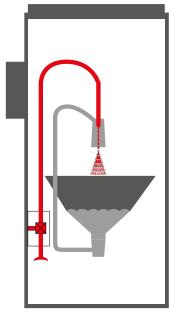


Injection and pressure blasting



Injection blasting



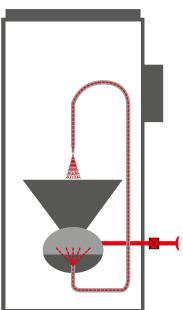
Injection blasting creates a negative pressure within a blasting gun, which sucks in the blasting shot via a separate supply line and guides it into the compressed air. The compressed air then accelerates the blasting shot up to its exit from the blasting nozzle.

Injection blasting is particularly suited to achieving uniform small to mediumsized surfaces. This method allows spot-on application (important for sensitive workpiece geometries).

During **pressure blasting**, the blasting shot is pressurised with compressed air in an enclosed container (pressure tank) from which it is forced through the attached blasting hose with blasting nozzle. Owing to this long acceleration path, the blasting shot achieves a much higher blasting and impact velocity than with injection blasting.

This method is particularly suited for blasting large areas and removing stubborn impurities. Extremely light (i.e. plastic, walnut shells) or heavy (i.e. high-carbon steel grit, metallic blasting shots) blasting media can be used, that do not achieve the required impact velocity or require a long blasting process with the injection method.

Pressure blasting



446 Injection fine blasting units mikromat eco series mikromat pro series microblast microjet

454 Blasting shots

Blasting is a surface treatment in which blasting shot is aimed at the workpieces at high velocity. **Compressed air, hydraulic fluid or wheels** are available as carrier energy. The blasting result essentially depends on the type of blasting shot selected, in addition to different machine types and configuration para-meters. (Translation of the German definition according to www.wikipedia.de)

In selecting our blasting systems, we at joke have decided on compressed air as the carrier energy. On the one hand, the risk of possible corrosion in case of non-corrosion-resistant materials is ruled out as a result; above all however, **precise point blastings** are possible using our compressed-air fine blasting systems. For this purpose, we have compiled a selection of blasting units from the **mikromat series** on the following pages.

You will find **injector and pressure blasting systems** (on request) from us that distinctly differ in their performance and are therefore capable of catering for the most diverse applications (refer to the explanation on the left).

We offer you a matching **range of blasting shots** in many different versions.

jo ke

Fine blasting units Series "eco"

Fine blasting units "eco" series

The new, budget-priced entry level blasting unit offering professional quality for workshop and factory. It is highly recommended for deburring, derusting, cleaning, roughening, matting, descaling and removing of lacquer. This unit offers modern technology with many practical features at an attractive price.

Highlights:

- Compact, space-saving design
- Integrated dust exhaust for perfect visibility during the blasting process
- Blasting shot is processed in a closed loop, i. e. only dust etc. is removed, the blasting shot is recycled
- High-performance filter cartridge (up to 8 m² filter space)
- Large window
- Adjustable blasting pressure via pressure regulator
- Easy exchange of blasting shot thanks to steep funnel
- Grid with high loading capacity
- Integrated safety device
- LED work chamber illumination
- Easy self-installation of the optional equipment, even as retrofitting



Fine blasting unit mikromat 50 eco

Working chamber dimensions (W x D x H)	approx. 500 x 450 x 470 mm
Device dimensions (W x H x D)	approx. 705 x 760 x 1,520 mm
Load bearing capacity of work area	50 kg
Air consumption	approx. 700 l/min at 7 bars
Compressed-air connection	Rapid-release coupling 1/2"
Compressed-air adjustment range	0.5 – 10 bars
Fan output	approx. 350 m³/h
Filter area	4.0 m ²
Lighting	LED
Weight	approx. 85 kg
Supply voltage	230 V / 50–60 Hz Euro plug
Scope of delivery	Blasting nozzle made of hardened steel (Ø 7 mm), safety switch (no blasting shot supply when hood open), pressure controller with water separator, foot switch for starting and stopping the blasting process
Order No.	0 951 100-8
Price	



Fine blasting units Series "eco"



