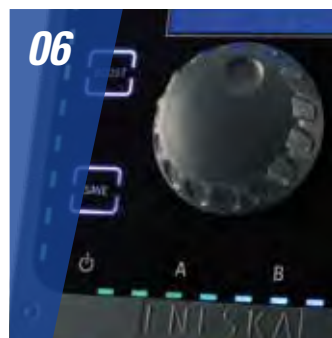


Driving motors and handpieces Overview



06
Ultrasonic system
ENESKAsonic



12
Grinding, milling,
polishing system ENESKAmicro



24
ENESKAmicro
COMPACT series



26
Micromotors



28
Handpieces



40
Mobile polishing system
ENESKAmobile



45
jokeFlex Premium Plus



55
jokeFlex Power



65
High-speed handpiece
ENESKA J 320



66
Grinder
jokeTURBO



67
Compressed-air grinder
ENESKAair



69
Compressed-air hand-filing
machines DIPROFIL®



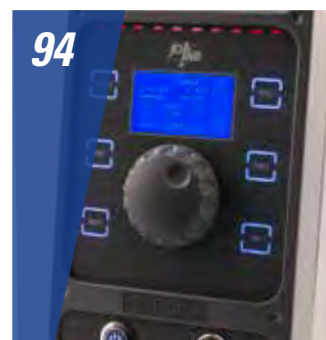
74
Polishing machines
OPTI polish



76
Polishing lathe



82
ENESKApostprocess
Postprocessing system



94
Tungsten carbide coating system
ENESKArecoat 85

06 Ultrasonic system

Ultrasonic minicutter
ENESKAsonic

12 Electric motor systems

Mobile grinding system MINI MONTOR mobile P1
Mobile grinding system ENESKAmobile
ENESKAmicro system overview
ENESKAmicro control unit
ENESKAmicro complete sets
ENESKAmicro COMPACT series
ENESKAmicro Micromotors
ENESKAmicro hand-filing machines
Hollow handle
Rapid Change
ENESKAmicro handpieces and collets
ENESKAmicro belt grinder
ENESKA-old Systems

45 Flexible shaft systems

jokeFlex Premium Plus system overview
jokeFlex Premium Plus shaft
Motor system jokeFlex Premium Plus
Handpieces jokeFlex Premium Plus
Handpieces joke Classic-Line
Rapid-chuck handpiece
Hemisphere handpiece
Hand-filing machines
Reducing sleeves
Quick coupling system jokeFlex Power system overview
Quick coupling system jokeFlex Power shafts
Motor system jokeFlex Power
Handpieces jokeFlex Power and collets

60 Pneumatic systems

Pneumatic system overview
Maintenance unit
Lubricant
High-speed handpiece ENESKA J 320
Grinder jokeTURBO
Compressed-air grinder
Compressed-air grinder joke AirMax
Compressed-air hand-filing machines
Compressed-air filing machines
Compressed-air engraving pen
Hand-filing machines Turbolap

74 Polishing machines

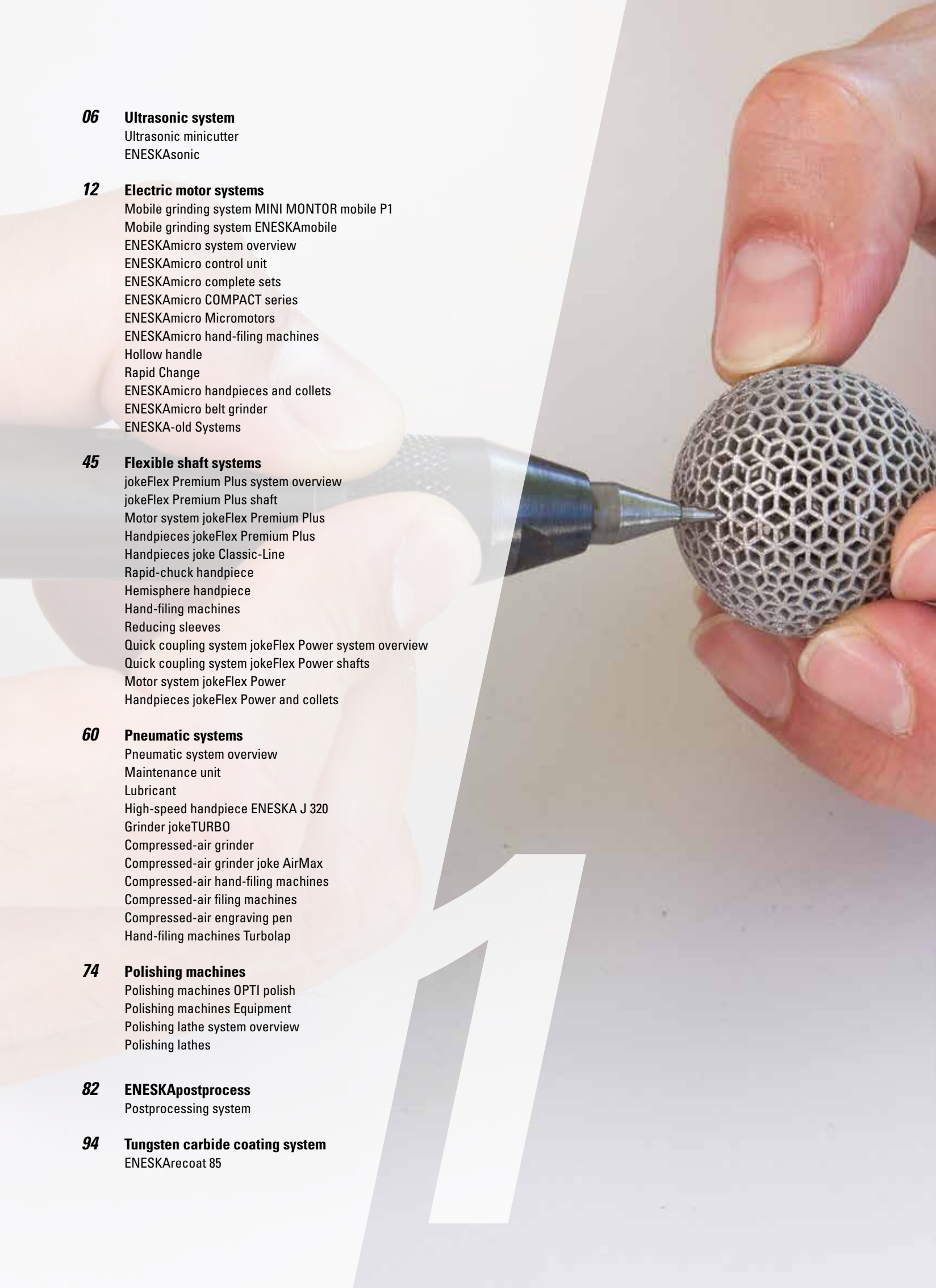
Polishing machines OPTI polish
Polishing machines Equipment
Polishing lathe system overview
Polishing lathes

82 ENESKApostprocess

Postprocessing system

94 Tungsten carbide coating system

ENESKArecoat 85





Ultrasonic minicutter Z0-91

economical alternative for plastic

		Price from
	Order No.	1 piece
Ultrasonic minicutter Z0-91		
	Consisting of:	0 006 260
	1 x control unit	
	1 x handpiece with cable	
	1 x blade receptacle ZH04	
	3 x spare screws HB03 for blade receptacle	
	1 x allen key RR02	
40 x blades HA04		

Accessories / spare parts

		Packing quantity	Order No.	Price from	
				1 pack	1 piece
Spare blades HA04					1 set
		40 pieces	0 006 270		
Blade receptacle ZH04					
			0 006 271		
Blade receptacle set ZH04S					
	Set contents:		0 006 272		
	1x blade receptacle ZH04				
	1x spare screw HB03				
	1x allen key RR02				
Spare screw HB03					
	Suitable for ultrasonic cutter blade holder ZH04		0 006 273		

Ultrasonic lapping and polishing system

ENESKAsonic

The most innovative advancement in the field of ultrasonics
ENESKAsonic – high-efficiency, leading-edge, latest generation for finest stock removal


As with the ENESKAmicro, the ENESKAsonic ultrasonic system is characterised by consistent advancements in every respect. An outstanding feature is the sophisticated design combined with convenient high-tech equipment.

Highlights:


- Intuitive touch operation combined with a rotary controller on high-quality glass
- Modern LED-assisted multifunctional display
- Boost function for applications requiring greater power
- Idle timer detects unused handpieces and protects against wear
- USB charging connection enables for example optional addition of a workplace light without a further power source

The ENESKAsonic is used for polishing and lapping in the frequency range of between 20 and 30 kHz. The Auto Tune function determines the optimum frequency. The infinitely adjustable power control is suitable for fine, delicate work on narrow webs and edges as well as in boost mode for power-intensive, extra abrasive work with sintered diamond files. The LED-assisted display shows the widest range of operating parameters and settings. The 140 g lightweight handpiece with an M6 fine thread is comfortable to hold and enables fatigue-free work.

It was especially important to our development department that this addition to our family should also be “100% Made in Germany” and be reverse-compatible with ENESKA 2-1 handpieces. Guaranteeing this demand for particularly high quality is a major concern for us and protects your years of investment. Combine the ENESKAsonic with an ENESKAmicro and you will receive an unbeatable tandem fully specialised in their respective fields.


	Order No.	Price from 1 piece
Control unit ENESKAsonic		
	Technical Data: Output: max. 80 W Dimensions (w x h x d): 135 x 235 x 200 mm Weight: 2.7 kg Supply voltage: 115/230 V, 50/60 Hz, 150 VA	0 012 001

↓ matching set

	Order No.	Price from 1 piece
Set ENESKAsonic ultrasonic-system		
	The set contains the following components: 1 x control unit ENESKAsonic (Order No. 0 012 001) 1 x rapid-chuck handpiece JUS-50-ES (Order No. 0 012 008) 1 x standard handpiece support, black (Order No. 0 011 110) 1 x screen protector made of tempered glass (Order No. 0 011 098-G) 1 x power cord set for Germany, Switzerland, England and Europe (Order No. 0 007 435-1) 2 x 4 A fuse (Order No. 1 711 407-1) for 110 V use 1 x T10 TORX screwdriver (Order No. 0 006 304-T) 2 x chuck key (Order No. 0 006 347) 1 x tool holder – Ø 3 mm bore (Order No. 0 006 306-E) 1 x tool holder – 1 mm slot width (Order No. 0 006 310-E)	0 012 000-1

Ultrasonic lapping and polishing system







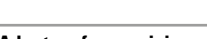
ENESKAsonic • handpieces

				Price from
				1 piece
Order No.				
Ultrasonic handpiece JUS-50-ES				
				0 012 008
Receptacle:	M6/fine			
Frequency:	22.5 kHz (40 µm)			
Dimensions:	Ø 29.7 x 135 mm			
Weight:	140 g (without cable)			
Cable length:	2 m			
Output:	50 W			




⚙️ Accessories / spare parts



					Price from
					1 piece
Tool support					
Profile					
Thread					
Order No.					
Tool holder for receiving round tools					
					0 006 305
					0 006 306-E
Tool holder for receiving flat tools					
					0 006 309
					0 006 310
					0 006 310-E
					0 006 311
					0 006 312

Adapters for receiving ultrasonic tools

		Thread M4	M6/fine	0 006 900
---	--	-----------	---------	------------------

Torx screwdriver

	0 006 304-T
---	--------------------

LED workplace light

	0 200 524
---	------------------

- Flexible light holder tube
- 3-stage adjustable
- With clamp mounting, max. 45 mm clamping range

Technical data:
 Equipment: 3-watt LED / 350 lm
 Colour temperature: 5,000 K
 Connection: USB, 5V 1A / 5V 2A input

Ultrasonic lapping and polishing system ENESKAsonic

⚙️ Accessories / spare parts

	Price from	Price from 1 set	Price from 1 piece
ENESKAsonic ultrasonic-system, plastic case, incl. foam insert and plastic box			
 <p>Easy, bundled transport due to carrying handle. Permanent order due to precisely fitting recesses for each:</p> <ul style="list-style-type: none"> • 1 x handpiece • 1 x control unit • 1 x foot pedal • 5 x tool holder • 1 x plastic box, 46 x 46 x 70 mm (included in delivery) <p>External dimensions (w x h x d): 210 x 396 x 296 mm</p>	0 012 004		
ENESKAmicro footpedal			
 <ul style="list-style-type: none"> • For comfortable control by foot (start/stop, speed adjustment), • Cable length 2 m 	0 011 002		
ENESKAmicro handpiece support standard, black			
 <p>For secure handpiece storage</p>	0 011 110		
ENESKAsonic connection cable			
Suitable for handpiece JUS-45 PB-ES	0 012 006		
Suitable for handpiece JUS-50-ES	0 012 006-1		
ENESKAsonic set blade receptacle with graphic blades			
<p>consisting of:</p> <ul style="list-style-type: none"> 1 x Blade receptacle ENESKAsonic (Order No. 0 006 351) 10 x graphic blades (Order No. 0 006 354) 1 x Torx screwdriver (Order No. 0 006 304-T) 	0 006 350		
			



ENESKAmicro **COMPACT JEM 50C**
Order no. 0 100 001

ENESKAmicro extension **JEEA**
Order no. 0 100 013

Collets JCC
Order no. 0 100 040-
Order no. 0 100 065

ENESKAmicro Rapid-chuck handpiece **JIR 40R**
Order no. 0 100 005

ENESKAmicro handpiece **JBMXLH 40R**
Order no. 0 100 006L

Collets JCB
Order no. 0 100 060-
Order no. 0 100 066

ENESKAmicro handpiece **JEHG 20R**
Order no. 0 100 007

ENESKAmicro angle handpiece
JEAH 60 20R
Order no. 0 100 011


Collets JCS
Order no. 0 100 050-
Order no. 0 100 052

ENESKAmicro angle handpiece
JERA 90 20R
Order no. 0 100 004

ENESKAmicro
Mini hand-filing machines **JMH 20R**
Order no. 0 100 009

ENESKAmicro belt grinder **JBS 20R**
Order no. 0 100 008

Belt sander arm JBS 20R
Order no. 0 100 008-0
Order no. 0 100 008-1
Order no. 0 100 008-2

 **ENESKA 3, 3-1 3-2 handpieces
for minus connection**



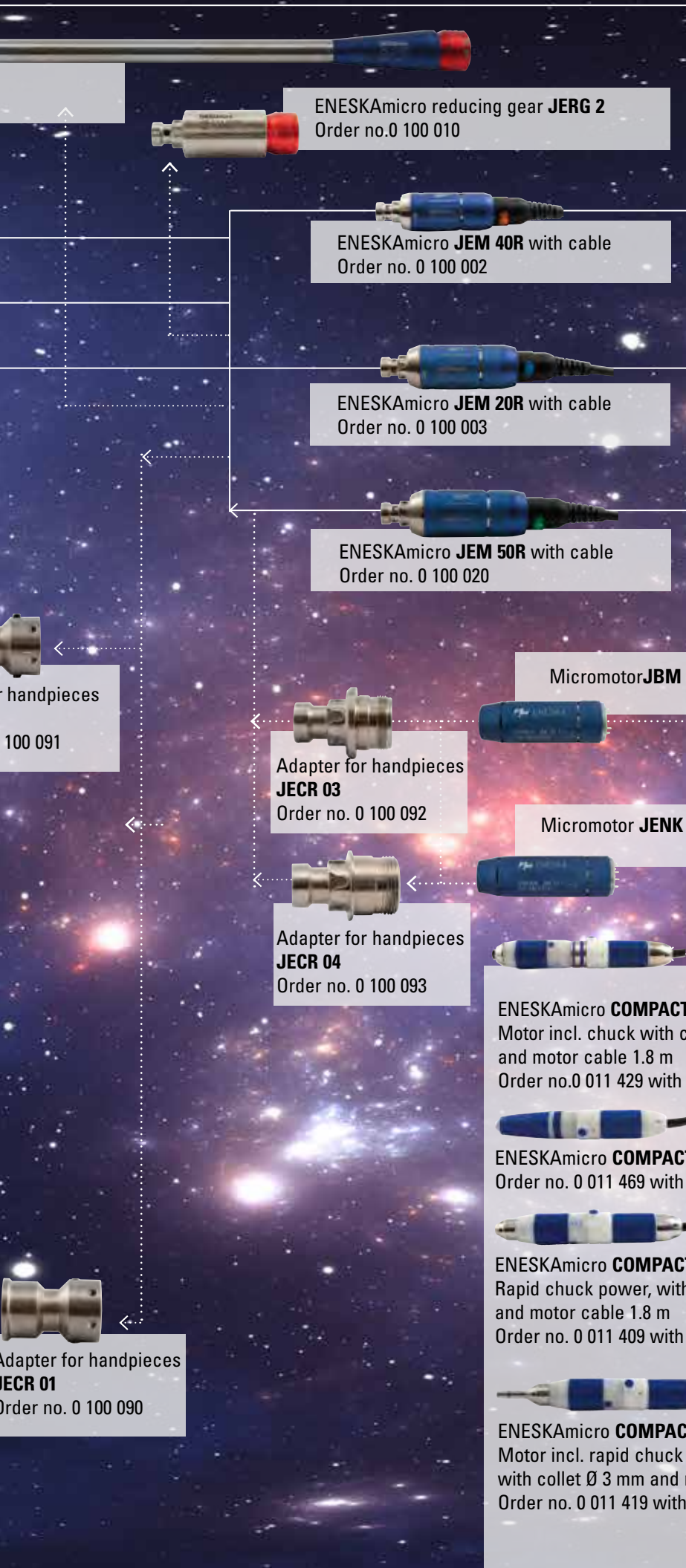
Adapter for
JECR 02
Order no. 0

 **ENESKA 4-1 handpieces
for plus connection**



ENESKAmicro System overview

START



Control unit
ENESKAmicro 600
Order no. 0 011 201

Control unit **PLC**
ENESKAmicro 600
Order no. 0 011 201-AU



Control unit
ENESKAmicro 450
Order no. 0 011 001



Control unit
Battery system
ENESKAmobile
Order no. 0 012 301



Footpedal
Order no. 0 011 002



LED workplace light
Order no. 0 200 524

The new standard for grinding, polishing, milling and deburring

ENESKAmicro – the unbeatable all-round talent

The in-house development by joke sets standards for micromotor systems. What is unique about this series is its system-wide and downwards compatibility as well as extreme power. Higher final speed, more power, higher clamping force for the handpieces, 100% Made in Germany, touch display, USB interface and high level of true running are just some of the highlights of this extraordinary system. This not only enables its use in many new application areas, such as aerospace and 3D printing, but also in conventional toolmaking and mould building or in medical engineering.

Simple to operate with the touch display

The core component of the ENESKAmicro is the intelligent control unit. Intelligent because it automatically detects which micromotor is connected, whether from the joke family or a third-party manufacturer. The individual settings can be saved on the touch display with station keys. The speed input can be set via a finely adjusted rotary knob or optionally via a foot switch. The slim design and low centre of gravity make for high stability. The control unit dispenses with fans or slots – which means less noise pollution for the user and it is also dust-protected (according to IP 54).

The newly developed handpieces achieve a higher clamping force than similar devices on the market. Created by a combination of spring and lever force that keeps the tool in position even at high speeds. The high-precision grinding of all axes and the installation of the latest-generation bearings enable a high level of true running to within less than 0.01 millimetres. Further advantages are the on/off switch directly on the motor and the toolless quick-clamping function. This saves time and guarantees precise, low-vibration and fatigue-free work. The joke team has developed handpieces with a longer XL axis for hard-to-reach areas in workpieces.

