

jolke

ENESKApost pro

jolke

ENESKApostpro

The safety postprocessing system
for all materials and work steps

100%
made in Germany



Everything about postprocessing.

Dear Ladies and Gentlemen,

„Additive manufacturing“ processes have become indispensable in today's world, and are gaining ever more importance.

For many people, the difficulties do really start after the 3D printing, and certainly when it comes to the postprocessing. At this stage, the user faces a large number of tasks, for which he usually requires a wide range of tools or systems. Typical of the work involved are removing powder, separating the substrate plate, removing supports, deburring, surface finishing and cleaning.

One particularly crucial challenge throughout the entire postprocessing is protecting the user, as residual powder is set free during the postprocessing, and dusts, chips and/or sparks may also be created. With some materials, the risks are enormous, as they are not only harmful to health but may also be explosive. With the ENESKApostpro, joke set itself the task of developing a single workstation, with which the user can perform all the manual postprocessing stages with full protection against risks.

The workstation can be complemented by a large number of tools and accessories, so that the right tool is always available, and the station can be fully adapted to individual needs and wants.

We would be glad to demonstrate the system on your premises, so that you have the time to convince yourself of the advantages of ENESKApostpro. Please contact us.

A handwritten signature in blue ink, appearing to read "Udo Fielenbach".

Udo Fielenbach
Managing director, joke Technology GmbH

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ENESKApostpro



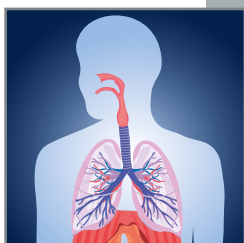
Improved safety standard for postprocessing

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

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

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

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



Safe working instead of silicosis

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No more risks of explosion

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

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



Convincing versatility

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

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

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



Ergonomics, user friendliness - and thinking of the user!