Fine blasting unit mikromat 1000 eco

Working chamber dimensions (W x D x H)	approx. 1,000 x 900 x 750 mm
Device dimensions (W x H x D)	approx. 1,110 x 1,300 x 1,650 mm
Load bearing capacity of work area	approx. 130 kg
Air consumption	approx. 700 l/min at 7 bars
Compressed-air connection	Rapid-release coupling 1/2"
Compressed-air adjustment range	0.5 – 10 bars
Fan output	approx. 1,000 m³/h
Filter area	8.0 m ²
Lighting	LED
Weight	approx. 300 kg
Supply voltage	230/400 V, 5-pin plug
Scope of delivery	Scope of delivery refer to Order No. 0 952 100-8, additionally with an exhaust air duct of an afterfilter system or with an exhaust air connector for connection
Order No.	0 952 200
Price	



Fine blasting units Series "pro"

Fine blasting units Series "pro"

The fine blasting units from the pro series are perfectly prepared ex-works for optional equipment. This allows ideal working conditions. They are state of the art with their LED working chamber lights. We offer every worker ergonomically adaptable working conditions in the form of the "ERGOSIZE" height-adjustable working chamber. Other highlights: fully automatic filter cleaning and frequency-controlled extraction together with the afterfilter system allow minutest quantities of residual dusts with a very low noise level.

Highlights:

- LED lighting
- compact, space-saving design
- High-efficiency filter cartridges with 8 m² filter area
- Large viewing window with easily replaceable elements
- Sensible additional equipment
- Remnants are reduced to a minimum
- also retrofittable with the following accessories: Blow-out gun, blasting gun holder, fine blasting unit microblast-A, afterfilter system and blasting shot and blasting shot control



Working chamber dimensions (W x D x H)	620 x 500 x 250 mm
Device dimensions (W x H x D)	800 x 850 x 1,650 mm
Load bearing capacity of work area	approx. 100 kg
Air consumption	max. 700 l/min at 7 bars
Compressed-air connection	1/2" rapid-release coupling
Compressed-air adjustment range	0,5 – 10 bars
Noise level	75–76 dB(A), with afterfilter < 70 dB(A)
Fan output	approx. 1,000 m³/h
Filter area	8.0 m ²
Lighting	LED
Weight	approx. 150 kg
Supply voltage	230/400 V, 5-pin plug
Scope of delivery	Blasting nozzle made of hardened steel (Ø 7 mm), safety switch (no blasting shot supply when hood open), pressure controller with water separator, foot switch for starting/stopping the blasting process, exhaust air connector for connection or with an exhaust air duct of an afterfilter system, blasting gun holder
Order No.	0 952 400
Price	

Fine blasting unit mikromat 600 pro



Fine blasting units Series "pro"



similar picture

Fine blasting unit mikromat 1100 pro

	v
Working chamber dimensions (W x D x H)	approx. 920 x 900 x 750 mm
Device dimensions (W x H x D)	approx. 1,090 x 1,300 x 1,650 mm
Load bearing capacity of work area	approx 130 kg
Air consumption	max. 700 l/min at 7 bars
Compressed-air connection	1/2" rapid-release coupling
Compressed-air adjustment range	0,5 – 10 bars
Noise level	75–76 dB(A), with afterfilter < 70 dB(A)
Fan output	approx. 1,000 m³/h
Filter area	8.0 m ²
Lighting	LED
Weight	approx. 300 kg
Supply voltage	230/400 V, 5-pin plug
Scope of delivery	Scope of deliver, refer to Order No. 0 952 400, but without blasting gun holder
Order No.	0 952 500
Price	