The ENESKAmicro offers a genuine alternative to many compressed-air systems.

The facts speak for themselves:

- Tremendously high cost advantage compared to expensive compressed-air
- Remarkably high-speed, variably adjustable
- Low-vibration work
- Quick tool changes without external aids
- Low noise pollution



ENESKAmicro PLC Control units

NEW!

ENESKAmicro plus PLC – the perfect introduction to automated operation

The in-house development by joke sets standards in easy external control of micromotors.

The strength of the new motor series lies in its compatibility with existing motors and control units.

More options await you in accomplishing your tasks with increased requirements in terms of flexibility and the need to optimise processes. For this purpose, joke with its new motors provides targeted solutions.

This not only enables its use in many new application areas, such as aerospace and 3D printing, but also in conventional toolmaking and mould building or in medical engineering.


100% Made in GERMANY


	Order No.	Price from 1 piece
ENESKAmicro 600 control unit PLC	0 011 201-AU	
<div>  </div>		
Highlights of the units with PLC operation <ul style="list-style-type: none"> • PLC mode for external programmable logic controller operation • Standardised connection via 8-pin industrial IO connector for PLC and foot pedal • Analogue signal input for the setpoint speed via 0-5V or 0-10V or • Run/Stop plus digital switching between two independent speeds • In addition, toggling between two motor channels is possible • Digital control for right/left rotation changeover • Standby output (OK/Error) for feedback to superordinate control unit • Extremely simple parameter configuration through settings as for manual operation • Optionally available test box for testing all ext. inputs (plus output) for easy introduction to the automated functions - (article no. 0 011 137) 		
Greater convenience and enhanced functionality with firmware v044 <ul style="list-style-type: none"> • Connection and detection of two BLDC motors and one DC brushed motor • Adjustable speed in 1000 rpm increments up to 60,000 rpm • Control circuit for optimum control behaviour with digital speed display • Familiar clear display structure and operation via touch keys • Simplified and switchable change of rotation direction via the handpiece • Adjustable speed limitation when switching to anticlockwise rotation • User support via extended device messages • Activatable diagnostic display with information on operating parameters 		
<div> <div>Dimensions (W x H x D):</div> <div>135 x 235 x 200 mm</div> </div> <div> <div>Speed (max):</div> <div>60,000 rpm</div> </div> <div> <div>Power consumption:</div> <div>250 W</div> </div> <div> <div>Connected load:</div> <div>90 - 240 V, 50-60 Hz</div> </div>		

Accessories / spare parts

	Order No.	Price from 1 piece
ENESKAmicro SPS Signalkabel 3,0 m	0 011 136	
<div>  </div>		
<div> <div>Plug detail</div> </div>		





ENESKAmicro Control units

	Order No.	Price from 1 piece
ENESKAmicro 600 control unit	0 011 201	
 <ul style="list-style-type: none"> • Infinitely variable speed control up to max. 60,000 rpm • Speed limited by potentiometer • Digital speed display • Connection for 2 motors BLDC and 1 AC motor • Motor recognition • Speed Memory button • Clockwise, anticlockwise running • Connection for foot control • USB charging port allows the addition of a workplace light <p>Weight: 3.6 kg Dimensions (W x H x D): 135 x 235 x 200 mm Connection: 90–240 V, 50–60 Hz</p>		

	Order No.	Price from 1 piece
ENESKAmicro 450 control unit	0 011 001	
 <ul style="list-style-type: none"> • Infinitely variable speed control up to max. 45,000 rpm • Speed limited by potentiometer • Digital speed display • Connection for 2 motors BLDC • Motor recognition • Speed Memory button • Clockwise, anticlockwise running • Connection for foot control <p>Weight: 3.6 kg Dimensions (W x H x D): 135 x 235 x 200 mm Connection: 90–240 V, 50–60 Hz</p>		

ENESKAmicro Control units






Accessories / spare parts

	Order No.	Price from 1 piece
ENESKAmicro footpedal		
 <ul style="list-style-type: none"> • For comfortable control by foot (start/stop, speed adjustment), • Cable length 2 m 	0 011 002	
ENESKAmicro handpiece support HT, white		
 <p>For secure handpiece storage</p>	0 011 109	
ENESKAmicro handpiece support standard, black		
 <p>For secure handpiece storage</p>	0 011 110	
ENESKAmicro extension cable, 2 m		
 <p>Suitable for all motor cables of the ENESKAmicro series</p>	0 011 401	
ENESKAmicro storage case, incl. foam inlay		
<p>Aluminium case with carrying handle and two lockable locks</p> <p>Dimensions (W x H x D): 502 x 150 x 370 mm</p> <p>Weight: 3.2 kg</p>	0 011 910	



ENESKAmicro 600

Complete sets

		Price from
	Order No.	1 set
ENESKAmicro 600 set 2.5		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro COMPACT HT60, Motor incl. Handpiece Power (order no. 0 011 409) 1 x ENESKAmicro Motorcable HT, 1.8 m (order no. 0 011 402) 1 x ENESKAmicro Collet Type EMA, Ø 3 mm (order no. 0 011 413) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109) 	0 011 220
ENESKAmicro 600 set 2.6		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor HT60/rapid chuck Power, XL axle (order no. 0 011 419) 1 x ENESKAmicro motor cable HT, 1.8 m (order no. 0 011 402) 1 x ENESKAmicro collet type EMA, Ø 3 mm (order no. 0 011 413) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109) 	0 011 230
ENESKAmicro 600 set 2.11		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro COMPACT HT60-D6, motor incl. chuck Ø 6 mm (order no. 0 011 429) 1 x ENESKAmicro motor cable HT, 1.8 m (order no. 0 011 402) 1 x ENESKAmicro collet type CHG, Ø 6 mm (order no. 0 011 426) 1 x ENESKAmicro handpiece support, white (order no. 0 011 109) 	0 011 235
ENESKAmicro 600 set 2.14		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro COMPACT HT60 SMALL, motor incl. rapid-chuck head (order no. 0 011 469) 1 x ENESKAmicro motor cable HT, 1.8 m (order no. 0 011 402) 1 x ENESKAmicro collet type EMA, Ø 3 mm (order no. 0 011 413) 1 x ENESKAmicro handpiece support, white (order no. 0 011 109) 	0 011 270
ENESKAmicro 600 set 2.15		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro ENESKAmicro HT60-D6 CNC, motor spindle in stainless steel housing (order no. 0 011 470) 1 x ENESKAmicro motor cable HT-D6, 3 m (order no. 0 011 404-3M) 1 x ENESKAmicro collet type CHG, Ø 3 mm (order no. 0 009 652) 1 x ENESKAmicro collet type CHG, Ø 6 mm (order no. 0 009 651) 	0 011 275

ENESKAmicro 600

Complete sets

NEW!

	Price from
Order No.	1 set

ENESKAmicro 600 set 2.20



The set contains the following components:
 1 x ENESKAmicro 600 control unit (order no. 0 011 201)
 1 x ENESKAmicro motor COMPACT JEM 50C incl. rapid-chuck handpiece and motor cable (order no. 0 100 001)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)

0 011 280

NEW!

	Price from
Order No.	1 set

ENESKAmicro 600 set 2.21



The set contains the following components:
 1 x ENESKAmicro 600 control unit (order no. 0 011 201)
 1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0)
 1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)
 1 x ENESKA rapid-chuck handpiece JIR 40R (order no. 0 100 005) incl. collet type JIR, Ø 3 mm

0 011 285

NEW!

	Price from
Order No.	1 set

ENESKAmicro 600 set 2.22



The set contains the following components:
 1 x ENESKAmicro 600 control unit (order no. 0 011 201)
 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0)
 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)
 1 x ENESKA rapid-chuck handpiece JIR 40R (order no. 0 100 005) incl. collet type JIR, Ø 3 mm

0 011 290

NEW!

	Price from
Order No.	1 set

ENESKAmicro 600 set 2.23




The set contains the following components:
 1 x ENESKAmicro 600 control unit (order no. 0 011 201)
 1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0)
 1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)

0 011 295


ENESKAmicro 600

Complete sets


NEW!

	Order No.	Price from 1 set
ENESKAmicro 600 set 2.24		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0) 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 299	

NEW!


	Order No.	Price from 1 set
ENESKAmicro 600 set 2.25		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 50R (order no. 0 100 020-0) 1 x ENESKAmicro motor cable JEM 50R, 1.85 m (order no. 0 100 030) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIR 40R (order no. 0 100 005) incl. collet type JIR, Ø 3 mm 	0 011 286	


NEW!

	Order No.	Price from 1 set
ENESKAmicro 600 set 2.26		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 50R (order no. 0 100 020-0) 1 x ENESKAmicro motor cable JEM 50R, 1.85 m (order no. 0 100 030) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 296	

ENESKAmicro 450

Complete sets

	Order No.	Price from 1 set
ENESKAmicro 450 Set 2.0		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 450 controller (order no. 0 011 001) 1 x ENESKAmicro COMPACT HT60 SMALL, motor incl. Power clamping head with chuck Ø 3 mm and motor cable 1.8 m (order No. 0 011 469) 1 x ENESKAmicro handpiece tray, white (order No. 0 011 109) 	0 011 045	

	Order No.	Price from 1 set
ENESKAmicro 450 set 1.0		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor COMPACT JEM 50C incl. rapid-chuck handpiece and motor cable (order no. 0 100 001) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 050	

ENESKAmicro 450

Complete sets

NEW!

Price from

Order No. 1 set

ENESKAmicro 450 set 1.01



The set contains the following components:
 1 x ENESKAmicro 450 control unit (order no. 0 011 001)
 1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0)
 1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)
 1 x ENESKA rapid-chuck handpiece JIR 40R (order no. 0 100 005) incl. collet type JIR, Ø 3 mm

0 011 055

NEW!

Price from

Order No. 1 set

ENESKAmicro 450 set 1.02



The set contains the following components:
 1 x ENESKAmicro 450 control unit (order no. 0 011 001)
 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0)
 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)
 1 x ENESKA rapid-chuck handpiece JIR 40R (order no. 0 100 005) incl. collet type JIR, Ø 3 mm

0 011 060

NEW!

Price from

Order No. 1 set

ENESKAmicro 450 set 1.03



The set contains the following components:
 1 x ENESKAmicro 450 control unit (order no. 0 011 001)
 1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0)
 1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)

0 011 065

NEW!

Price from

Order No. 1 set

ENESKAmicro 450 set 1.04



The set contains the following components:
 1 x ENESKAmicro 450 control unit (order no. 0 011 001)
 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0)
 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032)
 1 x ENESKAmicro handpiece support, black (order no. 0 011 110)

0 011 070




ENESKAmicro 600

Change-over sets

NEW!






You already own **joke handpieces of the old generations** and would like to continue to use them? No problem with the update sets put together especially for you. No matter whether with the Plus (+) connection of the previous 4 series or the 3 series, **all connection types can still be used.**

	Order No.	Price from 1 set
ENESKAmicro 600 Conversion package 20+		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0) 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032) 1 x Handpiece adapter JECR 01 (order no. 0 100 090) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 283	
ENESKAmicro 600 Conversion package 20-		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 20R (order no. 0 100 003-0) 1 x ENESKAmicro motor cable JEM 20R, 1.85 m (order no. 0 100 032) 1 x Handpiece adapter JECR 02 (order no. 0 100 091) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 284	
ENESKAmicro 600 Conversion package 40+		
 <p>The set contains the following components:</p> <ul style="list-style-type: none"> 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0) 1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031) 1 x Handpiece adapter JECR 01 (order no. 0 100 090) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 	0 011 281	

ENESKAmicro 600

Change-over sets

NEW!

		Price from
		Order No. 1 set
ENESKAmicro 600 Conversion package 40-		
	The set contains the following components:	0 011 282
	1 x ENESKAmicro 600 control unit (order no. 0 011 201)	
	1 x ENESKAmicro motor JEM 40R (order no. 0 100 002-0)	
	1 x ENESKAmicro motor cable JEM 40R, 1.85 m (order no. 0 100 031)	
	1 x Handpiece adapter JECR 02 (order no. 0 100 091)	
	1 x ENESKAmicro handpiece support, black (order no. 0 011 110)	
ENESKAmicro 600 Conversion package 50+		
	The set contains the following components:	0 011 287
	1 x ENESKAmicro 600 control unit (order no. 0 011 201)	
	1 x ENESKAmicro motor JEM 50R (order no. 0 100 020-0)	
	1 x ENESKAmicro motor cable JEM 50R, 1.85 m (order no. 0 100 030)	
	1 x Handpiece adapter JECR 01 (order no. 0 100 090)	
	1 x ENESKAmicro handpiece support, black (order no. 0 011 110)	
ENESKAmicro 600 Conversion package 50-		
	The set contains the following components:	0 011 288
	1 x ENESKAmicro 600 control unit (order no. 0 011 201)	
	1 x ENESKAmicro motor JEM 50R (order no. 0 100 020-0)	
	1 x ENESKAmicro motor cable JEM 50R, 1.85 m (order no. 0 100 030)	
	1 x Handpiece adapter JECR 02 (order no. 0 100 091)	
	1 x ENESKAmicro handpiece support, black (order no. 0 011 110)	

ENESKAmicro

Handpieces and motors

3rd generation | powerful | constant speed | perfectly quiet running extremely high concentricity



ENESKAmicro | The next generation handpieces and motors

A whole series of new applications have emerged in recent years in the field of surface finishing. New tools have developed in parallel that place different demands on the drive units.

With the 3rd generation of ENESKA motors, joke takes account of these new requirements and in doing so achieves a genuine game change: the range of speeds with conventional surface finishing devices is very wide these days, e.g. 0 - 60,000 rpm, in order to be able to cater for as many applications as possible. This misses the point of everyday work however, as very few users have tasks that cover this entire range. In addition, motors with such a wide range of speeds cannot deliver constant power over the whole spectrum. Torque is often lacking in the lower speed range. This lack of power results in speed fluctuations, which in turn are negatively reflected in the grinding or polishing pattern. joke is therefore adopting a different, more practical approach with its new generation of motors: For the first time, users now have the possibility of choosing among different motors. They can now choose the one with the **performance characteristics that best suit their applications. All models are characterised by their durability, power, ergonomical handling, precision and high efficiency.**

Drives are available that are still suitable for a wide range of tasks but, like competitive athletes, are particularly strong in their main disciplines:

- THE WORKER FOR TASKS THAT CALL FOR PARTICULAR POWER, WHICH NECESSITATE A LOW SPEED AND A HIGH TORQUE AT THE SAME TIME.
- THE FINE FINISHER FOR LIGHT WORK THAT REQUIRES PARTICULARLY FINE FINGERTIP CONTROL.
- THE FAST RUNNER FOR WORK WITH TOOLS THAT REQUIRE HIGH SPEEDS, SUCH AS MILLING OR GRINDING
- THE ALLROUNDER FOR HIGH FLEXIBILITY AND A WIDE RANGE OF APPLICATIONS WHERE MEDIUM TORQUE IS SUFFICIENT

All four motors run at a very constant speed and operate extremely quietly with low vibration.

Cool cut with a ceramic fibre cut-off disc



Convex shapes - belt grinder and grinding belts



Polishing wood with hand-filing machine



Welding seam with Blue Stones grinding



Aluminium polishing with angle-handpiece and felt

ENESKAmicro

Micromotors 3rd generation

NEW!



	Order No.	Price from 1 piece
--	-----------	-----------------------

ENESKAmicro COMPACT JEM 50C, motor incl. rapid-chuck handpiece and motor cable

The fast runner

The range is rounded off with the JEM 50C. Owing to its compact design, it offers perfectly quiet running and extremely high concentricity. With its high speed of up to 50,000 rpm, it is perfectly suited for all applications with tools that require high speeds, such as milling cutters and the like. Integrated high-quality collets Ø 3 mm for frequent tool changes.

ENESKAmicro COMPACT JEM 50C • motor incl. rapid chuck • motor cable • brushless DC motor

Output: 200 watts
 Rotation speed range: 1,000 - 50,000 1/min
 Torque: 8.4 N cm
 Dimensions: Ø 27.5 mm x 137.6 mm (without coupling)
 Weight: 215 g (without motor cable)
 Switch: on motor cable

0 100 001



Attention: The handpiece is fixed to the motor. It's therefore not possible to change the handpiece.

	Order No.	Price from 1 piece
--	-----------	-----------------------

ENESKAmicro COMPACT JEM 50C CNC, motor incl. rapid-chuck handpiece in stainless steel housing

NEW!

For mounting in fixtures

Collet type: JCC
 Output: 200 watts
 Torque: 8.4 N cm
 Speed range: 1,000 - 50,000 1/min
 Noise level: < 67 dB(A) at 50,000 1/min

0 100 012



Attention: The handpiece is fixed to the motor. It's therefore not possible to change the handpiece.

 Accessories / spare parts

	Order No.	Price from 1 piece
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ENESKAmicro motor cable for JEM 50R and COMPACT JEM 50C



0 100 030

ENESKAmicro extension cable, 2 m



Suitable for all motor cables of the ENESKAmicro series

0 011 401

Collet type JCC

Ø 1.0 mm	0 100 040
Ø 1.2 mm	0 100 041
Ø 1.4 mm	0 100 042
Ø 1.6 mm	0 100 043
Ø .8 mm	0 100 044
Ø 2.0 mm	0 100 045
Ø 2.35 mm	0 100 046
Ø 3.0 mm	0 100 047
Ø 3.175 mm	0 100 048

ENESKAmicro

Micromotors 3rd generation

NEW!

Price from

Order No.

1 piece

ENESKAmicro motor JEM 50R, up to 50,000 rpm, incl. motor cable

0 100 020

The all-rounder

With the JEM 50R, joke offers a motor that is particularly suitable for users who require a high degree of flexibility and have a wide range of applications for which a medium torque is sufficient.

The motor operates at up to 50,000 revolutions and can therefore be used for polishing and grinding, but also deburring work.

Brushless AC motor

Output: 200 watts

Speed range: 1000 - 50,000 rpm

Torque: 8.4 N cm

Dimensions: Ø 27.5 mm x 137.6 mm (without coupling)

Weight: 43.6 g (without motor cable)

Switch: on motor cable



⚙️ Accessories / spare parts

Price from

Order No.

1 piece

ENESKAmicro reduction gear JERG 2



Reduction ratio:

4:1

Speed range:

up to 40,000 1/min

0 100 010

Extension JEEA 300 mm

0 100 013



ENESKAmicro motor cable for COMPACT JEM 50C

0 100 030



ENESKAmicro extension cable, 2 m

Suitable for all motor cables of the ENESKAmicro series

0 011 401



ENESKAmicro




Micromotors 3rd generation

NEW!

