

SERVICE OVERVIEW

MASCHINENFABRIK BERNER CERTIFIED ACCORDING TO DIN EN ISO 9001: 2015

WELDING

- Certified according to EN ISO 3834-2
 - Manual arc welding (E)
 - Metal active gas welding (MAG)
 - Metal inert gas welding (MIG)
 - Tungsten inert gas welding (WIG)
- Welding supervisor according to EN ISO 14731
 - Special welding engineer (IWE)
 - Welding specialist (IWS)
- Certified welders according to EN ISO 9606-1/ -2
- Welder for stainless steel and aluminum compounds
- Sheet metal working in Stainless steel, steel, non-ferrous and light metal sheets
- Restamping authorization for materials according to DIN EN 10204 – 3.1
- Part weight up to 15t

BLASTING SYSTEM

angular sandblasting grit 0,4 - 1,0 mm
Dimensions of the blasting cabinet 12.000 x 4.000 x 3.000 mm

MECHANICAL MANUFACTURING

MILLING

- | | | | | | | | | | | | |
|---|--|----------------|--|---------|-----------|--|----------|--|----------|-------------|---------------------|
| <ul style="list-style-type: none"> • Lateral milling unit
FBF 12000
Tool changer
for 80 tools
VDI turret | <table border="0"> <tr> <td colspan="2">CNC-controlled</td> </tr> <tr> <td>Travels</td> <td>12.000 mm</td> </tr> <tr> <td></td> <td>3.000 mm</td> </tr> <tr> <td></td> <td>1.500 mm</td> </tr> <tr> <td>Floor plate</td> <td>13.000 mm x 2000 mm</td> </tr> </table> | CNC-controlled | | Travels | 12.000 mm | | 3.000 mm | | 1.500 mm | Floor plate | 13.000 mm x 2000 mm |
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| | 3.000 mm | | | | | | | | | | |
| | 1.500 mm | | | | | | | | | | |
| Floor plate | 13.000 mm x 2000 mm | | | | | | | | | | |

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|---|--|----------------|--|---------|----------|--|----------|--|----------|
| <ul style="list-style-type: none"> • Boring mill • Spindle diameter 130 mm
Tool changer
for 60 tools
Rotary table | <table border="0"> <tr> <td colspan="2">CNC-controlled</td> </tr> <tr> <td>Travels</td> <td>3.000 mm</td> </tr> <tr> <td></td> <td>2.000 mm</td> </tr> <tr> <td></td> <td>1.300 mm</td> </tr> </table> | CNC-controlled | | Travels | 3.000 mm | | 2.000 mm | | 1.300 mm |
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| | 2.000 mm | | | | | | | | |
| | 1.300 mm | | | | | | | | |

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|--|---|----------------|--|---------|-----------|--|----------|--|----------|------------|---------------------------|
| <ul style="list-style-type: none"> • Rigid bed- milling and boring mill | <table border="0"> <tr> <td colspan="2">CNC-controlled</td> </tr> <tr> <td>Travels</td> <td>10.000 mm</td> </tr> <tr> <td></td> <td>2.000 mm</td> </tr> <tr> <td></td> <td>1.000 mm</td> </tr> <tr> <td>Table size</td> <td>12.000 x 1.050 (1.950) mm</td> </tr> </table> | CNC-controlled | | Travels | 10.000 mm | | 2.000 mm | | 1.000 mm | Table size | 12.000 x 1.050 (1.950) mm |
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| Table size | 12.000 x 1.050 (1.950) mm | | | | | | | | | | |

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|---|---|----------------|--|---------|----------|--|----------|--|----------|------------|----------------|
| <ul style="list-style-type: none"> • CNC-milling- and drill center
TR 40
Tool changer
for 80 tools
Orthogonal milling head 1° x 1° | <table border="0"> <tr> <td colspan="2">CNC-controlled</td> </tr> <tr> <td>Travels</td> <td>4.000 mm</td> </tr> <tr> <td></td> <td>1.500 mm</td> </tr> <tr> <td></td> <td>1.200 mm</td> </tr> <tr> <td>Table size</td> <td>4.360 1.200 mm</td> </tr> </table> | CNC-controlled | | Travels | 4.000 mm | | 1.500 mm | | 1.200 mm | Table size | 4.360 1.200 mm |
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| | 1.200 mm | | | | | | | | | | |
| Table size | 4.360 1.200 mm | | | | | | | | | | |

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|---|--|----------------|--|---------|----------|--|----------|--|----------|------------|-------------------|
| <ul style="list-style-type: none"> • CNC-milling- and drill center
TR 45
Tool changer
For 80 tools
Orthogonal milling head 1° x 1° | <table border="0"> <tr> <td colspan="2">CNC-controlled</td> </tr> <tr> <td>Travels</td> <td>4.500 mm</td> </tr> <tr> <td></td> <td>1.500 mm</td> </tr> <tr> <td></td> <td>1.300 mm</td> </tr> <tr> <td>Table size</td> <td>4.860 x °1.200 mm</td> </tr> </table> | CNC-controlled | | Travels | 4.500 mm | | 1.500 mm | | 1.300 mm | Table size | 4.860 x °1.200 mm |
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| | 1.300 mm | | | | | | | | | | |
| Table size | 4.860 x °1.200 mm | | | | | | | | | | |

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|---|---|--------------------------|--|---------|----------|--|--------|--|--------|--|------|---------------|-------------------------------|
| <ul style="list-style-type: none"> • Universal milling center with rotary table
Table size Ø 1100 mm
Tool changer
For 92 tools | <table border="0"> <tr> <td colspan="2">CNC-controlled in 5 axes</td> </tr> <tr> <td>Travels</td> <td>1.000 mm</td> </tr> <tr> <td></td> <td>600 mm</td> </tr> <tr> <td></td> <td>500 mm</td> </tr> <tr> <td></td> <td>360°</td> </tr> <tr> <td>Spindle speed</td> <td>20 - 15.000 min⁻¹</td> </tr> </table> | CNC-controlled in 5 axes | | Travels | 1.000 mm | | 600 mm | | 500 mm | | 360° | Spindle speed | 20 - 15.000 min ⁻¹ |
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| | 600 mm | | | | | | | | | | | | |
| | 500 mm | | | | | | | | | | | | |
| | 360° | | | | | | | | | | | | |
| Spindle speed | 20 - 15.000 min ⁻¹ | | | | | | | | | | | | |

- Part weight up to 15t

LATHE

- Surfacing Lathe

CNC-controlled	
Part weight	3.200 kg
Turning diameter	
over bed	1.550 mm
over support	1.050 mm
turning length	1.000 mm

- Lathe

CNC-controlled	
Turning diameter	
over bed	400 mm
over support	225 mm
max. width	600 mm

Part weight up to 3,2t

ASSEMBLY

- Assembly hall

Area (2x)	35m x 12m, 20m x 12m
Cranes:	2 x 10t, 2 x 5t
	7,8m hook height each

Assembly of complete machines and plants incl.

Hydraulics
Pneumatics
Electrics
Controlling

Shop assembly
Site assembly

PAINT SHOP

- Painting system

	10m x 5m x 4m
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Spray painting with textured paint
Spray painting with smooth paint