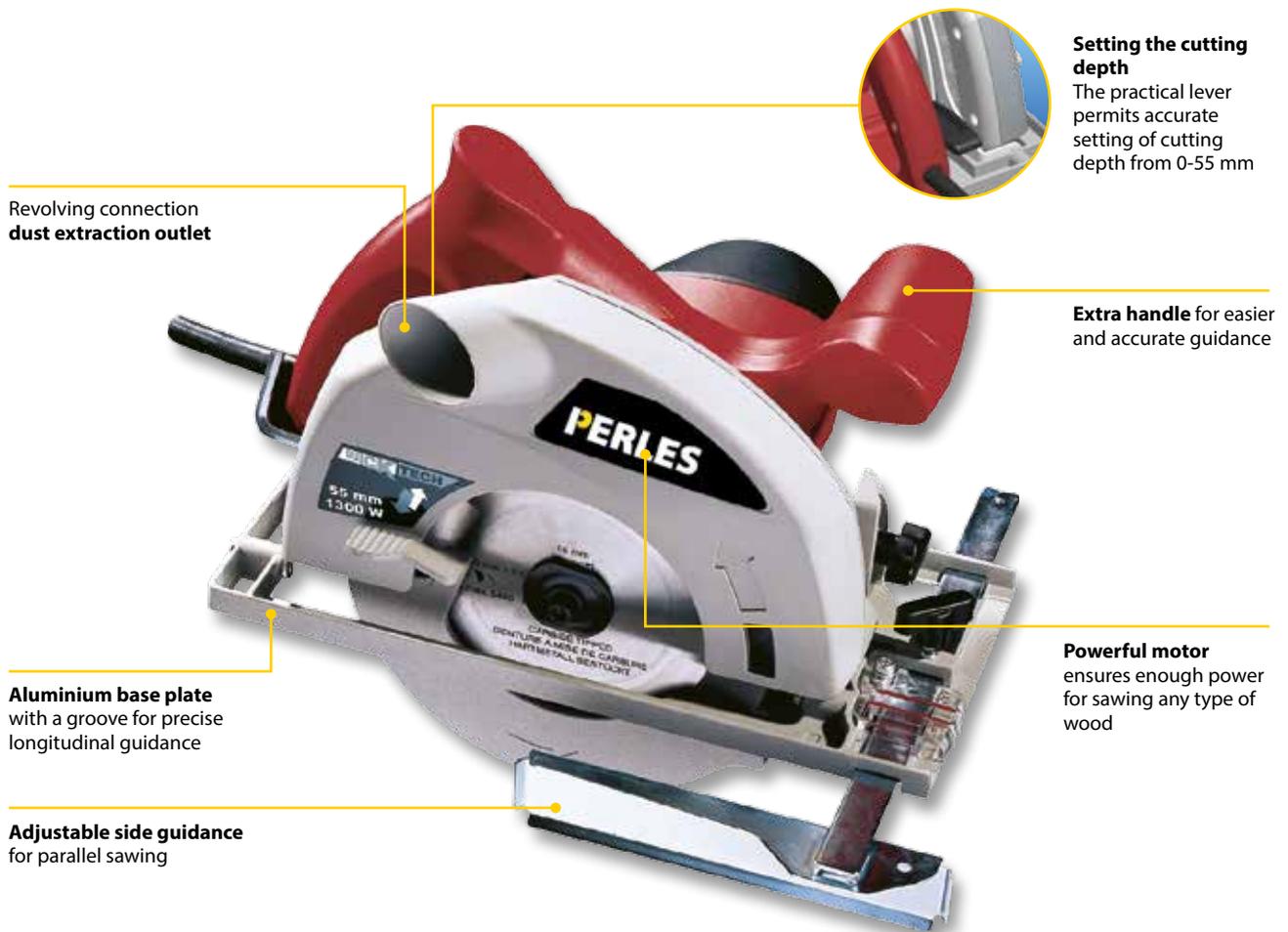
- Cutting disc, spanner



# Wood working



# Circular saws



Revolving connection  
dust extraction outlet

### Setting the cutting depth

The practical lever permits accurate setting of cutting depth from 0-55 mm

Extra handle for easier and accurate guidance

Aluminium base plate with a groove for precise longitudinal guidance

Powerful motor ensures enough power for sawing any type of wood

Adjustable side guidance for parallel sawing

1,300 W    Ø 160    U 0-55 mm    45° 0-38 mm

Model		KS 55
Rated power	W	1,300
No load speed	min <sup>-1</sup>	5,000
Cutting depth (90°)	mm	55
Cutting depth (45°)	mm	38
Bevel cut	°	90-45
Saw blade	Ø mm	160
Weight	kg	3,4
Code		010 060 751
Packaging		