	Order No.	Price from 1 piece
ENESKAmicro motor JEM 40R, up to 40,000 rpm, incl. motor cable		
<p>The fine finisher The JEM 40R is the perfect choice for light work that requires handpieces that are both fine and delicate. Ideal for use in jewellery working, for example.</p> <p>ENESKAmicro JEM 40R, brushless AC motor with max. 40,000 rpm • incl. motor cable • rapid-Change coupling</p> <p>Output: 84 watts Rotation speed range: 1,000 - 40,000 1/min Torque: 4.0 N cm Dimensions: Ø 25 mm x 71.4 mm Weight: 100 g (without motor cable) Switch: on motor cable</p>	0 100 002	



⚙️ Accessories / spare parts

	Order No.	Price from 1 piece
ENESKAmicro reduction gear JERG 2		
 <p>Reduction ratio: 4:1 Speed range: up to 40,000 1/min</p>	0 100 010	
Extension JEEA 300 mm		
	0 100 013	
ENESKAmicro motor cable JEM 40R		
	0 100 031	
ENESKAmicro extension cable, 2 m		
 <p>Suitable for all motor cables of the ENESKAmicro series</p>	0 011 401	

ENESKAmicro Micromotors 3rd generation **NEW!**

	Order No.	Price from 1 piece
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ENESKAmicro motor JEM 20R, up to 20,000 rpm, incl. motor cable

0 100 003

The worker

With the JEM 20R, joke addresses users who mainly work in the low speed range (up to 20,000 rpm), but require a particularly high torque. It is precisely these users who usually come up against performance limits with conventional motors.

Speed fluctuations, which occur with most motors, are directly reflected in the grinding or polishing pattern and result in problems. The new JEM 20R provides a torque that makes such problems a thing of the past. The constant-speed motor guarantees an absolutely clean and harmonious microsection, even with challenging tasks.

ENESKAmicro JEM 20R, brushless AC motor with max. 20,000 rpm • incl. motor cable • Rapid-Change coupling

Output:	73 watts
Rotation speed range:	1,000 - 20,000 1/min
Torque:	5.0 N cm
Dimensions:	Ø 27.5 mm x 78.1 mm
Weight:	145 g (without motor cable)
Switch:	on motor cable



⚙️ Accessories / spare parts

	Order No.	Price from 1 piece
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ENESKAmicro reduction gear JERG 2



Reduction ratio:	4:1
Speed range:	up to 40,000 1/min

0 100 010

Extension JEEA 300 mm

0 100 013



ENESKAmicro motor cable JEM 20R

0 100 032



ENESKAmicro extension cable, 2 m

Suitable for all motor cables of the ENESKAmicro series

0 011 401




ENESKAmicro Handpieces

JIR 40R

NEW!



			Price from
			1 piece
Order No.			
ENESKAmicro quick-release handpiece JIR 40R			
	Collet:	Ø 3 mm in scope of delivery	0 100 005
	Speed:	max. 40,000 r/min	
	Dimensions:	Ø 26 mm x 90 mm	
	Concentricity:	± 0.01 mm	
	Weight:	112 g	

⚙️ Accessories / spare parts


			Price from
			1 piece
Order No.			
Collet JCC			
Ø 1.0 mm			0 100 040
Ø 1.2 mm			0 100 041
Ø 1.4 mm			0 100 042
Ø 1.6 mm			0 100 043
Ø 1.8 mm			0 100 044
Ø 2.0 mm			0 100 045
Ø 2.35 mm			0 100 046
Ø 3.0 mm			0 100 047
Ø 3.175 mm			0 100 048

ENESKAmicro Handpieces

JBMXLH 40R

NEW!




			Price from
			1 piece
Order No.			
ENESKAmicro handpiece JBMXLH 40R			
	with extended shank 126 mm		0 100 006L
	Collet:	Ø 3 mm in scope of delivery	
	Speed:	max. 40,000 r/min	
	Dimensions:	Ø 12.6 mm / Ø 21.8 mm x 198.5 mm	
	Concentricity:	± 0.01 mm	
	Weight:	152 g	

⚙️ Accessories / spare parts

			Price from
			1 piece
Order No.			
Collet JCC			
Ø 1.0 mm			0 100 040
Ø 1.2 mm			0 100 041
Ø 1.4 mm			0 100 042
Ø 1.6 mm			0 100 043
Ø 1.8 mm			0 100 044
Ø 2.0 mm			0 100 045
Ø 2.35 mm			0 100 046
Ø 3.0 mm			0 100 047
Ø 3.175 mm			0 100 048



ENESKAmicro Handpieces JEHG 20R Heavy-Duty **NEW!**


		Price from
	Order No.	1 piece
ENESKAmicro handpiece JEHG 20R, heavy-duty		
	Collet: Speed: Dimensions: Concentricity: Weight:	Ø 6 mm in scope of delivery max. 20,000 r/min Ø 22.5 mm x 99.5 mm ± 0.01 mm 141 g
		0 100 007

⚙️ Accessories / spare parts



	Price from
	Order No. 1 piece
Collet JCB	
Ø 2.35 mm	0 100 060
Ø 3.0 mm	0 100 061
Ø 6.0 mm	0 100 065

ENESKAmicro Handpieces JMH 20R **NEW!**



	Price from
	Order No. 1 piece
ENESKAmicro mini hand filing machine JMH 20R	
	Tool holder: Stroke length: Max. Strokes: Max. Speed input: Dimensions: Weight:
	max. Ø 3.2 mm 1.0 mm 12,000 rpm 20,000 rpm Ø 21.8 x 125.0 mm 142 g
	0 100 009

⚙️ Accessories / spare parts


	Price from
	Order No. 1 piece
Handpiece adapter JECR 03	
	for ENESKA JEM ,R' handpieces on ENESKA 4 motor series
	0 100 092
Handpiece adapter JECR 04	
	for ENESKA JEM ,R' handpieces on ENESKA 3 motor series
	0 100 093

ENESKAmicro Handpieces

JERA 90 20R

NEW!



			Price from
			1 piece
ENESKAmicro angle handpiece JERA 90 20R			
	Collet:	Ø 3 mm included	0 100 004
	Speed:	max. 20,000 r/min, reversal of the direction of rotation	
	Concentricity:	± 0.01 mm	
	Dimensions:	Ø 21.8 x 73 mm	
	Weight:	92 g	
	Vibration:	2.5 m / s ²	
Noise level:		70 dB	

⚙️ Accessories / spare parts


		Price from
		1 piece
Collet JCS		
Ø 2.35 mm	0 100 050	
Ø 3.0 mm	0 100 051	
Ø 3.175 mm	0 100 052	

ENESKAmicro Handpieces

JEAH 60 20R

NEW!



			Price from
			1 piece
ENESKAmicro angle handpiece JEAH 60 20R			
	Collet:	Ø 3 mm in scope of delivery	0 100 011
	Speed:	max. 20,000 r/min	
	Concentricity:	± 0.01 mm	
	Dimensions:	Ø 22.5 mm x 80.8 mm (head: Ø 15.9 mm)	
	Weight:	91 g	

⚙️ Accessories / spare parts

		Price from
		1 piece
Collet JCS		
Ø 2.35 mm	0 100 050	
Ø 3.0 mm	0 100 051	
Ø 3.175 mm	0 100 052	

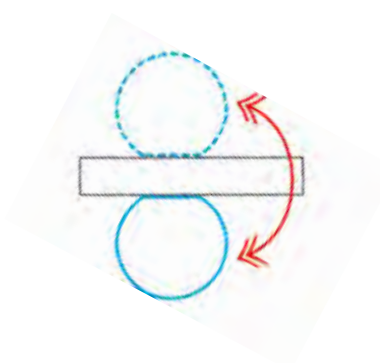
for ergonomic handling of your handpieces

NEW!

Hollow handle for ENESKAmicro

Perfect handling of the handpiece during polishing. The handle hemisphere fits perfectly into the hand, thereby providing full control with fatigue-free work. By simple conversion, the handle can be used by both right and left-handed individuals.

	Order No.	Price from 1 piece
Hollow handle for ENESKAmicro with with R-coupling		
	0 009 249	




Easy change between
right-hand and left-hand operation!



JEAH 60 20R

NEW!

	Order No.	Price from 1 piece
ENESKAmicro reduction gear JERG 2		
	0 100 010	
Reduction ratio: 4:1 Speed range: up to 40,000 1/min		



JEAH 60 20R

NEW!

	Order No.	Price from 1 piece
Extension JEEA 300 mm		
	0 100 013	



ENESKAmicro Belt grinder

JBS 20R



NEW!



			Price from
			Order No. 1 piece
ENESKAmicro belt grinder JBS 20R			
Speed:	max. 20,000 r/min	0 100 008	
for Beltsize:	4 mm / 6 mm / 8 mm with guide, changeable handling		
Weight:	227 g		




⚙️ Accessories / spare parts

			Price from
			Order No. 1 piece
Handpiece adapter JECR 03			
	for ENESKA JEM ,R' handpieces on ENESKA 4 motor series	0 100 092	
Handpiece adapter JECR 04			
	for ENESKA JEM ,R' handpieces on ENESKA 3 motor series	0 100 093	
Belt sander arm JBS 20R			
Complete for 4 mm belts without guidance		0 100 008-0	
Complete for 4, 6 and 8 mm belts without guidance		0 100 008-1	
Complete for 4, 6 and 8 mm belts with guidance		0 100 008-2	



Grinding belt 3M Trizact


NEW!

				Price from		
				1 piece	100 pieces	300 pieces
Grinding belt 3M Trizact						
	6 x 300 mm	280	0 404 360			
		240	0 404 361			
		120	0 404 362			
		80	0 404 363			



ENESKAmicro Belt grinder J-BS 100

Belt grinder J-BS

Compliments the ENESKAmicro system. This belt grinder is screwed onto the micromotors, just like a handpiece. It is small, fits nicely in your hand and can be used for delicate work. The head can be swivelled on its axis by approximately 90°. A hand rest is located above the grinding belts to enable the device to be used safely with both hands.

		Price from
		Order No. 1 piece
Belt grinder JBS 100 with (-)-connection		
	For connection to micromotors with (-)-connection, fits grinding belts 4, 6 and 8 mm wide.	0 009 950
	Gearing: 8:3	
	Input rotation speed: max. 35,000 rpm	
	Output speed: max. 13,000 rpm	
	Weight: 355 g	
Delivered with two grinding belts 6 x 300 mm respectively in grain sizes 120, 240 and 400.		

Accessories / spare parts










		Price from
		Order No. 1 piece
Handpiece adapter JECR 01		
	for ENESKA 4 handpieces with ENESKA JEM „R“ series	0 100 090
Handpiece adapter JECR 02		
	for ENESKA 3 handpieces with ENESKA JEM „R“ series	0 100 091








ENESKAmicro Belt grinder

J-BS 100 • JBS 20R






⚙️ Accessories / spare parts

	Hardness	Dimensions	Grit size	Packing quantity	Order No.	Price from	
						1 pack	10 packs
Grinding belt, diamond							
	soft	8 x 300 mm	180	3 pieces	0 404 343		
		8 x 300 mm	240	3 pieces	0 404 344		
		8 x 300 mm	800	3 pieces	0 404 348		
		8 x 300 mm	1000	3 pieces	0 404 349		
Grinding belt, corundum							
		6 x 300 mm	120	10 pieces	0 401 540		
		6 x 300 mm	240	10 pieces	0 401 541		
		6 x 300 mm	320	10 pieces	0 401 545		
		6 x 300 mm	400	10 pieces	0 401 542		
		6 x 300 mm	500	10 pieces	0 401 549		
		6 x 300 mm	600	10 pieces	0 401 547		
		8 x 300 mm	80	50 pieces	0 401 930		
		8 x 300 mm	120	50 pieces	0 401 931		
		8 x 300 mm	180	50 pieces	0 401 932		
		8 x 300 mm	240	20 pieces	0 401 933-0		
		8 x 300 mm	320	50 pieces	0 401 934		
		8 x 300 mm	400	20 pieces	0 401 935-0		
		8 x 300 mm	600	20 pieces	0 401 936-0		
		8 x 300 mm	800	20 pieces	0 401 937-0		
		8 x 300 mm	1000	30 pieces	0 401 938		
Grinding belt, zirconium corundum							
		6 x 300 mm	80	10 pieces	0 401 543		
		6 x 300 mm	120	10 pieces	0 401 544		




ENESKAmicro COMPACT series COMPACT HT60

		Design	Order No.	Price from 1 piece
ENESKA micro COMPACT HT60				
	<ul style="list-style-type: none">• With collet Ø 3 mm• Brushless DC motor BLDC• On-off switch located on the micromotor		Incl. motor cable 1.8 m and fan	0 011 409
	Motor speed:	max. 60,000 rpm		
	Output:	8.9 N cm at 280 W		
	Weight:	0.4 kg		
	Dimensions (D x L):	Ø 30 x 170 mm		
	Concentricity:	< +/- 0.01 mm		
	Collet type:	EMA		
<div><div></div><div></div><div></div><div></div><div>Attention: Suitable for work from an motor speed > 20,000 1/min!</div></div>				

COMPACT HT60 SMALL



		Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT HT60 SMALL				
	<ul style="list-style-type: none">• With collet Ø 3 mm• Brushless DC motor BLDC• On-off switch located on the micromotor	Incl. motor cable 1.8 m and fan	0 011 469	
	Motor speed:	max. 60,000 rpm		
	Output:	7.8 N cm at 260 W		
	Weight:	0.22 kg		
	Dimensions (D x L):	Ø 28 x 156 mm		
	Concentricity:	< +/- 0.01 mm		
	Collet type:	EMA		
<div><div></div><div></div><div></div><div></div><div>Attention: Suitable for work from an motor speed > 20,000 1/min!</div></div>				



Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece
Collet type EMA			
	Ø 1.6 mm	0 011 411	
	Ø 2.35 mm	0 011 412	
	Ø 3.0 mm	0 011 413	
	Ø 1/8"	0 011 414	
ENESKAmicro motor cable HT, 1.8 m			
	For connecting the micromotors HT to the ENESKAmicro and ENESKA-mobile control units	0 011 402	
ENESKAmicro extension cable, 2 m			
	Suitable for all motor cables of the ENESKAmicro series	0 011 401	



ENESKAmicro COMPACT series

COMPACT HT60-D6

	Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT HT60-D6			
	<ul style="list-style-type: none"> • With collet Ø 6 mm • Brushless DC motor BLDC • On-off switch located on the micromotor <p>Motor speed: up to max. 50,000 rpm Output: 8.9 N cm at 280 W Weight: 0.475 kg Dimensions (D x L): Ø 30 x 180 mm Concentricity: < +/- 0.01 mm Collet type: EMB</p>	Incl. motor cable 1.8 m and fan	0 011 429
 Attention: Suitable for work from an motor speed > 20,000 1/min!			


ENESKAmicro HT60-D6 CNC			
	<ul style="list-style-type: none"> • With collet Ø 3 and 6 mm • Brushless DC motor BLDC <p>Motor speed: up to max. 50,000 rpm Output: 8.9 N cm at 280 W Weight: 0.5 kg Dimensions (D x L): Ø 28 x 170 mm Clamping shank: Ø 28 x 45 mm Concentricity: < +/- 0.01 mm Collet type: CHG</p>	incl. motor cable 3 m, stainless steel case	0 011 470
			

Accessories / spare parts

	Dimensions	Order No.	Price from		
			1 piece	3 pieces	5 pieces
Collet type CHG					
	Ø 2.35 mm	0 009 653			
	Ø 3.0 mm	0 009 652			
	Ø 6.0 mm	0 009 651			
ENESKAmicro extension cable, 2 m					
	Suitable for all motor cables of the ENESKAmicro series	0 011 401			
ENESKAmicro motorcable HT-D6, fan-variation					
		0 011 404-1			

ENESKAmicro COMPACT series




COMPACT HT60-XL

	Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT HT60-XL			
 <ul style="list-style-type: none"> • With collet Ø 3 mm • Brushless DC motor BLDC • On-off switch located on the micromotor • XL axle 	Incl. motor cable 1.8 m and fan	0 011 419	
			<p>Motor speed: up to max. 50,000 rpm</p> <p>Output: 8.9 N cm at 280 W</p> <p>Weight: 0.4 kg</p> <p>Dimensions (D x L): Ø 30 x 200 mm</p> <p>Collet axle: Ø 8 x 30 mm (outside the housing)</p> <p>Concentricity: < +/- 0.01 mm</p> <p>Collet type: EMA</p>



Attention: Suitable for work from an motor speed > 20,000 1/min!

Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece
Collet type EMA			
	Ø 1.6 mm	0 011 411	
	Ø 2.35 mm	0 011 412	
	Ø 3.0 mm	0 011 413	
	Ø 1/8"	0 011 414	
ENESKAmicro motor cable HT, 1.8 m			
	For connecting the micromotors HT to the ENESKAmicro and ENESKA-mobile control units	0 011 402	
ENESKAmicro extension cable, 2 m			
	Suitable for all motor cables of the ENESKAmicro series	0 011 401	





ENESKAmicro Hand-filing machines with integrated micromotor

Hand-filing machine DIPROFIL® Di-Pro FXM-N, Mark II

Hand-filing machines with integrated micromotor

These hand-filing machines with a built-in micromotor can be directly connected to suitable ENESKAmicro 600 series control units. No additional micromotor is required.



		Price from
		Order No. 1 piece
Hand-filing machine DIPROFIL® Di-Pro FXM-N, Mark II		0 001 521-N
	for direct connection to ENESKAmicro control units 600	
	Stroke length: of 0 – 6 mm, continuously adjustable (0.5 – 3 mm recommended)	
	No. of strokes: max. 7,000 strokes/min (5,000 – 6,000 strokes/min recommended)	
	Tool receptacle: Ø 2 – 6.4 mm	
	Insertion depth: 40 mm	
	Vibration: 1.55 – 5.08 m/s ²	
	Weight: 860 g	
	Noise level: < 75 dB (A) at 7,000 strokes/min	
Accessories: Storage case, tool set, extension tube /finger protection bush, counterweights, replacement friction bearing and felts, lubricating oil		
		

ENESKAmicro Hand-filing machines with integrated micromotor

Hand-filing machine DIPROFIL® FPM/R, Mark II

Hand-filing machines with integrated micromotor

These hand-filing machines with a built-in micromotor can be directly connected to suitable ENESKAmicro 600, as well as DIPROFIL® DPU-3 series control units (via adapter). No additional micromotor is required.



		Price from
		Order No. 1 piece
Hand-filing machine DIPROFIL® FPM/R, Mark II		0 005 201-N
	for direct connection to ENESKAmicro control units 600	
	Stroke length: 0.5 – 6 mm, infinitely adjustable	
	Number of strokes: 1,000 – 7,800 strokes/min.	
	Initial speed: max. 30,000 rpm	
	Tool receptacle: Ø 1 – 6.2 mm	
	Weight: 800 g	
	Scope of supply: 2 tool holders, tool set, oil and storage case	
		



Suitable tool holders can be found on **page 249**
and on the web at **www.joke-technology.com**





ENESKAmicro Hand-filing machines with (+) connection

Hand-filing machine JFMM 4

		Price from
		Order No. 1 piece
Hand-filing machine JFMM 4, complete with accessories		
 	For connection to micromotors with (+) connection, with step-down gear ratio 4:1	0 005 300
	Stroke length: 0 – 6 mm, continuously adjustable	
	No. of strokes: max. 7,800 strokes/min	
	Initial speed: max. 30,000 1/min	
	Tool support: Ø 1 – 6.2 mm	
	Weight: 750 g	
	Accessories: storage box, tool holder, tool set, oil	

i Combine new motors with existing, older handpieces?
Or new handpieces with earlier generation motors?
No problem: These adapters make it possible!



		Price from
		Order No. 1 piece
Handpiece adapter JECR 01		
	for ENESKA 4 handpieces with ENESKA JEM „R‘ series	0 100 090
Handpiece adapter JECR 02		
	for ENESKA 3 handpieces with ENESKA JEM „R‘ series	0 100 091
Handpiece adapter JECR 03		
	for ENESKA JEM „R‘ handpieces on ENESKA 4 motor series	0 100 092
Handpiece adapter JECR 04		
	for ENESKA JEM „R‘ handpieces on ENESKA 3 motor series	0 100 093

Mobile polishing system ENESKAmobile

ENESKAmobile


The handy, battery operated ENESKAmobile polishing system is the ideal tool for setters and toolmakers – anywhere that grinding, polishing, milling or deburring is required. Robust and shock-resistant, it can be used flexibly in any place, and away from the work bench.

