

Driving motors and handpieces Overview



07
Ultrasonic system
ENESKAsonic



12
Mobile polishing system
ENESKAmobile



14
Grinding, milling,
polishing system ENESKAmicro



27
ENESKAmicro
COMPACT series



32
Micromotors



50
Handpieces



60
jokeFlex Premium Plus



70
jokeFlex Power



79
High-speed handpiece
ENESKA P 320-2



80
Grinder
jokeTURBO



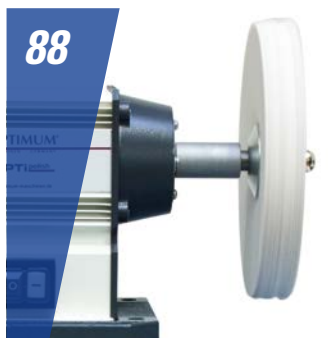
81
Compressed-air grinder
ENESKAair



82
Compressed-air grinder
joke AirMAX



83
Compressed-air hand-filing
machines DIPROFIL®



88
Polishing machines
OPTI polish



90
Polishing lathe



94
Tungsten carbide coating system
tucadur® 2020

06 Ultrasonic system

Ultrasonic minicutter
ENESKAsonic

10 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 handpiece and collets
ENESKAmicro belt grinder
ENESKA – old Systems

60 Flexible shaft systems

jokeFlex Premium Plus system overview
jokeFlex Premium Plus Welle
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

70 Pneumatic systems

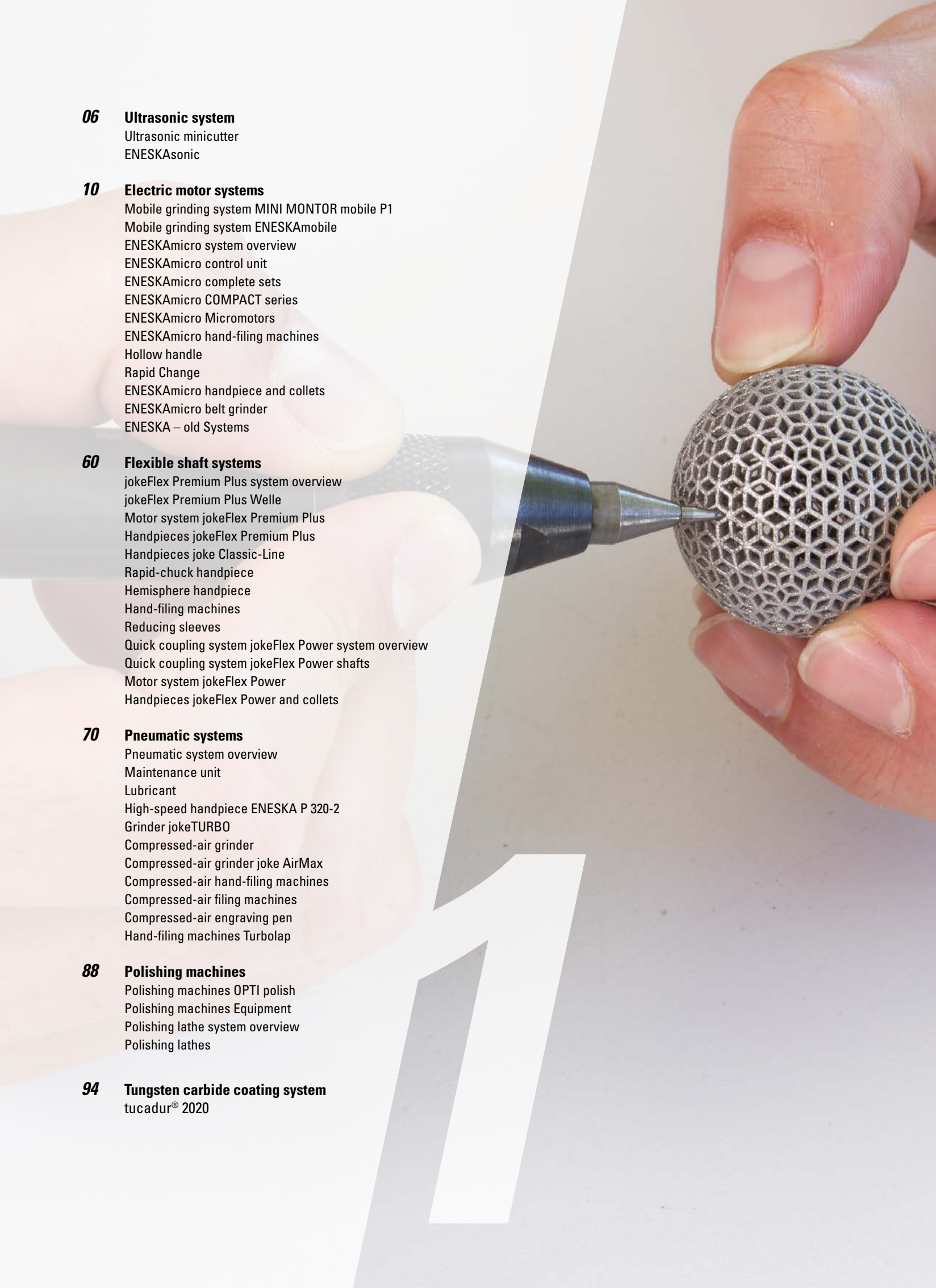
Pneumatic system overview
Maintenance unit
Lubricant
High-speed handpiece ENESKA P 320-2
Grinder jokeTURBO
Compressed-air grinder
Compressed-air grinder joke AirMax
Compressed-air hand-filing machines
Compressed-air filing machines
Compressed-air engraving pen
Hand-filing machines Turbolap

88 Polishing machines

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


94 Tungsten carbide coating system

tucadur® 2020







Ultrasonic minicutter ZO-91

convenient for larger numbers of items

		Order No.	Price from 1 piece
Ultrasonic minicutter ZO-91			
	Consisting of: 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	0 006 260	685.00 €

Accessories / spare parts

		Packing quantity	Order No.	Price from 1 pack	1 piece	1 set
Spare blades HA04						
		40 pieces	0 006 270	21.25 €		
Spare blade ZH03, rounded R5						
	For all those who need to "go round corners".		0 006 276	70.35 €		
Spare blade ZH10, 25 mm long version						
	For all those who need to cut deeper.		0 006 274	32.80 €		
Spare blade ZH11, saw blade fine						
	For all those who do more sawing than cutting.		0 006 275	44.70 €		
Blade receptacle ZH04						
			0 006 271	16.30 €		
Blade receptacle set ZH04S						
	Set contents: 1x blade receptacle ZH04 1x spare screw HB03 1x allen key RR02		0 006 272	16.65 €		
Spare screw HB03						
			0 006 273	3.69 €		

ENESKAsonic

The most innovative advancement
in the field of ultrasonics



NEW!



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

We wish the newest member of the joke family a very warm welcome. 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:		0 012 001	1590.00 €
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		

↓ matching set

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



Ultrasonic lapping and polishing system set ENESKAsonic




The set contains the following components:	0 012 000	2950.00 €
1 x control unit ENESKAsonic (Order No. 0 012 001)		
1 x ultrasonic handpiece JUS-45PB-ES (Order No. 0 012 003)		
1 x handpiece support, standard, 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 for 110 V use (Order No. 1 711 407-1)		
1 x allen key (Order No. 0 006 304)		
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)		

Ultrasonic lapping and polishing system ENESKAsonic




⚙️ Accessories / spare parts

	Order No.	Price from 1 piece
ENESKAmicro footpedal		
 <p>for comfortable control by foot (start/stop, speed adjustment), cable length 2 m</p>	0 011 002	163.00 €
ENESKAmicro handpiece support standard, black		
	0 011 110	7.45 €

Ultrasonic lapping and polishing system ENESKAsonic • handpieces

	Order No.	Price from 1 piece
Rapid-chuck handpiece JUS-45 PB-ES		
 <p> Receptacle: M6/fine Frequency: 22.5 kHz (40 µm) Dimensions: Ø 28 x 134 mm Weight: 140 g (without cable) Cable length: 2 m Output: 50 W </p>	0 012 003	1560.00 €

⚙️ Accessories / spare parts

	Tool support	Profile	Thread	Order No.	Price from 1 piece
	Tool holder for receiving round tools				
	d = Ø 2 mm	round	M6/fine	0 006 305	29.15 €
	d = Ø 3 mm	squared	M6/fine	0 006 306-E	31.40 €
	Tool holder for receiving flat tools				
	t = 0.5 mm	squared	M6/fine	0 006 308	39.40 €
	t = 0.8 mm	squared	M6/fine	0 006 309	29.15 €
	t = 1 mm	round	M6/fine	0 006 310	29.15 €
	t = 1 mm	squared	M6/fine	0 006 310-E	29.15 €
	t = 2 mm	squared	M6/fine	0 006 311	29.15 €
	t = 3 mm	squared	M6/fine	0 006 312	29.15 €
	Adapters for receiving ultrasonic tools				
	Thread M4			0 006 900	18.25 €


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		
 <p>For infinite speed control of the handpiece MPH 33. Including integrated storage battery (Ni-Mh) for mobile use.</p> <p>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.</p>	0 006 713	183.00 €

↓ matching set


	Order No.	Price from 1 piece
Set MINI MONTOR mobile 1 P		
 <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)</p>	0 006 700	419.00 €

⚙️ Accessories / spare parts


	Order No.	Price from 1 piece
Foot controller TPF 30		
 <p>For convenient foot-operated starting and stopping of the handpiece.</p>	0 006 701	14.65 €
Power supply unit/charging device ACP01		
 <p>The storage battery of the control unit can be recharged in a short time (1 h) using this power supply unit. The control unit can likewise be used in mains operation. 100 - 230 V, 50 - 60 Hz.</p>	0 006 714	27.30 €

Mobile polishing system

MINI MONTOR mobile 1 P

			Order No.	Price from 1 piece
Handpiece MPH 33				
	Speed:	max. 30,000 rpm	0 006 711	139.40 €
	Output:	20 W		
	Dimensions:	Ø 25 x 143 mm		
	Weight:	180 g (incl. cable)		
	Collet:	Ø 3 mm (in scope of delivery)		

Accessories / spare parts

	Dimensions	Type	Order No.	Price from 1 piece
Collets MINI MONTOR				
	Ø 3 mm	TPH65-117B	0 006 704	42.75 €
	Ø 2.35 mm	TPH65-117A	0 006 705	42.75 €



Mobile polishing system ENESKAmobile

ENESKAmobile


The handy ENESKAmobile cordless grinder is the ideal aid for dressers or toolmakers. Powerful, durable and extremely versatile through use of all current handpieces. With more than 10 hours' storage battery life, a torque of max. 6.5 N cm and 40,000 rpm, new possibilities have been created here in comparison to conventional devices.

Highlights:


- brushless direct-current (DC) motor
- modern high-output 14.8 V storage battery without memory effect
- clockwise/anticlockwise running
- charging and ready indicator
- digital control with safety cutoff
- high speed with max. 6.5 N cm at the motor shaft
- ME3 and ME4 micromotor connection – for screw-fitting on all handpieces with (+) and (-) connection



A clip allows attachment to a belt.

		Order No.	Price from 1 piece
ENESKAmobile control unit			
	Technical data:	0 006 860	596.00 €
	Speed:	1,000 to 40,000 rpm	
	Charging time:	max. 2 hours	
	Period of use:	up to 10 hours	





↓ *matching set*

		Design	Order No.	Price from 1 piece
Set ENESKAmobile				
	This set consists of:	for handpieces with (+) connection	0 006 950	942.00 €
	1 x motor with motor cable	for handpieces with (-) connection	0 006 850	942.00 €
	1 x control unit with storage battery 1 x charging device			







Mobile polishing system ENESKAmobile

Accessories / spare parts

	Order No.	Price from 1 piece
ENESKAmobile motorcable M	0 006 862	119.95 €
		
ENESKAmobile charging device PA-1	0 006 861	64.60 €
 Voltage 100 - 230 V, 50 - 60 Hz		
ENESKAmobile plastic carry case with inlay	0 006 851	33.65 €
 Dimensions (W x H x D): 340 x 70 x 280 mm Weight: 0.544 kg		
ENESKAmobile replacement storage battery pack	0 006 869	136.85 €
 High-performance Li-Ion battery 14.8 V		

Mobile polishing system ENESKAmobile • micromotors

	Order No.	Price from 1 piece
ENESKAmobile micromotor ME3	0 006 863	260.00 €
  Rotation speed: max 40,000 rpm Torque: 6.5 N cm Supply without motor cable		
ENESKAmobile micromotor ME4	0 006 963	260.00 €
  Rotation speed: max 40,000 rpm Torque: 6.5 N cm Supply without motor cable		

ENESKAmicro

- 30% more efficiency
- based on IP 54
- enhanced handpieces
- extremely high true running accuracy
- 20% higher final speed
- highest clamping force in the world
- handpieces & motors universally compatible regardless of manufacturer
- PLC suitable
- idletimer
- operator menu in eight different languages
- updatable



100%

Made in GERMANY



Handpieces for added requirements

New ENESKAmicro handpieces with integrated fan in combination with inlets and outlet.

The optimized cooling makes the handpieces and motors ideal for longer periods of use.

NEW!



Modular system



Motors & Handpieces



Cables





Control unit



Equipment

ENESKAmicro System overview

i Handpieces and motors have different connections. All items on this page require one of these variants.  

For any questions, please contact us!



