



Machine Capacity

 **FREDRIKSONS**  
From One End to the Other



## TruLaser 3030 Fiber (L95)

*The TRUMPF TruLaser 3030 Fiber (L95) is a high-performance 2D fiber laser cutting machine designed for precise and efficient processing of sheet metal. Equipped with automated loading and unloading, it delivers high productivity, excellent cut quality, and reliable operation across a wide range of materials and thicknesses.*

### Axis Data – Maximum Axis Speeds

|                                 |           |
|---------------------------------|-----------|
| Maximum Simultaneous Axis Speed | 170 m/min |
| X-Axis                          | 120 m/min |
| Maximum Y-Axis Speed            | 120 m/min |
| Z-Axis                          | 80 m/min  |

### Axis Data – Maximum Axis Acceleration (Cutting)

|        |                    |
|--------|--------------------|
| X-Axis | 7 m/s <sup>2</sup> |
| Y-Axis | 7 m/s <sup>2</sup> |

### Axis Data – Maximum Axis Acceleration (Positioning)

|        |                     |
|--------|---------------------|
| X-Axis | 10 m/s <sup>2</sup> |
| Y-Axis | 10 m/s <sup>2</sup> |
| Z-Axis | 17 m/s <sup>2</sup> |

### Work Area – Workpiece Weight

|                                                                                             |         |
|---------------------------------------------------------------------------------------------|---------|
| Max. workpiece weight up to 6kW                                                             | 1100 kg |
| Max. Workpiece weight from 9kW on One Pallet<br>(with Heavy-Duty Pallet Changer)            | 1800 kg |
| Max. Combined Workpiece weight from 9kW on both pallets<br>(with Heavy-Duty Pallet Changer) | 2200 kg |
| Max. Workpiece Weight (with Heavy-Duty Pallets)                                             | 1800 kg |

### Consumption Values – TruFiber 9001

|                                             |                    |
|---------------------------------------------|--------------------|
| Average Power Consumption During Production | 14,5 kW            |
| Average Compressed Air Consumption          | 5m <sup>3</sup> /h |

### RotoLas

|                                  |       |
|----------------------------------|-------|
| Min. tube diameter/circumference | 20mm  |
| Max. Usable Chuck opening        | 165mm |
| Max. Positioning Deviation       | 0,03° |
| Backlash                         | 0,01° |



## Okuma MULTUS U3000 Multitasking Lathe Machine

*Okuma Multus U3000 is a multitasking lathe machine with a milling function which offers 5-axis simultaneous machining. This first-class machine has a broad scope of machining functions and is the embodiment of power, speed, and process flexibility. With this machine, you can complete the work in one setup and with tools to spare in the ATC.*

|                |                  |
|----------------|------------------|
| Max diameter   | Ø650mm           |
| Max length     | 1500 mm          |
| Speed          | 4200 rpm         |
| Spindle motor  | VAC 22/15 kw     |
| Tool magazine  | 80               |
| C-Axis control | 360° inc. 0,001° |

### **Spindle left**

|             |             |
|-------------|-------------|
| Speed range | 50-4200 rpm |
| Torque      | 427 Nm      |

### **Spindle right**

|             |             |
|-------------|-------------|
| Speed range | 50-4200 rpm |
| Torque      | 427 Nm      |

### **Milling spindle**

|               |           |
|---------------|-----------|
| Spindle speed | 12000 rpm |
|---------------|-----------|



## DMU 60eVlinear Universal Milling Machine

*DMU 60 eVo Linear models are simultaneous 5-axis machines equipped with an NC automatic swivel table. The models employ a bridge-type structure, ensuring high rigidity and stable machining for a long term. The machine is equipped with a 600x500mm working table and loading capacity up to 300kg. The model is suitable for machining medium size workpieces for various fields. The machine is also integrated with a PH- cell for automation of loading and unloading pallets with up to 40 pallets.*

|                       |               |
|-----------------------|---------------|
| X-, Y- and Z-axes     | 600x500x500mm |
| Weight                | 300kg         |
| Tool magazine         | 210 slots     |
| Positioning accuracy: | 0,005mm       |

### **Speeds X/Y/Z axis**

|                   |                    |
|-------------------|--------------------|
| Rapid traverse    | 80m/min            |
| Max feed          | 80m/min            |
| Acceleration      | 10m/s <sup>2</sup> |
| Chip to chip time | 5,5s               |

### **Main drive**

|                                              |               |
|----------------------------------------------|---------------|
| Integrated motor spindle SK50, spindle speed | 20-20 000 rpm |
| Power (40% duty cycle)                       | 35 kW         |
| Torque (40% duty cycle)                      | 130 Nm        |
| Wheel magazine                               | SK 40         |
| Integrated in milling head, spindle taper    | SK 40         |