This mobile device is extremely versatile as it can be used with all motors, handpieces and filing machines compatible with the ENESKAmicro. It is also powerful and long-lasting. The batteries can be charged separately, which allows non-stop working. With up to 3 hours battery life under full load and a maximum torque of 6.5 N cm at 40,000 rpm, it can be used in a significantly wider range of applications than conventional devices of this type.




The speed is continuously adjustable from 2,000 to 40,000 rpm. Left and right rotation are also a matter of course with this single-handed device.

Highlights:

- Extremely versatile, as it can be connected to all ENESKAmicro motors (BLDC), handpieces and filing machines
- Ergonomic handling given by start/stop function directly on the motor, straightforward control unit and pocket-size casing
- High-quality Li-Ion batteries
- No inconvenient time lost waiting for the batteries to charge, because they are exchangeable and can be recharged separately
- for brushless DC motor (BLDC)
- Runs clockwise/anticlockwise
- Monitoring of battery level and temperature
- Digital control with protective disconnection
- High torque with max. of 6.5 N cm on the motor shaft

		Price from
		Order No. 1 piece
ENESKAmobile cordless grinder system, control unit		
	Technical data:	0 012 301
	Speed:	2,000 – 40,000 rpm (steplessly adjustable)
	Battery:	14.8 V Li-Ion
	Exchangeable battery:	yes
	Battery capacity:	3,000 mAh
	Output power:	44.4 W
	Operating time:	up to 3 hours
	Load time:	2.5 hours for 80 % + 0.5 hours for 100 %
	Dimensions (w x h x d):	176 x 103 x 49 mm
Weight (without battery): 200 g		
Weight (with battery): 480 g		
# Control unit ONLY, WITHOUT battery and charger #		

Accessories / spare parts

		Price from
		Order No. 1 piece
ENESKAmobile cordless grinder system, charger		
	• ENESKAmobile charger including power supply (only power supply unit Order No. 2 112 203)	0 012 302
	• LED charge level indicator	
	• Clip-In function for joke battery pack	
	• Dimensions (w x h x d): 176 x 103 x 42 mm	
	• Weight: 200 g	
ENESKAmobile cordless grinder system, replacement battery-pack		
	• Li-Ion 14.8 V	0 012 303
	• 3,000 mAh	
	• 44.4 Wh	
	• LG 41SP	
	• Clip-In function for joke ENESKAmobile charger	
	• CE approved	
	• Dimensions (w x h x d): 100 x 103 x 36 mm	
	• Weight: 280 g	
ENESKAmobile cordless grinder system, plastic case with foam pad		
	Plastic case with foam insert for:	0 012 304
	• ENESKAmobile control unit including battery	
	• ENESKAmobile charger with power supply	
	• 2 additional battery slots	
	• One-piece handpiece or micromotor with mounted handpiece with cable rewind	
	• Position slots for handpiece tools	



The ENESKAmobile system offers the following options for using handpieces



ENESKAmicro rapid chuck handpiece JIR 40R
Order No.: **0 100 005**



ENESKAmicro handpiece JEHG 20R
Order No.: **0 100 007**



ENESKAmicro mini hand-filing machine JMH 20R
Order No.: **0 100 009**



ENESKAmicro belt grinder JBS 20R
Order No.: **0 100 008**



ENESKAmicro handpiece JBMXLH 40R
Order No.: **0 100 006L**



ENESKAmicro angle-handpiece JERA 90 20R
Order No.: **0 100 004**



ENESKAmicro angle-handpiece JEAH 60 20R
Order No.: **0 100 011**



ENESKAmicro reducing gear JERG 2
Order No.: **0 100 010**



Extension JEEA 300 mm
Order No.: **0 100 013**



Video ENESKAmobile



Device sets and other variants
can be found in our shop at:
www.joke-technology.com

1

2

3

4

5

6

7



Be mobile everywhere! Powerful, lightweight and easy to use.



Mobile polishing system ENESKAmobile

↓ matching set

NEW!

		Price from
	Order No.	1 set
ENESKAmobile cordless grinder system Set JEM 40R		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • ENESKAmicro JEM 40R, motor with 40,000 r/min incl. motor cable (Order No. 0 100 002) • ENESKAmicro rapid-chuck handpiece JIR 40R, incl. Ø 3 mm collet (Order No. 0 100 005) • Plastic case (Order No. 0 012 304) 	0 012 355
ENESKAmobile cordless grinder system Set JEM 20R		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • ENESKAmicro JEM 20R, motor with 20,000 r/min incl. motor cable (Order No. 0 100 003) • ENESKAmicro rapid-chuck handpiece JIR 40R, incl. Ø 3 mm collet (Order No. 0 100 005) • Plastic case (Order No. 0 012 304) 	0 012 360
ENESKAmobile cordless grinder system Set JEM 50R		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • ENESKAmicro JEM 50R, motor with 50,000 r/min incl. motor cable (Order No. 0 100 020) • ENESKAmicro rapid-chuck handpiece JIR 40R, incl. Ø 3 mm collet (Order No. 0 100 005) • Plastic case (Order No. 0 012 304) 	0 012 365
ENESKAmobile cordless grinder system Set COMPACT JEM 50C		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • ENESKAmicro COMPACT JEM 50C, motor incl. rapid-chuck handpiece and motor cable (Order No. 0 100 001) • plastic case (Order No. 0 012 304) 	0 012 300
ENESKAmobile cordless grinder system Set LITE		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • plastic case (Order No. 0 012 304) 	0 012 315
ENESKAmobile cordless grinder system Set COMPACT		
	<p>The set contains the following components:</p> <ul style="list-style-type: none"> • ENESKAmobile control unit (Order No. 0 012 301) • ENESKAmobile charger including power supply (Order No. 0 012 302) • ENESKAmobile battery-pack (Order No. 0 012 303) • ENESKAmicro COMPACT HT60 SMALL, Motor incl. Rapid-Chuck-Handpiece Power, fan-variation (Order No. 0 011 469) • plastic case (Order No. 0 012 304) 	0 012 350


Mobile polishing system MINI MONTOR mobile 1 P

MINI MONTOR mobile 1 P

The mobile system for grinding, milling and polishing. Maximum mobility in processing large workpieces, for this compact system can now be taken with you almost anywhere. The Ni-Mh storage battery is not only environment friendly; it is durable too: 90 minutes working time at a stretch. If ever the juice dries up, you can also continue work with the mains cable (the storage battery is recharged in the meantime!).

The handpiece (with an integrated motor) can be rotated clockwise and anticlockwise, is infinitely adjustable in speed and is electrically protected against overload. The handpiece can be set in motion both by hand and using a foot switch. The speed can also be regulated in both ways.


The set consisting of control unit, handpiece and all accessories is supplied in a compact hard-shell aluminium case.


	Order No.	Price from 1 piece
Mobile control unit MPC20-W		
	For infinite speed control of the handpiece MPH 33. Including integrated storage battery (Ni-Mh) for mobile use.	0 006 713
	Dimensions (W x H x D): 72 x 42 x 171 mm Weight: 300 g Storage battery type: Ni-Mh Charging time: 60 min. Working time: 90 min.	

⚙️ *Accessories / spare parts*

	Order No.	Price from 1 piece
Battery for MPC20-W		
		0 006 724

↓ *matching set*

	Order No.	Price from 1 piece
Set MINI MONTOR mobile 1 P		
	This set consists of: 1 x control unit MPC20-W (Order No. 0 006 713) 1 x handpiece with integrated micromotor (Order No. 0 006 711) (incl. 1 x collet Ø 3 mm Order No. 0 006 704) 1 x charging device ACP01 (Order No. 0 006 714) 1 x foot controller TPF30 (Order No. 0 006 701) 1 x handpiece rack TRC02 (Order No. 0 006 702) 1 x hard-shell aluminium case (Order No. 0 006 703)	0 006 700

	Order No.	Price from 1 piece
Handpiece MPH 33		
	Speed: max. 30,000 rpm Output: 20 W Dimensions: Ø 25 x 143 mm Weight: 180 g (incl. cable) Collet: Ø 3 mm (in scope of delivery)	0 006 711

Motor system with flexible shaft jokeFlex Premium Plus

jokeFlex Premium PLUS

- Minimised noise emission
- The most powerful joke motor of all time
- Compatible with accessories from the previous generation
- Flexible shafts with silicon hose

jokeFlex Premium Plus motor system

Our flexible shaft system for today and the future. The core is the motor with an impressive 1,000 watts power. The noise level is reduced to a pleasant level in spite of increased power. The motor can be used in a hanging or lying position. Thanks to the robust construction of the suspension and shaft connection, it is optimally equipped for a hard day's work.

The matching **joke Premium Plus handpieces** fulfill all requirements which are expected of a modern handpiece. They lie comfortably and securely in the hand, muffle vibrations effectively and tire the worker's hand over long working periods. This is achieved by the uniformly narrow handle made of special rubber which is used in all handpieces. At least equally important: the inside. And also here high tech is the key. The handpieces are very robust and have a closed double bearing inside. The result is extremely quiet-running operation. Further advantages of the Premium Plus hand-pieces: changing the tool in seconds, without pinning.

The joke Premium Plus handpieces are available in a straight design or with a 90° angle head. The handpieces are of course also available in Rapid-Change design which connects to the motor system in a second. A closer look at the angle handpiece is worth-while: the slim, almost filigree head gives you the opportunity of reaching and processing even otherwise difficult to access areas of the workpiece.



Motor system with flexible shaft jokeFlex Premium Plus



Handpiece
joke Premium Plus
Order No. 0 030 200
Collet Typ GH



Angle-handpiece
joke Premium Plus
Order No. 0 030 250
Collet Typ WH



Technical handpiece
THSZ/N
Order No. 0 030 004
Collet Typ GH



Angle-handpiece
VTN-N 90°
Order No. 0 031 341
Collet Typ WH



Angle-handpiece
VTN-S/N
Order No. 0 031 540
Collet Typ GH



Rapid-chuck handpiece
TH-M II
Order No. 0 030 640
Collet Typ TH



Hemisphere handpiece
NHG-L
Order No. 0 031 400
Collet Typ WH



Hand-filing machines
DIPROFIL®
Di-Pro FXK-N, Mark II
Order No. 0 001 503-N



Hand-filing machines
DIPROFIL®
FPK/R, Mark II
Order No. 0 005 151-N



Flexible shafts
Premium Plus

Standard motor connection
Spring clip 1.1 m
Order No. 0 015 800
Rapid-Change 1.1 m
Order No. 0 015 900

Quick-change motor connection
Spring clip 1.1 m
Order No. 0 016 800
Rapid-Change 1.1 m
Order No. 0 016 900



Motor
jokeFlex Premium Plus
Order No. 0 016 550



Foot control
Premium
Order No. 0 016 600



Suspension device,
clamp-on
Order No. 0 020 200



Quick coupling system
joke Rapid-Change
Coupling piece
Order No. 0 015 250
Connector plugs for
handpieces see from page 54!

Motor system with flexible shaft

jokeFlex Premium Plus

Premium Plus flexible shafts

The Premium Plus flexible shafts are consistently optimised to suit everyday requirements in industry. The silicone hose offers many advantages:

- Utmost flexibility and suppleness
- Extremely smooth running (owing to minimised vibrations)
- Very quiet
- No heat generation

For connecting the handpieces, our flexible shafts offer you a choice between a spring clip and the joke Rapid-Change quick coupling system. This innovative system allows safe handpiece change in a few seconds without any "fumbling around". Shafts with a hook spring are also available on request.

On the motor side, a choice of shafts with standard motor connection or the joke Quick-Change "premium connection" is available.

Shaft connectors



Flexible shaft with spring clip



available on request!

Flexible shaft with hook ring



Flexible shaft with Rapid-Change coupling



Motor connectors



joke Quick-Change
motor connector



Standard motor connector
(with pins)

	Shaft connection	Motor connection	Dimensions	Order No.	Price from 1 piece
Flexible shaft with Rapid-Change coupling					
	Rapid Change coupling	standard	1,100 mm	0 015 900	
		Quick-Change	1,100 mm	0 016 900	
Flexible shaft with spring clip					
	Spring clip	standard	1,100 mm	0 015 800	
	Spring clip	Quick-Change	1,100 mm	0 016 800	

Motor system with flexible shaft


jokeFlex Premium Plus

jokeFlex Premium Plus motor system


Our flexible shaft system for today and the future. The core is the motor with an impressive 1,000 watts power. The noise level is reduced to a pleasant level in spite of increased power. The motor can be used in a hanging or lying position. Thanks to the robust construction of the suspension and shaft connection, it is optimally equipped for a hard day's work.

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The joke Premium Plus handpieces are available in a straight design or with a 90° angle head. The handpieces are of course also available in Rapid-Change design which connects to the motorsystem in a second. A closer look at the angle handpiece is worthwhile: the slim, almost filigree head gives you the opportunity of reaching and processing even otherwise difficult to access areas of the workpiece.

	Order No.	Price from 1 piece
Motor jokeFlex Premium Plus		
	Robust construction (shaft connection and suspension) pleasant noise level, can be used lying and hanging, compatible with foot controller Premium Rotational speed: max. 18,000 1/min Power: 1,000 W input, 700 W output Dimensions (H x W x D): 240 x 105 x 95 mm Weight: 2.1 kg Cable length: 2.2 m Shaft connection: Quick-Change	0 016 550

↓ matching set


	Design	Order No.	Price from 1 piece
Advantage package jokeFlex Premium Plus			
	Rapid-Change	0 016 850R	
	standard	0 016 850	
This advantage package for getting started straight away includes: 1 x motor Premium Plus (Order No. 0 016 550) 1 x foot controller Premium (Order No. 0 016 600) 1 x flexible shaft Premium Plus 1.1 m length (Order No. 0 016 800, for Rapid-Change Order No. 0 016 900)			

⚙ Accessories / spare parts




	Order No.	Price from 1 pack	1 piece
Foot control Premium, Motor system with flexible shaft			
	To adjust motor speed by foot action Speed range: 3,000 to 22,000 1/min Speed restriction: the potentiometer can be used to limit maximum speed to between 10,000 to 22,000 rpm Dimensions: Ø 190 (230 with pedal) x 200 mm Weight: 2 kg Supply voltage: 230 volts, 50 Hz Cable length: 2.8 m	0 016 600	
Suspension device G2, height adjustable			
	<ul style="list-style-type: none"> • Fixable to the workbench; clamping range: max. 70 mm • Height adjustable between 700 and 1,100 mm • Depth adjustable: cantilever arm adjustable by max. 300 mm • Lockable in any desired position • Colour: blue/silver 	0 020 200	
Spring clip, Standard			
	Proven steel design, pack contents: 20 pieces	0 015 201	


joke Premium Plus

Handpieces




	Type	Order No.	Price from 1 piece
Handpiece joke Premium Plus			
	Rotational speed: max. 22,000 1/min Collet: GH (Ø 3 mm in scope of delivery) Dimensions: Ø 25 x 138 mm Weight: 160 g Scope of delivery: including tool set	standard Rapid-Change	0 030 200 0 030 200R

⚙️ Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece 3 pieces
Collet type GH			
	Ø 2.35 mm – 3/32"	0 030 010	
	Ø 3 mm	0 030 013	
	Ø 6 mm	0 030 016	
Driver			
		0 030 205	
Connector plug			
	Rapid change to joke Premium Plus handpieces	0 015 285	


	Type	Order No.	Price from 1 piece
Angle-Handpiece 90° joke Premium Plus			
	Rotational speed: max. 18,000 1/min, clockwise rotation Collet: WH (Ø 3 mm in scope of delivery) Dimensions: Ø 26 x 165 mm (head Ø 17 x 27 mm) Weight: 170 g Scope of delivery including tool set	standard Rapid-Change	0 030 250 0 030 250R

⚙️ Accessories / spare parts




	Dimensions	Order No.	Price from 1 piece 3 pieces
Collet type WH			
	Ø 2.35 mm – 3/32"	0 031 301	
	Ø 3 mm	0 031 302	
Driver			
		0 030 205	
Connector plug			
	Rapid change to joke Premium Plus handpieces	0 015 285	


Handpieces

joke Classic-Line




		Type	Order No.	Price from 1 piece
Handpiece THSZ/N				
	Collet:	GH (Ø 3 mm in scope of delivery)	standard	0 030 004
	Speed:	max. 18,000 1/min	Rapid-Change	0 030 004R
	Dimensions:	Ø 24 x 132 mm		
	Weight:	120 g		
	Scope of delivery:	wrench, clamping pin		

⚙️ Accessories / spare parts


	Dimensions	Order No.	Price from 1 piece	3 pieces
Collet type GH				
	Ø 2.35 mm – 3/32"	0 030 010		
	Ø 3 mm	0 030 013		
	Ø 6 mm	0 030 016		
Driver for Rapid-Change				
		0 015 262		
Connector plug				
	Rapid change to Handpiece THSZ/N Order No. 0 030 004, 0 030 005 and 0 030 006	0 015 261-1		

		Type	Order No.	Price from 1 piece
Angle-handpiece VTN-N 90°				
	70 mm telescope-type extendable angle head with 90° head adjustment, clockwise rotation		standard	0 031 341
	Collet:	WH (Ø 2.35 and Ø 3 mm in scope of delivery)	Rapid-Change	0 031 341R
	Speed:	max. 18,000 1/min		
	Dimensions:	Ø 24 x 175 mm (head Ø 17 x 30 mm)		
	Weight:	185 g		
	Scope of delivery:	tool kit		




⚙️ Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece	3 pieces
Collet type WH				
	Ø 2.35 mm – 3/32"	0 031 301		
	Ø 3 mm	0 031 302		
Driver				
		0 015 264		
Connector plug				
	Rapid change to Anglehandpiece VTN/N	0 015 263		

Handpieces joke Classic-Line


			Type	Order No.	Price from 1 piece
Angle-handpiece VTN-S/N					
	Collet:	GH (Ø 3 and Ø 6 mm in scope of delivery)	standard	0 031 540	
	Speed:	max. 18,000 1/min	Rapid-Change	0 031 540R	
	Rotation:	clockwise			
	Dimensions:	Ø 24 x 171 mm (head Ø 24 x 40 mm)			
	Weight:	240 g			
	Scope of delivery:	tool kit			

⚙️ Accessories / spare parts



	Dimensions	Order No.	Price from 1 piece	3 pieces
Collet type GH				
	Ø 2.35 mm – 3/32"	0 030 010		
	Ø 3 mm	0 030 013		
	Ø 6 mm	0 030 016		
Driver				
		0 031 563		
Connector plug				
	Rapid change for anglehandpiece VTN-S/N	0 015 265		

Rapid-chuck handpiece TH-M II

This Rapid-chuck handpiece was designed for lighter jobs involving frequent tool changes. The selected tools are clamped in using the clamping lever fitted on the top.

