

jo/ke



Safety first! ENESKApostprocess 5.0

Protection against health hazards and dust explosions



Next Generation in the topic of 3D post-processing.

Dear ladies and gentlemen,

with the **ENESKApostprocess**, joke launched a unique workstation for the post-processing of 3D printed parts in 2019, which prevents health risks and the danger of dust explosions when post-processing 3D printed parts. In a completely enclosed workspace with a viewing window and sealed manual inlets, machining steps can be carried out on the 3D workpiece without the finest dust particles entering the operator's lungs. **Any respirable or explosive powders and dusts are safely extracted.**

The new ENESKApostprocess 5.0 is the logical further development of the highly acclaimed workstation:

The work area has been greatly enlarged (by 50% to 560 liters) so that large-volume 3D printed components weighing up to 250 kg can now be processed conveniently and efficiently. **Large, heavy workpieces can be** loaded from the front using a forklift truck or by crane through a special flap opening at the top. **A large flap with a full-surface window made** of laminated safety glass provides an optimum view of the workpiece being processed. At the same time, it is extremely break-proof and also protects against flying material residues. The large front flap can be operated with one hand, but only when the large signal lights are set to "blue" and the **electromagnetic safety device** allows access. Conversely, working inside is only possible if the flap is reliably and tightly closed.

Connections for many pneumatic or electric tools are located in the interior as well as an integrated ENESKA micro control unit at the front. Hand inlets that are 50 % larger also improve tool operation inside and make the new generation even more ergonomic.

Larger support residues and removal chips are collected in a drawer under the work surface. Easy to pull out and vacuum out.

The extraction system cleans 99.95 % of the air in the work chamber and therefore also meets the strict HEPA 13 filter standard. The maintenance-friendly filter unit stands on its own castors and can be removed from the rear without a forklift or pallet truck.

Compact: With all the new features, the required footprint has only grown minimally (10 cm in length and width).

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



Udo Fielenbach
Managing director, joke Technology GmbH

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ENESKApostprocess



Improved safety standard for postprocessing

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

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

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

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



Safe working instead of silicosis

The respirable dusts released during postprocessing are implicated among other aspects in cancerous and cardiovascular diseases. This is why the ENESKApostprocess is completely encased and enclosed. It is equipped with suitable, safe extraction and filtering devices.

No dust can escape from its working area. Before the system can be opened, there is a post-suction phase and a special cleaning process - only then does the system unlock and the finished workpiece can be removed. The system fulfils important IG Metall trade union "golden rules" for dust control, such as dust extraction directly at the point of exit.



No more risks of explosion

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

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



Convincing versatility

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

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

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



Ergonomics, user friendliness - and thinking of the user!

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

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

ENESKApostprocess

Advantages at a glance

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

Work steps that you can perform

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

Materials that you can process

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



Belt grinder



Hand-filing machine



Compressed-air filing machine



ENESKApostprocess

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ENESKApostprocess


Perfect solution for finishing in 3D printing

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

Particular caution is required when processing reactive materials. In this case, it is not only the dusts that can ignite through friction; the material is also highly flammable and therefore carries higher risks of explosion and deflagration. A special moisture extractor with 3-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 in their data sheets.

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

	Design	Order No.	Price from 1 piece
ENESKApostprocess 5.0 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 • 4-fold filtration • Extraction capacity / volumetric flow: max. 350 m³/h • Incl. FSX automatic fine dust measuring system (for further information, see order no. 0 210 309) • Materials to be processed: incl. among others aluminium and titanium 		0 210 014	
		with height adjustment	0 210 015
Technical data: Weight (without/with extraction system): 650/748 kg Dimensions of the working chamber (W x D x H): 974 x 766 x 386/869 mm Device dimensions (W x D x H): 1.437 x 1.685 x 1640/1940 mm Lighting: Fully integrated LED light, ESG safety glass, approx. 5600K / 9000 lm, 58W, dimmable Supply voltage: 400 V / 16 A			

Variants

ENESKApostprocess for reactive substances (Order No. 0 210 014)	ENESKApostprocess for non-reactive substances (Order No. 0 210 004)
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
4-fold filtration, including moisture separator , suitable for zone 22 ATEX II 3D c T 125 °C, 5-fold filtration, removal efficiency: 99.995%	3-fold filtration , removal efficiency: 99.95%
Exchangeable, stainless steel collection tank with drain cock, inert oil (approx. 30 L) , tank capacity 100 litres	Exchangeable, stainless steel collection tank, tank capacity 100 litres
H13 filter cassette, antistatic	H13 filter cassette, antistatic
Wet filter cassette, earthed	Wet filter cassette, earthed
Filter bag MC K4 microfibre, antistatic	–


ENESKApostprocess

Perfect solution for finishing in 3D printing


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

A large working chamber of approx. 0.6 m³ offers sufficient space even for the largest 3D-produced workpieces. There are numerous possibilities for connecting various tools simultaneously at the same workplace – whether pneumatic or electric.