### **PH-cell – Pallet loading and handling system**

|                   |         |
|-------------------|---------|
| Number of pallets | 40      |
| Pallet sizes      | 400x400 |
| Pallet weight     | 300kg   |



## Okuma LT2000 EX Multioperation lathe

*This Okuma LT2000 EX is a 4-axis 2-spindle multioperation lath. With the ability to combine the upper and lower turrets with either spindle, this machine enables process flexibility, very high feature utilization, and the ability to complete the greatest amount of primary and secondary machining possible in one compact platform.*

|                  |                  |
|------------------|------------------|
| Max diameter     | Ø210mm           |
| Number of axes   | 9                |
| Speed            | 5000 rpm         |
| C-Axis control   | 360° inc. 0,001° |
| Spindle motor    | VAC 22/15kw      |
| Double revolvers | 16+16 stations   |

### **Spindle left**

|             |             |
|-------------|-------------|
| Speed range | 50-5000 rpm |
| Torque      | 183 Nm      |

### **Spindle right**

|             |             |
|-------------|-------------|
| Speed range | 50-6000 rpm |
| Torque      | 183 Nm      |

### **Rotating tools (milling)**

|               |             |
|---------------|-------------|
| Spindle speed | 45-6000 rpm |
|---------------|-------------|

### **Bar feeder**

|                     |        |
|---------------------|--------|
| Spindle feedthrough | Ø 80mm |
|---------------------|--------|





## DMU 80 P duoBLOCK Universal Milling Machine

*DMU 80 P duoBLOCK is a universal milling machine which offers 5-axis machining at the highest level and unique performance features. It will increase the work piece accuracy with up to 30 %. The innovative wheel magazine provides the highest flexibility and productivity due to the fact that it can be retooled during machining. The machine is robotised from System 3R with a magazine of 24 palette locations.*

|                      |                         |
|----------------------|-------------------------|
| X-,Y-and Z-axes      | 800x1050x850 mm         |
| NC rotary table      | 40 rpm                  |
| NC rotary table size | Ø 950 mm                |
| NC rotary table load | max. 1500 kg            |
| Tool magazine        | HSK-A100 with 243 slots |

### **Distance from spindle centre to table**

|                         |                |
|-------------------------|----------------|
| Horizontal milling head | 50 to 900 mm   |
| Vertical milling head   | -300 to 750 mm |

### **Distance from spindle nose to table**

|                         |                |
|-------------------------|----------------|
| Horizontal milling head | -200 to 850 mm |
| Vertical milling head   | 150 to 1000 mm |

### **Main drive**

|                                              |                            |
|----------------------------------------------|----------------------------|
| Integrated motor spindle SK50, spindle speed | up to 12000 rpm            |
| Power (40 % duty cycle)                      | 52 kW                      |
| Torque (40 % duty cycle)                     | 430 Nm                     |
| Wheel magazine                               | SK 50                      |
| Integrated in milling head, spindle taper    | SK 50                      |
| Options                                      | Spindle taper for HSK-A100 |



## Okuma MA600H Horizontal Milling Machine

*Okuma MA600H delivers high productivity without compromising on accuracy. Our horizontal 4-axis milling machine is perfect for harder materials such as stainless steel alloys. A high-speed axis feed of 60m/min makes it both fast and stable. Okuma's double sleeve spindle cooling system balances the spindle head temperature to prevent deformation and ensure continuous, consistent accuracy.*

|                                 |                 |
|---------------------------------|-----------------|
| Working area: X-, Y- and Z-axes | 1000x900x1000mm |
| Pallet size                     | 630x630         |
| Max part dimension              | Ø1000x1000mm    |
| Tool magazine                   | 40 slots        |
| Weight                          | 1200kg          |
| Locking force                   | 80000N          |
| Positioning accuracy:           | 0,003mm         |

|                                              |             |
|----------------------------------------------|-------------|
| <b>Distance from spindle centre to table</b> |             |
| Horizontal milling head                      | 50 to 950mm |

|                                            |            |
|--------------------------------------------|------------|
| <b>Distance from spindle nose to table</b> |            |
| Horizontal milling head                    | 70-1070 mm |

|                   |             |
|-------------------|-------------|
| <b>Main drive</b> |             |
| Spindle speed     | 50-6000 rpm |
| Magazine          | ISO50       |



## Semi-automated Two-belt portal grinder - Kuhlmeyer

*Our Semi-automated Two-belt grinder has a unique possibility to automate grinding and polishing of stainless-steel parts with both high and repeatable quality. It can handle high surface demands and with specific grinding directions of smaller and bigger surfaces.*

### Technical specifications

|                    |            |
|--------------------|------------|
| Working area       | 3000mm     |
| Abrasive belt size | 120x9000mm |
| Max height part    | 1640mm     |
| Max weight table   | 150kg      |