Foot controller
Order no. 0 011 002

Collets type EMB



ENESKAmicro HT60-D6 CNC
Order no. 0 011 470



ENESKAmicro COMPACT HT60-D6 / motor incl. chuck with collet Ø 6 mm and motor cable 1.8 m
Order no. 0 011 420 without fan
Order no. 0 011 429 with fan **NEW!**



ENESKAmicro COMPACT HT60 SMALL
Order no. 0 011 460 without fan
Order no. 0 011 469 with fan



ENESKAmicro COMPACT HT60 / rapid chuck Power, with collet Ø 3 mm and motor cable 1.8 m
Order no. 0 011 400 without fan
Order no. 0 011 409 with fan **NEW!**



ENESKAmicro COMPACT HT60-XL / motor incl. rapid chuck Power, XL axle with collet Ø 3 mm and motor cable 1.8 m
Order no. 0 011 410 without fan
Order no. 0 011 419 with fan **NEW!**



ENESKAmicro COMPACT SE, motor incl. rapid chuck with collet Ø 3 mm and motor cable 1.8 m
Order no. 0 011 320 without fan



ENESKAmicro motor SE3 with (-) connection without motor cable
Order no. 0 011 301 without fan
Order no. 0 011 309 with fan **NEW!**



ENESKAmicro motor SE4 with (+) connection, without motor cable
Order no. 0 011 311 without fan
Order no. 0 011 319 with fan **NEW!**



ENESKAmicro democase incl. foam insert
Order no. 0 011 910

NEW!

NEW!



Control unit 450 ENESKAmicro
Order no. 0 011 001



Control unit 600 ENESKAmicro
Order no. 0 011 201

START



Extension cable 2 m
Order no. 0 011 401



Motor cable S 1.8 m
Order no. 0 011 302



Motor cable S 3 m
Order no. 0 011 303

Collets & Equipment

Motors & Handpieces

Cables

Control unit

ENESKAmicro with (-) connection System overview



Handpieces & Hand-filing machines

Hand-filing machines

ENESKAmicro with (-) connection

System overview

i Handpieces and motors have different connections. All items on this page require this variant.

For any questions, please contact us!



Foot controller
Order no. 0 011 002



Handpiece support HT, white
Order no. 0 011 109

Handpiece support standard, black
Order no. 0 011 110

i Adapter for connecting the ENESKA 3-1 motorcables to ENESKAmicro 600 control unit.



Adapter ENESKA 3-1 motor cable
Order no. 0 006 203-1



Control unit 450 ENESKAmicro
Order no. 0 011 001



Control unit 600 ENESKAmicro
Order no. 0 011 201

i Reducing gear for a better torque. It lowers the speed by a quarter.



Reducing gear JRG 01 4:1
Order no. 0 009 500



Extension element JCN 01 50 mm
Order no. 0 009 505



ENESKAmicro democase incl. foam insert
Order no. 0 011 910



Micromotor JENK-410S
Order no. 0 007 505



Micromotor JENK-250T
Order no. 0 007 525



ENESKAmicro motor SE3 with (-) connection without motor cable
Order no. 0 011 301



NEW!
ENESKAmicro motor SE3 with fan, without motor cable
Order no. 0 011 309



Extension cable 2 m
Order no. 0 011 401



Motor cable JENK-410S/EM 1.6 m
Order no. 0 011 502



Motor cable JENK-250T/EM 1.6 m
Order no. 0 011 501



Motor cable S 1.8 m
Order no. 0 011 302



Motor cable S 3.0 m
Order no. 0 011 303



Motor cable SDE-BH60/EM, 1.4 m
Order no. 0 011 505

i Also competitor motor „Marathon“ can be connected.

Equipment

Motors

Cables

Control unit

ENESKAmicro with (+) connection System overview

Rapid-chuck handpiece
JEHR 500
Order no. 0 008 810
Collet type CHH

Handpiece type
JEHG 400
Order no. 0 009 811
Collet type CHG

Angle handpiece type
JERA 270
Order no. 0 009 812
Collet type CHS

Angle handpiece type
JEKC 300
Order no. 0 009 813
Collet Typ CHC

Angle handpiece
WE4-90
Order no. 0 011 330
Collet type CHC

Angle handpiece
WE4-45
Order no. 0 011 335
Collet type CHC

Angle handpiece
JERA 270 S
Order no. 0 008 813
Collet type GH

Mini hand-filing machines
DIPROFIL®
FMR/E 5
Order no. 0 001 207
FMR/E 10
Order no. 0 001 215
FMR/E 15
Order no. 0 001 209

Transverse stroke handpiece
DIPROFIL®
FMV/E
Order no. 0 001 212

Mini hand-filing machine
JN 48
Order no. 0 001 403

Belt grinder
JBS 400
Order no. 0 008 850


Hand-filing machine
DIPROFIL®
Di-Pro FXM-N, Mark II
Order no. 0 001 521-N

Hand-filing machine
DIPROFIL®
FPM/ERJ, Mark II
Order no. 0 005 201-N

Hand-filing machine
FMD/3-2/EM
Order no. 0 011 550

Hand-filing machine
DIPROFIL®
FPT/ER, Mark II
Order no. 0 005 204-N




i Handpieces with



connection can be mounted.

Hand-filing machine
JFMM 4
Order no. 0 005 300

i **Legend**

- modular components 
- options 
- joke expert info 

Handpieces & Hand-filing machines

Hand-filing machines

ENESKAmicro with (+) connection System overview

i Handpieces and motors have different connections. All items on this page require this variant. **(+)**

For any questions, please contact us!



Foot controller
Order no. 0 011 002



Handpiece support HT, white
Order no. 0 011 109

Handpiece support standard, black
Order no. 0 011 110

i Adapter for connecting the ENESKA 3-1 motorcables to ENESKAmicro 600 control unit.



Adapter ENESKA 3-1 Motor cable
Order no. 0 006 203-1



Control unit 450 ENESKAmicro
Order no. 0 011 001



Control unit 600 ENESKAmicro
Order no. 0 011 201

START

i Reducing gear for a better torque. It lowers the speed by a quarter.



Reducing gear JERG 01 B
Order no. 0 009 806



Adapter JECN 01T for all ENESKA 3-1 handpieces
Order no. 0 009 807



Extension cable 2 m
Order no. 0 011 401



Motor cable JBM 50 S/EM 1.5 m
Order no. 0 011 503



JBM 50 S/EM 4 m
Order no. 0 011 503-4m



Motor cable JBM 50 HT/EM 1.5 m
Order no. 0 011 504



JBM 50 HT/EM 4 m
Order no. 0 011 504-4m



Motor cable S 1.8 m
Order no. 0 011 302



Motor cable S 3.0 m
Order no. 0 011 303



Motor cable SDE-BH60/EM, 1.4 m
Order no. 0 011 505



Brushless micromotor JBM 50 S
Order no. 0 008 803



Brushless micromotor JBM 50 HT
Order no. 0 008 806



ENESKAmicro motor SE4 with (+) connection without motor cable
Order no. 0 011 311



NEW!
ENESKAmicro motor SE4 with fan without motor cable
Order no. 0 011 319

i Also competitor motor „Marathon“ can be connected.



ENESKAmicro democase incl. foam insert
Order no. 0 011 910

Equipment

Motors

Cables

Control unit

ENESKAmicro Control units



**The new standard for grinding, polishing, milling and deburring
ENESKAmicro – the unbeatable all-round talent**

The in-house development by joke sets new standards for micromotor systems. What is unique about this series is its system-wide and downwards compatibility as well as extremely powerful.

20% higher final speed, 30% more power, 50% higher clamping force for the handpieces, 100% Made in Germany, touch display 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 50% 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.

A special detail that was particularly important to us: the ENESKAmicro is completely “Made in Germany”. This serves local business and sensible further use and protection of previously made investments as well as our own high requirements in terms of quality and delivery time can thus be guaranteed. The powerful micromotor system therefore meets the technical requirements in milling in particular – wherever hard materials are machined, such as high-grade steels, Inconel and titanium for implant production.


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

	Order No.	Price from 1 piece
 <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 <p>Weight: 2.4 kg Dimensions (W x H x D): 135 x 235 x 200 mm Connection: 90-240 V, 50-60 Hz</p>	0 011 201	1095.00 €
ENESKAmicro 600 control unit		

ENESKAmicro Control units










	Order No.	Price from 1 piece
ENESKAmicro 450 control unit		
 <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: 2.4 kg Dimensions (W x H x D): 135 x 235 x 200 mm Connection: 90-240 V, 50-60 Hz</p>	0 011 001	921.00 €

Accessories / spare parts






	Order No.	Price from 1 piece
ENESKAmicro footpedal		
 <p>for comfortable control by foot (start/stop, speed adjustment), cable length 2 m</p>	0 011 002	163.00 €
ENESKAmicro handpiece support HT, white		
	0 011 109	15.75 €
ENESKAmicro handpiece support standard, black		
	0 011 110	7.45 €
ENESKAmicro extension cable, 2 m		
 <p>suitable for all motor cables of the ENESKAmicro series</p>	0 011 401	41.85 €
ENESKAmicro display protection sheet		
<p>suitable for control units 450 and 600</p>	0 011 099	21.05 €
ENESKAmicro storage case, incl. foam inlay		
 <p>Aluminium case with carrying handle and two lockable locks Dimensions (W x H x D): 502 x 150 x 370 mm Weight: 3.2 kg</p>	0 011 910	210.00 €

ENESKAmicro 600

Complete sets






		Order No.	Price from 1 piece
ENESKAmicro 600 set 2.1			
	 <p>The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor SE3 with (-) connection (order no. 0 011 301) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109)</p>	0 011 200	1536.00 €
ENESKAmicro 600 set 2.2			
	 <p>The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor SE3 with (-) connection (order no. 0 011 301) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109)</p>	0 011 205	1807.00 €
ENESKAmicro 600 Set 2.3			
	 <p>The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor SE4 with (+) connection (order no. 0 011 311) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109)</p>	0 011 210	1536.00 €
ENESKAmicro 600 set 2.4			
	 <p>The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor SE4 with (+) connection (order no. 0 011 311) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKA rapid-chuck handpiece JEHR 500 (order no. 0 008 810) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109)</p>	0 011 215	1965.00 €
ENESKAmicro 600 set 2.5			
	<p>The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro COMPACT HT60, Motor incl. Handpiece Power, (Article-No. 0 011 400) 1 x ENESKAmicro Motorcable HT, 1.8 m (Article-No. 0 011 402) 1 x ENESKAmicro Collet Type EMA, Ø 3 mm (Article-No. 0 011 413) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109)</p>	0 011 220	1829.00 €

ENESKAmicro 600 Complete sets






		Order No.	Price from 1 piece
ENESKAmicro 600 set 2.6			
	The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor HT60/rapid chuck Power, XL axle (order no. 0 011 410) 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	1881.00 €
ENESKAmicro 600 set 2.7			
	The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JENK-410S with (-) connection (order no. 0 007 505) 1 x ENESKAmicro motor cable JENK-410S/EM, 1.6 m (order no. 0 011 502) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515) incl. collet type CHH, Ø 3 mm	0 011 240	1869.00 €
ENESKAmicro 600 set 2.8			
	The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JENK-250T with (-) connection (order no. 0 007 525) 1 x ENESKAmicro motor cable JENK-250T/EM, 1.6 m (order no. 0 011 501) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515) incl. collet type CHH, Ø 3 mm	0 011 245	1924.00 €
ENESKAmicro 600 set 2.9			
	The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JBM 50 S with (+) connection (order no. 0 008 803) 1 x ENESKAmicro motor cable JBM 50 S/EM, 1.6 m (order no. 0 011 503) 1 x ENESKAmicro handpiece support standard, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JEHR 500 (order no. 0 008 810) incl. collet type CHH, Ø 3 mm	0 011 250	2112.00 €
ENESKAmicro 600 set 2.10			
	The set contains the following components: 1 x ENESKAmicro 600 control unit (order no. 0 011 201) 1 x ENESKAmicro motor JBM 50 HT with (+) connection (order no. 0 008 806) 1 x ENESKAmicro motor cable JBM 50 HT/EM, 1.6 m (order no. 0 011 504) 1 x ENESKAmicro handpiece support standard, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JEHR 500 (order no. 0 008 810) incl. collet type CHH, Ø 3 mm	0 011 255	2045.00 €

ENESKAmicro 600

Complete sets

		Order No.	Price from 1 piece
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. 0 011 420) 1 x ENESKAmicro motor cable HT, 1.8 m (order no. 0 011 402) 1 x ENESKAmicro collet type EMB, Ø 6 mm (order no. 0 011 426) 1 x ENESKAmicro handpiece support, white (order no. 0 011 109) 	0 011 235	1755.00 €
ENESKAmicro 600 set 2.12			
	<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 JENK-410S with (-) connection (order no. 0 007 505) 1 x ENESKAmicro motor cable JENK-410S/EM, 1.6 m (order no. 0 011 502) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIH 300 (order no. 0 009 150) incl. collet type CHH, Ø 3 mm 	0 011 260	1871.00 €
ENESKAmicro 600 set 2.13			
	<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 SE, motor incl. rapid-chuck head with collet Ø 3 mm and motor cable 1.8 m (order no. 0 011 320) 1 x ENESKAmicro handpiece support HT, white (order no. 0 011 109) 	0 011 265	1834.00 €
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. 0 011 460) 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	1701.00 €
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 EMB, Ø 3 mm (order no. 0 011 423) 1 x ENESKAmicro collet type EMB, Ø 6 mm (order no. 0 011 426) 	0 011 275	2234.00 €