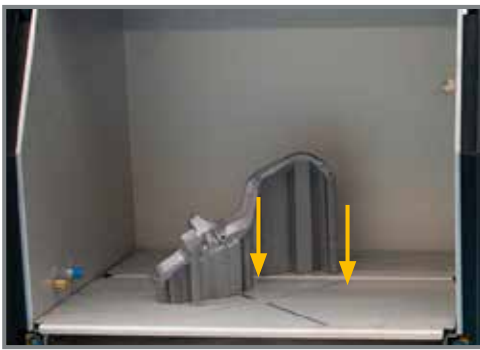
Dimmable light, a large glass front and ergonomically shaped hand apertures make everyday work very pleasant.

	Design	Order No.	Price from 1 piece
ENESKApostprocess 5.0 incl. extraction for non-reactive materials			
 <p>Special features of the ENESKApostprocess incl. extraction for non-reactive materials:</p> <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. 0 210 309) • Materials to be processed: incl. among others, steel, stainless steel and various plastics <p>Technical data:</p> <p>Weight (without/with extraction system): 650/748 kg</p> <p>Dimensions of the working chamber (W x D x H): 974 x 766 x 386/869 mm</p> <p>Device dimensions (W x D x H): 1.437 x 1.685 x 1640/1940 mm</p> <p>Lighting: Fully integrated LED light, ESG safety glass, approx. 5600K / 9000 lm, 58VV, dimmable</p> <p>Supply voltage: 400 V / 16 A</p>		0 210 004	
		with height adjustment	0 210 005

Accessories / spare parts

	Order No.	Price from 1 piece
ENESKApostprocess automatic fine dust measurement FSX		
 <p>The FSX automatic fine dust measuring system from joke can be retrofitted to the ENESKApostprocess 5.0 at any time!</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 	0 210 309	

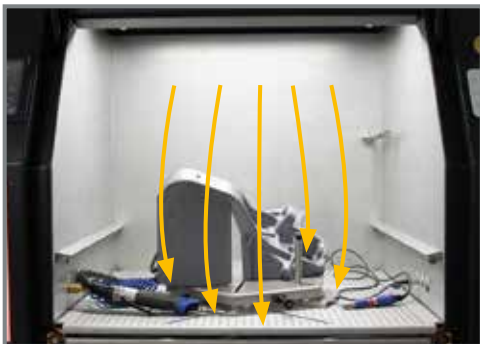
Extraction and cleaning process function



Extraction is through the floor of the working chamber.



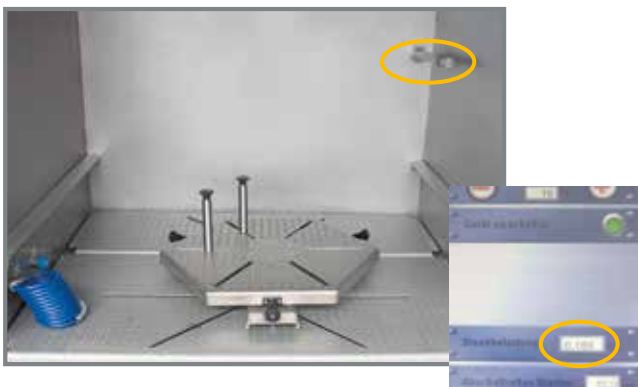
It is only possible to work in the ENESKApostprocess with the extraction system running. The system is locked during processing.



With flow-optimised 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.