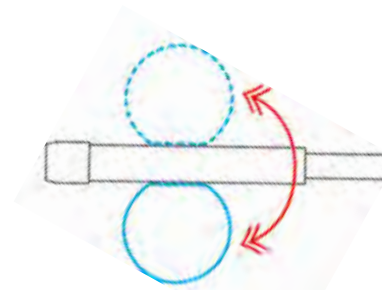
			Type	Order No.	Price from 1 piece
Rapid-chuck handpiece TH-M II					
	Collet:	TH (Ø 3 mm in scope of delivery)	standard	0 030 640	
	Speed:	max. 15,000 1/min	Rapid-Change	0 030 640R	
	Dimensions:	Ø 21.9 x 139 mm			
	Weight:	107 g			

⚙️ Accessories / spare parts


	Dimensions	Order No.	Price from 1 piece	3 pieces
Collet type TH				
	Ø 2.35 mm	0 030 641		
	Ø 3 mm	0 030 642		
Driver				
		0 030 666		
Connector plug				
	Rapid Change suitable for the TH-M II quick release handpiece (0 030 640)	0 015 273		

Hemisphere handpiece NHG-L




Our special recommendation for polishing jobs (for example, when using rings for finishing). The hemisphere attached to the handle provides a fatigue-free handrest and can be adapted for either right or left-handed users.




Easy change between
right-hand and left-hand operation!

	Type	Order No.	Price from 1 piece
Hemisphere handpiece NHG-L			
	standard	0 031 400	
	Rapid-Change	0 031 400R	
Telescopically extendable angle head (70 mm), with 125° head adjustment, anticlockwise rotation Collet: WH Speed: max. 11,000 1/min Dimensions: Ø 18 x 190 mm (head Ø 18 x 30 mm) Weight: 250 g Scope of delivery: Collet Ø 3 mm, holder for ring Ø 12 mm, tool kit			


Accessories / spare parts


	Dimensions	Order No.	Price from	
			1 piece	3 pieces
Collet type WH				
	Ø 2.35 mm – 3/32"	0 031 301		
	Ø 3 mm	0 031 302		
Driver				
		0 015 256		
Connector plug				
	Rapid change for hollow Handpiece	0 015 255		

Hand-filing machines DIPROFIL® Di-Pro • FXK-N • FPK/R


		Type	Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® FPK/R, Mark II				
	Stroke length:	0 – 6 mm, (recommended 0.5 – 3 mm)	standard	0 005 151-N
	No. of strokes:	max. 8,000 strokes/min (5,000 – 6,000 strokes/min recommended)	Rapid-Change	0 005 151R-N
	Tool receptacle:	Ø 2 – 6.4 mm		
	Insertion depth:	40 mm		
	Vibration:	5.79 – 13.37 m/s ²		
	Sound level:	< 70 dB(A) at 7,000 strokes/min (acc. to ISO 15744)		
	Weight:	575 g		
	Scope of delivery:	storage case, tool set, oil, extension tube/ finger protection bush, replacement friction bearing and felts, lubricating oil		

⚙️ Accessories / spare parts



	Order No.	Price from 1 piece	3 pieces
Driver			
	0 015 252		
Connector plug			
	Rapid change to DIPROFIL® FPB/R, FPK/R, FPB/RL, FPK/RLV, FXB	0 015 251	

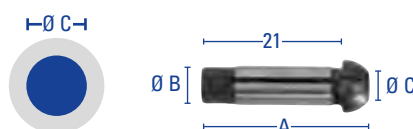
		Type	Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® Di-Pro FXK-N, Mark II				
	Stroke length:	0.5 – 6 mm (recommended 0.5 – 3 mm)	standard	0 001 503-N
	No. of strokes:	max. 7,000 strokes/min, (5,000 – 6,000 strokes/min recommended)		
	Tool receptacle:	Ø 2 – 6.4 mm		
	Insertion depth:	40 mm		
	Vibration:	1.55 – 5.08 m/s ²		
	Sound level:	< 75 dB(A) at 7,000 strokes/min		
	Weight:	700 g		
	Scope of delivery:	Storage case, tool set, extension tube, finger protection bush, counterweights replacement friction bearing and felts, lubricating oil		

⚙️ Accessories / spare parts

	Order No.	Price from 1 piece	3 pieces
Driver			
	0 015 252		
Connector plug			
	Rapid change to DIPROFIL® FPB/R, FPK/R, FPB/RL, FPK/RLV, FXB	0 015 251	

Reducing sleeves to allow use of a smaller shaft diameter in larger collets

	Length A	Dimensions	Order No.	Price from	
				1 piece	5 pieces
Reducing bush RHB					
	28 mm	B Ø 3.0 C Ø 2.35 mm	0 545 287		
Reducing bush with collar					
	25 mm	B Ø 3.0 C Ø 1.6 mm	0 010 583		
		B Ø 3.0 C Ø 2.35 mm	0 010 588		
		B Ø 6.0 C Ø 3.0 mm	0 545 288		



More reducing bushes on request!
Other reducing bushes in 0.1 mm decrements are available!

Quick coupling system joke Rapid-Change

joke Rapid-Change


The revolution in secure, rapid handpiece changes. The joke Rapid-Change quick coupling system means you can change handpieces in just a few seconds: just pull out the old handpiece and push in the new one. Hey presto!

This system does not just optimise hand-piece changes however. It also means that you can work with joke Rapid-Change more safely and economically, because firstly, there is no longer any risk of injury from spring clips and secondly, repair costs are lower. A "Rapid-Change connection" between the hand-piece and the shaft simply lasts longer.

You can continue to use your existing hand-pieces. All you need is a conversion set and a coupling piece, which is simply fitted to the handpiece end of the flexible shaft.

When buying handpieces, you can choose between the standard design with spring clips and the version with the Rapid-Change connector.



	Order No.	Price from	
		1 piece	3 pieces
Rapid-Change coupling for jokeFlex Premium Plus			
	for mounting at the flexible shaft (handpiece end)	0 015 250	

Handpiece conversion in just two steps:



jokeFlex Power

Motor • Accessories • Flexible shafts

Motor system jokeFlex Power –

The heavyweight champion

Our most powerful driving motor – for your coarse and large surface grinding needs. The jokeFlex Power motor system delivers up to 13,000 rpm – adjustable in 100 rpm steps. Everything is adjusted and controlled digitally. Soft start, stable speeds and an active brake are the decisive advantages of the unit's electronic control. Low speeds down to 500 rpm are also possible with this system – thanks to powerful torque with real pulling power! Force is not the same as mass. The high-output motor in the metal housing is robust, but thanks to its light and compact design. It is also suitable for portable use. Also: the jokeFlex Power system has a 230 V connection, enabling it to be quickly connected anywhere.

- Output max. 1,500 W (230 V supply voltage)
- High torque for stability at all speeds
- Digital control and monitoring
- Versatile operation thanks to large range of handpieces



jokeFlex motor Power 2.0
Order No. 0 019 020



Straight handpiece FH 4 INOX
Order No. 0 019 120



Angle handpiece WI 4
Order No. 0 019 130



Adapter for belt grinder
Order No. 0 019 150
Adapter for belt grinder on request!

Belt grinders

- KAK 16/4**
Order No. 0 019 155
- KAK 16/9**
Order No. 0 019 160
- KAK 25/9**
Order No. 0 019 165
- KAK 9/9**
Order No. 0 019 170
- KAK 25/1.5**
Order No. 0 019 175



Straight handpiece FH 7 INOX
Order No. 0 019 420



Angle Handpiece WI 7
Order No. 0 019 230

Shaft connection G16

Flexible shaft DIN 10/G16
Order No. 0 019 100

Motor connection DIN 10

Flexible shaft DIN 10/G22
Order No. 0 019 200


Shaft connection G22




Movable stands
Order No. 0 019 021


jokeFlex Power

Motor • Accessories • Flexible shafts



		Order No.	Price from 1 piece
Motor jokeFlex Power 2.0			
	Speed between: steps)	500 and 13,000 1/min (adjustable in 100 rpm)	0 019 020
	Power output:	1,650 W	
	Power consumption:	2,000 W	
	Shaft connection:	DIN 10	
	Supply voltage:	230 V, 50/60Hz, 1 phase	
	Sound level:	63 dB(A)	
	Dimensions (W x H x D):	472 x 340 x 352 mm	
	Weight:	27 kg	

⚙️ Accessories / spare parts


		Order No.	Price from 1 piece
Movable stands for jokeFlex Power 2.0			
	Dimensions (W x L x H):	Ø 470 x 470 x 606 mm	0 019 021
	Weight:	23 kg	

	Shaft connection	Motor connection	Dimensions	Order No.	Price from 1 piece
Flexible shaft jokeFlex Power					
	G 16	DIN 10	Ø 4 x 1,250 mm	0 019 100	
	G 22	DIN 10	Ø 7 x 1,500 mm	0 019 200	



⚙️ Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece
Flexible shaft core NA 4 / G 16 for jokeFlex Power			
	Ø 4 x 1,250 mm	0 019 101	
Flexible shaft core NA 7 / G 22 for jokeFlex Power			
	Ø 7 x 1,500 mm	0 019 201	


jokeFlex Power Handpieces

			Order No.	Price from 1 piece
Straight handpiece FH 4 INOX				
	Shaft connection:	G 16	0 019 120	
	Speed:	max. 40,000 rpm		
	Dimensions:	Ø 20 x 107 mm		
	Weight:	135 g		
	Accessories:	Collet 6 mm, chuck key set		


Accessories / spare parts

	Dimensions	Type	Order No.	Price from 1 piece
Collet for handpiece FH 4				
	Ø 3 mm	FH	0 019 111	
	Ø 6 mm	FH	0 019 112	
				


jokeFlex Power Handpieces

			Order No.	Price from 1 piece
Straight handpiece FH 7 INOX				
	Shaft connection:	G 22	0 019 420	
	Speed:	max. 25,000 rpm		
	Dimensions:	Ø 27 x 128 mm		
	Weight:	315 g		
	Accessories:	Collet 6 mm, chuck key set		


Accessories / spare parts

	Dimensions	Type	Order No.	Price from 1 piece
Collets for handpieces FH 7, FH 10				
	Ø 3 mm	FH	0 019 211	
	Ø 6 mm	FH	0 019 212	
	Ø 8 mm	FH	0 019 213	


jokeFlex Power Handpieces

			Order No.	Price from 1 piece
Angle handpiece WI 4				
	Shaft connection:	G 16	0 019 130	
	Rotation speed:	max. 20,000 rpm (1 : 1), clockwise		
	Dimensions:	Ø 23 x 111 x 43 mm		
	Weight:	265 g		
	Accessories:	Collet 3 mm, chuck key set		

⚙️ Accessories / spare parts

	Dimensions	Type	Order No.	Price from 1 piece
Collet for angle handpiece WI 4				
	Ø 3 mm	WI	0 019 131	
	Ø 6 mm	WI	0 019 132	

jokeFlex Power Handpieces

			Order No.	Price from 1 piece
Angle handpiece WI 7				
	Shaft connection:	G 22	0 019 230	
	Speed:	max. 17,000 rpm (1.3:1), clockwise		
	Dimensions:	Ø 36 x 156 x 61 mm		
	Weight:	610 g		
	Accessories:	Collet 6 mm, chuck key set		

⚙️ Accessories / spare parts

	Dimensions	Order No.	Price from 1 piece
Collets for angle handpieces WI 7, WI 10 and jokeAirMax			
	Ø 3 mm	0 750 831	
	Ø 6 mm	0 750 832	

Demonstration

We are on the road every day and bring our know-how to you. You can test the whole range of our equipment and products (3D post-processing, welding, new motors and control units for polishing, chamfering, deburring, grinding and much more) in your premises at your own workpieces! We have everything on board!!

Would you like a personal demonstration? Arrange an appointment with us:

Phone +49 2204 / 839-0
email sales@joke.de.



Team joke



Pneumatics

System overview



Pneumatics System overview



**Maintenance unit
joke Oiljet**
Order No. 0 004 070



Tips for proper oiling

To ensure that the motors of the compressed-air devices are adequately lubricated during operation, the air processed by the maintenance unit joke Oiljet is impregnated with oil. Particularly with compressed-air grinders and DIPROFIL® hand-filing machines, less is often more: With these machines, the optimum injection quantity is approx. 2 – 3 drops per minute.

NEW!



**Set:
High-speed handpiece
P320 with maintenance
unit J 320-2**
Order No. 0 009 900-1



**Hand-filing machines
Turbolap linear stroke
Turbolap TLL 03**
Order No. 0 750 702

Turbolap TLL 07
Order No. 0 750 700

Turbolap TLL 12
Order No. 0 750 701



**Hand-filing machines
Turbolap transverse stroke
Turbolap TLS 03**
Order No. 0 750 709

Turbolap TLS 07
Order No. 0 750 704

Turbolap TLS 12
Order No. 0 750 703



**Compressed-air filing
machine PRV-70**
Order No. 0 751 630



**Compressed-air filing
machine FRV-110**
Order No. 0 751 600



**Compressed-air grinder
ENESKAir G1000**
Order No. 0 751 100



**Maintenance unit
joke Dryjet**
Order No. 0 004 080

Maintenance unit with oil

Hand-filing machines without oil


Maintenance unit without oil

Maintenance units



joke Oiljet • joke Dryjet

Maintenance units

Maintenance unit for connection to all joke compressed-air equipment. Excellent compressed-air treatment with filter, manual water separator and a micro-oiler that is simple and precise to operate. The joke Oiljet Maintenance Unit is delivered preassembled with filter, manual water separator, pressure reducer, pressure gauge, micro-oiler and wall attachment. We recommend our prepared installation packs for connecting the individual compressed-air devices. Optimum results in conjunction with the two high-performance lubricants.


		Price from
		Order No. 1 piece
Maintenance unit joke Dryjet		
	Filter controller MD1-FR0000-1/4:	0 004 080
	Max. Working flow:	1,200 l / min
	Max. Inlet pressure:	16 bar
	Container capacity:	24 cm ³
	Condensate drain:	semi-automatic-manual, automatic via pressure relief, drain via threaded connection G1/8
Air connection:		1/4"
Medium:		compressed air
Scope of delivery:		25 µm filter, manual water separator, pressure reducer, pressure gauge and wall mountin

⚙ Accessories / spare parts





		Price from
		Order No. 1 piece
Ball stop valve 1/4"		
	1x internal and 1x external thread 1/4"	0 004 053
Double nipple 1/4"		
	Fits on connector for Turbolap handpieces, supplied with two O-rings	1 722 246-0

Maintenance units

joke Oiljet • joke Dryjet



	Order No.	Price from 1 piece
Maintenance unit joke Oiljet		
	Filter controller MD1-FR0000-1/4:	0 004 070
	<ul style="list-style-type: none"> • Max. Working flow: 1,200 l / min • Max. Inlet pressure: 16 bar • Container capacity: 24 cm³ • Condensate drain: semi-automatic-manual, automatic via pressure relief, drain via threaded connection G1/8 • Air connection: 1/4" • Medium: compressed air 	
	Oiler MD1-L00-1/4:	
	<ul style="list-style-type: none"> • Max. Inlet pressure: 16 bar • Container capacity: 40 cm³ • Air connection: 1/4" • Medium: compressed air 	
	Scope of delivery: 25 µm filter, manual water separator, micro oiler, pressure reducer, pressure gauge and wall mounting	

Accessories / spare parts

	Order No.	Price from 1 piece
Installation pack DIPROFIL®		
	The package contains everything necessary for the direct connection of the maintenance unit to its air supply line (including 1.5 m hose) and for connection of the DIPROFIL® hand-filing machine with (3 m hose) rapid coupling HSI-M (including lubricant MFA-K in a 0.5 l container).	0 004 051
Installation pack Turbo hand grinder		
	The package contains everything necessary for the direct connection of the maintenance unit to its air supply line (including 1.5 m hose) and for connection of the Turbo hand grinder including high- performance lubricant X 73012 in a 1 l container.	0 004 055
Ball stop valve 1/4"		
	1x internal and 1x external thread 1/4"	0 004 053
Double nipple 1/4"		
	Fits on connector for Turbolap handpieces, supplied with two O-rings	1 722 246-0

Lubricants

for compressed-air grinders and hand-filing machines

		Content	Order No.	Price from 1 piece
High-performance lubricant X 73012				
	For all compressed-air grinders	0.1 litre	0 580 601	
	For all compressed-air grinders	1 litre	0 580 602	
	For all compressed-air grinders	5 litres	0 580 603	
Lubricant MFA-K				
	for all DIPROFIL® hand-filing machines	0.5 litre	0 004 002	



Tips for proper oiling

To ensure that the motors of the compressed-air devices are adequately lubricated during operation, the air processed by the maintenance unit joke Oiljet is impregnated with oil. Particularly with compressed-air grinders and DIPROFIL® hand-filing machines, less is often more: With these machines, the optimum injection quantity is approx. 2 – 3 drops per minute.



High-speed handpiece J 320

NEW!

High-speed handpiece J 320

The virtuoso among our handpieces. This handpiece can be used for the highest precision jobs anywhere; for example, when deburring steel, stainless steel or even glass and plastics. Thanks to its compact, ergonomic and – due to its aluminium casing – very light design, the handpiece fits perfectly in your hand and can be held like a pen. This means that the user can work even for longer periods without tiring. Changing tools takes just seconds, thanks to the Quick-Change mechanism: Twist, take out old tool, click in new tool, that's it.



	Order No.	Price from 1 set
--	-----------	---------------------

Set J 320 incl. high-speed handpiece



Complete set incl. handpiece including collet Ø 1.6 mm, 2 m air line and connection, maintenance unit, foot switch and connecting accessories (3-part)
 Dimensions (W x H x D): 115 x 160 x 100 mm (Maintenance unit)
 Ø 19 x 130 mm (handpiece)
 Weight handpieces: 71 g
 Speed: 320,000 1/min
 Air pressure: 3,0 bar
 Air consumption: 35 l/min
 Noise level: 75 dB(A) at 320,000 1/min

0 009 900-1

	Order No.	Price from 1 piece
--	-----------	-----------------------

High-speed handpiece J 320






Speed max.: 320,000 1/min
 Air pressure: 3.0 bar
 Air consumption: 35 l/min
 Noise level : < 75 dB(A) at 320,000 rpm
 Dimensions: Ø 19 x 130 mm
 Weight: 71 g

0 009 901-1

Accessories 2 m air line and collet Ø 1.6 mm

⚙️ Accessories / spare parts

	Dimensions	Type	Order No.	Price from 1 piece
Collet Ø 1.6 mm				
	Ø 1.6 mm	J 320	0 009 909-1	
Head, complete (spare), incl. collet				
			0 009 902-1	
Foot control				
		Foot controller high-speed handpiece, incl. double hose	0 009 916	

Hand-grinders joke TURBO

Only a limited number of pieces left!

Hand-grinders joke TURBO

Our own old favourites: thanks to a powerful blade motor, these air grinders deliver real power (70 watts) and yet run very quietly (70 dB(A)). Thanks to their sturdy design, they are virtually tireless workhorses. Ideal for coarse grinding as well as finer tasks. Little maintenance is required, thanks to permanent lubrication by the oil mist (optimum: 3 drops/min). The drive air is led out backwards via a tube and baffle.

Use with:

joke Oiljet
(page 63)





- The installation pack (Order no. 0 004 055) contains everything for connecting the "TURBOs".
- Suitable collets (type CHS) to be found on page 39!
- Suitable tool holders with clamping shank on page 249!
- The matching rubber holder Ø 30 mm with internal thread bears the order no. 0 531 008!