### Circular saw KS 55:

- It enables plunge sawing
- Riving knife is not needed
- The saw is equipped with alu pendulum which protects user against unintentional touching of the saw blade
- Even if the saw falls from the height of 1 m, its functionality

remains intact – it always reliably returns to its protecting position

- Accurate, rigid aluminium guide plate
- Safety switch prevents unintentional starting of the tool
- Built-in spindle lock enables easy change of the saw blade

### Standard equipment:

- Saw blade, parallel guide, dust suction attachment, hexagonal key 5 mm

### Accessories:

KS 55	Code	
Carbide tipped saw blade Ø 160 mm x Ø 20 mm, 24 teeth	010 075 695	
Flange Ø 20 mm	010 075 713	

## CIRCULAR SAW



1,200 W    Ø 125    U 0-51 mm    45° 0-34 mm

Model		KS 51
Rated power	W	1,200
No load speed	min <sup>-1</sup>	5,000
Cutting depth (90°)	mm	51
Cutting depth (45°)	mm	34
Bevel cut	°	90-45
Saw blade	Ø mm	153
Weight	kg	3.4
Code		010 060 704
Packaging		

## Circular saw KS 51:

- Reliable and durable construction design
- Large and durable saw base plate made of aluminium alloy for better stability of the saw when it is guided along a work piece
- Lock-off switch prevents unintentional switching of the tool
- Universal dust suction attachment

## Standard equipment:

- Saw blade, parallel guide, dust suction attachment, hexagonal key 5 mm

## Accessories:

KS 51	Code	
Carbide tipped saw blade Ø 153 mm x Ø 20 mm, 12 teeth	010 075 114	
Carbide tipped saw blade Ø 153 mm x Ø 20 mm, 24 teeth	010 075 159	

## CIRCULAR SAW



1,500 W    Ø 200    U 0-70 mm    45° 0-49 mm

Model		KS 170
Rated power	W	1,500
No load speed	min <sup>-1</sup>	4,700
Cutting depth (90°)	mm	70
Cutting depth (45°)	mm	49
Bevel cut	°	90-45
Saw blade	Ø mm	200
Weight	kg	6.3
Code		010 060 752
Packaging		

## Circular saw KS 170:

- Cut depth preadjustment and precise bevel cut adjustment
- Lock-off switch for top safety
- Sawing without getting stuck
- Extra handle, integrated into the saw gearbox, for reliable placing on workpieces also for bevel cuts
- Carbide tipped saw blade with 24 teeth
- Aluminium workbench for longitudinal guiding
- Revolving accessory for dust extraction outlet
- Built-in spindle lock enables simple saw blade changing
- Adjusting screw for the precise right angle and parallel adjustment of the workbench
- Grooved channel in the saw shoe for using the guiding rails

## Standard equipment:

- Saw blade 200 mm, parallel guide, dust suction attachment, hexagonal key 5 mm

## Accessories:

KS 170	Code	
Carbide tipped saw blade Ø 200 mm x Ø 30 mm, 24 teeth	010 075 489	

# Mitre saw



1,600 W  0-50°  0-45°

Model	TKS 1612	
Rated power	w	1,600
No load speed	min-1	3,000
Cutting height	mm	170 X 70
Disc size	mm	Ø 305
Tilting saw blade	°	0-45°
Bevel cut	°	0-50°
Weight	kg	25
Code	010 060 802	
Packaging		

## Mitre saw TKS 1612:

- Designed for longitudinal, transversal and straight sawing of hard and soft wood as well as products made of particle boards
- Using the corresponding saw blades, we can also saw aluminum and plastic products
- Asynchronous motor for long service life and quiet operation
- Electric safety brake ensures quick blade rotational stop

## Standard equipment:

- Multipurpose saw blade, table, vice, hexagon box wrench, Allen key, dust bag, pushing lever, lower guard, side fence