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

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

ENESKApostpro

Advantages at a glance

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

Work steps that you can perform

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

Materials that you can process

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



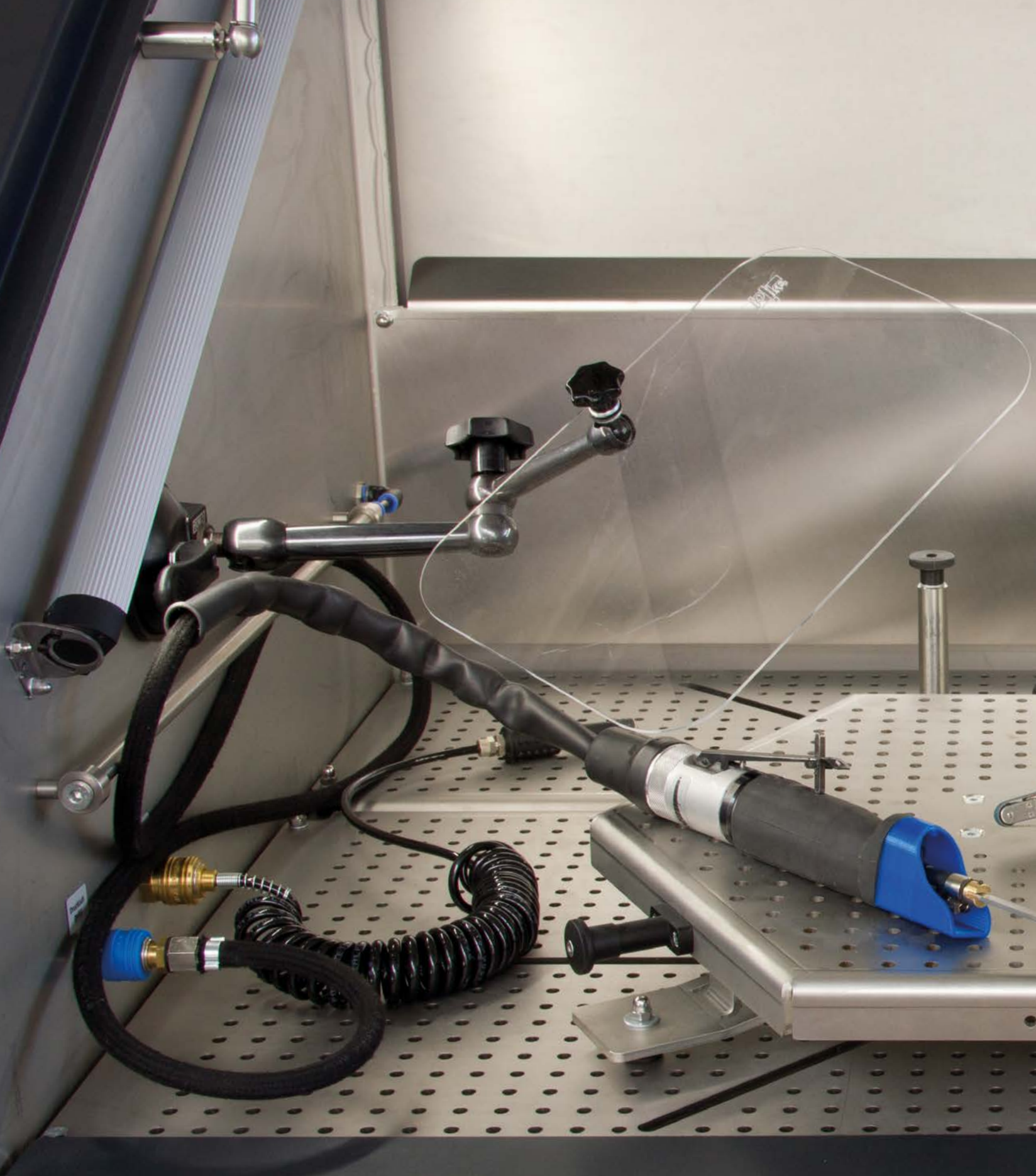
Belt grinder



Hand-filing machine



Compressed-air filing machine



ENESKA

ENESKApostpro

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ENESKApostpro


Perfect solution for finishing in 3D printing

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

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

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

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

	Order No.	Price from 1 piece
ENESKApostpro incl. extraction with wet separator for reactive materials		
 <ul style="list-style-type: none"> • suitable for materials with a minimum ignition energy above one mJ • with explosion protection according to ATEX standard • moisture separator suitable for zone 22 • 5-fold filtration • extraction capacity / volumetric flow: max. 350 m³/h • incl. FSX automatic fine dust measuring system (for further information, see Order no. 0 210 306) • optionally with height adjustment • materials to be processed: incl. among others aluminium and titanium 	0 210 010	59800.00 €

Technical data

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


ENESKApostpro

Perfect solution for finishing in 3D printing


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

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

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

	Order No.	Price from 1 piece
ENESKApostpro incl. extraction for non-reactive materials		
	Special features of the ENESKApostpro incl. extraction for non-reactive materials: <ul style="list-style-type: none"> • dry extractor with explosion protection according to ATEX standard • triple filtration • extraction capacity / volumetric flow: max. 350 m³/h • optionally with FSX automatic fine dust measuring system (more Information see Order No. 0 210 306) • optionally with height adjustment • materials to be processed: incl. among others, steel, stainless steel, Inconel and various plastics 	0 210 000 47800.00 €

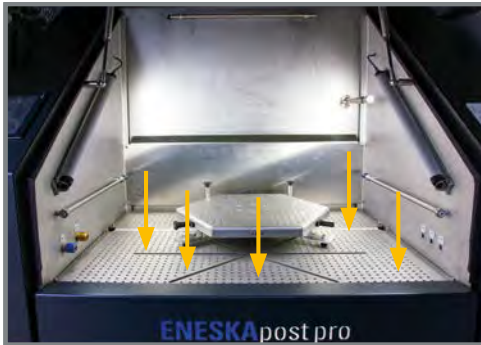
Accessories / spare parts

	Order No.	Price from 1 piece
ENESKApostpro automatic fine dust measurement FSX		
	The FSX automatic fine dust measuring system from joke is to be included in the order for your ENESKApostpro! The FSX cannot be retrofitted! <ul style="list-style-type: none"> • Precise dust measurement – independent of gas velocity or particle charge • No external purge air unit required as it is integrated in the unit (option) • Low cost and maintenance due to self-monitoring • Independent measuring device • Automatic monitoring of zero and reference point • Robust and compact design • No moving parts in the duct 	0 210 306 7900.00 €

