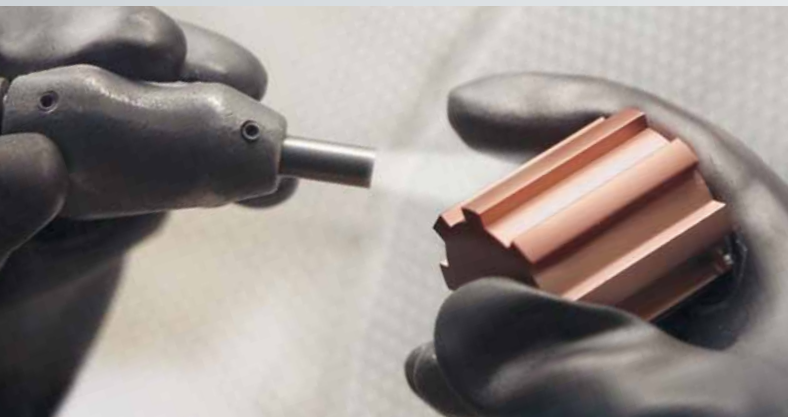




# HGH®



## Microblasting by HGH



*Surface treatment: Highly precise and reproducible at any time, for applications in many industries*

- Automobile industry
- Electronics industry
- Mold making
- Surface technology
- Optics industry
- Plastics industry
- Aviation industry
- Engine manufacturing
- Aerospace industry
- Textile industry
- Toolmaking
- Electroplating industry



HGH 7050

## 1-step cabinet made by HGH

- Fold-down front
- Flap opens to 90°
- 1 key switch
- Model 8060 incl. turntable and mobile base frame

Model	HGH 6040	HGH 7050	HGH 8060
Working space dimensions [mm]	560 x 350 x 250	680 x 450 x 300	780 x 550 x 310
Door dimensions [mm]	600 x 230	750 x 280	850 x 280
Cabinet dimensions [mm]	705 x 720 x 1360	855 x 830 x 1400	955 x 935 x 1570
Workpiece weight [kg]	max. 100	max. 100	max. 300



HGH 6040 DUO

## 2-step cabinet made by HGH

- Fold-down front
- Flap opens to 90°
- 2 key switches
- Mobile base frame with adjustable feet and blasting agent storage tray
- Model 7050 DUO incl. turntable

Model	HGH 6040 DUO	HGH 7050 DUO
Working space dimensions [mm]	560 x 350 x 250	680 x 450 x 300
Door dimensions [mm]	600 x 230	750 x 280
Cabinet dimensions [mm]	1300 x 720 x 1500	1700 x 830 x 1550
Workpiece weight [kg]	max. 100	max. 100

## Accessories

Accessories • Available as an option	Model								
	6040	7050	8060	DUO	1100	1300	1700	2200	Tandem
Microblast 100	•	•	•						
Microblast 200				•					
Integrated microblasting	•	•	•	•					
Height adjustment	•	•	•	•					
Mobile base frame	•	•	•						
Blasting agent storage tray	•	•	•						
Door opening	•	•	•	•	•	•	•	•	•
Screw intake					•	•	•	•	•

HGH Microblast 200



HGH Microblast 100



## 1-step cabinet, large

- Version designed as an injector system
- Version designed as a pressure blasting system (*information in italics*)

Model	HGH 1100	HGH 1300	HGH 1700	HGH 2200
Working space dimensions [mm]	1100 x 800 x 740 <i>1100 x 930 x 830</i>	1370 x 890 x 810 <i>1370 x 1020 x 890</i>	1700 x 1400 x 1100 <i>1700 x 1400 x 1100</i>	2200 x 1400 x 1100 <i>2200 x 1400 x 1100</i>
Door dimensions [mm]	690 x 620 <i>830 x 720</i>	790 x 690 <i>920 x 780</i>	1290 x 990 <i>1290 x 990</i>	1290 x 990 <i>1290 x 990</i>
Cabinet dimensions [mm]	1250 x 1280 x 2000 <i>1250 x 1525 x 2100</i>	1520 x 1400 x 2080 <i>1520 x 1630 x 2170</i>	1750 x 2080 x 2350 <i>1750 x 2080 x 2350</i>	2350 x 2080 x 2350 <i>2350 x 2080 x 2350</i>
Workpiece weight [kg]	max. 350 <i>max. 350</i>	max. 350 <i>max. 350</i>	max. 1000 <i>max. 1000</i>	max. 1000 <i>max. 1000</i>