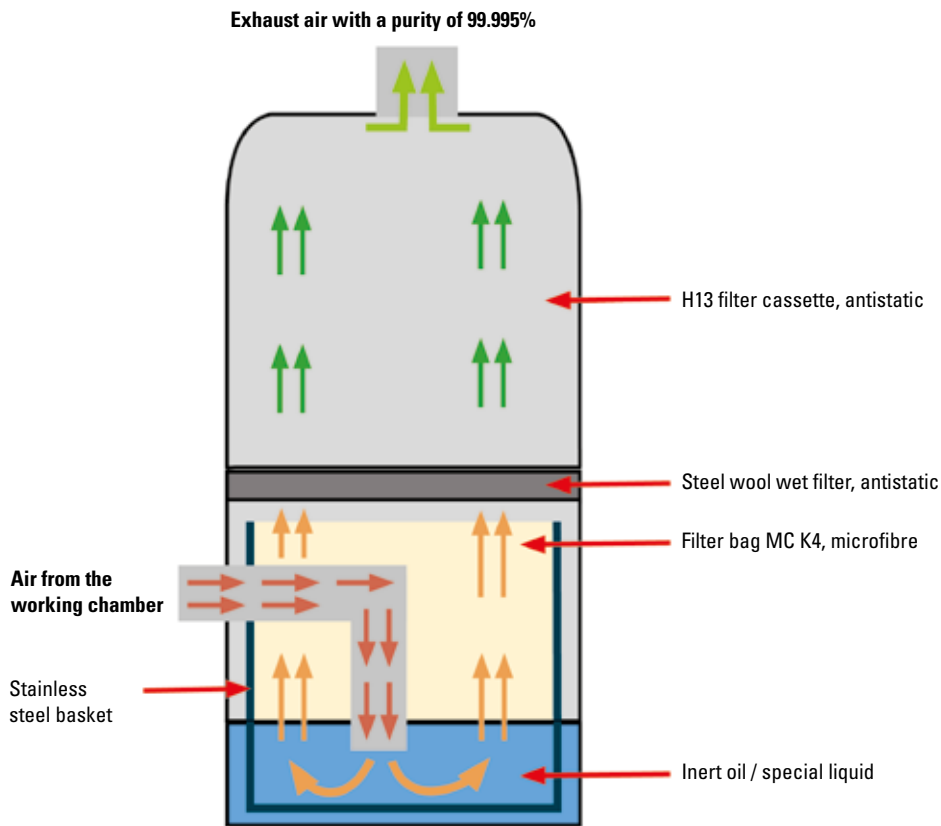
In combination with this FSX, the previously described cleaning process can be adjusted so that the system does not unlock before a defined value is reached.



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 easily accessible from the rear...





...and easy to remove on castors




+ Electrical tools

ENESKAmicro Micromotors 3rd generation

	Order No.	Price from 1 piece
ENESKAmicro COMPACT JEM 50C, motor incl. rapid-chuck handpiece and motor cable		
	The fast runner	0 100 001
	The range is rounded off with the JEM 50C. Owing to its compact design, it offers perfectly quiet running and extremely high concentricity. With its high speed of up to 50,000 rpm, it is perfectly suited for all applications with tools that require high speeds, such as milling cutters and the like. Integrated high-quality collets Ø 3 mm for frequent tool changes.	
	ENESKAmicro COMPACT JEM 50C • motor incl. rapid chuck • motor cable • brushless DC motor	
	Output: 200 W Rotation speed range: 1,000 - 50,000 rpm Torque: 8,4 N cm Dimensions: Ø 27.5 mm x 137.6 mm (without coupling) Weight: 215 g (without motor cable) Switch: on motor cable	


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

	Order No.	Price from 1 piece
ENESKAmicro motor JEM 20R, up to 20,000 rpm, incl. motor cable		
	The worker	0 100 003
	With the JEM 20R, joke addresses users who mainly work in the low speed range (up to 20,000 rpm), but require a particularly high torque. It is precisely these users who usually come up against performance limits with conventional motors. Speed fluctuations, which occur with most motors, are directly reflected in the grinding or polishing pattern and result in problems. The new JEM 20R provides a torque that makes such problems a thing of the past. The constant-speed motor guarantees an absolutely clean and harmonious microsection, even with challenging tasks.	
	ENESKAmicro JEM 20R, brushless AC motor with max. 20,000 rpm • incl. motor cable • Rapid-Change coupling	
	Output: 73 W Rotation speed range: 1,000 - 20,000 rpm Torque: 5.0 N cm Dimensions: Ø 27.5 mm x 78.1 mm Weight: 145 g (without motor cable) Switch: on motor cable	



+ Electrical tools

ENESKAmicro Micromotors 3rd generation

		Price from
		Order No. 1 piece
ENESKAmicro motor JEM 50R, up to 50,000 rpm, incl. motor cable		
	<p>The all-rounder With the JEM 50R, joke offers a motor that is particularly suitable for users who require a high degree of flexibility and have a wide range of applications for which a medium torque is sufficient. The motor operates at up to 50,000 revolutions and can therefore be used for polishing and grinding, but also deburring work.</p> <p>Brushless AC motor</p> <p>Output: 200 W Speed range: 1000 - 50,000 rpm Torque: 8.4 N cm Dimensions: Ø 27.5 mm x 137.6 mm (without coupling) Weight: 143.6 g (without motor cable) Switch: on motor cable</p>	0 100 020