ENESKAmicro 450 Complete sets

		Order No.	Price from 1 piece
ENESKAmicro 450 Set 1.1			
	(−) The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor SE3 with (-) connection (order no. 0 011 301) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302)	0 011 000	1384.00 €
ENESKAmicro 450 set 1.2			
	(−) The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor SE3 with (-) connection (order no. 0 011 301) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515)	0 011 005	1666.00 €
ENESKAmicro 450 set 1.3			
	(+) The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor SE4 with (+) connection (order no. 0 011 311) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302)	0 011 010	1384.00 €
ENESKAmicro 450 set 1.4			
	(+) The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor SE4 with (+) connection (order no. 0 011 311) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKA rapid-chuck handpiece JEHR 500 (order no. 0 008 810)	0 011 015	1767.00 €
ENESKAmicro 450 set 1.5			
	(−) The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor JENK-410S with (-) connection (order no. 0 007 505) 1 x ENESKAmicro motor cable JENK-410S/EM, 1.6 m (order no. 0 011 502) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515) incl. collet type CHH, Ø 3 mm	0 011 020	1610.00 €


ENESKAmicro 450

Complete sets




		Order No.	Price from 1 piece
ENESKAmicro 450 set 1.6			
	 <p>The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor JENK-410S with (-) connection (order no. 0 007 505) 1 x ENESKAmicro motor cable JENK-410S/EM, 1.6 m (order no. 0 011 502) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIR 310 (order no. 0 007 515) incl. collet type CHH, Ø 3 mm</p>	0 011 025	1666.00 €
ENESKAmicro 450 set 1.7			
	 <p>The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor JENK-410S with (-) connection (order no. 0 007 505) 1 x ENESKAmicro motor cable JENK-410S/EM, 1.6 m (order no. 0 011 502) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIH 300 (order no. 0 009 150) incl. collet type CHH, Ø 3 mm</p>	0 011 030	1610.00 €
ENESKAmicro 450 set 1.8			
	 <p>The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro motor SE3 with (-) connection (order no. 0 011 301) 1 x ENESKAmicro motor cable S, 1.8 m (order no. 0 011 302) 1 x ENESKAmicro handpiece support, black (order no. 0 011 110) 1 x ENESKA rapid-chuck handpiece JIH 300 (order no. 0 009 150) incl. collet type CHH, Ø 3 mm</p>	0 011 035	1651.00 €
ENESKAmicro 450 set 1.9			
	<p>The set contains the following components: 1 x ENESKAmicro 450 control unit (order no. 0 011 001) 1 x ENESKAmicro COMPACT SE, motor incl. rapid-chuck head with collet Ø 3 mm and motor cable 1.8 m (order no. 0 011 320)</p>	0 011 040	1672.00 €

ENESKAmicro COMPACT series

COMPACT HT60


	Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT HT60			
 <ul style="list-style-type: none"> • with collet Ø 3 mm • Brushless DC motor BLDC • On-off switch located on the micromotor <p> 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 </p>	including motor cable 1.8 m	0 011 400	859.00 €
	including motor cable 3 m	0 011 400-3M	885.00 €
	including motor cable 1.8 m and fan	0 011 409	1055.00 €

Accessories / spare parts




	Dimensions	Order No.	Price from 1 piece
Collet type EMA			
	Ø 1.6 mm	0 011 411	89.10 €
	Ø 2.35 mm	0 011 412	89.10 €
	Ø 3 mm	0 011 413	89.10 €
	Ø 1/8"	0 011 414	89.10 €
ENESKAmicro motor cable HT, 1.8 m			
	for connecting the micromotors HT to the ENESKAmicro control units	0 011 402	163.00 €
ENESKAmicro motor cable HT, 3 m			
	for connecting the micromotors HT to the ENESKAmicro control units	0 011 403	193.00 €

ENESKAmicro COMPACT series


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 		including motor cable 1.8 m	0 011 460	764.00 €
		including motor cable 3 m	0 011 460-3M	809.00 €
		including motor cable 1.8 m and fan	0 011 469	944.00 €
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			


Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type EMA				
		Ø 1.6 mm	0 011 411	89.10 €
		Ø 2.35 mm	0 011 412	89.10 €
		Ø 3 mm	0 011 413	89.10 €
		Ø 1/8"	0 011 414	89.10 €
ENESKAmicro motor cable HT, 1.8 m				
	for connecting the micromotors HT to the ENESKAmicro control units		0 011 402	163.00 €
ENESKAmicro motor cable HT, 3 m				
	for connecting the micromotors HT to the ENESKAmicro control units		0 011 403	193.00 €




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>	including motor cable 1.8 m	0 011 420	782.00 €
	including motor cable 3 m	0 011 420-3M	809.00 €
	including motor cable 1.8 m and fan	0 011 429	968.00 €

ENESKAmicro COMPACT series COMPACT HT60-D6 **NEW!**


	Design	Order No.	Price from 1 piece
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 Concentricity: < +/- 0.01 mm Collet type: EMB </p>	including motor cable 3 m, stainless steel case	0 011 470	1307.00 €

Accessories / spare parts




	Dimensions	Order No.	Price from 1 piece
Collet type EMB			
	Ø 2.35 mm	0 011 422	71.35 €
	Ø 3 mm	0 011 423	71.35 €
	Ø 6 mm	0 011 426	71.35 €
	Ø 1/8"	0 011 424	71.35 €
ENESKAmicro motor cable HT-D6, 1.8 m			
	for connecting the micromotors HT-D6 to the ENESKAmicro control units	0 011 404	163.00 €
ENESKAmicro motor cable HT-D6, 3 m			
	for connecting the micromotors HT-D6 to the ENESKAmicro control units	0 011 404-3M	193.00 €

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 		including motor cable 1.8 m	0 011 410	893.00 €
		including motor cable 3 m	0 011 410-3M	921.00 €
		including motor cable 1.8 m and fan	0 011 419	1096.00 €
Motor speed:	up to max. 60,000 rpm			
Output:	8.9 N cm at 280 W			
Weight:	0.4 kg			
Dimensions (D x L):	Ø 30 x 200 mm			
Collet axle:	Ø 8 x 30 mm (outside the housing)			
Concentricity:	< +/- 0.01 mm			
Collet type:	EMA			

Accessories / spare parts




		Dimensions	Order No.	Price from 1 piece
Collet type EMA				
		Ø 1.6 mm	0 011 411	89.10 €
		Ø 2.35 mm	0 011 412	89.10 €
		Ø 3 mm	0 011 413	89.10 €
		Ø 1/8"	0 011 414	89.10 €
ENESKAmicro motor cable HT, 1.8 m				
	for connecting the micromotors HT to the ENESKAmicro control units		0 011 402	163.00 €
ENESKAmicro motor cable HT, 3 m				
	for connecting the micromotors HT to the ENESKAmicro control units		0 011 403	193.00 €

ENESKAmicro COMPACT series

COMPACT SE



	Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT SE			
 <ul style="list-style-type: none"> • with collet Ø 3 mm • Brushless DC motor BLDC • On-off switch located on the micromotor 	including motor cable 1.8 m	0 011 320	926.00 €
	including motor cable 3 m	0 011 320-3M	953.00 €
Motor speed:	up to max. 50.000 rpm		
Output:	7.8 N cm at 280 W		
Weight:	0.365 kg		
Dimensions (D x L):	Ø 30 x 170 mm		
Concentricity:	< +/- 0.01 mm		
Collet type:	EMA		

Accessories / spare parts





	Dimensions	Order No.	Price from 1 piece
Collet type EMA			
	Ø 1.6 mm	0 011 411	89.10 €
	Ø 2.35 mm	0 011 412	89.10 €
	Ø 3 mm	0 011 413	89.10 €
	Ø 1/8"	0 011 414	89.10 €
ENESKAmicro motor cable S, 1.8 m			
	for connecting the micromotors SE to the ENESKAmicro control units	0 011 302	163.00 €
ENESKAmicro motor cable S, 3 m			
	for connecting the micromotors SE to the ENESKAmicro control units	0 011 303	192.00 €

ENESKAmicro micromotors with (-) connection

Micromotor JENK-250T



		Order No.	Price from 1 piece
Micromotor JENK-250T			
 	Brushless alternating current motor	0 007 525	579.00 €
	Power:	76 watts	
	Rotation speed range:	1,000 – 25,000 rpm	
	Torque:	4.8 N cm	
	Dimensions:	Ø 28.4 x 78.4 mm	
Weight:	147 g		

Accessories / spare parts





		Order No.	Price from 1 piece
Step-down gear JRG 01			
	for connection to micromotors with (-) connection	0 009 500	388.00 €
	Reduces rotation speed:	4:1	
	Rotation speed max.:	30,000 rpm	
	Dimensions:	Ø 19 x 55 mm (Extension 42 mm)	
	Weight:	68 g	
Extension element JCN 01			
	for connection to micromotors with (-) connection	0 009 505	303.00 €
	Rotation speed max.:	35,000 rpm	
	Dimensions:	Ø 19 x 63.5 mm (Extension 50 mm)	
	Weight:	83 g	
Motor cable JENK-250T/EM, 1.6 m			
	for connecting the micromotors JENK-250T to the ENESKAmicro control units	0 011 501	199.00 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro micromotors with (-) connection

Micromotor JENK-410S



		Order No.	Price from 1 piece
Micromotor JENK-410S			
 	Brushless alternating current motor	0 007 505	516.00 €
	Power:	73 watts	
	Rotation speed range:	1,000 – 40,000 rpm	
	Torque:	4.2 N cm	
	Dimensions:	Ø 24.5 x 67.1 mm	
Weight:	90 g		

Accessories / spare parts





		Order No.	Price from 1 piece
Step-down gear JRG 01			
	for connection to micromotors with (-) connection	0 009 500	388.00 €
	Reduces rotation speed:	4:1	
	Rotation speed max.:	30,000 rpm	
	Dimensions:	Ø 19 x 55 mm (Extension 42 mm)	
	Weight:	68 g	
Extension element JCN 01			
	for connection to micromotors with (-) connection	0 009 505	303.00 €
	Rotation speed max.:	35,000 rpm	
	Dimensions:	Ø 19 x 63.5 mm (Extension 50 mm)	
	Weight:	83 g	
Motor cable JENK-410S/EM, 1.6 m			
	for connecting the micromotors JENK-410S to the ENESKAmicro control units	0 011 502	199.00 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro micromotors with (-) connection

Micromotor SE3



		Design	Order No.	Price from 1 piece
ENESKAmicro motor SE3				
 	<ul style="list-style-type: none"> Brushless DC motor BLDC On-off switch located on the micromotor 	incl. motor cable 1.8 m	0 011 300	548.00 €
		without motor cable	0 011 301	403.00 €
	Motor speed: up to max. 50.000 rpm Output: 7.8 N cm at 280 W Weight: 0.14 kg Dimensions (D x L): Ø 24 x 115 mm	incl. fan and motor cable 1.8 m	0 011 308	655.00 €
		incl. fan, without motor cable	0 011 309	460.00 €

Accessories / spare parts





		Order No.	Price from 1 piece
Step-down gear JRG 01			
	for connection to micromotors with (-) connection Reduces rotation speed: 4:1 Rotation speed max.: 30,000 rpm Dimensions: Ø 19 x 55 mm (Extension 42 mm) Weight: 68 g	0 009 500	388.00 €
Extension element JCN 01			
	for connection to micromotors with (-) connection Rotation speed max.: 35,000 rpm Dimensions: Ø 19 x 63.5 mm (Extension 50 mm) Weight: 83 g	0 009 505	303.00 €
ENESKAmicro motor cable S, 3 m			
	for connecting the micromotors SE to the ENESKAmicro control units	0 011 303	192.00 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro micromotors with (+) connection

Micromotor JBM 50 HT



		Design	Order No.	Price from 1 piece
Micromotor JBM 50 HT				
 	Brushless high-performance three-phase motor for operation of handpieces with (+) connection	without motor cable	0 008 806	716.00 €
		including motor cable	0 008 805	825.00 €
Output: 200 W Torque: 8.4 N cm Speed range: 1,000 – 50,000 1/min Sound level: < 62 dB(A) at 30,000 rpm Dimensions: Ø 28.3 x 87.7 mm (without cable) Weight: 160 g				

Accessories / spare parts





		Order No.	Price from 1 piece
Step-down gear JERG 01 B			
	For use with micromotors with (+) connection	0 009 806	359.00 €
	Speed step-down ratio: 4 : 1 Speed max.: 30,000 rpm Dimension: Ø 22.4 x 40 mm (without thread) Weight: 65 g		
Adapter JECN 01 T			
	To connect micromotors with (+) connection to handpieces with (-) connection	0 009 807	303.00 €
	Speed max.: 30,000 rpm Dimension: Ø 22.4 x 29 mm (without thread) Weight: 31 g		
Motor cable JBM 50 HT/EM, 1.5 m			
	for connecting the micromotors JBM 50 HT to the ENESKAmicro control units	0 011 504	144.25 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro micromotors with (+) connection

Micromotor JBM 50 S



	Design	Order No.	Price from 1 piece
Micromotor JBM 50 S			
 	Brushless three-phase motor for operation of handpieces with (+) connection	without motor cable	0 008 803 678.00 €
	Torque: 5.6 N cm Speed range: 1,000 – 50,000 1/min Sound level: < 58 dB(A) at 30,000 rpm Dimensions: Ø 27.4 x 74.7 mm (without cable) Weight: 117 g	including motor cable	0 008 802 787.00 €