### Positioner:

|        |        |
|--------|--------|
| Axle A | 0-135° |
| Axle B | 0-188° |
| Axle C | 0-360° |





## TruMatic 7000 FMC

### High-End Combination Machine

*TruMatic 7000 FMC is a high-end combination machine that meets the most stringent demands for part quality, productivity and flexibility.*

(XxY) working area in combination with  
punching and laser operation

3050x1550mm

Max. sheet thickness

8 mm (not at brushing table)

Max. punching force

220 kN

Max. weight on workpiece

280 kg

Xaxis

100m/min

Yaxis

60m/min

Simultaneous positioningspeed (X+Y)

116m/min

Stroke rate, punching

1000/min

Stroke rate, marking

ca 2800/min

Speed C axis, punching

330 rpm

Speed C axis, thread tapping

330 rpm

Linear store and ToolMaster

61 tool stations and 4 cant

Number of places when using MultiTool

upto 610 tools

Rotation of all tools

360°

Tools changing time

ca 0.3-2.8 sec

Max. punching diameter

120 mm

Max. diameter for shaping

25 mm

Conversion height

500x500mm

Max. size on workpieces in flapdoor

Position accuracy

±0.1 mm

Repeater accuracy

±0.03 mm



## TruBend 5050 Bending Machine

*Our new bending machine combines innovative technology with precision. It has an outstanding productivity - at every stage of the process, from programming and tool setup to the actual bending operation.*

|                                           |         |
|-------------------------------------------|---------|
| Pressforce                                | 500kN   |
| Bending length                            | 1275 mm |
| Usable installation height                | 385 mm  |
| Tilt of the press beam                    | ±10 mm  |
| Width between gables                      | 1040 mm |
| Depth of throat                           | 420 mm  |
| Table width                               | 100 mm  |
| Working height at a tool height of 100 mm | 1050 mm |

### **Speed Y axis**

|               |           |
|---------------|-----------|
| Rapid speed   | 220mm/sec |
| Working speed | 10mm/sec  |
| Return        | 220mm/sec |

|                              |            |
|------------------------------|------------|
| Number of axis in allocation | 5          |
| Speed X axis                 | 1000mm/sec |
| Speed R axis                 | 330mm/sec  |

### **Position accuracy of the axis**

|        |           |
|--------|-----------|
| Y axis | ±0.005 mm |
| X axis | ±0.04 mm  |
| R axis | ±0.08 mm  |

|                       |        |
|-----------------------|--------|
| Stroke length, Y axis | 215 mm |
| X axis                | 600 mm |
| Weight                | 4900kg |



## TruBend Cell 5000

### Bending Cell

*The automated bending cell offers high output and flexible solution for the widest possible range of parts. Depending on the application, the productivity increases 15-25 %.*

|                                  |         |                              |            |
|----------------------------------|---------|------------------------------|------------|
| Press force                      | 2300 kN | <b>Speed Y axis</b>          |            |
| Bending length                   | 4250 mm | Rapid speed                  | 220mm/sec  |
| Usable installation height, max. | 615 mm  | Working speed                | 10mm/sec   |
| Tilt of the press beam           | ±10 mm  | Return                       | 220mm/sec  |
| Width between gables             | 3680 mm | Number of axis in allocation | 6          |
| Depth of throat                  | 420 mm  | Speed X axis                 | 1000mm/sec |
| Table width                      | 120 mm  | Speed R axis                 | 330mm/sec  |

#### Position accuracy of the axis

|        |           |
|--------|-----------|
| Y axis | ±0.005 mm |
| X axis | ±0.04 mm  |
| R axis | ±0.08 mm  |

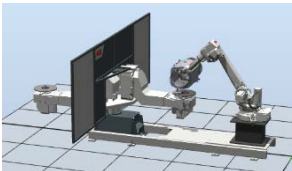
|                                  |        |
|----------------------------------|--------|
| Stroke length, Y axis            | 445 mm |
| X axis                           | 600 mm |
| Max. X length                    | 860 mm |
| R axis                           | 250 mm |
| Max. weight of plate, BendMaster | 40 kg  |
| Transfer BendMaster              | 10m    |
| Numbers of changing places       | 2      |

|        |         |
|--------|---------|
| Weight | 19500kg |
|--------|---------|

