

# Mould making

Tools for injection moulding and  
pressure die casting up to 8t



We offer:

Highest quality, faithfulness to deadlines and customer-specific problem solutions, qualified specialised staff, state-of-the-art facilities, sophisticated working techniques, continuous 3D manufacturing technology as well as injection moulds and pressure die castings up to a mould/casting weight of 8 tons.



## Büchler Werkzeugbau AG

Qualität – in welcher Form auch immer.

Büchler Werkzeugbau AG, Wilerstrasse 98, CH-9230 Flawil, Tel. +41 (0)71 394 13 00, Fax +41 (0)71 394 13 10  
[www.buechler-formen.ch](http://www.buechler-formen.ch), [buag@buechler-formen.ch](mailto:buag@buechler-formen.ch)

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Quality, competence  
and experience

## Our key data:

Founded in		1966
Company of Geberit		1991
Employees		48
CNC	since	1977
CAM	since	1979
CAD	since	1986
3D	since	1991



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## Thermoplastics and thermosetting plastics

From the CAD construction to the finished mould – a process characterised by perfect precision. Modern CNC machines and our qualified employees guarantee the highest quality. No matter if you are looking for experimental moulds or high-performance tools, simple or redundant design, split or multi-split moulds or two-component-tools – we have the tailor-made solution for you.



We are specialists in every field - sanitary engineering, fastening technology, sealings or other complex technical parts. We have long proved our expertise in these fields and during our almost 50 years of existence. Our moulds are not among the cheapest, but judging from their high quality and very long product life, our prices are justified.

And it's quality that counts in the age of Eco Design.



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## Pressure die casting aluminium-zinc-magnesium

Our know-how ranges from experimental moulds (prototypes) up to precise series tools. We have produced high-quality pressure die castings (made of aluminium, zinc or magnesium) since 1966.



As a full-line provider in the field of pressure die casting, a first-class supplier must be able to offer complete service, including advice and counselling for the development of the project, the construction, the optimisation, the manufacturing of sample parts, the different, qualitative inspections and compilation of inspection certificates and the counselling in the after-sales period. If you are looking for this, the company Büchler is the right partner for you.



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# Mould making

## LaserCUSING

Effective surface cooling: The cooling in a tool is a crucial factor for the determining of the cycle time, the size quality and the process safety. With the help of the LaserCUSING process, we succeeded in reducing your production and manufacturing costs.

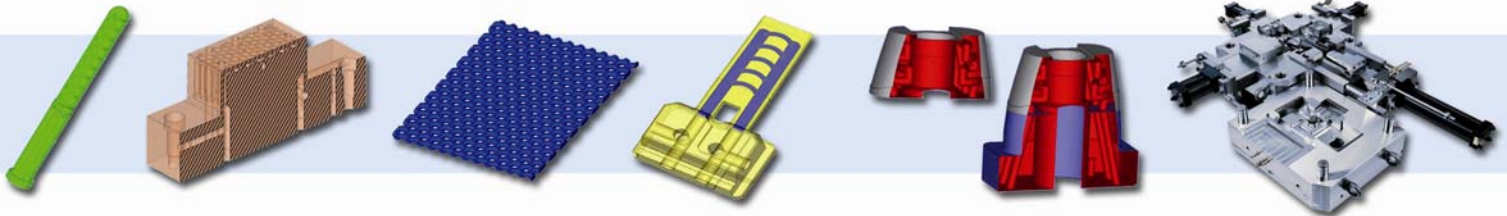
**Materials:**

Hot work tool steels for plastic injection moulding

CL 50WS (1.2709)

Hot work tool steels for light metal pressure die casting

CL 60DG (1.2709)



In conclusion, there are tangible cost-related and qualitative advantages:

- Cooling effect on the surface
- Specific local temperature difference possible
- Outline-related cooling increases the productivity of the tool (up to 30% reduced cycle time)
- Distortion on the injection-moulded part is avoided by optimal cooling
- Increased product quality
- Pre-worked design outline of the tool inserts
- Extremely short manufacturing time of LaserCUSING inserts
- New process application can be realized.



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## State-of-the-art machinery

We dispose of state-of-the-art machinery. Our manufacturing process is carried out with the help of CNC-controlled machines in air-conditioned areas.

Wire cutting  
up to 700 x 400 x 406



Ram electrical  
discharge machining  
up to  
1500 x 1000 x 650



Milling up to  
1600 x 800 x 800



HsC milling up to  
1250 x 800 x 880



LaserCusing



Coordinate grinding  
up to 900 x 660 x 635

Data transfer:  
Interfaces: Cimatron/ELT/CTF/PFM/Catia V4+V5/Model/Export  
Parasolid/STEP/IGES/VDA/SAT/DXF/DWG; more interfaces on request



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# Mould making

## Palletisation

With the help of an integrated palletisation system, we manufacture complicated work pieces on all machines effectively, precisely and with the highest repeating precision.

Identical work piece zero point on all machines and for all operations.  
Presetting / Setting-up during primary processing time will reduce the unproductive downtimes.