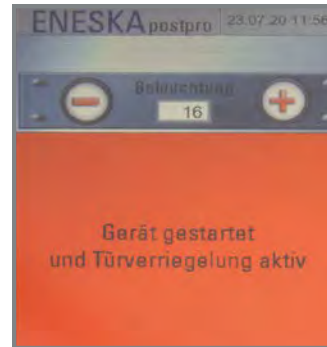
Variants

ENESKApostpro for reactive substances (Order No. 0 210 010)	ENESKApostpro for non-reactive substances (Order No. 0 210 000)
Extraction system suitable for continuous operation, for extracting flammable dusts – MIE ≥ 1 mJ	Extraction system suitable for continuous operation, for extracting dusts – MIE ≥ 1 mJ
5-fold filtration, including moisture separator , suitable for zone 22 ATEX II 3D c T 125 ° C5-fold filtration, removal efficiency: 99.995%	3-fold filtration , removal efficiency: 99.95%
Exchangeable, stainless steel collection tank with drain cock, inert oil (approx. 30 L) , tank capacity 100 litres	Exchangeable, stainless steel collection tank, tank capacity 100 litres
M star-shaped filter, antistatic with manual cleaning	M star-shaped filter, antistatic with manual cleaning
H14 filter cassette, antistatic	H14 filter cassette, antistatic
Wet filter cassette, earthed	–
Filter bag MC K4 microfibre, antistatic	–

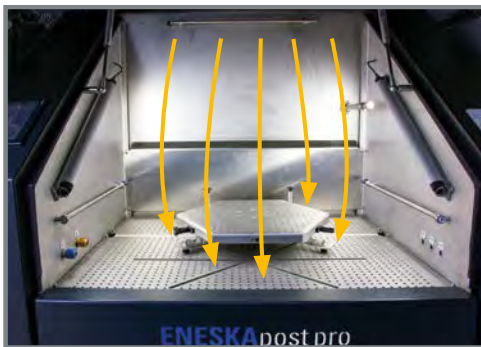
Extraction and cleaning process function



Extraction is through the floor of the working chamber.



It is only possible to work in the ENESKApostpro with the extraction system running. The system is locked during processing.



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

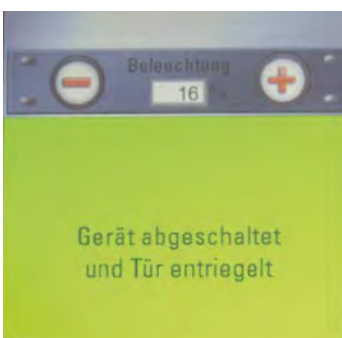


After the processing, the system cannot be opened until a special automatic cleaning process has finished. This stirs up and extracts the residual dust from the corners of the chamber.