# Planer and belt sander

## PLANER



850 W  82 mm

Model		HOB 882
Rated power	W	850
No load speed	min <sup>-1</sup>	13,000
Planer width	mm	82
Planer depth	mm	0-3.5
Weight	kg	2.9
Code		010 065 070
Packaging		

### Planer HOB 882:

- Precise rebate cuts up to 24 mm
- Maximum planer depth to 3.5 mm
- Perfect parallelism of tables ensures extremely accurate work
- Precise parallel guide and rebate depth guide
- Planer depth adjustment with positive stages
- Simple changing of tungsten carbide reversible blades

### Standard equipment:

- Parallel guide, key

### Accessories:

HOB 882	Code	
HSS BLADE SET	010 075 408	

## BELT SANDER



650 W  75x533 mm

Model		BSC 2-675
Rated power	W	650
Belt speed	m/min	320
Belt size	mm	75x533
Weight	kg	2.9
Code		010 031 360
Packaging		

### Belt sander BSC 2-675:

- Precise run of sanding belt
- Perfect balance
- Powerful electromotor with sufficient power reserve
- Quick change of sanding belt
- Adjusting knob for setting the run of the sanding belt and thanks to this more exact running of the belt

### Standard equipment:

- Dust bag, sanding belt



# Plunge routers



**Built-in motor protection**  
Protects from sudden impacts and continual loads

Rough and precise **setting of cutting depth**



Simple **spindle lock** allows easy router cutter changes

**Adjustable twin rod side-fence** for guiding along a straight edge



**Soft-start feature** (OF 3-808RE) eliminates sudden movement of machine on start up

Ø 6,8 mm 50 mm

Router		OF 3-808	OF 3-808RE
Input power	W	850	1010
No load speed	min-1	25,000	9,000-26,000
Collet Ø	mm	6.8	6.8
Plunge depth	mm	50	50
Max. cutter dia.	mm	40	40
Weight	kg	2.8	2.85
Constant electronics		/	
Code		010 085 381	010 085 382
Packaging			

- Built-in motor protection from sudden impacts and continual loads
- Electronic tachometer provides constant speed regulation especially under heavy load (model OF 3-808RE)



## Plunge routers OF 3-808 and OF 3-808RE:

- Precision straight guide fence with adjustable guide shoes
- Dust suction attachment
- Precise cutting depth adjustment
- Presets for 3 different cutting depths
- Dust jackets on vertical guides ensuring smooth operation and to prevent contamination

## PLUNGE ROUTER



1,010 W    Ø 8 mm    50 mm

Router		OF9
Input power	W	1,010
No load speed	min-1	2,4000
Collet Ø	mm	8
Plunge depth	mm	0-50
Max. cutter dia.	mm	40
Weight	kg	2.9
Dust extraction		✓
Code		010 085 340
Packaging		

### Plunge router OF 9:

- Precision straight guide fence with adjustable guide shoes
- Upper dust suction attachment
- Precise cutting depth adjustment
- Presets for 3 different cutting depths
- Ergonomically designed handles
- Easy accessory change
- Dust jackets on vertical guides ensure smooth operation and prevent contamination
- Built-in motor protection protects from sudden impacts and continual loads

### Accessories:

OF 9	Code		
Collet chuck	Ø 6 mm	010 075 322	
	Ø 1/4"	010 075 323	
	Ø 8 mm	010 075 172	
Clamp nut Ø 8 mm	010 075 173		

## PLUNGE ROUTER



1,300 W    Ø 8 mm    50 mm

Router		OF9E
Input power	W	1,300
No load speed	min-1	6,000 - 27,000
Collet Ø	mm	8
Plunge depth	mm	0-50
Max. cutter dia.	mm	40
Weight	kg	3.0
Constant electronics		✓
Dust extraction		✓
Code		010 085 341
Packaging		

### Plunge router OF 9E:

- Precision straight guide fence with adjustable guide shoes
- Upper dust suction attachment
- Precise cutting depth adjustment
- Presets for 3 different cutting depths
- Ergonomically designed handles
- Easy accessory change
- Dust jackets on vertical guides ensure smooth operation and prevent contamination
- Built-in motor protection protects from sudden impacts and continual loads
- Electronic speed control and motor overload protection
- Electronic tachometer ensures constant rotation speed under different loads