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Treatment	Control	Speed of rotation/min	NC-round table	retooler	tooling places	5-axes	measuring	Delphin	Processing pass
<b>Milling</b>									x,y,z
DMU 50 T	MillPlus IT	9'000	x	x	16				500 x 400 x 400
DMU 60 P	MillPlus	12'000	x	x	30				600 x 650 x 550
DMU 60 T	MillPlus IT	30'000		x	24		x		630 x 560 x 560
DMU 60 T	Millplus IT	12'000		x	24				630 x 560 x 560
DMU 80 P hi-Dyn	MillPlus IT	12'000	x	x	60	x	x	x	800 x 700 x 600
DMU 80 T	MillPlus IT	12'000		x	32				800 x 630 x 630
DMU 80 P hi-Dyn	MillPlus IT	12'000	x	x	60			x	800 x 700 x 600
DMC 100 V	Dialog 112	15'000		x	30				1000 x 800 x 500
DMU 125 P	Millplus V 400	8'000	x	x	60			x	1250 x 800 x 880
DMU 50	MillPlus IT	10'000	x	x	16				500 x 450 x 400
MH 1600 S	CNC 432	4'000	x	x	36				1600 x 800 x 800
MH 600 C	CNC 432/532	3'000	x						600 x 450 x 450
MH 600 C	CNC-532	3'000	x	x	30				600 x 450 x 450
MH 800 C/A	CNC 432	3'000	x						800 x 600 x 440
OPS 600	Andronic 400 V 3.1	40'000		x	12				600 x 360 x 340
OPS 650	Andronic 400 V 3.1	36'000		x	56				700 x 550 x 450
Deckel FP 2									400 x 200 x 400
Deckel FP 2									400 x 200 x 400
Deckel FP 4M									500 x 400 x 400
ixion TL 600	Elau								700 x 400 x 600
<b>Turn</b>									x,y,z
Heidenreich VDF-630									300 x 1500
Voest WNC 300	CNC mit angetriebenen WZ								220 x 1240
Harrison Alpha 400+	CNC								195 x 1250
Schaublin 102 N									500 x 100
Weiler Drehbank									130 x 500



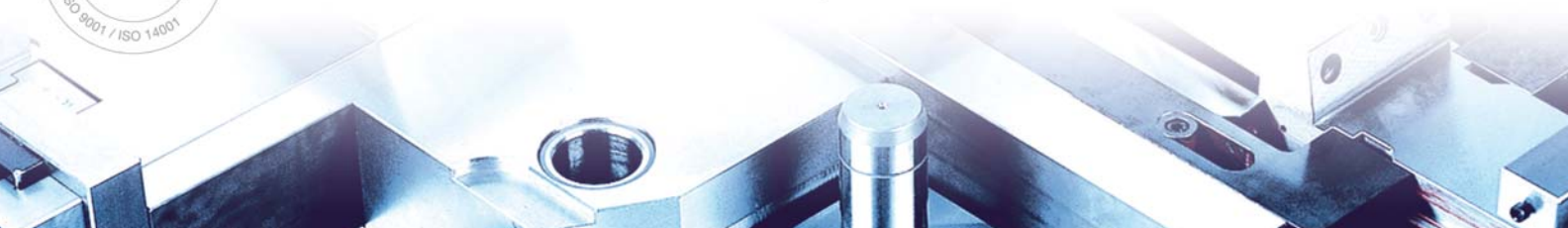
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**Equipment, Page 2**

<b>Jig Grinding</b>					x,y,z
Hauser S50-600 HI-Cut	GE Fanuc 15M	9'000 - 60'000			900 x 660 x 635
Hauser S 40 HI-Cut	CNC 311				650 x 450 x 500
Hauser S 3	CNC 311				400 x 250 x 450
Hauser 3 SMO					400 x 250 x 490
Hauser 3 SMO					400 x 250 x 490
Hauser 5 SM					700 x 500 x 620
<b>EDM/Wire EDM</b>					x,y,z
AGIETRON 200	CNC				500 x 350 x 500
AGIETRON 250 C	CNC				700 x 500 x 500
AGIETRON 3U	CNC				420 x 320 x 350
Gantry 1200-HSJ	CNC		x		1500 x 1000 x 650
Charmilles P 25					350 x 120 x 70
TSH-30	Startlochbohren				300 x 200 x 250
AGIE AC 350 HSS	CNC				700 x 400 x 406
AGIECUT 200	CNC				400 x 250 x 256
<b>LaserCusing</b>					x,y,z
M3 Linear M3	CNC				800 x 500 x 400
<b>Flat-/Circular Grinding</b>		Magnet	x,y,z		
LGB R16090 SM	CNC				1700 x 900
Lip PLTH 300		130 x 150			250 x 130 x 180
Lip PLTH 300		130 x 150			250 x 130 x 180
Blohm Planomat 408	CNC				800 x 350 x 360
Blohm Planomat 408	CNC				800 x 350 x 360
Blohm Hanseat 75		500 x 750			750 x 500 x 480
Jung JF 520		200 x 600			600 x 220 x 270
Scheu S 2/4		200 x 350			300 x 180 x 200
Scheu S 2/4		200 x 350			300 x 180 x 200
Studer S33	CNC				175 x 1000
Kellenberger 57 W					125 x 500
Kellenberger 1000 U					125 x 1000
MEBA Elo 320 EHSS					500 x 300 / DM 325
<b>Measure</b>					
Zeiss Eclipse					



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