Fine blasting units Matching accessories at a glance

• Accessories / spare parts

	Dimensions	mikromat 50 eco	mikromat 1000 eco	mikromat 600 pro	mikromat 1100 pro	Order No.	Price
Blow-out gun							
		x	x	x	x	0 952 023	
Blasting gun holder							
		x				0 952 039	
			x	х	x	0 952 112	
Micro fine blasting unit microb	last A						
		x	x	x	x	0 951 110-1	
Push-through system							
	150 x 150 mm	x		x		0 952 113	
	250 x 250 mm		x		x	0 952 828	
Blasting shot accelearation							
				x	x	0 952 111	
Mobile design							
				x		0 952 114	
Dust bag							
		x	x	x	x	0 952 037	
Blasting gun housing							
		x	x	x	x	0 952 016	
Air nozzle							
	Ø 2.5 mm	x	x	x	x	0 952 010-1	
	Ø 3.5 mm	X	x	x	x	0 952 010	
Blasting nozzle							
	Ø 5.0 mm	x	x	x	x	0 952 011-1	
	Ø 7.0 mm	X	x	x	x	0 952 011	
Boron carbide blasting nozzle							
	Ø 7.0 mm	x	x	x	x	0 952 018	
Gloves, pair, size 10	2.10.1.11	~	~	~	~		
		x		x		0 952 024	
Glove, left only, size 10		X					
		x		x		0 952 025	
Filter cartridge		^		~			
	230 x 620 mm	x	x	x	x	0 952 012	
Glass pane	200 x 020 mm		^	^	^	0.002.012	
	420 x 205 mm			x		0 952 034	
	420 x 203 mm	x	x	^	x	0 952 026	
Plexiglass pane	120 X 020 mm		^		^	0.002.020	
· 10/191000 puile	420 x 205 mm			x		0 952 035	
	420 x 203 mm	x	X	^	x	0 952 035	
	720 A 320 IIIIII	^	۸		^	0 JJL ULI	



Work chamber height adjustment, frequency control and secondary filter system for the mikromat 600 pro and 1100 pro fine blasting units

Work chamber height adjustment, frequency control of the fan speed and secondary filter system These optional equipment variants let you adapt the mikromat series fine blasting units even more closely to your requirements, working conditions and/or spatial circumstances. Other equipment variants are furthermore possible as well as construction of special solutions based on the tried and trusted mikromat systems.

				Price from
		Suitable for	Order No.	1 piece
Afterfilter system				
	Using the afterfilter system, the cleaned air can be discharged into the environment at the equipment location, since the residual dust content is reduced to < 2 mg/m ³ exhaust air. The afterfilter system is simply installed on the exhaust air nozzle of the blasting unit. This system dispenses with additional exhaust air piping and/or ceiling openings. Furthermore, the afterfilter system also reduces the noise level of the blasting unit.	mikromat 1100 pro mikromat 600 pro	0 952 002	

Aspiration frequency control



The optional fan frequency control allows modification of aspiration by ca. \pm 25%. Modification of output allows optimum adjustment of the aspiration performance to the respective blasting conditions for example, less aspiration when using light blasting shot, in order to avoid sucking the latter out of the blast-ing circuit. Alternatively, an increased aspiration performance will guarantee an optimum view of the blasting process in the chamber with blasting shot that contains dust.

Manual filter cleaning				
X	For cleaning the filter cartridges by manual operating the pneumatic filter cleaning. The filter cartridges are moved by a roller vibrator in this case. This loosens filter deposits and a free filter area is restored.	mikromat 1000 eco mikromat 1100 pro mikromat 600 pro	0 952 031	
Fully automatic filter clo	eaning			
	For cleaning the filter cartridges by automatic operating the pneumatic filter cleaning. The filter cartridges are moved by a roller vibrator in this case. This loosens filter deposits and a free filter area is restored.	mikromat 1100 pro mikromat 600 pro	0 952 082	
Working chamber heigt	t adjustment ERGOSIZE			

Infinitely variable ergonomic adjustment of the work chamber height.	mikromat 600 pro	0 952 110	
200 mm travel, electrically driven.	mikromat 1100 pro	0 952 132	

mikromat 1100 pro

mikromat 600 pro

0 952 003



Fine blasting unit microblast

Micro fine blasting unit microblast Basic

The compact solution for finest blasting jobs. The microblast fine blasting unit allows you to work on finest contours, narrow ribs, slots etc.

Available in two versions:

- The mobile version with carrying straps (order no. 0 951 110) as an open system without its own blasting chamber lends itself to fine work in the field of renovation for stripping wall painting
- With the add-on version (order no. 0 951 110-1), the blasting chamber, extraction and illumination of the large device are used to carry out highly intricate work with the microblast.