Accessories / spare parts





		Order No.	Price from 1 piece
Step-down gear JERG 01 B			
	For use with micromotors with (+) connection	0 009 806	359.00 €
	Speed step-down ratio: 4 : 1 Speed max.: 30,000 rpm Dimension: Ø 22.4 x 40 mm (without thread) Weight: 65 g		
Adapter JECN 01 T			
	To connect micromotors with (+) connection to handpieces with (-) connection	0 009 807	303.00 €
	Speed max.: 30,000 rpm Dimension: Ø 22.4 x 29 mm (without thread) Weight: 31 g		
Motor cable JBM 50 S/EM, 1.5 m			
	for connecting the micromotors JBM 50 S to the ENESKAmicro control units	0 011 503	144.25 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro micromotors with (+) connection

Micromotor SE4



		Design	Order No.	Price from 1 piece
ENESKAmicro motor SE4				
 	<ul style="list-style-type: none"> • Brushless DC motor BLDC • On-off switch located on the micromotor 	incl. motor cable 1.8 m	0 011 310	548.00 €
		without motor cable	0 011 311	403.00 €
	Motor speed: up to max. 50.000 rpm Output: 7.8 N cm at 280 W Weight: 0.14 kg Dimensions (D x L): Ø 24 x 115 mm	incl. fan and motor cable 1.8 m	0 011 318	655.00 €
		incl. fan, without motor cable	0 011 319	460.00 €

Accessories / spare parts








		Order No.	Price from 1 piece
Step-down gear JERG 01 B			
	For use with micromotors with (+) connection	0 009 806	359.00 €
	Speed step-down ratio: 4 : 1		
	Speed max.: 30,000 rpm		
	Dimension: Ø 22.4 x 40 mm (without thread)		
Weight: 65 g			
Adapter JECN 01 T			
	To connect micromotors with (+) connection to handpieces with (-) connection	0 009 807	303.00 €
	Speed max.: 30,000 rpm		
	Dimension: Ø 22.4 x 29 mm (without thread)		
	Weight: 31 g		
ENESKAmicro motor cable S, 3 m			
	for connecting the micromotors SE to the ENESKAmicro control units	0 011 303	192.00 €
ENESKAmicro extension cable, 2 m			
	suitable for all motor cables of the ENESKAmicro series	0 011 401	41.85 €

ENESKAmicro Hand-filing machines with (+) connection

Hand-filing machine DIPROFIL® FPT/ER, Mark II

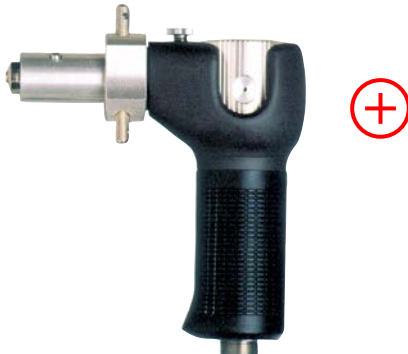
		Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® FPT/ER, Mark II			
 	for connection to JBM 50 S and JBM 50 HT	0 005 204-N	997.00 €
	Stroke length:	0 - 6 mm, continuously adjustable (0.5 - 3 mm recommended)	
	No. of strokes:	7,000 - 8,000 strokes/min (depending on control unit) (5,000 - 6,500 strokes/min recommended)	
	Tool receptacle:	Ø 2 - 6.4 mm	
	Insertion depth:	40 mm	
	Sound level:	< 70 dB(A) at 7,000 strokes/min (acc. to ISO 15744)	
Vibration:	5.79 - 13.37 m/s ²		
Weight:	560 g (without micromotor)		
Accessories:	storage box, tool set, extension tube/finger protection bush, replacement friction bearing and felts, lubricating oil		

Accessories / spare parts







		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
		for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292
			Ø 6 x 30 mm	0 411 201
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clam- ping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

ENESKAmicro Hand-filing machines with (+) connection

Hand-filing machine JFMM 4



		Order No.	Price from 1 piece
Hand-filing machine JFMM 4			
	For connection to micromotors with (+) connection, with step-down gear ratio 4:1 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	0 005 300	921.00 €

Accessories / spare parts







		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292	9.50 €
		Ø 6 x 30 mm	0 411 201	13.00 €
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

ENESKAmicro Hand-filing machines with (-) connection

Hand-filing machine DIPROFIL® FPT/NR, Mark II



		Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® FPT/NR, Mark II			
 	For connection to micromotors JENK-410S and JENK-250T	0 005 203-N	1064.00 €
	Stroke length: 0 - 6 mm, continuously adjustable (0.5 - 3 mm recommended)		
	No. of strokes: 7,000 - 8,000 strokes/min (depending on control unit) (5,000 - 6,500 strokes/min recommended)		
	Tool receptacle: Ø 2 - 6.4 mm		
	Insertion depth: 40 mm		
	Noise level: < 70 dB(A) at 7,000 strokes/min (according to ISO 15744)		
	Vibration: 5.79 - 13.37 m/s ²		
	Weight: 560 g (without micromotor)		
	Scope of supply: Storage case, tool set, extension tube/finger protection bush, Replacement friction bearing and felts, lubricating oil		

Accessories / spare parts








		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292	9.50 €
		Ø 6 x 30 mm	0 411 201	13.00 €
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high- strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clam- ping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

ENESKAmicro Hand-filing machines with (-) connection

Hand-filing machine JFMM 3



		Order No.	Price from 1 piece
Hand-filing machine JFMM 3			
	For connection to micromotors with (-) connection, with integrated step-down gear 4:1 Stroke length: 0.5 – 6 mm, continuously adjustable No. of strokes: max. 7,800 strokes/min Input speed: max. 30,000 rpm Tool receptacle: Ø 1 - 6.2 mm Weight: 750 g Scope of supply: 2 tool holders, tool set, oil, storage box	0 005 400	921.00 €
			

Accessories / spare parts






		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292	9.50 €
		Ø 6 x 30 mm	0 411 201	13.00 €
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

ENESKAmicro transverse handpieces with (+) and (-) connection

Transverse handpiece DIPROFIL®

		Order No.	Price from 1 piece
Transverse handpiece DIPROFIL® FMV/E			
	Transverse: 0 - 4 mm, continuously adjustable No. of strokes: max. 8,000 strokes/min Tool receptacle: Ø 3.5 mm Sound level: < 75 dB(A) Vibration: < 2.5 m/s ² Dimensions: Ø 25 x 95 mm (without thread) Weight: 195 g	0 001 212	635.00 €
Transverse handpiece DIPROFIL® FMV/N			
	Transverse stroke: 0 - 4 mm continuously adjustable No. of strokes: max. 8,000 strokes/min Tool receptacle: Ø 3.5 mm Sound level: < 75 dB(A) Vibration: < 2.5 m/s ² Dimensions: Ø 24 x 89 mm (without thread) Weight: 195 g Scope of supply: handpiece, storage case, tools, oil	0 001 210	635.00 €

Accessories / spare parts


		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 3 mm, length 50 mm				
			2 012 498	4.50 €

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.

		Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® Di-Pro FXM-N, Mark II			
for direct connection to ENESKAmicro control units 600		0 001 521-N	2286.00 €
	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		

Accessories / spare parts


		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292	9.50 €
		Ø 6 x 30 mm	0 411 201	13.00 €
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
Adapter ENESKA 3-1 motor cable				
	Adapter for connecting the ENESKA 3-1 motor cables to ENESKAmicro / joke 226 / Urawa / Diprofil / Gesswein control units		0 006 203-1	25.25 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

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.

		Order No.	Price from 1 piece
Hand-filing machine DIPROFIL® FPM/R, Mark II			
	for direct connection to ENESKAmicro control units 600	0 005 201-N	1710.00 €
	Stroke length: 0.5 – 6 mm, infinitely adjustable		
	Number of strokes: 1000 - 7800 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		

Accessories / spare parts


		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm	0 411 292	9.50 €
		Ø 6 x 30 mm	0 411 201	13.00 €
Holder for grinding files				
	clamping height up to 11 mm	Ø 4 x 50 mm	0 401 959	46.90 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamp- ing plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
Adapter ENESKA 3-1 motor cable				
	Adapter for connecting the ENESKA 3-1 motor cables to ENESKAmicro / joke 226 / Urawa / Diprofil / Gesswein control units		0 006 203-1	25.25 €
VHM round rod head Ø 6 mm, length 50 mm				
			2 012 499	9.50 €

ENESKAmicro Hand-filing machines with integrated micromotor








Hand-filing machine FMD/3-2/EM

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.





	Order No.	Price from 1 piece
Hand-filing machine FMD/3-2/EM		
	for direct connection to ENESKAmicro control units 450 and 600	0 011 550 1420.00 €
Stroke length:	0.5 – 6 mm, infinitely adjustable	
Number of strokes:	1000 - 7800 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	

Accessories / spare parts






	Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks			
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm 0 411 291	10.75 €
	for receiving tool up to 8 mm high	Ø 3.5 x 30 mm 0 411 292	9.50 €
		Ø 6 x 30 mm 0 411 201	13.00 €
Holder for grinding files			
	clamping height up to 11 mm	Ø 4 x 50 mm 0 401 959	46.90 €
Tool holder Premium, mini			
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm 0 401 951	43.00 €
Tool holder Premium, medium			
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm 0 401 972	50.20 €
Tool holder with counter-clamping			
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.	0 750 710	56.20 €
VHM round rod head Ø 6 mm, length 50 mm			
		2 012 499	9.50 €

ENESKAmicro Mini hand-filing machines with (+) connection

Mini hand-filing machines DIPROFIL® FMR/E • JN 48





		Design	Order No.	Price from 1 piece	
Mini hand-filing machine DIPROFIL® FMR/E					
 	No. of strokes:	max. 8,000 strokes/min	stroke length 0.5 mm	0 001 207	607.00 €
	Tool receptacle:	Ø 3.5 mm	stroke length 1.0 mm	0 001 215	607.00 €
	Sound level:	< 70 dB(A)	stroke length 1.5 mm	0 001 209	607.00 €
	Vibration:	< 2.5 m/s ²			
Dimensions:		Ø 24 x 90 mm (without thread)			
Weight:		120 g			
Scope of supply:		storage box, tools, oil, rubber covering (long)			
Mini hand-filing machine JN 48					
 	with integrated step-down gear 4:1		stroke length 0.8 mm	0 001 403	675.00 €
	No. of strokes:	max. 12,500 strokes/min			
	Tool receptacle:	Ø 3.1 mm			
	Dimensions:	Ø 22.4 x 92 mm (without thread)			
Weight:		130 g			
Scope of supply:		storage box, tools			

Accessories / spare parts






		Shank dimensions	Order No.	Price from 1 piece	
Tool holder for lapping sticks					
	head pivotable through 90°, for receiving tool up to 10 x 10 mm		Ø 3 x 35 mm	0 411 291	10.75 €
Tool holder Premium, mini					
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate		Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium					
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clam- ping plate. With recess for 6 mm flat and round stones.		Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping					
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.			0 750 710	56.20 €
VHM round rod head Ø 3 mm, length 50 mm					
				2 012 498	4.50 €

ENESKAmicro Mini hand-filing machines with (-) connection

Mini hand-filing machines DIPROFIL® FMR/N • JN 38

		Design	Order No.	Price from 1 piece
Mini hand-filing machine DIPROFIL® FMR/N				
 	No. of stroke:	max. 8,000 strokes/min	stroke length 0.5 mm	0 001 203 607.00 €
	Tool receptacle:	Ø 3.5 mm	stroke length 1.0 mm	0 001 214 607.00 €
	Noise level:	< 70 dB(A)	stroke length 1.5 mm	0 001 218 607.00 €
	Vibration:	< 2.5 m/s ²		
Dimensions:	Ø 24 x 83.5 mm (without thread)			
Weight:	120 g			
Scope of supply:	storage case, tools, oil, rubber collar long			
Mini hand-filing machine JN 38				
 	With integrated step-down-gear 4 : 1		stroke length 0.8 mm	0 001 401 562.00 €
	No. of strokes:	max. 10,000 strokes/min with the micromotor JNK 351		
	Tool receptacle:	Ø 3.1 mm		
	Dimensions:	Ø 21.4 x 93 mm (without thread)		
Weight:	130 g			
Scope of supply:	storage case, tools			



Accessories / spare parts

		Shank dimensions	Order No.	Price from 1 piece
Tool holder for lapping sticks				
	head pivotable through 90°, for receiving tool up to 10 x 10 mm	Ø 3 x 35 mm	0 411 291	10.75 €
Tool holder Premium, mini				
	clamping range: height up to 8 mm, hardened finish, high-strength clamping plate	Ø 3 mm	0 401 951	43.00 €
Tool holder Premium, medium				
	clamping range: height 6 mm, hardened finish. Shank and body manufactured from a piece of high-strength clamping plate. With recess for 6 mm flat and round stones.	Ø 3 mm	0 401 972	50.20 €
Tool holder with counter-clamping				
	sturdy holder for clamping round and flat tools up to max. 3 mm. All solid carbide (VHM) round rods (see articles: 2 012 498 and 2 012 499) are used as a clamping shank for handpieces and/or hand-filing machines and are simply clamped and screwed to the rear of the holder.		0 750 710	56.20 €
VHM round rod head Ø 3 mm, length 50 mm				
			2 012 498	4.50 €

Hollow handle for ergonomic handling of your handpieces

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 (-) connection				
	Use with extension element JCN 01 (Order No. 0 009 505) or step-down gear JRG 01 (Order No. 0 009 500)	0 009 240	67.55 €	
	Weight: 120 g			
Hollow handle for ENESKAmicro with (+) connection				
	Use with step-down gear JERG 01B (Order No. 0 009 806)	0 009 245	67.55 €	
	Weight: 100 g			

Quick coupling system with (-) connection joke Rapid-Change

Rapid-Change with (-) connection for ENESKAmicro

The system for changing handpieces on the ENESKAmicro with (-) connection within seconds. Ingenious and simple: Remove the old handpiece, attach the new one and back to work. All is a matter of a few seconds. Retrofitting the handpiece and motor is child's play with just two components.

joke Rapid-Change lets you make the most of your working time, which is no longer spent on time-consuming changing of handpieces or collets.