	Hand grinders joke TURBO G 180/60	Hand grinders joke TURBO W 45/40	Hand grinders joke TURBO W 45/23	Hand grinders joke TURBO W 90/23
Rotation speed	60,000 1/min	40,000 1/min	23,000 1/min	23,000 1/min
Power	70 W	70 W	70 W	70 W
Air pressure	4 – 6 bars	4 – 6 bars	4 – 6 bars	4 – 6 bars
Air consumption	165 l/min	165 l/min	165 l/min	165 l/min
Exhaust air	backwards	backwards	backwards	backwards
Noise level	80 – 90 dB(A)	80 – 90 dB(A)	80 – 90 dB(A)	80 – 90 dB(A)
Vibration	< 0.32 m/s ²	< 0.32 m/s ²	< 0.56 m/s ²	< 0.56 m/s ²
Dimensions	Ø 24 x 146 mm	Ø 24 x 158 mm	Ø 51.5 x 159 mm	Ø 46.5 x 152 mm
Weight	200 g	230 g	230 g	230 g
Lubrication	continuously by oil mist	continuously by oil mist	continuously by oil mist	continuously by oil mist
Scope of delivery	Tube package (1.1 m) with coupling sleeve 1/4", collet Ø 3 mm (type CHS), tool set	Tube package (1.1 m) with coupling sleeve 1/4", collet Ø 3 mm (type CHS), tool set	1 x rubber holder, 2 x cup wheels, 1 x clamping shank, assortment of consumables, tool set, tube package 1.1 m with coupling sleeve 1/4", collet Ø 3 mm (type CHS)	1 x rubber holder, 2 x cup wheels, 1 x clamping shank, assortment of consumables, tool set, tube package 1.1 m with coupling sleeve 1/4", collet Ø 3 mm (type CHS)
Order No.	0 750 501	0 750 502	0 750 503	0 750 504
Price				

Compressed-air grinder FX 3.0

Compressed-air grinder FX 3.0

High power – low air consumption. With the FX 3.0 air grinder, you can use tools with heads-Ø up to 10 mm. Ergonomic design means that even working for longer periods need no longer be “torture”, as vibrations are absorbed efficiently.


		Price from
		Order No. 1 piece
Compressed-air grinder FX 3.0		
 <div> <p>Use with:</p> <p>joke Oiljet (Seite 63)</p>  </div>	Speed:	65,000 rpm
	Air pressure:	max. 5 bar
	Air consumption:	90 l/min
	Exhaust air:	backwards
	Noise level:	< 75 dB(A)
	Dimensions:	Ø 22.5 x 150 mm
	Weight:	78 g
	Lubrication:	continuously by oil mist
Scope of delivery:		collet Ø 3 mm, wrench, air tube 1.5 m, 1/4" connecting sleeve including filter
		0 750 705

Compressed-air grinder ENESKAair G1000

The latest generation air belt grinder

- 100,000 rpm during oil-free operation
- Extremely compact construction incl. ceramic ball bearings
- Stainless steel construction throughout with rotary valve
- Replacement spare motor, easy replacement on site
- Quiet-running with very low vibration



		Price from
		Order No. 1 piece
Compressed-air grinder ENESKAair G1000		
	Speed:	100.000 1/min
	Power:	63 Watts
	Air pressure:	max. 6.3 bars
	Air consumption:	170 l/min
	Exhaust air:	backwards
	Noise level:	70 dB(A)
	Vibration:	< 2.5 m/s ²
	Dimension:	Ø 21 x 129 mm
	Weight:	150 g
	Lubrication:	oilfree
Scope of delivery:		Tube package (2 m) with connection nipple R1/4", collet Ø 3 mm, tool set
		0 751 100

Compressed-air grinder joke AirMAX

Compressed-air grinder joke AirMAX

The family of compressed-air grinders from joke. The name says it all, for these power tools make full use of air. Regardless of whether you need high speed or just solid performance – the joke AirMAX series has the right device for you. All these grinders are lubricated with oil in conjunction with the joke Oiljet.






Use with:

joke Oiljet
(page 63)



	Compressed-air grinder joke AirMAX 20	Compressed-air grinder joke AirMAX 35	Compressed-air grinder joke AirMAX 90/20
Rotation speed	20,000 1/min	35,000 1/min	20,000 1/min
Power	270 W	220 W	220 W
Air pressure	6 bars	6 bars	6 bars
Air consumption	590 l/min	520 l/min	520 l/min
Exhaust air	forwards	forwards	forwards
Noise level	81 dB(A)	78 dB(A)	79 dB(A)
Vibration	< 6 m/s ²	< 6 m/s ²	< 6 m/s ²
Dimensions	Ø 32 x 80 mm	Ø 31 x 143 mm	Ø 31 x 70 mm / 42 x 137 mm
Weight	420 g	290 g	370 g
Lubrication	continuously by oil mist	continuously by oil mist	continuously by oil mist
Scope of delivery	collet Ø 6 mm, clamping wrench, rotary and lever valve	collet Ø 6 mm, clamping wrench, rotary and lever valve	collet Ø 6 mm, clamping wrench, rotary and lever valve
Order No.	0 750 830	0 750 840	0 750 860
Price			

⚙️ Accessories / spare parts



	Type	Dimensions	Order No.	Price from 1 piece
Supply air tube, for all models				
	Important: also remember the matching air supply hose when ordering!		0 750 813	
Collets for angle handpieces WI 7, WI 10 and jokeAirMax				
		Ø 3 mm	0 750 831	
		Ø 6 mm	0 750 832	
Collet for angle handpiece WI 4				
	WI	Ø 3 mm	0 019 131	
	WI	Ø 6 mm	0 019 132	

Compressed-air hand-filing machines DIPROFIL® for operating on the joke Oiljet maintenance unit



	Compressed-air hand-filing machine DIPROFIL®, Di-Pro FXL-N, Mark II	Compressed-air hand-filing machine DIPROFIL®, FPL/R, Mark II
Stroke length	0 – 6 mm, continuously adjustable (0.5 – 3 mm recommended)	0 – 6 mm, continuously adjustable (0.5 – 3 mm recommended)
Max. no. of strokes	max. 7,000 strokes/min (5,000 – 6,000 strokes/min recommended)	max. 8,000 strokes/min (5,000 – 6,000 strokes/min recommended)
Tool support	Ø 2 – 6.4 mm	Ø 2 – 6.4 mm
Insertion depth	40 mm	40 mm
Air pressure	4 bars	4 bars
Air consumption	approx. 60 l/min at 7,000 strokes/min	approx. 65 l/min at 8,000 strokes/min
Exhaust air	through housing	through housing
Noise level	< 75 db(A) at 7,000 strokes/min	70 db(A) at 7,000 strokes/min (according to ISO 15744)
Vibration	< 1.55 – 5.08 m/s²	5.79 – 13.37 m/s²
Weight	900 g	740 g
Lubrication	continuously by oil mist	continuously by oil mist
Scope of delivery	storage case, tool set, extension tube/finger protection bush, counterweights, replacement friction bearing and felts, lubricating oil	storage case, tool set, extension tube/finger protection bush, replacement friction bearing and felts, lubricating oil
Order No.	0 001 504-N	0 002 251-N
Price		

⚙️ Accessories / spare parts

		Order No.	Price from 1 piece
Rapid-release coupling HSL-M			
	With "on/off" switch, for connection of hand-filing machines to maintenance unit	0 003 001	
	Important: this rapid-release coupling is needed for using the DIPROFIL® compressed-air hand-filing machines. So be sure to include it in your initial order!		
Lubricant MFA-K			
	for all DIPROFIL® hand-filing machines	0 004 002	

Compressed-air filing machine LFC 11

Compressed-air filing machine LFC 11

The high-speed allrounder (12,000 strokes/min). Ideal for grinding, filing, polishing, cutting, sawing and also deburring larger areas. A continuously adjustable stroke length (between 2 and 11 mm) enables this device to be used for both coarse and fine working. The bare machine is available, but also a case, complete with tools and accessories.

Use with:

joke Oiljet
(page 63)



Price from

Order No.



1 set

Set Compressed-air filing machine LFC 11 with case




No. of strokes:	6,000 – 12,000 strokes/min	0 750 960
Stroke length:	2 – 11 mm, continuously adjustable	
Output:	300 W	
Air pressure:	6.3 bars	
Air consumption:	230 l/min	
Noise level:	74 dB(A)	
Vibration:	< 2,2 m/s ²	
Dimensions:	280 x 60 mm	
Weight:	830 g	
Lubrication:	continuously by oil mist	
Scope of supply:	tool holder Ø 4 mm, 1 file, various different tools, counter-holder, hose unit and case	

⚙️ Accessories / spare parts

	Tool support	Order No.	Price from 1 piece
Tool holder			
	Ø 3 mm	0 750 751	
	Ø 4 mm	0 750 752	
	Ø 6 mm	0 750 753	
High-performance lubricant X 73012			
	For all compressed-air grinders	0 580 601	
	For all compressed-air grinders	0 580 601	
	For all compressed-air grinders	0 580 601	

Compressed-air filing machines PRV-70 • FRV-110

LFC 11

		Price from
		Order No. 1 piece
Compressed-air filing machine LFC 11		
	No. of strokes:	6,000 – 12,000 strokes/min
	Stroke length:	2 – 11 mm, continuously adjustable
	Output:	300 W
	Air pressure:	6.3 bars
	Air consumption:	230 l/min
	Noise level:	74 dB(A), ISO 15744
	Vibration:	2.2 m/s ² , K = 0.8 m/s ² according to EN ISO 28927-8
	Dimensions:	280 x 60 mm
	Weight:	830 g
	Lubrication:	continuously by oil mist
Scope of supply:		1 x tool holder Ø 4 mm, 1 x counter-holder, 1 x hose unit (supply and exhaust air, silencer)
		0 750 980

Compressed-air filing machines PRV-70 • FRV-110

"24/7"-use owing to minimal vibrations

Compressed-air filing machines PRV-70 • FRV-110

24/7, so around the clock, 7 days a week:

this is just how long you can work with these filing machines at a stretch, as the vibration values lie markedly below the limit value of 2.5 m/s².

Available with short (2 mm) and long (8 mm) stroke. The machines lie conveniently and securely in the user's hands and consume little air. Both machines can dispense with oiling and may therefore be directly connected to the joke Dryjet maintenance unit.

Highlights:

- use 24/7 possible
- extremely high degree of running smoothness
- 2 and 8 mm stroke length versions
- excellent service life
- use without oil, only a few drops a day are required
- low air consumption



Compressed-air filing machine FRV-110



Compressed-air filing machine PRV-70


	Compressed-air filing machine FRV-110	Compressed-air filing machine PRV-70
Stroke length	8 mm	2 mm
Max. no. of strokes	9,000 strokes/min	7,000 strokes/min
Tool support	max. 6 mm	max. 4 mm
Air pressure	6,5 bars	6,5 bars
Air consumption	78 l/min	30 l/min
Exhaust air	backwards	backwards
Noise level	< 77 dB(A)	< 71 dB(A)
Vibration	2 m/s ²	2 m/s ²
Dimensions	Ø 40 x 182 mm	Ø 28 x 190 mm
Weight	1,000 g	300 g
Lubrication	not necessary	not necessary
Scope of delivery	tool (without air hose)	tool, air hose
Order No.	0 751 600	0 751 630
Price		

Compressed-air engraving pen LGS 30




Compressed-air engraving pen LGS 30

This little pen enables you to engrave metal, glass, plastics, etc. effortlessly. Thanks to the carbide needle, you can even make deep indentations in hardened steel. No harmful vibrations are transmitted to your hand, which protects your health and gives you maximum pen control.



			Price from
			Order No. 1 piece
Compressed-air engraving pen LGS 30, incl. engraving needle			
	No. of strokes:	30,000 strokes/min	0 750 790
	Air pressure:	6 bars	
	Air consumption:	30 l/min	
	Dimensions:	Ø 17 x 154 mm	
	Weight:	150 g	
	Vibration:	< 2.5 m/s ²	
	Lubrication:	continuously by oil mist	
Scope of supply:		air tube 2 m, engraving needle type GN M, connection nipple 1/4"	

Accessories / spare parts

				Price from
				Order No. 1 piece
Engraving needle				
	fine tipped	GN F		0 750 791
	medium tipped	GN M		0 750 792
	coarse tipped	GN G		0 750 793
Engraving chisel				
	flat	GM F		0 751 930
	angled	GM S		0 751 931
Air hose, supply air, 2 m				
				0 750 795

Hand-filing machines Turbolap Linear and transverse stroke!

Turbolap hand-filing machines

High power in a small casing. These permanently lubricated handfiling machines connect directly to the joke Dryjet maintenance unit. With these devices, there is no need to worry about oiling, just about your hands, as they will prefer to no longer be without from these ergonomic high-tech handpieces ...

Available with linear and transverse stroke (0.3, 0.7 with 1.2 mm stroke length).



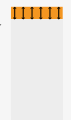
Turbolap TLS: The tool works elliptically (oranged highlighted area) depending on the stroke length.

Turbolap TLL: The tool works linearly (oranged highlighted area) depending on the stroke length.



Tool TLS

Area that can be processed.



Tool TLL



	Hand-filing machines Turbolap TLL 03 with linear stroke	Hand-filing machines Turbolap TLS 03 with transverse stroke	Hand-filing machines Turbolap TLL 07 with linear stroke	Hand-filing machines Turbolap TLS 07 with transverse stroke	Hand-filing machines Turbolap TLL 12 with linear stroke	Hand-filing machines Turbolap TLS 12 with transverse stroke
Stroke length	0.3 mm	0.3 mm	0.7 mm	0.7 mm	1.2 mm	1.2 mm
Max. no. of strokes	52,500 1/min	56,000 1/min	28,000 1/min	20,000 1/min	14,000 1/min	14,000 1/min
Tool support	Ø 3 mm / 4 mm high	Ø 3 mm / 4 mm high	Ø 3 mm / 4 mm high	Ø 3 mm / 4 mm high	Ø 3 mm / 4 mm high	Ø 3 mm / 4 mm high
Air pressure	3 bars / max. 6 bars	1–2 bars / max. 6 bars	3 bars / max. 6 bars	1.5–2.5 bars / max. 6 bars	2–3 bars / max. 6 bars	max. 6 bars
Air consumption	125 l/min	125 l/min	46 l/min	46 l/min	46 l/min	46 l/min
Exhaust air	backwards	backwards	backwards	backwards	backwards	backwards
Noise level	72 dB(A)	73 dB(A)	64 dB(A)	63 dB(A)	59 dB(A)	63 dB(A)
Vibration	8.69 m/s ²	4.58 m/s ²	9.79 m/s ²	3.37 m/s ²	7.86 m/s ²	4.90 m/s ²
Dimensions	Ø 28 x 216 mm	Ø 28 x 216 mm	Ø 28 x 216 mm	Ø 28 x 216 mm	Ø 28 x 216 mm	Ø 28 x 216 mm
Weight	180 g	180 g	180 g	180 g	180 g	180 g
Lubrication	not necessary	not necessary	not necessary	not necessary	not necessary	not necessary
Scope of delivery	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply airhose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter
Order No.	0 750 702	0 750 709	0 750 700	0 750 704	0 750 701	0 750 703
Price						

Polishing machine OPTI polish

Polishing machines OPTI polish

The workhorses for precision work. For grinding, polishing, deburring, matting, rounding ... the possible uses of these grinding lathes are so to speak virtually unlimited.

Highlights:

- Robust, heavy industrial design
- Long lasting with maintenance-free motor
- Casing made of cast aluminium
- Quiet running owing to balanced motor and quality ball bearings ...

For rapid deburring, we recommend a tandem of one brush with nylon bristles on one side of the polishing machine and a wrapped fleece disk on the other side.


For individual matching to your application please contact our Product Manager Dominic Singer:

Tel. +49 (0) 22 04 / 8 39-0 e-mail: d.singer@joke.de



	Polishing machine OPTI polish GU 20 P	Polishing machine OPTI polish GU 25 P
Polishing disc size	200 x 20 mm	250 x 25 mm
Tool support	Ø 16 mm	Ø 20 mm
Max. tool width	20 mm	25 mm
Rotation speed max.	2850 1/min	2850 1/min
Power	600 W	1,500 W
Dimensions (W x H x D)	591 x 326 x 292 mm	591 x 326 x 292 mm
Supply voltage	230 V, AC, 1 PH, 50/60 Hz	400 V, AC, 3 PH, 50/60 Hz
Weight [kg]	10.6 kg	17.4 kg
Scope of delivery	1 x polishing disc soft Ø 200 x 20 x 16 mm (Order No. 0 041 622) and 1 x polishing disc hard Ø 200 x 20 x 16 mm (Order-No. 0 041 623)	1 x polishing disc soft Ø 250 x 25 x 20 mm (Order No. 0 041 632) and 1 x polishing disc hard Ø 250 x 25 x 20 mm (Order No. 0 041 633)
Order No.	0 041 620-0	0 041 630-0
Price		

⚙️ Accessories / spare parts

		Price from
	Order No.	1 piece
Machine substructure for polishing machines OPTI polish		
	Dimension: table 320 x 270 mm, height: 825 mm. The suitable substructure for the series OPTI PSM polishing machines. Please be aware that this must be fixed to the bottom and holes at the table need to be drilled. Drilling template inside but no fixing material.	
	0 041 621-1	

Polishing machine Accessory

Convolute compact grinding discs

Wound, not pressed. These special grinding discs have been developed for the demanding preliminary and final processing of surfaces of the widest array of materials. They result from winding nylon fleece fabric around a hard core. The fabric is wetted with a special abrasive resin system beforehand. The winding results in a very uniform structure with which the direction of rotation must nevertheless be observed.

The discs are available in two abrasive finishes (corundum and SiC) and two diameters and grit sizes in addition to three hardnesses.



Further information on page 176.



Round brushes with nylon grinding bristles

The nylon fibres of these brushes are interspersed with silicon carbide. The latter is constantly released during work and a highly even grinding effect with a very uniform ground section is produced.

The nylon polishing bristles are extremely elastic and flexible and consequently absolutely unbreakable. The trimming area does not clog with work residues during deployment and the polishing effect remains constantly high throughout the entire working period. Suitable for wet and dry use.



Further information on page 177.



Polishing buffing discs OPTI

These discs are used on stationary polishing machines in conjunction with solid polishing compounds (Dialux).

Available in two versions:

- Cotton, soft
- Cotton, hard (quilted)



Further information on page 178.



Polishing lathe PB 2

System overview

Polishing lathe PB

The polishing lathes with high-performance motors. Three-stage or infinite speed adjustment possible. Ideal for all tough tasks that can be accomplished by turning: filing, sanding, polishing, deburring, scraping, brushing, winding, separating, chamfering, rounding, hand filing, coating, etc. ...

Highlights:

- Maintenance-free work
- Clamping of the workpieces by a three-jaw chuck
- Limited spatial requirements owing to compact construction
- Robust, interference-proof, extremely durable
- Comprehensive range of accessories and safety devices available
- Radial run-out of shaft $\pm 0,01$ mm
- Shaft rotated and balanced in a clamping system
- incl. magnetic brake and emergency stop
- incl. protective hood with automatic switch-off



Optional accessory to be determined before ordering, as no longer possible afterwards!