HGH 1100

## 2-step cabinet, large

- Injector system, tandem
- Loading system through 2 cabinets
- 1 turntable







Model	HGH 1100 Tandem
Working space dimensions [mm]	1100 x 800 x 740
Door dimensions [mm]	690 x 620
Cabinet dimensions [mm]	1250 x 1280 x 2000
Workpiece weight [kg]	max. 350
Model	HGH 1300 Tandem
Working space dimensions [mm]	1370 x 890 x 810
Door dimensions [mm]	790 x 690
Cabinet dimensions [mm]	1520 x 1400 x 2080
Workpiece weight [kg]	max. 350



HGH 1100 Tandem

## Blasting media from HGH

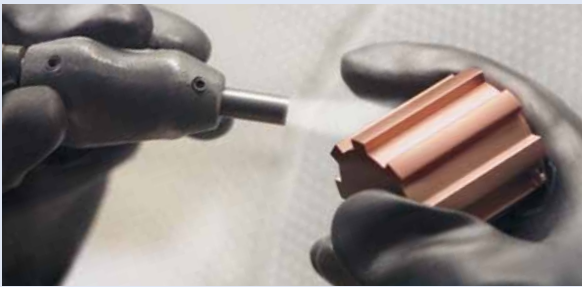
We have a large selection of blasting agents that are tailored exactly to your application. You will find a selection here.

SM 2002A – Grain size: 50–70 µm	SM 2002G – Grain size: 150–250 µm	SM 2552GT – Grain size: 30 µm
Removing the martensitic layer. First stage of the two- or multi-stage blasting process.	Creates a silky luster on Duroplast, V2A, and aluminum molds.	Surface compaction. Anti-stick compaction in the two- or multi-stage blasting process.
		
SM 2490A – Grain size: 0.1–0.4 mm	SM 2915A – Grain size: 90 µm	SM 2005K – Grain size: 0.2–0.4 mm
Descaling, derusting, matte, finishing. Preparing an adhesive surface for painting.	Preparing an adhesive surface for galvanic coatings. Paint primer.	Cleaning screws, cylinders, and molds for injection molding and extrusion machines.
		



For the highest precision and productivity

## Microblasting by HGH



The microblasting process is a dry blasting process in which a defined nominal grain size of a specific medium quality is blasted onto the surface with the help of compressed air and where this energy influences exactly the specifically desired locations on the workpiece.

Microblasting after electrical discharge machining offers the following advantages:

- 100% removal of the hard martensitic layer on eroded workpieces and erosion electrodes without rounding sharp edges in just a matter of seconds.
- Fine processing in stages to obtain defined surfaces.
- The surface geometries can be changed so that they can be concave or convex in three dimensions. This leads to the reduction of galling on points of motion and movable joints.
- Flattening and compression of certain areas of the surface to reduce abrasive wear as well as to optimize the pairing properties of various materials.
- Preparing an adhesive surface and cleaning the surface for galvanic coatings and other types of coatings.
- Reprocessing very dirty molds with subsequent compression of the surface (increases service life and anti-stick effect).
- When performed before polishing, microblasting can refine the surface roughness (approx. Ra 0.2–1.5 µm) so that the desired surface finish is obtained in much less time (cost savings).

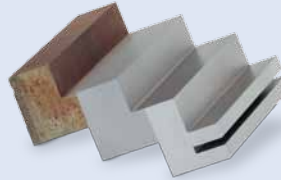
As a supplement to the conventional, well-known fine finishing processes used in production engineering and to obtain a defined surface geometry, this processing method has set new standards.

Due to our many years of development experience and ongoing development of our microblasting cabinets and blasting media, it was possible to convert the conventional "sandblasting" and "elutriation" processes into a defined and reproducible surface finishing method.

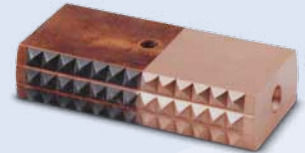
Wide variety of possible applications

## Precise and reproducible

It is known that wire eroding and die sinking both produce a so-called "white zone" (martensite/cementite). Various metallurgical studies have confirmed that the white zone can be influenced and can have varying thicknesses depending on the process, material and generator setting.



Blasting an eroded surface in the 2-step process to remove the martensitic layer and to increase the resistance to wear



Cleaning an electrode to increase its service life, to inspect the surface for damage, and to improve the sparking process



Surface treatment as preparation before coating



Cleaning a zinc die cast mold with subsequent surface compaction to solve a mold removal problem



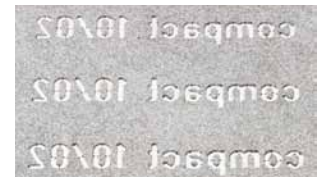
Cleaning plastic mold screws for quick reuse in the injection molding machine



Removal of surface rust or other residues



Structuring aluminum surfaces



Structuring surfaces in molds



Machining and structuring glass surfaces

If you cannot find your specific application here, then you simply need to contact us. We will certainly be able to find the right solution.



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# HGH®