		Order No.	1 piece	3 pieces	5 pieces
Rapid-Change coupling for micromotor with (-) connection					
	for retrofitting of ENESKAmicro micromotors with (-) connection	0 007 050	69.20 €	64.10 €	60.50 €
	Weight: 30 g Dimensions: Ø 19 x 16 mm (without thread)				
The suitable hook wrench (Order No. 0 009 379) is included in the scope of supply of the handpieces!					
Rapid-Change connection plug for handpieces with (-) connection					
	suitable for all ENESKAmicro-handpieces with (-) connection (except JHG 200, Order No. 0 009 650)	0 007 051	49.35 €	46.25 €	
	Weight: 15 g Dimensions: Ø 19 x 14.7 mm (without thread)				
Suitable installation wrench (Order No. 0 007 052)					

Quick coupling system with (+) connection joke Rapid-Change




Rapid-Change with (+) connection for ENESKAmicro

The system for rapid handpiece change for our ENESKAmicro system with (+) connection.

Screw the coupling on to the micromotor and the desired handpieces and/or mini hand-filing machines can be simply push-fitted with the corresponding connector. Screw-fitting is a thing of the past!

The system is suitable for all ENESKAmicro handpieces with (+) connection, the DIPROFIL® mini hand-filing machines and all micromotors with (+) connection.

Switch to joke Rapid-Change saves you time, effort and hard cash.



		Order No.	Price from		
			1 piece	3 pieces	5 pieces
Rapid-Change coupling for micromotor with (+) connection					
	for retrofitting of ENESKAmicro micromotors with (+) connection Dimensions: Ø 21.9 x 18 mm (without thread) Weight: 36 g	0 008 815	81.50 €	74.55 €	69.60 €
Rapid-Change connection plug for handpieces with (+) connection					
	suitable for all handpieces with (+) connection Dimensions: Ø 22 x 18 mm (without thread) Weight: 37 g	0 008 816	64.60 €	60.50 €	
Rapid-Change connector for DIPROFIL® mini hand-filing machines with (+) connection					
	suitable for the DIPROFIL® FMR/E mini hand-filing machines Dimensions: Ø 21 x 18.2 mm (without thread) Weight: 33 g	0 008 817	64.60 €	60.50 €	




- The advantages to you:**
- Handpiece change quick and easy
 - Retrofitting child's play in two steps
 - Fits perfectly between the handpiece and the motor

ENESKAmicro handpieces with (+) connection

Rapid-chuck handpiece JEHR 500



			Order No.	Price from 1 piece
Rapid-chuck handpiece JEHR 500				
		Collet: CHH (Ø 3 mm in scope of supply) Speed: max. 50,000 rpm, in continuous operation 40,000 rpm Concentricity: ± 0.01 mm Dimensions: Ø 22.4 x 58 mm (without thread) Weight: 95 g	0 008 810	476.00 €

Accessories / spare parts


		Dimensions	Order No.	Price from 1 piece
Collet type CHH				
		Ø 1.0 mm	0 009 155	116.75 €
		Ø 1.6 mm	0 009 157	73.00 €
		Ø 2.5 mm	0 009 159	116.75 €
		Ø 3.0 mm	0 009 151	73.00 €
		Ø 1/8"	0 009 153	73.00 €

ENESKAmicro handpieces with (+) connection



Angle handpiece JERA 270 S

			Order No.	Price from 1 piece
Angle handpiece JERA 270 S				
		equipped from the outset with Rapid-Change connection! Collet: GH (Ø 6 mm included) Speed max.: 18,000 1/min, same rotation direction Dimensions: Ø 24 x 44 mm (without connector) Head dimensions: Ø 24 x 44 mm Weight: 110 g	0 008 813	523.00 €




Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type GH				
		Ø 2.35 mm - 3/32"	0 030 010	8.10 €
		Ø 3.0 mm	0 030 013	8.10 €
		Ø 6.0 mm	0 030 016	8.10 €



ENESKAmicro handpieces with (+) connection Handpiece JEHG 400

			Order No.	Price from 1 piece
Handpiece JEHG 400				
		Collet: CHG (Ø 6 mm included) Speed: max. 30,000 1/min Concentricity: ± 0.01 mm Dimensions: Ø 22.4 x 75 mm (without thread) Weight: 100 g	0 009 811	365.00 €


Accessories / spare parts

	Dimensions	Order No.	Price from		
			1 piece	3 pieces	5 pieces
Collet type CHG					
	Ø 2.35 mm	0 009 653	85.60 €	71.25 €	67.80 €
	Ø 3.0 mm	0 009 652	85.60 €	71.25 €	67.80 €
	Ø 6.0 mm	0 009 651	85.60 €	71.25 €	67.80 €

ENESKAmicro handpieces with (+) connection Angle handpiece JERA 270



			Order No.	Price from 1 piece
Angle handpiece JERA 270				
		Collet: CHS (Ø 3 mm included) Speed: max. 20,000 1/min, reverse initial rotation Head gearing: 1:1,5 Concentricity: ± 0.01 mm Dimensions: Ø 22.4 x 71 mm (without thread) Weight: 100 g	0 009 812	487.00 €

Accessories / spare parts


	Dimensions	Order No.	Price from
			1 piece
Collet type CHS			
	Ø 1.6 mm	0 750 515	57.65 €
	Ø 2.35 mm	0 750 511	57.65 €
	Ø 3.0 mm	0 750 510	57.65 €
	Ø 1/8"	0 750 520	57.65 €

ENESKAmicro handpieces with (+) connection

Angle handpiece JEKC 300



			Order No.	Price from 1 piece
Angle handpiece JEKC 300				
 	Collet:	CHC (Ø 3 mm included)	0 009 813	406.00 €
	Speed:	max. 20,000 1/min, same rotation direction		
	Head gearing:	3:4		
	Concentricity:	± 0.01 mm		
	Dimensions:	Ø 22.5 x 69.5 mm (without thread)		
Weight:	60 g			

Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHC				
		Ø 1.6 mm	0 009 207	73.00 €
		Ø 2.35 mm	0 009 202	73.00 €
		Ø 3.0 mm	0 009 201	73.00 €

ENESKAmicro handpieces with (+) connection



Angle handpiece WE4-90

			Order No.	Price from 1 piece
ENESKAmicro Angle handpiece WE4-90				
 	Collet:	CHC (Ø 3 mm included)	0 011 330	408.00 €
	Speed:	max. 30,000 rpm, reversal of direction of rotation		
	Concentricity:	< +/- 0.01 mm		
	Dimensions:	Ø 22 x 62 mm (without thread)		
	Weight:	65 g		


Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHC				
		Ø 1.6 mm	0 009 207	73.00 €
		Ø 2.35 mm	0 009 202	73.00 €
		Ø 3.0 mm	0 009 201	73.00 €



ENESKAmicro handpieces with (+) connection Angle handpiece WE4-45

			Order No.	Price from 1 piece
ENESKAmicro Angle handpiece WE4-45				
		Collet: CHC (Ø 3 mm included) Speed: max. 30,000 rpm, same direction of rotation Concentricity: < +/- 0.01 mm Dimensions: Ø 22 x 62 mm (without thread) Weight: 65 g	0 011 335	408.00 €


Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHC				
		Ø 1.6 mm	0 009 207	73.00 €
		Ø 2.35 mm	0 009 202	73.00 €
		Ø 3.0 mm	0 009 201	73.00 €

ENESKAmicro handpieces with (-) connection Rapid-chuck handpiece JIR-310



			Order No.	Price from 1 piece
Rapid-chuck handpiece JIR-310				
		Collet: CHH (Ø 3 mm included) Speed: max. 40,000 rpm Concentricity: ± 0.01 mm Dimensions: Ø 24 x 75 mm (without thread) Weight: 90 g	0 007 515	307.00 €

Accessories / spare parts




		Dimensions	Order No.	Price from 1 piece
Collet type CHH				
		Ø 1.0 mm	0 009 155	116.75 €
		Ø 1.6 mm	0 009 157	73.00 €
		Ø 2.0 mm	0 009 158	116.75 €
		Ø 2.35 mm	0 009 152	73.00 €
		Ø 2.5 mm	0 009 159	116.75 €
		Ø 3.0 mm	0 009 151	73.00 €
		Ø 1/8"	0 009 153	73.00 €

ENESKAmicro handpieces with (-) connection

Handpiece JHG 210



			Order No.	Price from 1 piece
Handpiece JHG 210				
 	Collet: Speed: Concentricity: Dimensions: Weight:	CHG (Ø 6 mm included) max. 27,000 rpm ± 0.01 mm Ø 25 x 102 mm (without thread) 180 g	0 007 650	306.00 €

Accessories / spare parts


	Dimensions	Order No.	Price from		
			1 piece	3 pieces	5 pieces
Collet type CHG					
	Ø 2.35 mm	0 009 653	85.60 €	71.25 €	67.80 €
	Ø 3.0 mm	0 009 652	85.60 €	71.25 €	67.80 €
	Ø 6.0 mm	0 009 651	85.60 €	71.25 €	67.80 €

ENESKAmicro handpieces with (-) connection



Handpiece JIH 300

			Order No.	Price from 1 piece
Handpiece JIH 300				
 	Collet: Speed: Concentricity: Dimensions: Weight:	CHH (Ø 3 mm included) max. 40,000 rpm ± 0.01 mm Ø 23 x 60 mm (without thread) 60 g	0 009 150	309.00 €


Accessories / spare parts

	Dimensions	Order No.	Price from
			1 piece
Collet type CHH			
	Ø 1.0 mm	0 009 155	116.75 €
	Ø 1.6 mm	0 009 157	73.00 €
	Ø 2.0 mm	0 009 158	116.75 €
	Ø 2.35 mm	0 009 152	73.00 €
	Ø 2.5 mm	0 009 159	116.75 €
	Ø 3.0 mm	0 009 151	73.00 €
	Ø 1/8"	0 009 153	73.00 €



ENESKAmicro handpieces with (-) connection Angle handpiece JKC 345

			Order No.	Price from 1 piece
Angle handpiece JKC 345				
 	Collet:	CHC (Ø 3 mm included)	0 009 200	347.00 €
	Speed:	max. 20,000 rpm, same rotation direction		
	Concentricity:	± 0.01 mm		
	Dimensions:	Ø 22 x 62 mm (without thread)		
	Weight:	60 g		


Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHC				
		Ø 1.6 mm	0 009 207	73.00 €
		Ø 2.35 mm	0 009 202	73.00 €
		Ø 3.0 mm	0 009 201	73.00 €

ENESKAmicro handpieces with (-) connection Angle handpiece JIC 390



			Order No.	Price from 1 piece
Angle handpiece JIC 390				
 	Collet:	CHC (Ø 3 mm included)	0 009 250	347.00 €
	Speed:	max. 20,000 rpm, reverse initial rotation		
	Concentricity:	± 0.01 mm		
	Dimensions:	Ø 22 x 58 mm (without thread)		
	Weight:	60 g		

Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHC				
		Ø 1.6 mm	0 009 207	73.00 €
		Ø 2.35 mm	0 009 202	73.00 €
		Ø 3.0 mm	0 009 201	73.00 €

ENESKAmicro handpieces with (-) connection

Handpiece JBMH 300 N



			Order No.	Price from 1 piece
Handpiece JBMH 300 N				
		Collet: Speed: Dimensions: Concentricity: Weight:	CHM (Ø 3 mm included) max. 35,000 rpm Ø 19 x 128.5 mm (without thread) ± 0.01 mm 160 g	0 009 350 337.00 €

Accessories / spare parts

		Dimensions	Order No.	Price from 1 piece
Collet type CHM				
		Ø 2.35 mm	0 009 352	73.00 €
		Ø 3.0 mm	0 009 351	73.00 €

ENESKAmicro handpieces with (-) connection

Miniature angle handpiece JMFC 300 M



			Order No.	Price from 1 piece
Miniature angle handpiece JMFC 300 M				
		Collet: Speed: Concentricity: Dimensions: Head-Ø: Weight:	K-253 (Ø 1.6 mm included) max. 15,000 rpm, reverse initial rotation ± 0.01 mm Ø 19 x 95 mm (without thread) 9.8 mm 47 g	0 009 511 347.00 €

Accessories / spare parts


		Dimensions	Order No.	Price from 1 piece
Collet type K-253				
		Ø 1.6 mm	0 009 513	49.95 €

ENESKAmicro handpieces with (-) connection

Miniature angle handpiece JMFC 300 S

		Order No.	Price from
			1 piece
Miniature angle handpiece JMFC 300 S			
 	Collet:	K-252 (Ø 1,6 mm included)	0 009 512
	Speed:	max. 15,000 rpm, reverse initial rotation	296.00 €
	Concentricity:	± 0.01 mm	
	Dimensions:	Ø 19 x 95 mm (without thread)	
	Head-Ø:	14 mm	
Weight:	50 g		

Accessories / spare parts





	Dimensions	Order No.	Price from
			1 piece
Collet type K-252			
	Ø 1.6 mm	0 009 514	49.95 €