					Price from
			Design	Order No.	1 piece
Micro fine blasting unit microblast A					
	Dimensions (W x D x H): Weight: Compressed-air range: Application of blasting shot: Supplied with: handpiece with 1.2 mm tung foot switch, blasting shot co controller, pressure gauge an (Order-No. 0 951 110 with carr	sten carbide blasting gun, ntainer (2 kg), pressure d air filter	for connecting with mikromat 50, 600, 1000, 1100	0 951 110-1	
Micro fine blasting unit microblast					
	Dimensions (W x D x H): Weight: Compressed-air range: Application of blasting shot: Supplied with: handpiece with 1.2 mm tung foot switch, blasting shot co controller, pressure gauge an (Order-No. 0 951 110 with car	sten carbide blasting gun, ntainer (2 kg), pressure d air filter	for maximum mobility	0 951 110	

• Accessories / spare parts

			Price from
	Size	Order No.	1 piece
Tungsten carbide blasting gun			
	Ø 0.8 mm	0 951 112	
	Ø 1.0 mm	0 951 113	
	Ø 1.2 mm	0 951 114	
	Ø 1.5 mm	0 951 147	



microblast A adapted to mikromat 50 eco
Order no. 0 951 110-1

We recommend the following blasting nozzles:

Ø 0.8 mm Ø 1.0 mm Ø 1.2 mm	glass beads	GPFF 70 – 40 μm GPF 110 – 70 μm GPM 200 – 100 μr
Ø 1.2 mm	glass beads	GPIVI 200 – 100 μι



Tabletop fine blasting device microjet

on Page 452:

Ø 0.8 mm

Ø 1.0 mm

Ø 1.2 mm

is also available. Please consult us!

joke recommendation:

We recommend the following blasting nozzles

glass beads

The blasting shot containers listed below

are supplied as standard. A selection of

other blasting shot container combinations

The possibilities are numerous...

glass beads $\,$ GPFF 70 - 40 μm

glass beads GPM 200 - 100 µm

GPF 110 – 70 µm

 \bigcirc

Tabletop fine blasting device joke-microjet

The microjet is a blasting device developed for surface treatment of metals. Particularly suitable for removing residues and oxide layers or when using glass beads for polishing the precious metal surfaces

Highlights:

- Depending on equipment, a choice of one, two or three blasting shots is available during work.
- Handpiece can be used with a Ø 0.8, 1 or 1.2 mm fine blasting nozzle.
- Wide viewing window with easily replaceable protective film.
- Steel housing with stove-enamel finish
- Pneumatic foot switch
- Tank with 2 kg capacity (approx. 1 litre)
- Compact, space-saving construction
- · Switches for light and external extractor provided.



Artikel-Bezeichnung

Tabletop fine blasting device joke-





Tabletop unit joke-microjet 2, Cabine

	microjet 1, Cabin with 1 blasting cabin	with 2 blasting shot container	with 3 blasting shot container
Device dimensions (W x H x D)	approx. 380 x 570 x 280 mm	approx. 380 x 570 x 280 mm	approx. 380 x 570 x 280 mm
Air consumption	max. 80 l/min at max. 6 bars	max. 80 l/min at max. 6 bars	max. 80 l/min at max. 6 bars
Compressed-air adjustment range	0.5 – 6 bar	0.5 – 6 bar	0.5 – 6 bar
Lighting	9 W (fluorescent tubes in housing)	9 W (fluorescent tubes in housing)	9 W (fluorescent tubes in housing)
Weight	approx. 9 kg	approx. 11 kg	approx. 13 kg
Supply voltage	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
Scope of delivery	1 handpiece with Ø 1.2 mm blasting nozzle made of hardened steel, foot switch, 1 container for blasting shot of grit size 150–250 µm, compressed air controller with filter and gloves (installed)	2 handpieces with Ø 1.2 mm blasting nozz- le made of hardened steel, foot switch, 1 container respectively for blasting shot of grit size 90–120 µm and 150–250 µm (switchable), compressed air controller with filter and gloves (installed)	3 handpieces with Ø 1.2 mm blasting nozz- le made of hardened steel, foot switch, 1 container respectively for blasting shot of grit size 50–80 μm, 90–125 μm and 150–250 μm (switchable), compressed air controller with filter and gloves (installed)
Order No.	0 951 210	0 951 220	0 951 223
Price			

You want to protect the glass from blasting scratches?