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

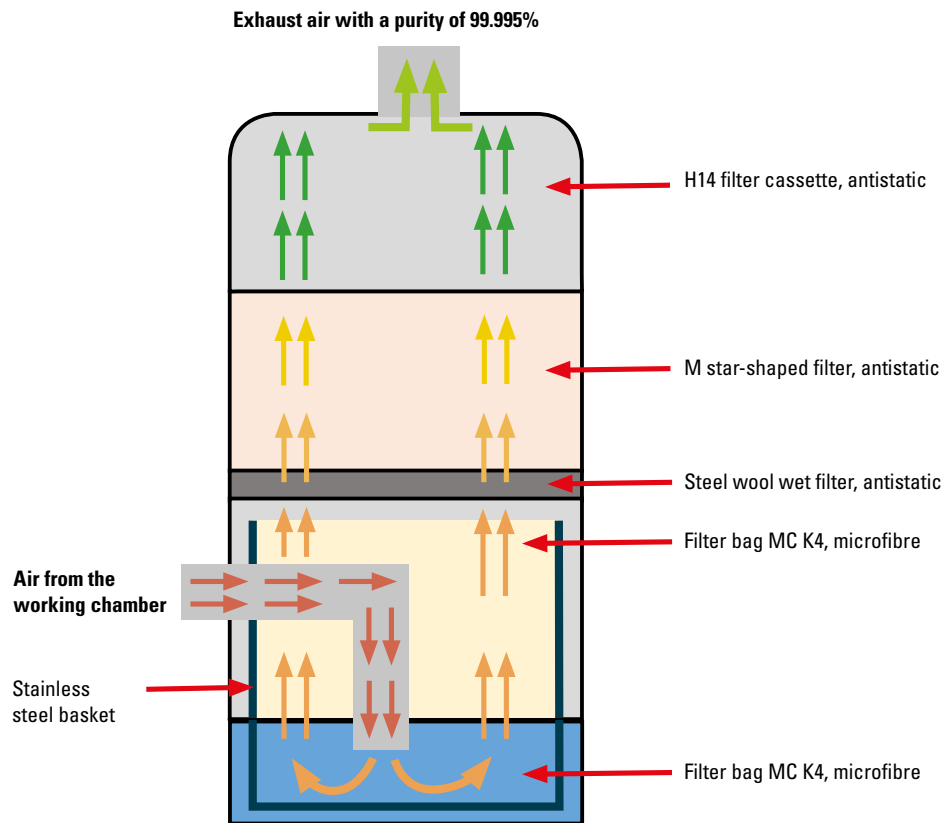
In combination with this FSX, the previously described cleaning process can be adjusted so that the system does not unlock before a defined value is reached.



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

Filter system

Diagram of the system for reactive substances



View of extraction system



Extraction system is easily accessible from the rear




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




+ Electrical tools


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 	incl. motor cable 1.8 m and fan	0 011 409 875.00 €
	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		

COMPACT HT60 SMALL

	Design	Order No.	Price from 1 piece
ENESKAmicro COMPACT HT60 SMALL			
	<ul style="list-style-type: none"> • with collet Ø 3 mm • Brushless DC motor BLDC • On-off switch located on the micromotor 	incl. motor cable 1.8 m and fan	0 011 469 778.00 €
	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		



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 	incl. motor cable 1.8 m and fan	0 011 429 797.00 €
	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		




+ Electrical tools

ENESKAmicro micromotors with (+) connection Micromotor JBM 50 HT

	Design	Order No.	Price from 1 piece
Micromotor JBM 50 HT			
	Brushless direct current motor BLDC for operation of handpieces with (+) connection	without motor cable 0 008 806	788.00 €
	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
Motor cable JBM 50 HT/EM, 1.5 m			
	for connecting the micromotors JBM 50 HT to the ENESKAmicro control units	0 011 504	146.85 €

ENESKAmicro Belt grinder 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 400 with (+)-connection			
	For connection to micromotors with (+)-connection, for grinding belts 4, 6 and 8 mm wide	0 008 850	700.00 €
	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 and 400.		





+ Electrical tools

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	0 009 812 536.00 €

Angle handpiece JEKC 300

		Order No.	Price from 1 piece
Angle handpiece JEKC 300			
		Collet: CHC (Ø 3 mm included) 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	0 009 813 447.00 €




+ Compressed-air tools

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
Compressed-air filing machine LFC 11			
	No. of strokes: 6,000 – 12,000 strokes/min Stroke length: 2 – 11 mm, continuously adjustable Output: 300 W Air pressure: 6.3 bar Air consumption: 230 l/min Noise level: 74 dB(A), ISO 15744 Vibration: 2.2 m/s ² , K = 0.8 m/s ² according to EN ISO 28927-8 Dimensions: 280 x 60 mm Weight: 830 g Lubrication: continuously by oil mist Scope of supply: 1 x tool holder Ø 4 mm, 1 x counter-holder, 1 x hose unit (supply and exhaust air, silencer)	0 750 980	1406.00 €



+ Compressed-air tools

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.