ENESKAmicro Belt grinder JBS 20R


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






+ Electrical tools

ENESKAmicro angle handpieces 3rd generation

	Order No.	Price from 1 piece
ENESKAmicro angle handpiece JERA 90 20R		
	Collet: Ø 3 mm included Speed: max. 20,000 r/min, reversal of the direction of rotation Concentricity: ± 0.01 mm Dimensions: Ø 21.8 x 73 mm Weight: 92 g Vibration: 2.5 m /s ² Noise level: 70 dB	0 100 004

	Order No.	Price from 1 piece
ENESKAmicro angle handpiece JEAH 60 20R		
	Collet: Ø 3 mm in scope of delivery Speed: max. 20,000 r/min Concentricity: ± 0.01 mm Dimensions: Ø 22.5 x 80.8 mm (head: Ø 15.9 mm) Weight: 91 g	0 100 011



+ 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	






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 as well as for support removal in the additive area. 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.

		Price from
		Order No. 1 piece
Compressed-air filing machine LFC 11		
	No. of strokes: 6,000 – 12,000 strokes/min Stroke length: 2 – 11 mm, continuously adjustable Output: 300 W Air pressure: 6.3 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




Air belt grinder MBS 20 DH

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

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

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

		Price from
		Order No. 1 piece
Air belt grinder joke MBS 20 DH		
	Tapes: 6 – 12 x 305 mm (depending on the belt grinder attachment) Belt speed: 21 m/s Max. air pressure: 6 bar Air consumption: 590 l/min Exhaust air: to the front Operation: rotary, lever valve Weight: 570 g Connection: 8 mm hose nozzle Required lubrication: continuously 1–2 drops / min oil mist	0 750 879



+ 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	



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.

		Price from
		Order No. 1 piece
joke easy-Work positioner with T-slot clamping plate, round		
Rotation range:	360° manual	0 200 873
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	



Additional magnifying glass with vacuum suction cup


	Order No.	Price from 1 piece
Additional magnifying glass, with vacuum suction cup		
for all smooth surfaces		0 200 894-1
magnifying glass:	2.5 x Ø 125 mm / 10 x Ø 25 mm	
suction cup:	55 mm	