(**i**) You can order a protective film (Order no. 0 951 222) - please contact us!

Suction unit EUR

				Price from
			Order No.	1 piece
Suction unit EUR				
	Dust extractor with paper bag and polyester filter. Suction power continuously adjustable		0 951 224	
	Dimensions (B x H):	approx. Ø 360 x 580 mm		
	Weight:	approx. 8 kg		
In case of the local division of the	Noise level:	max 71 dB(A) (at 1 m distance)		
-	Voltage:	230 V, 50 Hz (s. specification plate)		



Blasting shots



Blasting shots

We have the right blasting shot for every application. For almost all blasting shots, you have a choice between the handy 5-litre can and the economical bag containing 25 kg. We carry other blasting shots too in the range in addition to the selection indication on the following pages.

Consult us!

Blasting shots Plastic granulate with antistatic agent

Applications / Materials:

- Cleaning of Steel and aluminium moulds, GFK-parts, wooden surfaces, copper, bronze, marble, granite etc.
- Paint stripping of powder coated parts, automotive parts, aluminium rims, aircraft parts
- Deburring of zinc die casting and aluminium parts
- Paint preparation of plastic surfaces
- No electrostatic charge

Perfectly suitable for use of pressure blasting systems!

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots plastic g	ranulate with antistatic agent				
	250 - 150 μm	25 kg bag	Premium	0 955 266	
	500 - 250 μm	25 kg bag	Premium	0 955 267	
	800 - 500 µm	25 kg bag	Premium	0 955 265	
	1200 - 800 µm	25 kg bag	Premium	0 955 268	
	1500 - 1200 μm	25 kg bag	Premium	0 955 269	

Blasting shots Mixed grits

Improving of surfaces, cleaning, deburring, descaling and preparation of surfaces.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots mixed grit	ts				
1.1746.000	50 - 40 µm	5lcan	MK 300	0 955 142	
	70 - 50 μm	5lcan	MK 245	0 955 132	
	110 - 40 µm	5lcan	MK-GPF/SI	0 955 232	
	110 - 70 μm	25 kg pail	MK 245/S/G	0 955 222-1	
	150 - 75 μm	5lcan	MK 90/150	0 955 122	
		25 kg pail	MK 90/150	0 955 122-1	
	200 - 100 µm	5lcan	RM K	0 955 202	
		25 kg pail	RM K	0 955 205-1	
	300 - 150 μm	5 l can	MK 60/90	0 955 112	
		25 kg pail	MK 60/90	0 955 112-1	
	500 -150 μm	5lcan	MK 40/90	0 955 102	
		25 kg pail	MK 40/90	0 955 102-1	



Blasting shots Glass beads

Polishing, decorating, deburring, surface hardening of all materials including non-ferrous and precious metals and plastics.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots glass bea	nds				
	50 - 0 µm	5 l can	GP/0 - 50	0 955 352	
		25 kg bag	GP/0 - 50	0 955 354	
	70 - 40 µm	5 l can	GPFF	0 955 342	
		25 kg bag	GPFF	0 955 344	
	110 - 70 μm	5 l can	GPF	0 955 332	
		25 kg bag	GPF	0 955 334	
	200 - 100 µm	5 l can	GPM	0 955 322	
		25 kg bag	GPM	0 955 324	
	400 - 300 µm	5 l can	GPG	0 955 312	
		25 kg bag	GPG	0 955 314	
	600 - 400 μm	5 l can	GPSG	0 955 302-1	
		25 kg bag	GPSG	0 955 304-1	

Blasting shots Hard blasting shot

Cleaning, descaling, deburring of metals, mainly steels – no formation of dust.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Hard blasting shot					
	150 - 100 μm	5lcan	HST 120 (round)	0 955 402	
		25 kg bag	HST 120 (round)	0 955 404	
	200 - 100 µm	5 l can	HST 121 (edged)	0 955 412	
and the second s		25 kg bag	HST 121 (edged)	0 955 414	