### Accessories:

OF 9E	Code		
Collet chuck	Ø 6 mm	010 075 322	
	Ø 1/4"	010 075 323	
	Ø 8 mm	010 075 172	
Clamp nut Ø 8 mm	010 075 173		

# High-torque drill



**750 W**   **95/45 Nm**

Model		PB9-713HTS
Rated power	W	750
No load rpm 1st speed	min	475
No load rpm 2nd speed	min	1,000
Maximal torque in 1st speed	Nm	95
Maximal torque in 2nd speed	Nm	45
Chuck capacity	mm	13
Weight	kg	2.8
Code		010 005 058
Packaging		

## High-torque drill PB 9-713 HTS:

- Perles high-performance motor with high torque for the most heavy-duty applications with large diameter accessory and for screwdriving of wood screws
- Specially designed for **carpenters, roofers and users in metal industry**
- Two speeds for optimal drilling and screwdriving
- Turnable brushes for equal torque in L/R rotations
- Spindle lock for easier and faster change of accessories
- Durable electromotor with dust protection of the motor winding
- Gear housing made of aluminium alloy provides high stiffness and long lifetime
- Variable speed control for precise work for different applications
- 2 mechanical gears for rotation speed and torque adjustment
- Rubber inlay on the main handle for better grip
- Durable rubber cord for long service life

## Standard equipment:

- Side handle

## Applications:

- Drilling in wood with longer LEVIS drill bits and with bigger diameter
- Drilling in wood with core bits of bigger diameters
- Screwdriving larger and longer wood screws in timbered structures
- Screwdriving turbo bolt with predrilling in concrete bricks, light concrete
- Drilling bigger diameters in steel with HSS

More info on page 18



# Concrete vibrators & poker



# Flexible shaft vibrator and pokers

## FLEXIBLE SHAFT VIBRATOR

**Exceptional motor protection:** air flow openings provide efficient cooling

Designed to prevent water penetration, even in case of direct jet

**Rubber buffers** provide tool stability even on a slippery and dirty yard, and at the same time enable quick and robust putting down on the ground

**Robust switch** with rubber protection

**Shoulder belt** for simple work and carrying along construction site



**Special mechanism** for simple and quick mounting of pokers



**Replaceable intake air filter** on «click» can be changed without using any additional tools



**Housing** made of high-quality reinforced polyamide prevents fractures even in the fall from greater heights



We have given an innovative and very deliberate design to the Flexible Shaft Vibrator, which puts it in front of any competition. Low centre of gravity provides an exceptional stability, rubber shock absorbers increase its robustness, exchangeable filters, easy maintenance, a belt for easy carrying. Result: long service life and extremely user-friendly product.

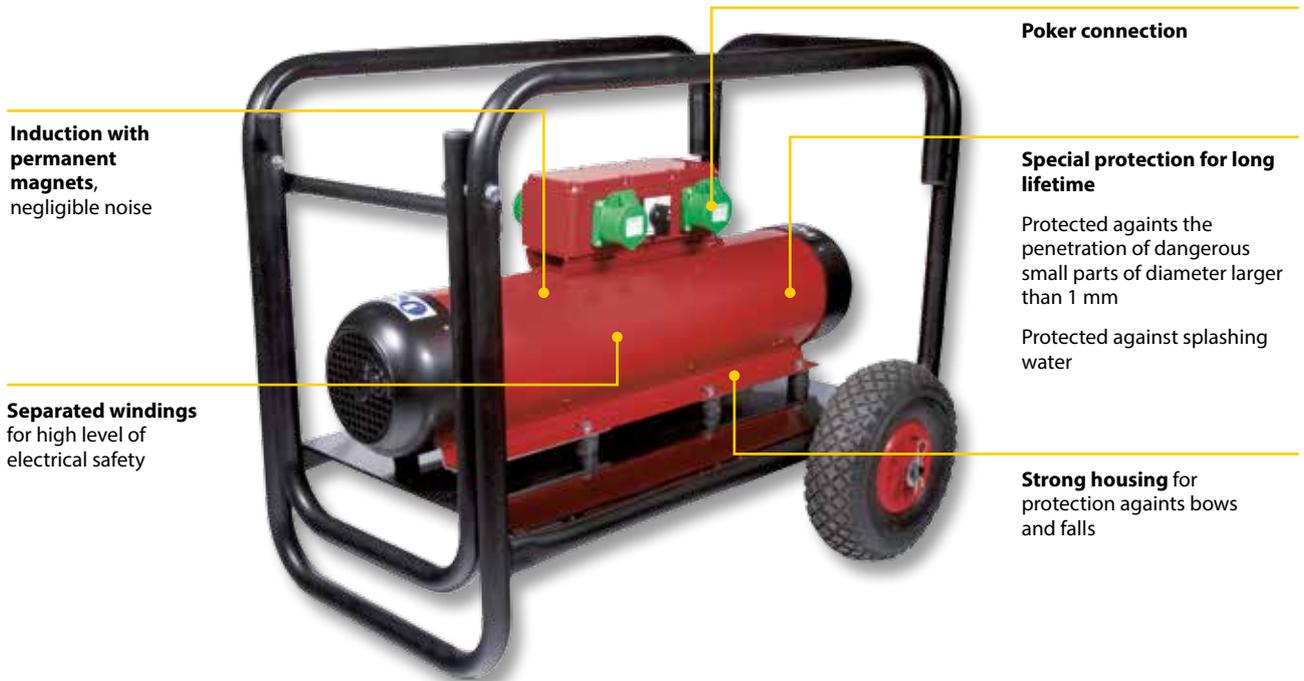
Model	TBR 20	
Rated power	W	2,000
No load speed	min <sup>-1</sup>	12,000
Weight	kg	4,0
Code	010 211 289	
Packaging		