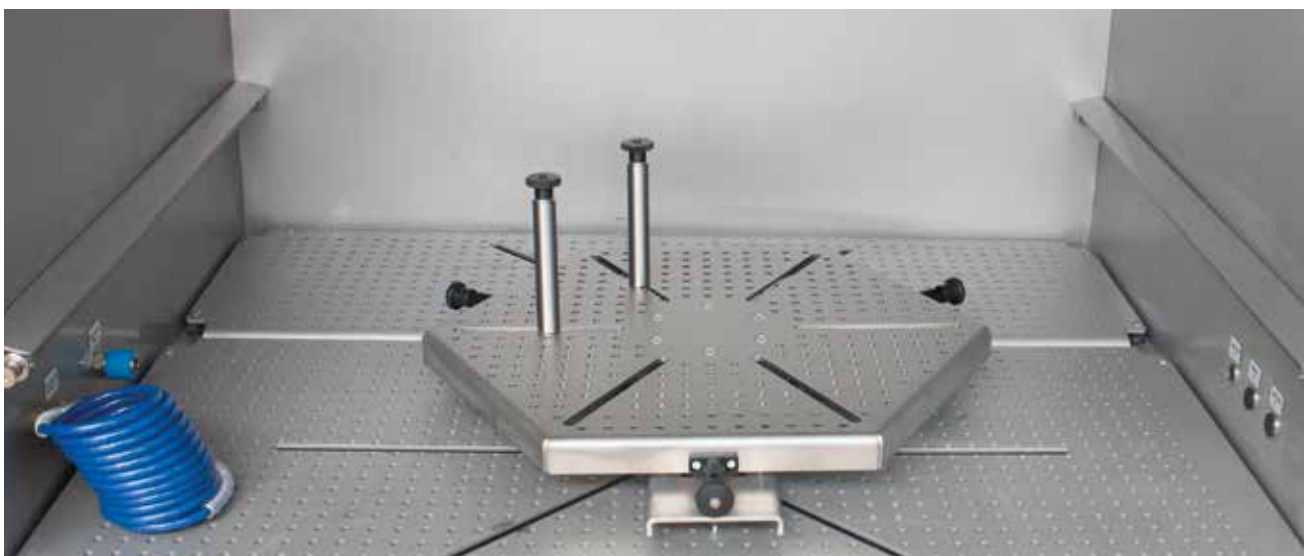




+ Accessories

Precision grinding and control vices


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





+ Accessories




ENESKApostprocess Accessories

	Size	Dimensions	Order No.	Price from	
				1 pair	1 piece
HePa filter cartridge H13, variant inert oil					
				0 210 388	
				<ul style="list-style-type: none"> • 3 m² filter area • Filter dust class H (high hazard) according to BIA class USGC • For the separation of any dust with all exposure limits, including carcinogenic and pathogenic dusts • Antistatic (separation efficiency: 99.95%) 	
Wet filter cassette, version inert oil					
				0 210 363	
				Filled with stainless steel wool, antistatic	
				Ø 260 x 70 mm	
Filter bag MC K4 microfibre, variant inert oil					
				0 210 361	
				With wire ring	
				Ø 430 x 500 mm	
Stainless steel basket to hold the filter bag MC K4					
				0 210 362	
				Ø 430 x 500 mm	
Stainless steel tank 100 l, variant inert oil					
				0 210 356	
				With drain cock and window	



+ Accessories

ENESKApostprocess Accessories

	Size	Dimensions	Order No.	Price from	
				1 pair	1 piece
Internal extraction system					
	Your ENESKApostprocess has an internal extraction system. However, if you are processing, for example, titanium and aluminium - i.e. two reactive materials - we recommend using at least a second extraction system.		0 210 316		
	The use of a second ENESKApostprocess is even safer. When using several different reactive materials, it is essential to ensure that there is no unwanted reaction!				
	Power:	3 KW			
	Suction:	350 m³/h			
	Filter:	H13 Filter			
	Height:	1683 mm			
ENESKApostprocess high-performance oil, 20 l					
	For filling the extraction with wet scrubber for reactive materials		0 580 518		
ENESKApostprocess automatic fine dust measuring system FSX					
	The FSX automatic fine dust measuring system from joke can be retrofitted to the ENESKApostprocess 5.0 at any time!		0 210 309		
	<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 				
ENESKApostprocess glass pane, laminated glass					
		970 x 933 x 8,76 mm	0 210 051		
Protective screen with flexible arm and suction foot					
	<ul style="list-style-type: none"> • Can be clamped on flat and slightly uneven surfaces. • Flexibly adjustable by 4 joints. • Suction force: 350 N 		0 210 208		
	Dimensions:				
	Suction foot:	Ø 88 x 23 mm			
	Screen:	300 x 200 x 2 mm			



+ Accessories

ENESKApostprocess Accessories

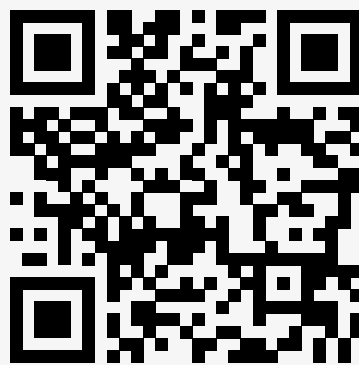
	Size	Dimensions	Order No.	Price from	
				1 pair	1 piece
Protective screen, plexiglass					
		300 x 200 x 2 mm	0 210 201		
		200 x 200 x 2 mm	0 210 202		
Gloves latex for ENESKApostprocess, 600 mm					
		<ul style="list-style-type: none"> • With cuff Ø 180 – 300 mm • Size 10 • EN388 	10	0 210 250	
ENESKApostprocess arm cuff made of latex					
		<ul style="list-style-type: none"> • Length: 500 mm • Installation diameter: from Ø 230 to 360 mm • Arm cuff made from very robust and stretchable latex with rolled edge for installation for Ø 230 to approx. 360 mm • For long-term use because the wear on the extra gloves to be used happens • With star slits for optimal sealing 		0 210 260	
ENESKAmicro footpedal					
		<ul style="list-style-type: none"> • from software version V04x (with USB port) • For comfortable control by foot (start/stop, speed adjustment) • Cable length 2 m 		0 011 003	
Maintenance unit joke Oiljet					
		<p>Filter controller MD1-FR0000-1/4:</p> <ul style="list-style-type: none"> • Max. Working flow: 1,200 l / min • Max. Inlet pressure: 16 bar • Container capacity: 24 cm³ • Condensate drain: semi-automatic-manual, automatic via pressure relief, drain via threaded connection G1/8 • Air connection: 1/4" • Medium: compressed air <p>Oiler MD1-L00-1/4:</p> <ul style="list-style-type: none"> • Max. Inlet pressure: 16 bar • Container capacity: 40 cm³ • Air connection: 1/4" • Medium: compressed air <p>Scope of delivery: 25 µm filter, manual water separator, micro oiler, pressure reducer, pressure gauge and wall mounting</p>		0 004 070	



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

in our shop at:

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



Demonstration

Would you like 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 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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