Matching plastic safety shield
(view page 81)

Special lacquering
Order No. 0 200 459

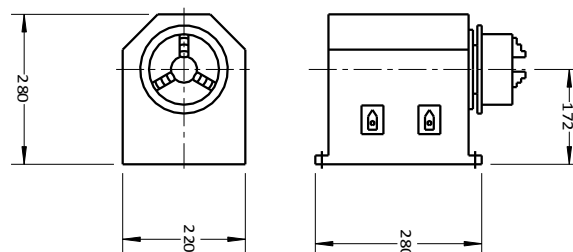
Three-jaw chuck
(view page 81)

Machine substructure with drawer
Order No. 0 200 458

Foot switch
Order No. 0 200 460
Order No. 0 200 461

Polishing lathe PB 2
fixed speed settings (450 / 700 / 1,400 1/min)
Order No. 0 200 452-1

Polishing lathe PB 2
with speed control (50 – 2,000 1/min)
Order No. 0 200 451-2



Polishing lathe PB 2







Polishing lathe PB 2



Polishing lathe PB 2

Tool support	Ø 37 mm	Ø 37 mm
Rotation speed	infinitely adjustable: 50 – 2,000 rpm.	fixed speed settings: 450 / 700 / 1,400 rpm.
Power	max. 0.6 kW	0.2 / 0.5 / 0.6 kW
Centre height	172 mm	172 mm
Dimensions (W x H x D)	280 x 280 x 220 mm	280 x 280 x 220 mm
Supply voltage	400 V, 50/60 Hz, IP 54	400 V, 50/60 Hz, IP 54
Weight [kg]	45 kg	45 kg
Order No.	0 200 451-2	0 200 452-1
Price		

Accessories / spare parts

	Size	Dimensions	Order No.	Price from 1 piece
Machine substructure with drawer				
	Dimensions (W x D x H):	390 x 540 x 800 mm	0 200 458	
Special lacquering				
	Any RAL colour is optionally available.		0 200 459	
Foot switch type 1				
	Function: press = start hold = work release = stop		0 200 460	
Three-jaw chuck incl. chuck flange				
	Chuck Ø 125 mm max. perm. rpm 3,200 rpm	Ø 125 mm	0 200 473	
	Chuck Ø 160 mm max. perm. rpm 3,200 rpm	Ø 160 mm	0 200 474	
Plastic protective disc for three-jaw chuck				
	suitable for Ø 125 mm	Ø 125 mm	0 200 481	
	suitable for Ø 125 mm	Ø 160 mm	0 200 482	

Polishing lathe PB 3

System overview

Just bigger and stronger than his little brother PB 2!



Optional accessory to be determined before ordering, as no longer possible afterwards!

Matching plastic safety shield
(view page 83)

Special lacquering
Order No. 0 200 459

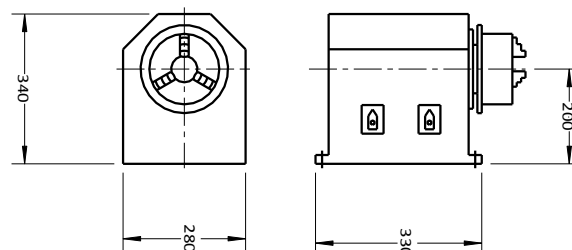
Three-jaw chuck
(view page 83)

Machine substructure with drawer
Order No. 0 200 458

Foot switch
Order No. 0 200 460
Order No. 0 200 461

Polishing lathe PB 3
fixed speed settings (700 / 1,400 / 2,800 1/min)
Order No. 0 200 455-0

Polishing lathe PB 3
with speed control (50 – 2,000 1/min)
Order No. 0 200 450-1



Polishing lathe PB 3







Polishing lathe PB 3



Polishing lathe PB 3

Tool support	Ø 37 mm	Ø 37 mm
Rotation speed	infinitely adjustable: 50 – 2,000 rpm.	fixed speed settings: 700 / 1,400 / 2,800 rpm.
Power	max. 2.5 kW	1.1 / 1.9 / 2.4 kW
Centre height	200 mm	200 mm
Dimensions (W x H x D)	330 x 340 x 280 mm	330 x 340 x 280 mm
Supply voltage	400 V, 50/60 Hz, IP 54	400 V, 50/60 Hz, IP 54
Weight [kg]	90 kg	90 kg
Order No.	0 200 450-1	0 200 455-0
Price		

Accessories / spare parts

	Size	Dimensions	Order No.	Price from 1 piece
Machine substructure with drawer				
		Dimensions (W x D x H): 390 x 540 x 800 mm	0 200 458	
Special lacquering				
		Any RAL colour is optionally available.	0 200 459	
Foot switch type 1				
		Function: press = start • hold = work • release = stop	0 200 460	
Three-jaw chuck incl. chuck flange				
	Chuck Ø 125 mm max. perm. rpm 3,200 rpm	Ø 125 mm	0 200 473	
	Chuck Ø 160 mm max. perm. rpm 3,000 rpm	Ø 160 mm	0 200 474	
	Chuck Ø 250 mm max. perm. rpm 2,000 rpm	Ø 250 mm	0 200 477	
Plastic protective disc for three-jaw chuck				
	suitable for Ø 125 mm	Ø 125 mm	0 200 481	
	suitable for Ø 160 mm	Ø 165 mm	0 200 482	
	suitable for Ø 250 mm	Ø 250 mm	0 200 483	

Poli Base polishing unit with integrated suction

Are your quality requirements high, but space is limited? If so, the powerful, versatile and space-saving joke poli base polishing machine is exactly the right solution for your company. Our compact polishing unit guarantees extremely smooth running and excellent results when polishing or deburring in many areas, such as the industrial, optical, jewellery or dental sectors.

The most important data at a glance:

- particularly compact polishing unit, space-saving and efficient
- integrated, powerful and low-noise extraction system
- equipped with the universal 11 mm stub shaft
- wide variety of possible processing operations
- various tool receptacles available as accessories
- working area completely made of stainless steel
- easy to clean
- removable solid rubber polishing trough
- jacket-cooled motor, dust protected
- speed: 750 – 6,000 rpm, adjustable in increments
- easily replaceable, large-capacity micro fine dust filter bag, dust class M
- optimum illumination: integrated daylight LEDs and daylight LED spotlight
- designed for a long service life
- extremely low maintenance and wear
- completely preassembled







Poli Base polishing unit with integrated suction

Rotation speed	750 – 6,000 rpm
Power	500 W
Noise level	< 65 dB(A)
Dimensions	455 x 485 x 505 mm
Fan output	445 m³/h
Supply voltage	220 – 240 V, 50/60 Hz
Weight [kg]	37 kg
Scope of delivery	<ul style="list-style-type: none"> • Poli Base polishing unit • Micro fine dust filter bag • Storage tray (W 257 mm x H 40 mm x D 198 mm) • Polishing trough • Supply lead
Order No.	0 200 400
Price	



Poli Base polishing unit with integrated suction

⚙️ Accessories / spare parts

	Packing quantity	Order No.	Price from	
			1 set	1 piece
Pocket filter micro fine dust for Poli Base, set				
	2 pieces	0 200 401		
Poli Base drill chuck with a clamping range of 1.6-6 mm				
		0 200 402		
Poli Base tool holder big				
 <div> for panes with: bore: diameter: width: </div>	<div> Ø 14 mm – 25 mm max Ø 150 mm max 30 mm </div>	0 200 403		
Poli Base tool holder medium				
 <div> for panes with: bore: diameter: width: </div>	<div> Ø 6 mm – 13 mm max Ø 110 mm max 30 mm </div>	0 200 404		
Poli Base tool holder collet set 1 - 7 mm				
	7 pieces	0 200 405		
Protective screen				
		0 200 406		

1

2

3

4

5

6

7



ENESKApostprocess

The safe postprocessing system
for all materials and work steps

100%
made in Germany



ENESKApostprocess

Advantages at a glance

- High standard of safety
- No risk of explosion or deflagration
- No permanent damage due to respirable dust
- No need for additional protective clothing
- Ergonomic working and simple operation
- Many options for connecting various tools – either pneumatic or electric.

Work steps that you can perform

- Removal of residual powder
- Separation from the substrate material
- Removal of support structures
- Deburring
- Coarse surface finishing
- Fine surface finishing
- Finish

Materials that you can process

- | | |
|-------------------|-------------------------|
| ■ Steel | ■ Ceramic |
| ■ Stainless steel | ■ PEEK |
| ■ Aluminium | ■ POM |
| ■ Titanium | ■ Plastics |
| ■ Carbon | ■ Rubber-like materials |
| ■ Inconel | ■ Gypsum |
| ■ Brass | ■ and many more |



Belt grinder

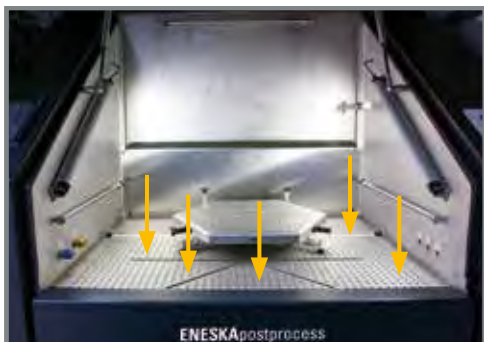


Hand-filing machine



Compressed-air filing machine

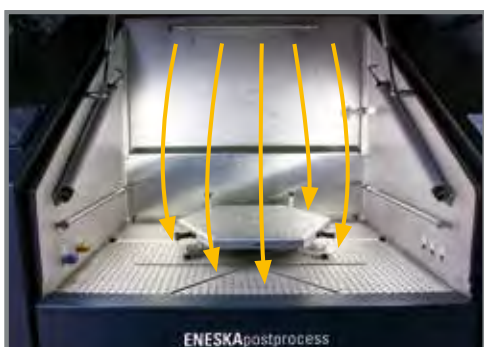
Extraction and cleaning process function



Extraction is through the floor of the working chamber.



Working in the ENESKApostprocess is only possible with the extraction system running. System is locked during processing.



With flow-optimized air guidance, hazardous dusts are directed towards the extractor.



After the processing, the system cannot be opened until a special automatic cleaning process has finished. This stirs up and extracts the residual dust from the corners of the chamber.



The system can be equipped with the special FSX automatic fine dust measurement. The dust load in the working chamber is continuously measured and shown on the display.

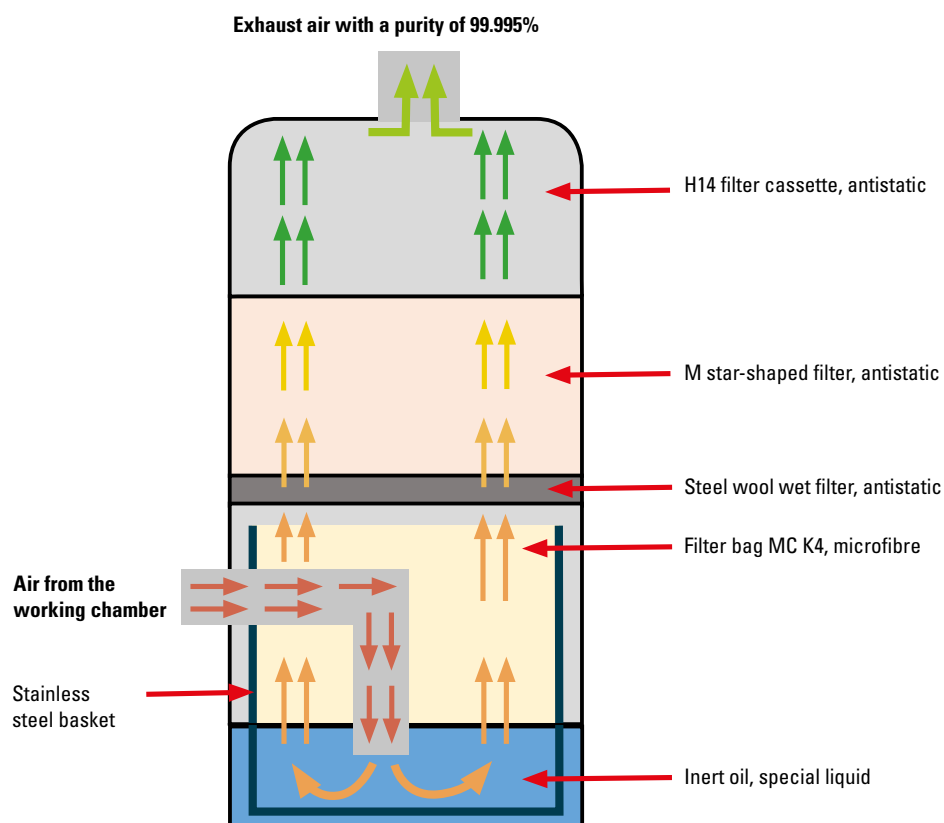
In combination with this FSX, the previously described cleaning process can be adjusted so that the system does not unlock before a defined value is reached.



The system is not unlocked and the working chamber is not released until the cleaning process has finished.

Filter system

Diagram of the system for reactive substances



View of extraction system



Extraction system is easily accessible from the rear



View of the ENESKApostprocess extraction system - the complete extractor can be removed

ENESKApostprocess


Perfect solution for finishing in 3D printing

The standard of safety during manual postprocessing is inadequate in many companies. Protective suits are often only worn during individual working stages and are of no help against the risk of deflagration. Moreover, the working areas are not protected from invisible airborne dusts, which are usually underestimated. This is precisely where ENESKApostprocess from joke can help you.

Particular caution is required when processing reactive materials. In this case, it is not only the dusts that can ignite through friction; the material is also highly flammable and therefore carries higher risks of explosion and deflagration. A special moisture extractor with 5-fold filtration and explosion protection according to ATEX standard guarantees safe work. An integrated liquid bath binds the reactive particles which are thus unable to develop their explosive effect.

Titanium or aluminium are the common materials that most users recognised as reactive, but many alloys also have references to minimum ignition energy of less than one mJ in their data sheets.

Are you not sure? We will be pleased to advise you.

	Design	Order No.	Price from 1 piece
ENESKApostprocess incl. extraction with wet separator for reactive materials			
	• suitable for materials with a minimum ignition energy above one mJ • with explosion protection according to ATEX standard	-	0 210 010
	• moisture separator suitable for zone 22 • 5-fold filtration • extraction capacity / volumetric flow: max. 350 m³/h • incl. FSX automatic fine dust measuring system (for further information, see Order no. 0 210 306) • materials to be processed: incl. among others aluminium and titanium	with height adjustment	0 210 012

Technical data

ENESKApostprocess	
Weight:	580 kg (Order No. 0 210 000) 600 kg (Order No. 0 210 010)
Dimensions of the working chamber (W x D x H):	930 x 790 x 250-600 mm
Device dimensions (W x D x H)	1,300 x 1,500 x 1,790 mm
Lighting:	a. 5,000K / ca. 3,300 lm, dimmable
Supply voltage:	400 V / 16 A


ENESKApostprocess

Perfect solution for finishing in 3D printing


This variant of ENESKApostprocess was developed for the processing of non-reactive materials. However, respirable dusts are also an issue with steel, stainless steel and Inconel. The ENESKApostprocess helps enormously in this case and protects you and your colleagues from hazardous particles. Wearing cumbersome protective suits is also no longer required.

A large working chamber of approx. 0.75 m² offers sufficient space even for the largest 3D-produced workpieces. There are numerous possibilities for connecting various tools simultaneously at the same workplace – whether pneumatic or electric.

Dimmable light, a large glass front and ergonomically shaped hand apertures make everyday work very pleasant.

	Design	Order No.	Price from 1 piece
ENESKApostprocess incl. extraction for non-reactive materials			
	Special features of the ENESKApostprocess incl. extraction for non-reactive materials:	-	0 210 000
		with height adjustment	0 210 003
	<ul style="list-style-type: none"> • dry extractor with explosion protection according to ATEX standard • triple filtration • extraction capacity / volumetric flow: max. 350 m³/h • optionally with FSX automatic fine dust measuring system (more Information see Order No. 0 210 306) • materials to be processed: incl. among others, steel, stainless steel, Inconel and various plastics 		

⚙️ Accessories / spare parts

	Order No.	Price from 1 piece
ENESKApostprocess automatic fine dust measurement FSX		
	The FSX automatic fine dust measuring system from joke is to be included in the order for your ENESKApostprocess! The FSX cannot be retrofitted!	0 210 306
	<ul style="list-style-type: none"> • Precise dust measurement – independent of gas velocity or particle charge • No external purge air unit required as it is integrated in the unit (option) • Low cost and maintenance due to self-monitoring • Independent measuring device • Automatic monitoring of zero and reference point • Robust and compact design • No moving parts in the duct 	

Variants

ENESKApostprocess for reactive substances (Order No. 0 210 010)	ENESKApostprocess for non-reactive substances (Order No. 0 210 000)
Extraction system suitable for continuous operation, for extracting flammable dusts – MIE ≥ 1 mJ	Extraction system suitable for continuous operation, for extracting dusts – MIE ≥ 1 mJ
5-fold filtration, including moisture separator , suitable for zone 22 ATEX II 3D c T 125 °C 5-fold filtration, removal efficiency: 99.995%	3-fold filtration , removal efficiency: 99.95%
Exchangeable, stainless steel collection tank with drain cock, inert oil (approx. 30 L) , tank capacity 100 litres	Exchangeable, stainless steel collection tank, tank capacity 100 litres
M star-shaped filter, antistatic with manual cleaning	M star-shaped filter, antistatic with manual cleaning
H14 filter cassette, antistatic	H14 filter cassette, antistatic
Wet filter cassette, earthed	–
Filter bag MC K4 microfibre, antistatic	–

ENESKApostprocess



Improved safety standard for postprocessing

Powder removal, support removal and surface finishing, release of residual powders and dusts that may be respirable, carcinogenic, skin-irritant, and in some cases even explosive.

The standard of safety during manual postprocessing is inadequate in many companies. Protective suits are often only worn during individual work stages, and are of no help against the risk of deflagration.

Some deburring boxes are only slightly better than protective goggles, which do not retain the dust.

The ENESKApostprocess makes it possible to carry out all work stages without any contact with the materials or fine dusts – which means greater safety for both user and company.



Safe working instead of silicosis

The respirable dusts released during post-processing are blamed for cancer and cardiovascular diseases, among other things.

For this reason, the ENESKApostprocess is completely enclosed and sealed. It has appropriate and safe extraction and filtering equipment. No dust can escape from its working area. Before the system can be opened, there is an after-suction phase and a special cleaning process - only then does the system unlock and the finished workpiece can be removed.

The system complies with important legal regulations on dust control, such as that dust must be directly removed at the point of exit.



No more risks of explosion

Particularly with reactive substances, such as titanium and aluminium, explosions and fires may occur simply through friction of individual particles. Therefore, all components of the ENESKApostprocess are completely earthed to prevent spark discharge. An integrated moisture separator is optionally available for highly reactive substances.

In addition, a compressed-air gun and special air showers enhance cleaning in more concealed corners. These enable fine dusts to be removed from crevices in a workpiece without any risk of explosion.



Convincing versatility

Integrated control units drive a range of electric and pneumatic tools for deburring, milling, grinding or polishing.

Up to three different micromotors and two pneumatic devices can be connected simultaneously – which reduces setup times, and allows rapid, versatile work.

A range of accessories may be used, such as magnifying glasses, turntables and magnetic clamping balls.