## POKERS FOR FLEXIBLE SHAFT VIBRATORS



Model		AMX1-25/4	AMX1-34/4	AMX1-43/4	AMX 1-50/4
Poker	Ø mm	25	34	43	50
Lenght	m	4	4	4	4
Poker lenght	mm	315	315	356	356
Performance	m <sup>3</sup> /h	8	10	20	30
Vibration force	N	1,000	1,500	3,000	3,500
Weight	kg	8	9.5	10	11
Code		010 211 262	010 211 266	010 211 270	010 211 272
Packaging					

# Frequency converters



**Powerfull fan for cooling and a special system for directing air flow**  
Cooling fins on the motor and generator are additionally closed from the top, which provides high effectiveness of the motor and generator cooling

## Frequency converters CAF:

- Frequency converter with an electromotor
- Possible single –phase connection to power network 230/50 Hz or three-phase 400 V/50 Hz for 3 phase models.
- Simple carrying and transport
- 5 m long connection cable



Model		CAF 1-150	CAF1-250	CAF 1-300 T	CAF 1-500T
Input power	kW	2,0	3,0	3,0	5,0
Output power	kVA	1,5	2,5	3,0	5,0
Poker connection		2 x	2 x	3 x	4 x
Input voltage	V	1 x 230	1 x 230	3 x 230	3 x 230
Output voltage	V	3 x 42	3 x 42	3 x 42	3 x 42
Frequency	Hz	50/200	50/200	50/200	50/200
Current	A	21	35	42	70
Weight	kg	25.0	35.0	35.0	55.0
Code		010 201 138	010 201 139	010 201 140	010 201 141
Packaging					

# High frequency generators



1,5 kVA 29 kg

Model	GAF 1-1500H	
Input power	kW	Honda motor
Output power	kVA	1,5
Poker connection		2 x
Output voltage	V	3 x 42
Frequency	Hz	200
Current	A	21
Weight	kg	29.0
Code		010 201 143
Packaging		



2,5 kVA 33 kg

Model	GAF1-2500H	
Input power	kW	Honda motor
Output power	kVA	2,5
Poker connection		3 x
Output voltage	V	3 x 42
Frequency	Hz	200
Current	A	35
Weight	kg	33.0
Code		010 201 144
Packaging		

## High frequency generators GAF:

- Honda petrol motor for driving vibration pokers on construction sites without power connection
- Induction with permanent magnets
- Cooling by fan
- 32A sockets for connecting AV pokers
- Strong housing provides protection against bows and falls
- Simple carrying or transport.
- Generator is protected against vibrations with special shock absorbers.