Compressed-air grinder joke AirMAX 35


Rotation speed	35,000 1/min
Power	220 W
Air pressure	6 bar
Air consumption	520 l/min
Exhaust air	forwards
Noise level	78 dB(A)
Vibration	< 6 m/s ²
Dimensions	Ø 31 x 143 mm
Weight	290 g
Lubrication	continuously by oil mist
Scope of delivery	collet Ø 6 mm, clamping wrench, rotary and lever valve
Order No.	0 750 840
Price	445.00 €

Compressed air belt MBS 20 DH

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

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

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

	Order No.	Price from 1 piece
Compressed air belt joke MBS 20 DH		
	Tapes: 6 – 12 x 305 mm (depending on the belt grinder attachment) Belt speed: 21 m/s Max. air pressure: 6 bar Air consumption: 590 l/min Exhaust air: to the front Operation: rotary, lever valve Weight: 900 g Connection: 8 mm hose nozzle Required lubrication: continuously 1–2 drops / min oil mist	0 750 871 906.00 €




+ Accessories

Magnetic clamping balls joke Magic-Ball

Magnetic clamping balls joke Magic-Ball

Comfortable and ergonomic 3-dimensional work. Ideal for polishing and welding workplaces. The Magic-Ball magnetic clamping balls bring your workpiece into almost any desired position. Depending on the workpiece geometry and weight, pivoting angles of up to 90° can be set. The balls are enclosed in leather-lined, chemically nickel-plated steel rings that hold them absolutely securely in any position – the sliding adhesion effect makes it possible! The powerful magnetic chuck of the Magic-Ball is activated using the key supplied (partial activation is also possible for optimum positioning of the workpiece). The balls available in four sizes are all of “Made in Germany” quality.


	Weight	Size	Dimensions	Clamping force	Pole pitch	Order No.	Price from 1 piece
Magnetic clamping balls joke Magic-Ball							
	ball: 17 kg ring: 5 kg	Ø 160 mm	magnet (Ø): 160 mm ball (Ø x H): 218 x 164 mm	100 N/cm ²	1.5 + 0.5 mm	0 200 326	1409.00 €

Positioner joke easy-Work for attachment to table

Positioner joke easy-Work

Compact and very flexible to use: the small rotating and pivoting unit unit joke easy-Work can be attached quickly and securely to almost any table by means of the drillings, such as the large joke Ergo-Work worktable.

The optionally available T-slot clamping plates ensure make fixing the workpieces child's play. These plates are made from aluminium and are optionally available in square or round shape.

		Order No.	Price from 1 piece
joke easy-Work positioner with T-slot clamping plate, round			
	Rotation range:	360° manual	0 200 873 954.00 €
	Pivoting range:	0 – 90° manual	
	Dimensions (W x H x D):	250 x 130 x 250 mm	
	Weight:	approx. 8 kg	
	Clamping system:	T-slot clamping plate, Ø 248 mm	



+ Accessories

Precision grinding and control vices

Ground on all sides for 4-side processing, hardened steel, with prism jaws, draw-down clamping system, accuracy 0.005 mm.

	Jaw widths	Clamping length	Jaw height	Dimensions	Order No.	Price from 1 piece
Precision grinding and control vice	63 mm	87 mm	32 mm	63 x 175 mm	0 200 343	98.24 €

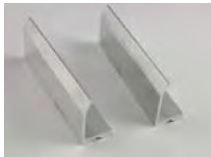


		Order No.	Price from 1 piece
Vice 125 mm	<ul style="list-style-type: none"> • Max. 125 mm stretchable • jaw width: 125 mm • L x W x H: 250 x 350 x 130 mm 	0 200 061	165.00 €



Accessories / spare parts

	Order No.	Price from 1 piece
Aluminium protective and tubular jaws 125 mm	0 200 062	16.10 €