ENESKAmicro Belt grinder with (-) and (+) connection J-BS 100 • J-BS 400

Belt grinder J-BS

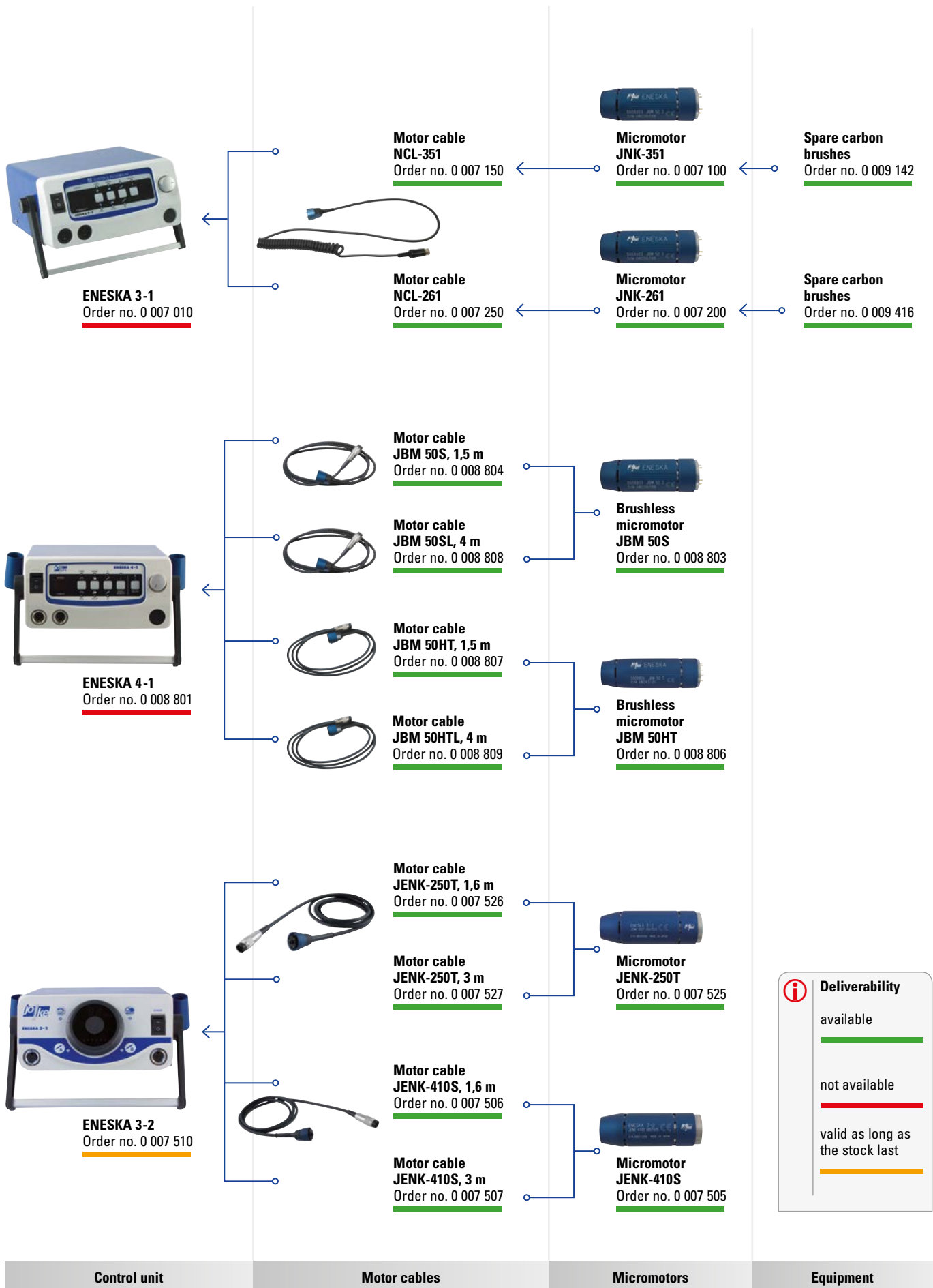
Compliments the ENESKAmicro system. This belt grinder is screwed onto the micromotors, just like a handpiece. It is small and easy to handle, fits nicely in your hand and can be used for delicate work. The head can be swivelled on its axis by approximately 90°. A hand rest is located above the grinding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

		Order No.	Price from 1 piece
Belt grinder JBS 100 with (-) connection			
		For connection to micromotors with (-) connection, fits grinding belts 4, 6 and 8 mm wide.	0 009 950 589.00 €
		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 - 400.			
Belt grinder JBS 400 with (+) connection			
		For connection to micromotors with (+) connection, for grinding belts 4, 6 and 8 mm wide	0 008 850 636.00 €
		Gearing: 8:3 Input speed: max. 40,000 rpm Speed: max. 15,000 rpm Weight: 355 g	
Delivered with two grinding belts 6 x 300 mm respectively in grain sizes 120 - 240 - 400.			

Accessories / spare parts

	Dimensions	Grit size	Packing quantity	Order No.	Price from	
					1 pack	10 packs
Grinding belts, corundum						
	6 x 300 mm	120	10 pieces	0 401 540	11.95 €	10.95 €
		240	10 pieces	0 401 541	11.95 €	10.95 €
		320	10 pieces	0 401 545	12.30 €	11.55 €
		400	10 pieces	0 401 542	11.95 €	10.95 €
		500	10 pieces	0 401 549	14.05 €	12.80 €
		600	10 pieces	0 401 547	14.05 €	12.80 €
Grinding belts, zirconium corundum						
	6 x 300 mm	80	10 pieces	0 401 543	12.20 €	11.15 €
		120	10 pieces	0 401 544	12.20 €	11.15 €

Overview of old ENESKA systems control units, micromotors, motor cables, carbon brushes



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 64!



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)

	Motor connection	Dimensions	Order No.	Price from 1 piece
Flexible shaft with Rapid-Change coupling				
	Standard	1,100 mm	0 015 900	226.00 €
	Quick-Change	1,100 mm	0 016 900	232.00 €
Flexible shaft with spring clip				
	Standard	1,100 mm	0 015 800	197.00 €
	Quick-Change	1,100 mm	0 016 800	221.00 €

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.

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 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		
 <p>Robust construction (shaft connection and suspension) pleasant noise level, can be used lying and hanging, compatible with foot controller Premium</p> <p>Rotational speed: max. 22,000 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</p>	0 016 550	431.00 €

↓ matching set


	Design	Order No.	Price from 1 piece
Advantage package jokeFlex Premium Plus			
 <p>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)</p>	Rapid-Change	0 016 850R	849.00 €
	Standard	0 016 850	839.00 €

⚙️ Accessories / spare parts




	Order No.	Price from 1 pack 1 piece
Foot control Premium, Motor system with flexible shaft		
 <p>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</p>	0 016 600	279.00 €
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	170.00 €
Spring clip, Standard		
 <p>Proven steel design, pack contents: 20 pieces</p>	0 015 201	15.10 €


Handpieces

joke Premium Plus




			Type	Order No.	Price from 1 piece
Handpiece joke Premium Plus					
	Rotational speed:	max. 22,000 1/min	Standard	0 030 200	214.00 €
	Collet:	GH (Ø 3 mm in scope of delivery)	Rapid-Change	0 030 200R	234.00 €
	Dimensions:	Ø 25 x 138 mm			
	Weight:	160 g			
	Scope of delivery:	including tool set			

Accessories / spare parts

			Price from	
	Dimensions	Order No.	1 piece	3 pieces
Collets, type GH				
	Ø 2.35 mm - 3/32"	0 030 010	8.10 €	
	Ø 3 mm	0 030 013	8.10 €	
	Ø 6 mm	0 030 016	8.10 €	
Driver				
		0 030 205	33.75 €	29.75 €
Connector plug				
		0 015 285	38.05 €	34.65 €


			Type	Order No.	Price from 1 piece
Angle-Handpiece 90° joke Premium Plus					
	Rotational speed:	max. 18,000 1/min, clockwise rotation	Standard	0 030 250	348.00 €
	Collet:	WH (Ø 3 mm in scope of delivery)	Rapid-Change	0 030 250R	367.00 €
	Dimensions:	Ø 26 x 165 mm (head Ø 17 x 27 mm)			
	Weight:	170 g			
	Scope of delivery:	including tool set			

Accessories / spare parts




			Price from	
	Dimensions	Order No.	1 piece	3 pieces
Collets, type WH				
	Ø 2.35 mm - 3/32"	0 031 301	10.90 €	
	Ø 3 mm	0 031 302	10.90 €	
Driver				
		0 030 205	33.75 €	29.75 €
Connector plug				
		0 015 285	38.05 €	34.65 €


Handpieces

joke Classic-Line




		Type	Order No.	Price from
				1 piece
 Handpiece THSZ/N	Collet:	GH (Ø 3 mm in scope of delivery)	Standard	0 030 004 196.00 €
	Speed:	max. 18,000 1/min	Rapid-Change	0 030 004R 216.00 €
	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
Collets, type GH					
		Ø 2.35 mm - 3/32"	0 030 010	8.10 €	
		Ø 3 mm	0 030 013	8.10 €	
		Ø 6 mm	0 030 016	8.10 €	
Driver					
			0 015 262	9.75 €	8.75 €
Connector plug					
			0 015 261-1	33.05 €	30.25 €


		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	421.00 €
	Collet:	WH (Ø 2.35 and Ø 3 mm in scope of delivery)	Rapid-Change	0 031 341R 451.00 €
	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
Collets, type WH					
		Ø 2.35 mm - 3/32"	0 031 301	10.90 €	
		Ø 3 mm	0 031 302	10.90 €	
Driver					
			0 015 264	10.15 €	9.15 €
Connector plug					
			0 015 263	31.70 €	29.15 €

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	422.00 €
	Speed:	max. 18,000 1/min		Rapid-Change	0 031 540R	455.00 €
	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
Collets, type GH					
		Ø 2.35 mm - 3/32"	0 030 010	8.10 €	
		Ø 3 mm	0 030 013	8.10 €	
		Ø 6 mm	0 030 016	8.10 €	
Driver					
			0 031 563	22.10 €	19.05 €
Connector plug					
			0 015 265	32.80 €	30.05 €



Rapid-chuck handpiece

TH-M II

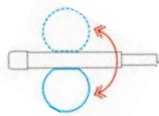
This Rapid-chuck handpiece was designed for lighter jobs involving frequent tool changes. The selected tools are clamped in using the clamping lever fitted on the top.

		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	143.30 €
	Speed:	max. 15,000 1/min		Rapid-Change	0 030 640R	173.00 €
	Dimensions:	Ø 21.9 x 139 mm				
Weight:	107 g					

Accessories / spare parts


		Dimensions	Order No.	Price from	
				1 piece	3 pieces
Collets, type TH					
		Ø 2.35 mm	0 030 641	25.10 €	
		Ø 3 mm	0 030 642	25.10 €	
Driver					
			0 030 666	4.52 €	3.78 €
Connector plug					
			0 015 273	32.95 €	30.15 €

Hemisphere handpiece NHG-L






Easy change between right and left-handed use!

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.


		Type	Order No.	Price from 1 piece
Hemisphere handpiece NHG-L				
	Telescopically extendable angle head (70 mm), with 125° head adjustment, anticlockwise rotation	Standard	0 031 400	520.00 €
	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	Rapid-Change	0 031 400R	537.00 €

Accessories / spare parts

		Dimensions	Order No.	Price from	
				1 piece	3 pieces
Collets, type WH					
		Ø 2.35 mm - 3/32"	0 031 301	10.90 €	
		Ø 3 mm	0 031 302	10.90 €	
Driver					
			0 015 256	9.45 €	8.65 €
Connector plug					
			0 015 255	35.80 €	32.80 €

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 930.00 €
	No. of strokes:	max. 8,000 strokes/min (5,000 - 6,000 strokes/min recommended)	Rapid-Change	0 005 151R-N 976.00 €
	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	33.35 €	30.55 €
Connector plug		0 015 251	46.05 €	42.25 €





		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 1591.00 €
	No. of strokes:	max. 7,000 strokes/min, (5,000 - 6,000 strokes/min recommended)	Rapid-Change	0 001 503R-N 1612.00 €
	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		

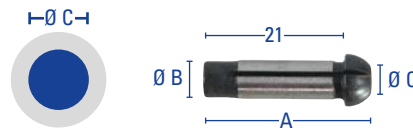
Accessories / spare parts

		Order No.	Price from	
			1 piece	3 pieces
Driver		0 015 252	33.35 €	30.55 €
Connector plug		0 015 251	46.05 €	42.25 €



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	16.50 €	15.05 €
Reducing bush with collar					
	25 mm	B Ø 3.0 C Ø 1.6 mm	0 010 583	18.30 €	15.20 €
		B Ø 3.0 C Ø 2.35 mm	0 010 588	18.30 €	15.20 €
		B Ø 6.0 C Ø 3.0 mm	0 545 288	7.95 €	7.35 €



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	41.75 € 38.75 €



**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 0019 155
KAK 16/9
Order No. 0 0019 160
KAK 25/9
Order No. 0 0019 165
KAK 9/9
Order No. 0 0019 170
KAK 25/1,5
Order No. 0 0019 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

**Flexible shaft
DIN 10/G22**



**Shaft connection
G22**

**Motor connection
DIN 10**



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:	500 and 13,000 1/min (adjustable in 100 rpm steps)	0 019 020 3630.00 €
	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): Weight:	472 x 340 x 352 mm 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	0 019 021 592.00 €
	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	239.00 €
	G 22	DIN 10	Ø 7 x 1,500 mm	0 019 200	266.00 €



⚙️ 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	66.95 €
	Flexible shaft core NA 7 / G 22 for jokeFlex Power		
	Ø 7 x 1,500 mm	0 019 201	69.00 €

jokeFlex Power Handpieces



				Order No.	Price from 1 piece
Straight handpiece FH 4 INOX					
	Shaft connection:	G 16		0 019 120	214.00 €
	Speed:	max. 40,000 rpm			
	Dimensions:	Ø 20 x 107 mm			
	Weight:	135 g			
	Accessories:	Collet 6 mm, chuck key set			

Accessories / spare parts


			Order No.	Price from 1 piece
Dimensions	Type			
Collet for handpiece FH 4				
	Ø 3 mm	FH	0 019 111	24.45 €
		Ø 6 mm	FH	0 019 112

				Order No.	Price from 1 piece
Straight handpiece FH 7 INOX					
	Shaft connection:	G 22		0 019 420	214.00 €
	Speed:	max. 25,000 rpm			
	Dimensions:	Ø 27 x 128 mm			
	Weight:	315 g			
	Accessories:	Collet 6 mm, chuck key set			


Accessories / spare parts


			Order No.	Price from 1 piece
Dimensions	Type			
Collets for handpieces FH 7, FH 10				
	Ø 3 mm	FH	0 019 211	28.35 €
		Ø 6 mm	FH	0 019 212
Ø 8 mm		FH	0 019 213	28.35 €

jokeFlex Power Handpieces

			Order No.	Price from 1 piece
Angle handpiece WI 4				
	Shaft connection:	G 16	0 019 130	477.00 €
	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

			Order No.	Price from 1 piece
Collet for angle handpiece WI 4				
	Dimensions	Type	Order No.	Price from
	Ø 3 mm	WI	0 019 131	28.35 €
	Ø 6 mm	WI	0 019 132	28.35 €

			Order No.	Price from 1 piece
Angle handpiece WI 7				
	Shaft connection:	G 22	0 019 230	481.00 €
	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

			Order No.	Price from 1 piece
Collets for angle handpieces WI 7, WI 10				
	Dimensions	Order No.	Price from	
	Ø 3 mm	0 750 831	25.35 €	
	Ø 6 mm	0 750 832	25.35 €	

Pneumatics System overview



Pneumatics System overview



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

i 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.