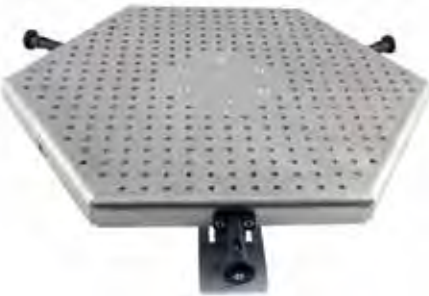




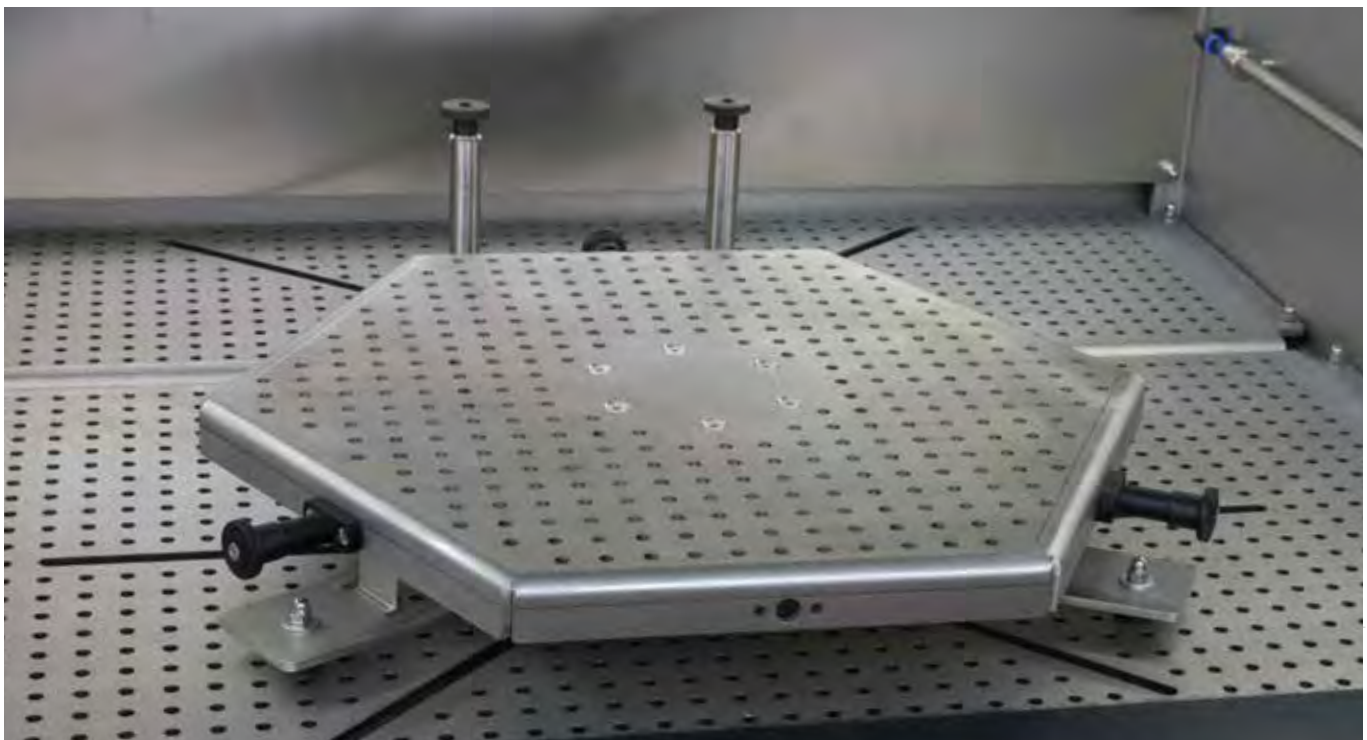
Ergonomics, user friendliness - and thinking of the user!

Concentration and relaxation during work is a prerequisite for optimum postprocessing results. The joke development team has achieved this goal by means of many details of the equipment. Coloured instructions on the touch display indicate the current status of the ENESKApostprocess. The lighting intensity can be dimmed, and the hand apertures, with a diameter of 240 mm, give the user great freedom of movement. The display also shows information about upcoming maintenance, filter cleaning and similar items. Both the lower limit of the particle count and the cleaning cycle can be adjusted on the display.

An optimal working height is perfect for the back. The ENESKApostprocess can be optionally equipped with height adjustment. The large glass dome gives a very good view of the components to be processed.

ENESKApstprocess Accessories

	Dimensions	Packing quantity	Order No.	Price from	
				1 set	1 piece
Turntable, hexagonal  <ul style="list-style-type: none"> • Tripod support • freely positionable, rotatable and lockable • Clamping width 440 mm • Material 1.4301 	500 mm		0 210 209		
10-piece clamping device set  <ul style="list-style-type: none"> consisting of: • M8 x 100 mm threaded bolts, 2 pieces • Hexagon nut with flange M 8, 2 pieces • T-nut with thread M8, 2 pieces • Clamping claws for 10 mm T-slot width and M8 thread 2 pieces with counter holder 2 pieces 		10 pieces	0 210 200		
Stop pin, adjustable, assortment = 2 pieces 		2 pieces	0 210 204		



ENESKApostprocess Accessories

	Size	Dimensions	Order No.	Price from	1 piece	1 pair
ENESKApostprocess glass dome, laminated glass						
		900 x 900 x 8,5 mm	0 210 050			
Protective screen with flexible arm and suction foot						
	<ul style="list-style-type: none">• Can be clamped on flat and slightly uneven surfaces.• Flexibly adjustable by 4 joints.• Suction force: 350 N• Dimensions: Suction foot: Ø 88 x 23 mm Screen: 300 x 200 x 2 mm		0 210 208			
Protective screen, plexiglass						
		200 x 200 x 2 mm	0 210 202			
		300 x 200 x 2 mm	0 210 201			
Stainless steel tank 100 l, variant dry						
			0 210 360			
Stainless steel tank 100 l, variant inert oil						
	With drain cock and window		0 210 356			
Filter bag MC K4 microfibre, variant inert oil						
	With wire ring	Ø 430 x 500 mm	0 210 361			

ENESKApostprocess Accessories

	Size	Dimensions	Order No.	Price from	
				1 piece	1 pair
Stainless steel basket to hold the filter bag MC K4					
		Ø 430 x 500 mm	0 210 362		
Wet filter cassette, version inert oil					
	Filled with stainless steel wool, antistatic	Ø 260 x 70 mm	0 210 363		
Star shaped filter dust class M, variant inert oil					
	<ul style="list-style-type: none">• Dust class M (medium risk) according to EN 60335-2-69• For the separation of dust with an exposure limit of greater than 0.1 mg/m³• Suitable for vacuuming dry, flammable Dusts in zone 22• PU/polyester, antistatic (separation efficiency: 99.95%)	Ø 460 x 210 mm	0 210 357		
HePa filter cartridge H14, variant inert oil					
	<ul style="list-style-type: none">• 3 m² filter surface• Filter Dust class H (high risk) according to EN 60335-2-69• for the separation of all dust with all exposure limits, including carcinogenic and pathogenic dusts• antistatic (separation efficiency: 99.995%)	Ø 460 x 105 mm	0 210 358		
Gloves latex for ENESKApostprocess, 600 mm					
	<ul style="list-style-type: none">• With cuff Ø 180 – 300 mm• Size 10• EN388	10	0 210 250		
ENESKApostprocess arm cuff made of latex					
	<ul style="list-style-type: none">• Length: 500 mm• Installation diameter: from Ø 230 to 360 mm• Arm cuff made from very robust and stretchable latex with rolled edge for installation for Ø 230 to approx. 360 mm• For long-term use because the wear on the extra gloves to be used happens• With star slits for optimal sealing		0 210 260		

ENESKApostprocess Accessories

	Size	Dimensions	Order No.	Price from	
				1 piece	1 pair
Maintenance unit joke Oiljet					
Filter controller MD1-FR0000-1/4:			0 004 070		
<ul style="list-style-type: none"> • Max. Working flow: 1,200 l / min • Max. Inlet pressure: 16 bar • Container capacity: 24 cm³ • Condensate drain: semi-automatic-manual, automatic via pressure relief, drain via threaded connection G1/8 					
<ul style="list-style-type: none"> • Air connection: 1/4" • Medium: compressed air 					
Oiler MD1-L00-1/4:					
<ul style="list-style-type: none"> • Max. Inlet pressure: 16 bar • Container capacity: 40 cm³ • Air connection: 1/4" • Medium: compressed air 					
Scope of delivery: 25 µm filter, manual water separator, micro oiler, pressure reducer, pressure gauge and wall mounting					



ENESKAmicro footpedal



- For comfortable control by foot (start/stop, speed adjustment),
- Cable length 2 m

0 011 002

ENESKApostprocess high-performance oil, 20 l

For filling the extraction with wet scrubber for reactive materials

0 580 518



air belt grinder MBS 20 DH

Small, handy and powerful – that best describes the new compressed-air minibelt grinder from joke. With a weight of just 570 g, it lies comfortably in the hand. So the second hand is free to move the workpiece into the ideal position.



The grinding belt is ideally suitable for deburring, grinding and finishing work. The workpieces can be optimally freed from burrs and cleaned. No matter what the radius, the joke grinding belt contacts the workpiece perfectly, and with a little sensitivity of touch achieves a fine, satin-textured surface.

The width of the belt can be selected between 6 mm and 12 mm. A wide range of belts is available, from a coarse grinding belt to a fleece belt for finishing work. Belts are easily replaced with just one action.

			Price from
			Order No. 1 piece
air belt grinder joke MBS 20 DH			
Tapes:	6 – 12 x 305 mm (depending on the belt grinder attachment)		0 750 871
Belt speed:	21 m/s		
Max. air pressure:	6 bar		
Air consumption:	590 l/min		
Exhaust air:	to the front		
Operation:	rotary, lever valve		
Weight:	570 g		
Connection:	8 mm hose nozzle		
Required lubrication:	continuously 1–2 drops / min oil mist		



Accessories / spare parts

		Dimensions	Grit size	Order No.	Price from
					1 piece 500 pieces
Grinding belt, ceramic 885 T					
	6 x 305 mm		80	0 412 201	
	6 x 305 mm		120	0 412 202	
	12 x 305 mm		80	0 412 211	
	12 x 305 mm		120	0 412 212	
Grinding belt, fleece – 3M					
	6 x 305 mm		coarse	0 412 220	
			medium	0 412 221	
			very fine	0 412 222	
	12 x 305 mm		coarse	0 412 230	
			medium	0 412 231	
			very fine	0 412 232	



Tungsten carbide coating unit

Tungsten carbide coating unit ENESKArecoat 85

Better surface results, faster application, lower usage costs: After two years of development work, joke Technology presents the ENESKArecoat 85, a new generation of carbide coating devices.

ENESKArecoat 85 is used to coat severely stressed surfaces quickly and easily. A carbide coating is applied by burning a tungsten carbide electrode at 2800 degrees Celsius, which achieves a maximum surface hardness of 82 HR 30 N.

This process is especially suitable for tools, devices and surfaces that have to be especially tough, hard and wear-resistant – such as punching and bending tools. In comparison to the previous model, the ENESKArecoat 85 achieves a higher maximum coat thickness by now having an up to 30 percent higher maximum working voltage of 54 volts. The specially controlled ignition spark and the higher vibration frequency of 120 Hertz allow working up to 20 percent faster and give an even better surface result. This also prevents burning out of the electrodes, which reduces usage costs. Furthermore, in comparison to the previous model, larger electrodes can be used, which expand the possible range of uses.

There have also been further developments in the handling of ENESKArecoat 85: In addition to the conventional foot switch, the new type of ergonomically shaped handpiece has an operating button for sensitive control of the coating process. In-built LEDs guarantee optimal, glare-free illumination of the workplace and enable monitoring of the electrode contact.

The preset parameters in the software are also new. They ensure a fast start and have a calibration function for automatically balancing the ignition timing. The user can also store and call additional, individual empirical values.

14 advantages at a glance

- 30 percent higher working voltage giving a higher maximum achievable layer thickness
- Faster application with a 20 percent higher vibration frequency of 120 Hertz
- A new type of ignition spark control improves the surface finish
- No burning out of electrodes (reduced tool costs)
- Electrodes up to 25 percent larger widen the range of fields of work
- Reduction in vibrations on the outside of the handpiece
- Maximum achievable coating hardness of 82 HR 30 N
- Ergonomic, user-friendly handpiece with integrated operating button
- LEDs for optimal, glare-free illumination of the workplace and contact monitoring
- Function control with animated LED line on the control unit and on the handpiece
- Software: Call of preset parameters and storage of individual parameters
- Calibration function for balancing of the optimal ignition timing
- Well-proven ENESKA user interface with language support (D, E, F)
- Assistant function

Tungsten carbide coating unit ENESKArecoat 85

Methods

Nowadays, very high demands are made on the toughness, hardness and surface wear resistance of tools, equipment and machines.

The following options came to light in seeking a tough material with a more wear-resistant coating:

1. Galvanic coating with hard layers,
2. Plasma gun spraying method,
3. Electroerosive tungsten carbide coating.

The adhesive strength of the coatings in methods 1 and 2 is unsatisfactory in the case of heavy stresses since the coatings are likely to scale off. With the third method, however, it is possible to apply tungsten carbide in a very wear-resistant surface on the heavily stressed points of a workpiece.

Properties of the tungsten carbide coat

The layer applied combines joins perfectly with the steel and adheres in such a way that it withstands almost any mechanical stress. Blows, bending, stretching or compressive strains are incapable of detaching the coating. This can only be done by grinding or special sand blasting; it can, however, be relapped with diamond or silicon carbide. The steel beneath is not softened by the coating but increases in hardness in the upper zone. In the case of certain steel alloys the tungsten carbide layer even penetrates into the base material. The coating produces a hardness of up to 82 HR 30N, without the workpiece undergoing any change or distortion since the depositing process is practically cold. The coating possesses a high degree of heat resistance. The surface is uniform and shows no directional texture. With good saturation, it achieves a mean roughness of 2-9 µm.

Examples of applications

- Hardness coating of tools or wear parts to extend service life.
- Post hardening of additively manufactured parts
- Coating of smooth surfaces in order to achieve greater adhesion through the structure of the layer
- Coating of sliding surfaces in order to avoid cold weldings as a result of the structure of the layer

Materials and their pretreatment

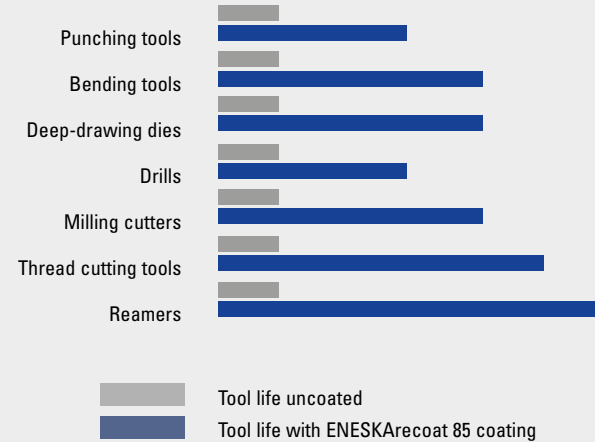
Any soft, heat-treated and hardened unalloyed or alloyed steel is suitable as material for coating with tungsten carbide. The surface must be clean and metallically pure.

Display:

Information, e.g. about the set parameters as well as coating quality, vibration intensity, charge storage, handpiece, interval coating, etc.




Service lives for untreated vs. coated






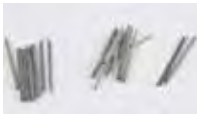
User-friendly, intuitive user guidance

Tungsten carbide coating unit









ENESKArecoat 85

		Order No.	Price from 1 set
ENESKArecoat 85 hard metal coating unit, set			
	Control unit:		0 700 300
	Max. achievable coating hardness:	82 HR 30N	
	Working voltage:	36-54 V	
	Vibration frequency:	variable up to 120 Hz	
	Supply voltage:	115/230 DCV, 50/60 Hz	
	Dimensions (W x D x H):	135 x 476 x 321 mm	
	Weight:	10 kg	
	Application gun:		
	Vibration frequency :	variable up to 120 Hz	
	Working lamp:	4 LEDs, 5000 K	
	Weight:	0.84 kg	
	Cable length:	1.80 m	
	Scope of delivery:		
	<ul style="list-style-type: none"> • 0 700 301 Carbide coating unit, control unit • 0 700 302 Application handpiece, complete with cable package • 0 700 351 Earth cable 10mm², 2.0 m, plus magnetic pole clamp • 0 700 060 Set of clamping elements for carbide electrodes, incl. spare screws and screwdriver (12 pieces) • 0 700 034 Set of carbide electrodes (24 pieces) 		

Accessories / spare parts

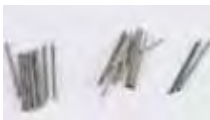
		Packing quantity	Order No.	Price from 1 piece
ENESKArecoat 85 foot switch				
	Foot control / foot switch for on/off function of the coating process. Optionally connectable to the ENESKArecoat 85 control unit (Alternative to control via application gun).		0 700 360	
ENESKArecoat 85 application gun				
	The application gun has a button to start the working process. In addition, there is a status LED on the application handpiece, which indicates the optimum distance to the workpiece. This helps the user to optimise the coating process.		0 700 302	
	Vibration frequency: variable up to 120 Hz Working field lamp with 4 LEDs, 5000K Push button switch: On / Off Status LED for contact monitoring Dimensions (W x D x H): 160 x 40 x 190 mm Weight: 0.84 kg including cable package Cable length: 1.8 m			
ENESKArecoat 85 Clamping element for carbide electrodes				
	for round carbide electrodes up to max. Ø 1.4 mm		0 700 061	
	for round carbide electrodes up to max. Ø 2.3 mm		0 700 062	
	for triangular carbide electrodes up to max. 2 mm		0 700 063	
	for square carbide electrodes up to max. 2.2 mm		0 700 064	
Set of tungsten carbide electrodes for ENESKArecoat 85 and tucadur (24 pieces)				
	consisting of:	24 pieces	0 700 034	
	<ul style="list-style-type: none"> • 3 pieces each 1.0 mm round (Order No. 0 700 036) • 3 pieces each 1.3 mm round (Order No. 0 700 046) • 3 pieces each 1.8 mm round (Order No. 0 700 047) • 3 pieces each 2.3 mm round (Order No. 0 700 048) • 3 pieces each 1.1 mm square (Order No. 0 700 039) • 3 pieces each 1.6 mm square (Order No. 0 700 040) • 3 pieces each 2.1 mm square (Order No. 0 700 041) • 3 pieces each 1.95 mm triangular (Order No. 0 700 042-0) 			

Tungsten carbide coating unit ENESKArecoat 85

Shape	Dimensions	Order No.	Price from	
			1 piece	10 pieces
Tungsten carbide electrodes for ENESKArecoat 85 and tucadur				
 round	Ø 1.0 x 50 mm	0 700 036		
 round	Ø 1.3 x 50 mm	0 700 046		
 round	Ø 1.8 x 50 mm	0 700 047		
 round	Ø 2.3 x 50 mm	0 700 048		
 square	1.1 x 50 mm	0 700 039		
 square	1.6 x 50 mm	0 700 040		
 square	2.1 x 50 mm	0 700 041		
 triangular	1.95 x 50 mm	0 700 042-0		



matching set

	Order No.	Price from	1 set	10 set
Set of tungsten carbide electrodes for ENESKArecoat 85 and tucadur (24 pieces)				
	consisting of:	0 700 034		
	<ul style="list-style-type: none">• 3 pieces each 1.0 mm round (Order No. 0 700 036)• 3 pieces each 1.3 mm round (Order No. 0 700 046)• 3 pieces each 1.8 mm round (Order No. 0 700 047)• 3 pieces each 2.3 mm round (Order No. 0 700 048)• 3 pieces each 1.1 mm square (Order No. 0 700 039)• 3 pieces each 1.6 mm square (Order No. 0 700 040)• 3 pieces each 2.1 mm square (Order No. 0 700 041)• 3 pieces each 1.95 mm triangular (Order No. 0 700 042-0)			



Several application possibilities



Coating of a machine part