Plastic protective and tubular jaws 125 mm with magnetic adhesion	0 200 063	18.05 €
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+ Accessories

Precision grinding and control vices Accessories

	Order No.	Price from 1 set
10-piece clamping device set		
	0 210 200	24.25 €
consisting of: <ul style="list-style-type: none"> • M8 x 100 mm threaded bolts, 2 pieces • Hexagon nut with flange M8, 2 pieces • T-nut with thread M8, 2 pieces • Clamping claws for 10 mm T-slot width and M8 thread 2 pieces with counter holder 2 pieces 		






	Order No.	Price from 1 set
Stop pin, adjustable, assortment = 2 pieces		
	0 210 204	183.00 €





+ Accessories



ENESKApostpro Accessories

	Size	Dimensions	Order No.	Price from	
				1 piece	1 pair
Gloves latex for ENESKApostpro, 600 mm					
		<ul style="list-style-type: none"> • with cuff Ø 180 – 300 mm • size 10 • EN388 	10	0 210 250	56.84 €
ENESKApostpro arm cuff made of latex					
		<ul style="list-style-type: none"> • Length: 500 mm • Installation diameter: from Ø 230 to 360 mm • Arm cuff made from very robust and stretchable latex with rolled edge for installation for Ø 230 to approx. 360 mm • For long-term use because the wear on the extra gloves to be used happens • With star slits for optimal sealing 		0 210 260	91.90 €
Stainless steel tank 100 l, dry version					
				0 210 360	600.00 €
Stainless steel tank 100 l, variant inert oil					
		with drain cock and window		0 210 356	690.00 €
Stainless steel basket to hold the filter bag MC K4					
			Ø 430 x 500 mm	0 210 362	220.00 €



+ Accessories

ENESKApostpro Accessories

	Size	Dimensions	Order No.	Price from	
				1 piece	1 pair
Filter bag MC K4 microfibre, variant inert oil					
	with wire ring	Ø 430 x 500 mm	0 210 361	176.00 €	
Wet filter cassette, version inert oil					
	filled with stainless steel wool, antistatic	Ø 260 x 70 mm	0 210 363	220.00 €	
Star shaped filter dust class M, variant inert oil					
	<ul style="list-style-type: none"> • Dust class M (medium risk) according to EN60335-2-69 • for the separation of dust with an exposure limit of greater than 0.1 mg/m³ • Suitable for vacuuming dry, flammable dusts in zone 22 • PU/polyester, antistatic (separation efficiency: 99.95%) 	Ø 460 x 210 mm	0 210 357	489.00 €	
HePa filter cartridge H14, variant inert oil					
	<ul style="list-style-type: none"> • 3 m² filter surface • Filter Dust class H (high risk) according to EN60335-2-69 • for the separation of all dust with all exposure limits, including carcinogenic and pathogenic dusts • antistatic (separation efficiency: 99.995%) 	Ø 460 x 105 mm	0 210 358	457.00 €	
ENESKApostpro automatic fine dust measurement FSX					
	<p>The FSX automatic fine dust measuring system from joke is to be included in the order for your ENESKApostpro! The FSX cannot be retrofitted!</p> <ul style="list-style-type: none"> • Precise dust measurement – independent of gas velocity or particle charge • No external purge air unit required as it is integrated in the unit (option) • Low cost and maintenance due to self-monitoring • Independent measuring device • Automatic monitoring of zero and reference point • Robust and compact design • No moving parts in the duct 		0 210 306	7900.00 €	



You will find **additional devices
and tools for postprocessing**

in our shop at:

www.joke-technology.com/3d-shop/en

Demonstration

Would you like a date for a personal demonstration?

We are out and about every day in Germany and some neighbouring countries. You can test our system with your workpieces on your premises. We have everything on board!

Would you like a personal demonstration?

Mr. Fielenbach will be glad to arrange the next possible appointment with you. You can contact him at **+49 (0) 2204 / 839-749** or by email at **m.fielenbach@joke.de**.



For any kind of support or demonstration please contact us.
We will be pleased to help you!

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