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



**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.


	Order No.	Price from
		1 piece
Maintenance unit joke Dryjet		
	Filter controller MD1-FR0000-1/4: 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 mounting	0 004 080 122.00 €

Accessories / spare parts





	Order No.	Price from
		1 piece
Ball stop valve 1/4"		
	1x internal and 1x external thread 1/4"	0 004 053 6.60 €
Double nipple 1/4"		
	Fits on connector for Turbolap handpieces, supplied with two O-rings	1 722 246 3.26 €

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	205.00 €
	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		
Oiler MD1-L00-1/4:			
Max. Inlet pressure:	16 bar		
Container capacity:	40 cm ³		
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-filling machine with (3 m hose) rapid coupling HSI-M (including lubricant MFA-K in a 0.5 l container).	0 004 051	58.30 €
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	40.80 €
Ball stop valve 1/4"			
	1x internal and 1x external thread 1/4"	0 004 053	6.60 €
Double nipple 1/4"			
	Fits on connector for Turbolap handpieces, supplied with two O-rings	1 722 246	3.26 €

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 5.15 €
		1 litre	0 580 602 17.65 €
		5 litre	0 580 603 68.80 €
Lubricant MFA-K			
	for all DIPROFIL® hand-filing machines	0.5 litre	0 004 002 35.35 €



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 ENESKA P 320-2

High-speed handpiece ENESKA P 320-2

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.



Use with:
 joke Dryjet
 (page 76)


	Order No.	Price from
Set ENESKA P 320-2		1 piece
 <p>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)</p> <p>Dimensions (W x H x D): 115 x 160 x 100 mm (Maintenance unit) Ø 16 x 130 mm (handpiece)</p> <p>Weight handpieces: 71 g</p> <p>Speed: max. 320,000 1/min</p> <p>Power: approx. 10 W</p> <p>Air pressure: 2.5 bar</p> <p>Air consumption: 40 l/min</p> <p>Noise level: 75 dB(A) at 320,000 1/min</p>	0 009 900-0	942.00 €

Accessories / spare parts

	Order No.	Price from
Collet Ø 1.6 mm		1 piece
	0 009 909	45.00 €
Head, complete (spare)		
	0 009 902	181.00 €

Hand-grinders joke TURBO

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.





- the installation pack (Order no. 0 004 055) contains everything for connecting the "TURBO's"
- suitable collets (type CHS) to be found on page 50!
- suitable tools with clamping shank on page 284!
- 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	max. 60,000 1/min	max. 40,000 1/min	max. 23,000 1/min	max. 23,000 1/min
Power	70 W	70 W	70 W	70 W
Air pressure	4 - 6 bar	4 - 6 bar	4 - 6 bar	4 - 6 bar
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)	90 - 95 dB(A)	90 - 95 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	508.00 €	600.00 €	636.00 €	636.00 €

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.


		Order No.	Price from 1 piece
		0 750 705	294.00 €
Use with:  joke Oiljet (page 77)	Speed: max. 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		

Compressed-air grinder ENESKAair G1000

The latest generation compressed-air 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



		Order No.	Price from 1 piece
		0 751 100	626.00 €
ENESKAair G1000			
	Speed: max. 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		

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.



	joke AirMAX 20	joke AirMAX 35	joke AirMAX 90/20
Rotation speed	max. 20,000 1/min	max. 35,000 1/min	max. 20,000 1/min
Power	270 W	220 W	220 W
Air pressure	6 bar	6 bar	6 bar
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	437.00 €	437.00 €	578.00 €

Accessories / spare parts


	Dimensions	Order No.	Price from 1 piece
Supply air tube, for all models			
		0 750 813	37.95 €
Important: also remember the matching air supply hose when ordering!			
Collets for angle handpieces WI 7, WI 10			
	Ø 3 mm	0 750 831	25.35 €
	Ø 6 mm	0 750 832	25.35 €

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 bar	4 bar
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/s ²	5.79 - 13.37 m/s ²
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	2,227.00 €	1,571.00 €

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	0 003 001 112.20 €
	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!	

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.



	Order No.	Price from 1 piece
Set Compressed-air filing machine LFC 11 with case		
		
No. of strokes:	6,000 - 12,000 strokes/min	0 750 960 1480.00 €
Stroke length:	2 - 11 mm, continuously adjustable	
Output:	300 W	
Air pressure:	6.3 bar	
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

	Order No.	Price from 1 piece
Tool holder Ø 3 mm		
	0 750 751	61.95 €
Tool holder Ø 4 mm		
	0 750 752	61.95 €
Tool holder Ø 6 mm		
	0 750 753	61.95 €

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	7,000
Tool support	max. 6 mm	max. 4 mm
Air pressure	6,5 bar	6,5 bar
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	475.00 €	407.00 €

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.



		Order No.	Price from 1 piece
Compressed-air engraving pen LGS 30, incl. engraving needle			
	No. of strokes:	30,000 strokes/min	0 750 790
	Air pressure:	6 bar	225.00 €
	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

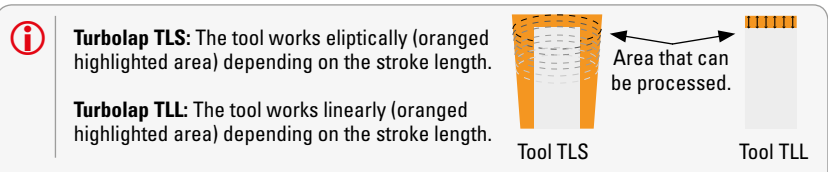
		Order No.	Price from 1 piece
Engraving needle			
	fine tipped	GN F	0 750 791
	medium tipped	GN M	0 750 792
	coarse tipped	GN G	0 750 793
Engraving chisel			
	flat	GM F	0 751 930
	angled	GM S	0 751 931
Air hose, supply air, 2 m			
		0 750 795	30.15 €

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).



	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 bar / max. 6 bar	1-2 bar / max. 6 bar	3 bar / max. 6 bar	1,5-2,5 bar / max. 6 bar	2-3 bar / max. 6 bar	6 bar
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 air hose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply air hose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply air hose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply air hose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply air hose 1.5 m, exhaust air tube, 1/4" connecting sleeve incl. filter	tool holder, chuck key, supply air hose 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	385.00 €	385.00 €	382.00 €	385.00 €	385.00 €	385.00 €

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 Younes Burger:
Tel. +49 (0) 22 04 / 8 39-0 e-mail: y.burger@joke.de



	Polishing machine OPTI polish GU 20 P	Polishing machine OPTI polish GU 25 P
Polishing disc size Ø	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	2,850 1/min	2,850 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	10.6 kg	17.4 kg
Scope of delivery	1 x polishing disc soft Ø 200 x20 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 x25 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	260.00 €	366.00 €

Accessories / spare parts

	Order No.	Price from 1 piece
Machine substructure for polishing machines OPTI polish		
 <p>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.</p>	0 041 621-1	164.95 €

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 172.

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.



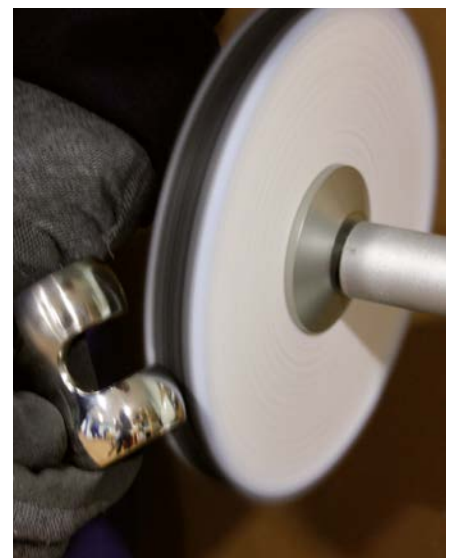
Further information on page 173.

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 174.

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



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

Safety cover
incl. safety switch and
electromagnetic brake
Order No. 0 200 485

Electromagnetic brake
Order No. 0 200 465

Special lacquering
Order No. 0 200 459

**Matching plastic
safety shield**
(view page 91)

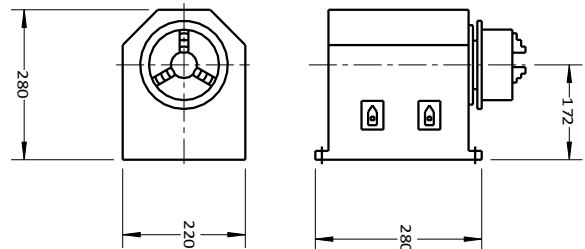
Three-jaw chuck
(view page 91)

**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

Polishing lathe PB 2
with speed control (50 – 1.300 1/min)
Order No. 0 200 451-0



Polishing lathe PB 2


Polishing lathe PB 2
Polishing lathe PB 2

Tool support	Ø 37 mm	Ø 37 mm
Rotation speed	50 - 1,300 rpm, infinitely adjustable	450 / 700 / 1,400 rpm, fixed speed settings
Power	max. 0.2 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	38 kg	38 kg
Order No.	0 200 451-0	0 200 452
Price	5,993.00 €	3,171.00 €

Accessories / spare parts

	Order No.	Price from 1 piece
Machine substructure with drawer		
Dimensions (W x D x H):	390 x 540 x 800 mm	0 200 458 540.00 €
Special lacquering		
		0 200 459 169.00 €
Foot switch type 1		
	Function: press = start • hold = work • release = stop	0 200 460 349.00 €
Electromagnetic brake		
		0 200 465 1172.00 €
matching three-jaw chuck incl. chuck flange		
	Chuck Ø 125 mm • max. perm. rpm 3,200 rpm	0 200 473 527.00 €
	Chuck Ø 160 mm • max. perm. rpm 3,000 rpm	0 200 474 584.00 €
Plastic protective disc for three-jaw chuck		
	suitable for Ø 125 mm	0 200 481 203.00 €
	suitable for Ø 160 mm	0 200 482 251.00 €
Safety cover		
	including safety switch and electromagnetic brake	0 200 485 2441.00 €