Blasting shots Ruby

For deburring, cleaning and descaling.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots ruby					
	74 - 53 μm	5 l can	RUB 220	0 955 522	
CALL STR. STR. SALA		25 kg bag	RUB 220	0 955 525-1	
	100 - 75 μm	5lcan	RUB 150	0 955 512	
		25 kg bag	RUB 150	0 955 515-1	
	150 - 125 μm	5 l can	RUB 100	0 955 502	
		25 kg bag	RUB 100	0 955 505-1	



Blasting shots Silicon carbide

Aggressive shot, high stock removal. Cleaning of hardened surfaces.

				Price from
	Grit size	Content	Туре	Order No. 1 piece
Blasting shots silicon ca	rbide			
	25 - 21 µm	5lcan	SIC 360	0 955 932
		25 kg bag	SIC 360	0 955 935
	75 - 53 μm	5lcan	SIC 220	0 955 922
		25 kg bag	SIC 220	0 955 925
	90 - 63 µm	5 l can	SIC 180	0 955 912
		25 kg bag	SIC 180	0 955 915-1
	106 - 63 µm	5lcan	SIC 150	0 955 902
		25 kg bag	SIC 150	0 955 905-1

Blasting shots Ceramic beads

Synthetic, pearl-shaped zirconbased blasting shot. Hardness and density much higher than glass beads, resulting in a significantly longer service life. Ceramic beads are particularly suitable for cleaning, hardening, smoothing, deburring and polishing of various surfaces.

			Price from
Grit size	Content	Туре	Order No. 1 piece
eads			
125 - 70 µm	5 l can	KPFF	0 955 380-1
	25 kg can	KPFF	0 955 380
250 - 125 μm 5 I can KPF 25 kg can KPF	5 l can	KPF	0 955 381-1
	KPF	0 955 381	
425 - 250 μm	5 l can	КРМ	0 955 382-1
	25 kg can	КРМ	0 955 382
	eads 125 - 70 μm 250 - 125 μm	eads 125 - 70 μm 25 kg can 250 - 125 μm 5 l can 5 l can 25 kg can 25 kg can 25 kg can 5 l can	Eads 5 I can KPFF 25 r 70 μm 5 I can KPFF 25 kg can KPFF 250 - 125 μm 5 I can KPF 25 kg can KPF 5 I can KPF 5 I can KPF 425 - 250 μm 5 I can



Blasting shots Corundum

General cleaning jobs, descaling, decorating, matting, good stock removal, medium hard.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots corundum					
	75 - 53 μm	5 l can	KOR 220	0 955 622	
在非常的保護		25 kg bag	KOR 220	0 955 625-1	
	90 - 63 µm	5 l can	KOR 180	0 955 612	
		25 kg bag	KOR 180	0 955 615-1	
	106 - 63 μm	5 l can	KOR 150	0 955 602	
		25 kg bag	KOR 150	0 955 605-1	
	150 - 106 µm	25 kg bag	KOR 100	0 955 875-1	
	250 - 180 μm	25 kg bag	KOR 70	0 955 874-1	
	355 - 250 μm	25 kg bag	KOR 54	0 955 873-1	
	425 - 300 μm	25 kg bag	KOR 46	0 955 872-1	
	850 - 600 μm	25 kg bag	KOR 24	0 955 871-1	
	2000 - 1400 µm	25 kg bag	KOR 12	0 955 870-1	

Blasting shots Walnut shells

Cleaning and deburring of soft metals and plastics, especially duroplastics.

					Price from
	Grit size	Content	Туре	Order No.	1 piece
Blasting shots walnut she	ells				
	≤ 300 µm	5 l can	WS 3	0 955 722	
Star Annabal		25 kg bag	WS 3	0 955 725-1	
The Carlos And Carlos	750 - 300 μm 5 l can WS 2 25 kg bag WS 2	5 l can	WS 2	0 955 712	
the last		WS 2	0 955 715-1		