# High frequency vibration poker



Model		AV 1-500 HD	AV1-500 HDRC	AV1-600	AV 1-600 HDRC	AV 1-700 HD	AV 1-700 HDRC
Poker	Ø mm	50			60		70
Poker length	mm	330			410		410
Current	A	8,0			14,0		20,0
Rated power	W	490			870		1,165
Vibrations	min <sup>-1</sup>	12,000			12,000		12,000
Performance	m <sup>3</sup> /h	30			35		40
Compaction diameter	cm	110			125		140
Vibration force	N	3,300			6,200		8,000
Cable length	m	10			10		10
Hose length	m	5			5		5
Housing made of hardened steel		✓	✓	✓	✓	✓	✓
Thermal protection		✓	✓	✓	-	✓	-
Rubber cap		-	✓	-	✓	-	✓
Weight	kg	12.0			16.5		18.0
Code		010 211 251	010 211 252	010 211 255	010 211 256	010 211 259	010 211 260
Packaging		☐		☐		☐	

## High frequency vibration poker:

- Build in asynchronous motor provides long service life
- 42 V voltage protects the user against electrical discharge
- Switch is build in a light and robust plastic housing
- Rubber hose with double protection protects the cable against damage
- Wide range of different poker diameters from 35 to 75 mm
- Housing made of hardened steel and build-in thermal protection in HD (Heavy duty) versions provide longer service life.



# Electronic vibration poker

## ELECTRONIC FREQUENCY CONVERTER



Model		EFC1-01
Input voltage	V	230-240
Input frequency	Hz	50-60
Output voltage	V	230/3
Output Frequency	Hz	200
Output power	kW	1,5
Protection		IP 65
Weight	kg	3.8
Code		010 201 142
Packaging		



## ELECTRONIC VIBRATION POKERS



Model		EVP1-380 TP	EVP1-500TP	EVP1-600 TP	EVP1-700TP
Poker	Ø mm	38	50	60	70
Poker lenght	mm	320	330	410	410
Current	A	0,9	1,2	1,3	1,3
Voltage	V	230	230	230	230
Vibrations	min <sup>-1</sup>	12,000	12,000	12,000	12,000
Cable lenght	m	15	15	15	15
Hose lenght	m	5	5	5	5
Thermal protection		✓	✓	✓	✓
Weight	kg	7.5	10.0	12.8	15.5
Code		010 211 276	010 211 278	010 211 280	010 211 282
Packaging					

# Services

## AFGHANISTAN

### HD&Sons

E106/A Street 8, Ahmed Lane, Officers Colony, Cavley Ground Lahore Cantt.  
T: Ph: 009242 36626368, 36160668  
F: 00924236670665  
www.hdsos.com.pk

## ALGERIEN

### Sarl Hamid Oudjana

Route Nle 05 El Hamiz-Dar El Beida Alger  
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F: 213 21 86 96 60  
M: 213 771 35 09 65  
www.hamid-oudjana.com

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## COMPRESORES Y HERRAMIENTAS CLEMENTE

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Industria No. 342 Col. San Juan de Dios.  
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54080 Tlalnepantla  
T: 5-3984563

## SERVICIO ARANDA

Gob. Carlos Hank Glez. Mz. 49 Lt.36 Col. Granjas Valle de Gpe. Ecatepec.  
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### ASOREC S.A.

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32000 Чачак  
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### IMPORT TRADE

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### СЗР РОТОР ПЛУС

Слобода на Бајинћа 34  
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### MATERIALES AGUIAR C.A

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### ELECTRICOS PETARICHE C.A.

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### HERNANDEZ & CIA. C.A

Av. Aristides Rojas Entre Restaurante y Estación de  
Serv. Venezuela Edo. Sucre  
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### 2B INDUSTRIA Y TALLER C.A.

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### MULTICENTRO DE SERVICIO LOS CEDROS C.A.

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### L & N SOLDADURA. C.A.

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### FERRETERIA DON ANTONIO C.A.

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### SERVICIOS TECNICOS DE MAQUINARIAS C.A.

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PUERTO ORDAZ  
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### ALMACEN TALLER ELÉCTRICO LUZARDO. C.A.

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SAN ANTONIO DEL TACHIRA  
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### DISTRIBUIDORA EL CHAMAR C.A.

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SAN CRISTOBAL  
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### TALLER MAYORGA C.A.

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Edo. Táchira  
SAN CRISTOBAL  
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### REHECA Av. Lara con calle Uslar.

Edf Herramientas Edo. Carabobo  
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