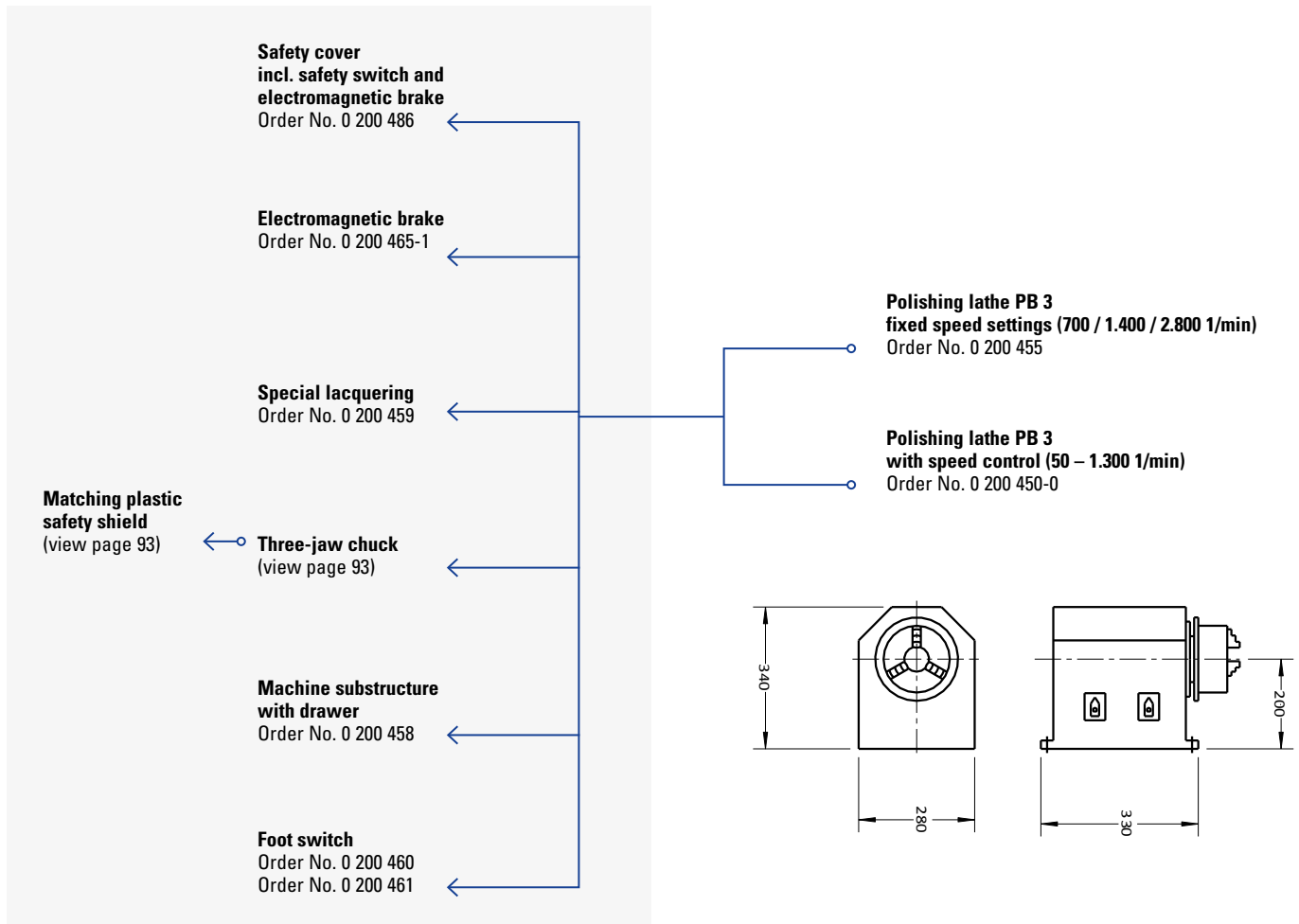
Polishing lathe PB 3

System overview

Just bigger and stronger than his little brother PB 2!



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



Polishing lathe PB 3


Polishing lathe PB 3
Polishing lathe PB 3

Tool support	Ø 37 mm	Ø 37 mm
Rotation speed	50 - 1,300 rpm, infinitely adjustable	700 / 1,400 / 2,800 rpm., fixed speed settings
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	85 kg	85 kg
Order No.	0 200 450-0	0 200 455
Price	5,639.83 €	4,342.00 €

Accessories / spare parts

	Order No.	Price from 1 piece
Machine substructure with drawer		
Dimensions (W x D x H):	390 x 540 x 800 mm	0 200 458 540.00 €
Special lacquering		
		0 200 459 169.00 €
Foot switch type 1		
	Function: press = start • hold = work • release = stop	0 200 460 349.00 €
Electromagnetic brake		
		0 200 465-1 1172.00 €
matching three-jaw chuck incl. chuck flange		
	Chuck Ø 125 mm • max. perm. rpm 3,200 rpm	0 200 473 527.00 €
	Chuck Ø 160 mm • max. perm. rpm 3,000 rpm	0 200 474 584.00 €
	Chuck Ø 250 mm • max. perm. rpm 2,000 rpm	0 200 477 883.00 €
Plastic protective disc for three-jaw chuck		
	suitable for Ø 125 mm	0 200 481 203.00 €
	suitable for Ø 160 mm	0 200 482 251.00 €
	suitable for Ø 250 mm	0 200 483 463.00 €
Safety cover		
	including safety switch and electromagnetic brake	0 200 486 2311.00 €

1

2

3

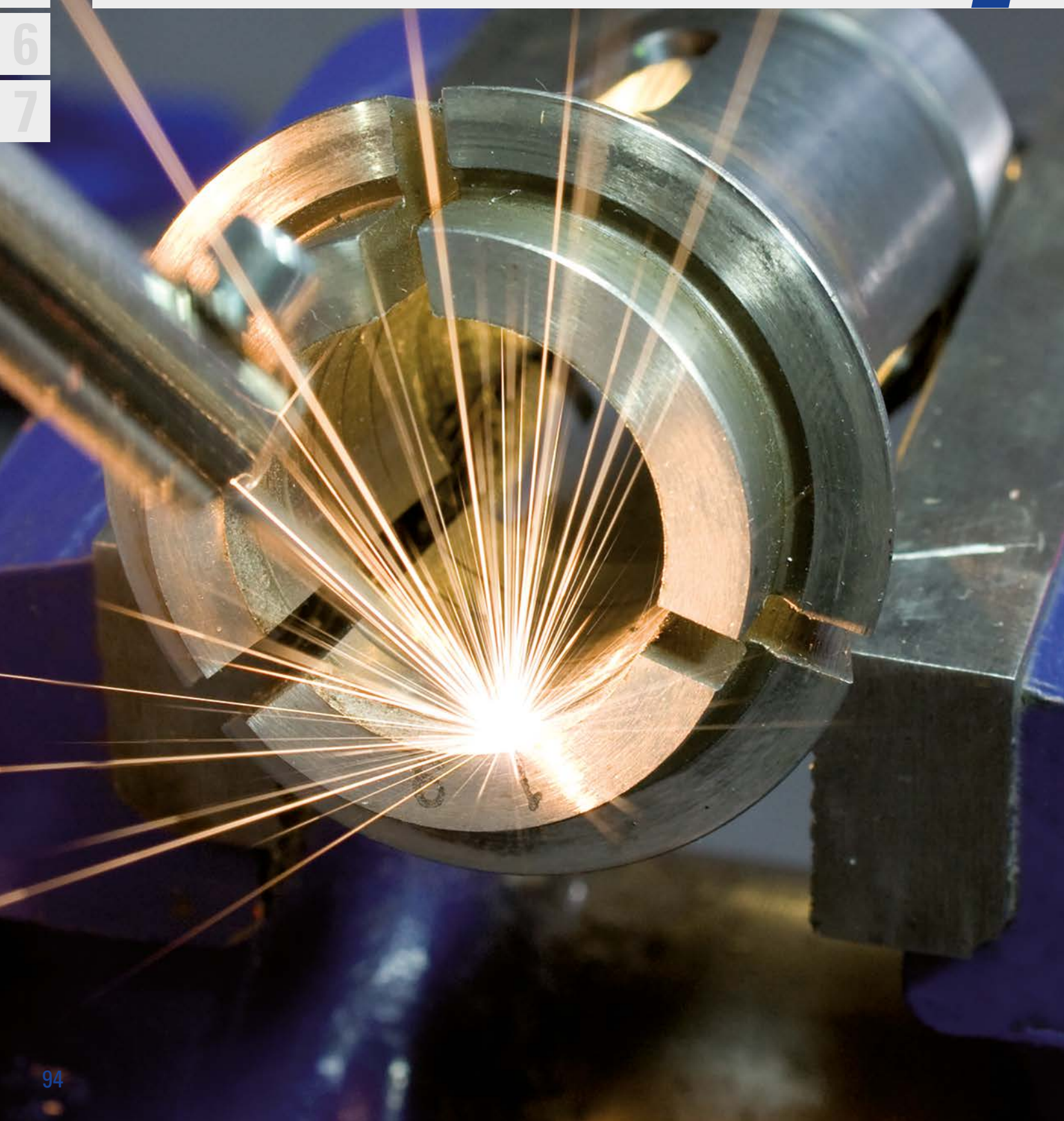
4

5

6

7

Tungsten carbide coating unit



Tungsten carbide coating unit

tucadur® 2020

Methods

Nowadays, very high demands are made on the toughness, hardness and surface wear resistance of tools, equipment and machines. Either hardness or toughness can be determined by the normal hardening process; in practice therefore a middle course is selected. 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

1. Hardness coating of tools or wear parts to extend service life.
2. Adhesion: coating of smooth surfaces in order to achieve greater adhesion through the structure of the layer.
3. Lubricating film: coating of smooth surfaces in order to maintain a lubricating film, as the lubricant remains embedded in the structure and therefore is not immediately squeezed out again.
4. Cold welding: coating of sliding surfaces in order to avoid cold weldings as a result of the structure of the layer, i.e. sticking of material.

Materials and their pretreatment

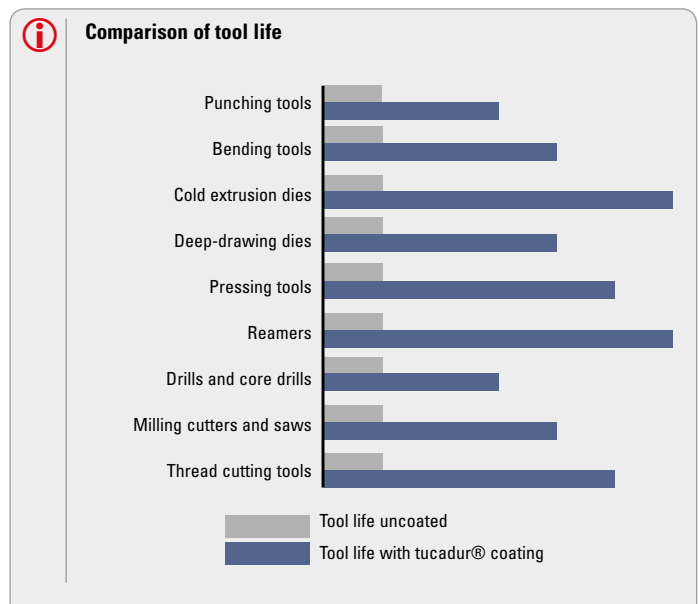
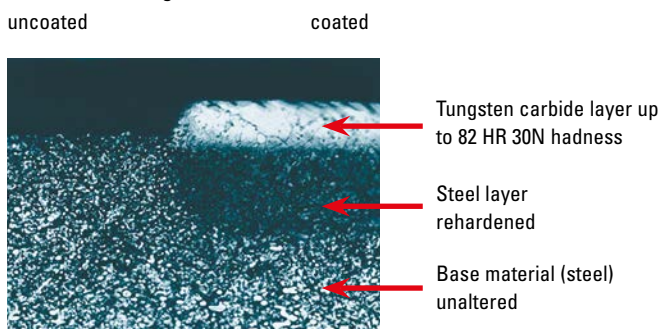
Any soft, heat-treated and hardened unalloyed or alloyed steel is suitable as material for coating with tungsten carbide. The surface must be clean and metallurgically pure. Scale and oxide layers must be removed without fail. Ground, polished or brightly machined parts must be degreased. If the tungsten carbide coating is applied to an unclean surface, no satisfactory adhesive strength can be obtained and the coating becomes irregular and exhibits inclusions.

Principle of operation

The coating device functions in accordance with the principle of electro-erosion. A tungsten carbide electrode is attached to the positive pole in a d.c. circuit with electric current and voltage regulation to which condensers of varying capacities are connected. The vibrator (coating gun) causes oscillations in the electrode and this is brought into contact with the workpiece to be treated. The workpiece is connected to the negative pole. By contact of the electrode with the workpiece, an ionised field results, which ensures that oxide-free fusion of the tungsten carbide with the base material occurs. This field is constantly reconstituted with the aid of the vibrator. With uniform to-and-fro movement of the electrode a compact hard metal layer results. The predetermined layer thickness cannot be exceeded, since no more uptake of material occurs once saturation is reached. The selected layer thickness is so precise that it does not normally need any finishing operation. It can nevertheless be lapped and polished if necessary. Coating using the tucadur® 2020 is so easy that anyone can do it.



Micro-section magnified 250 times



Tungsten carbide coating unit

tucadur® 2020

Price from
1 piece

Order No.

Tungsten carbide coating unit tucadur® 2020



Control unit
Max. hardness of coating: 82 HR 30N
Layer thickness adjustable: from 2-40 micron
Vibration level: adjustable
Power supply: 230 V, 50 Hz
Dimensions (W x T x H): 210 x 320 x 220 mm
Weight: 11 kg

0 700 000

5235.00 €

Coating gun
Vibration frequency: 100 Hz
Illumination: built-in

Scope of supply:

Control unit, coating gun, mains cable, foot switch, contact magnet, 1 set (24 pieces) of tungsten carbide electrodes, hexagon head screwdriver

Accessories / spare parts

Price from
1 piece

Order No.

Coating gun






0 700 213


556.00 €

Tungsten carbide coating unit

tucadur® 2020

Shape	Dimensions	Order No.	Price from	
			1 piece	10 pieces
Tungsten carbide electrodes, for tucadur® 2020				
 round	Ø 1.0 x 50 mm	0 700 036	9.95 €	7.60 €
	Ø 1.3 x 50 mm	0 700 046	8.35 €	6.50 €
	Ø 1.8 x 50 mm	0 700 047	9.25 €	7.20 €
	Ø 2.3 x 50 mm	0 700 048	10.50 €	7.90 €
 square	1.1 x 50 mm	0 700 039	8.65 €	6.70 €
	1.6 x 50 mm	0 700 040	10.15 €	7.60 €
	2.1 x 50 mm	0 700 041	12.75 €	9.85 €
 triangulare	1.95 x 50 mm	0 700 042-0	10.50 €	7.80 €

 *matching set*

	Order No.	Price from		
		1 set	10 set	
Set of tungsten carbide electrodes (24 pieces)				
	3 tungsten carbide electrodes respectively in each shape and size	0 700 034	204.00 €	157.00 €