| Machine                                                                                                                            | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLATE DIVISION</b>                                                                                                              |           |           |           |                                                                                                                                                                                                                                                                                  |
| Combination machine: Trumpf TruMatic 7000 FMC<br> | 3050      | 1550      | 6         | Max thickness: 6 mm<br>For further information, see page 3                                                                                                                                                                                                                       |
| Bending machine: Trumpf TruBend 5050<br>          | 1275      |           |           | Max pressure: 50 tons<br>For further information, see page 4                                                                                                                                                                                                                     |
| Bending cell: Trumpf TruBend 5000<br>             | 4250      |           |           | Max pressure: 230 tons<br>For further information, see page 5                                                                                                                                                                                                                    |
| TruLaser 3030 fiber (L95)<br>                   | 3048      | 1524      |           | Max. Laser effect : 9000W<br>Max. structural steel O <sub>2</sub> : 25mm<br>Max. thickness stainless steel N <sub>2</sub> : 30mm<br>Max. thickness aluminum N <sub>2</sub> : 25mm<br>Max. thickness copper O <sub>2</sub> : 12,7mm<br>Max. thickness brass N <sub>2</sub> : 10mm |
| Edging press: Ursviken Optima 400<br>           | 5100      | 1000      |           | Max pressure: 400 tons                                                                                                                                                                                                                                                           |
| 2 x Burringmachine: FladderAut-1000 VAC<br>     | 900       | 1000      |           |                                                                                                                                                                                                                                                                                  |
| Swebend PB4-6-3, CNC rolling machine<br>        | 1050      |           |           | Max thickness: 6mm<br>Roll Ø140                                                                                                                                                                                                                                                  |
| Round press: Roundo Pass 150<br>                | 1500      |           |           | Max thickness: 4 mm Min R: 100 mm                                                                                                                                                                                                                                                |

| Machine                                                                                                                       | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                       |
|-------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|----------------------------------------------|
| Length welding: HN Automatic<br>             |           |           |           | Weldspipes upto 1400 mm                      |
| Nut and bolt press: Haeger 824WT-3H<br>      |           |           |           |                                              |
| <b>SURFACE FINISHING</b>                                                                                                      |           |           |           |                                              |
| Shot blast machine: Schlick HB 12/16<br>    | 1200      | 1600      | 1250      | Max weight: 800kg                            |
| Trowal: Walther Trowal CD 300<br>          | 3080      | 1500      |           | Volume: 350 litres                           |
| Semi-automated Two-belt portal grinder<br> | 3000      |           |           | Max weight: 150kg<br>See specification above |
| Shot blast machine for inside blasting<br> | 2500      | 2000      | 3500      | Max weight: 300kg<br><br>Media: Glass shoot  |



| Machine                                                                                                                                                                                                                 | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------|
| <b>WELDING</b>                                                                                                                                                                                                          |           |           |           |                                                                                                                           |
| Robot Station:ABBIRB 4600<br>                                                                                                          |           |           |           | Max reach: 2510 mm<br>Maxpayload:20kg<br>CMT – welding equipment                                                          |
| RobotWelder:ABBIRB 2600-12/1,85<br>                                                                                                    | 1450      | 1450      | 1000      | Axes: 6<br>Max reach: 1650 mm<br>2x positioner IRB 750B<br>Max weight: 750kg                                              |
| Spot Welder:ARO 72500<br>                                                                                                             |           |           |           | Stationary spot welder - 8+8 mm stainless, B-class.                                                                       |
| Robot Weld: ABB IRB 4600-20/2,5 + IRBP A2000<br>  | 2900      | 2900      |           | Max reach: 2510<br>+ Laser tracking system<br>CMT – welding equipment<br>Max Payload positioner: 2000kg<br>Radius 1450 mm |
| Robot Weld: ABB IRB 2600-12/1,85<br>                                                                                                 |           |           |           | Max reach: 1650<br>2x IRBP 1000L stand (Rotation table)<br>FORCETIG – welding equipment                                   |
| Robot weld: ABB IRB 1600-6/1,45<br>                                                                                                  |           |           |           | Max reach: 1450<br>IRBP 1000L stand (Rotation table)<br>CMT – welding equipment                                           |
| Robot weld: ABB IRB 2600-12/1,85<br>              | 1450      | 1450      | 1000      | Max reach: 1650<br>IRBP 750A<br>TIG hotwire – welding equipment                                                           |
|                                                                                                                                                                                                                         |           |           |           |                                                                                                                           |

| Machine                                                                                                                                          | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|---------------------------------------------------------------------------------------------------|
| <b>CNC</b>                                                                                                                                       |           |           |           |                                                                                                   |
| DMGMori Seiki DMU 80 PduoBLOCK<br>Universal Milling Machine<br> | 800       | 1050      | 850       | Axis: 5<br>Speed range: max. 12000rpm<br>For further information, see above.                      |
| MoriSeiki NMV 3000 DCG<br>with System 3R Workmaster<br>         | 500       | 350       | 510       | Axis:5<br>320 tools Robot handle 20000 rpm<br>Turning: 2000 rpm<br>Measuring system: Laser, probe |
| DMU 60 eVo linear + PH cell<br>                               | 600       | 500       | 500       | Axis:5<br>Tools: 120<br>20000 rpm<br>For further information see above.                           |
| Okuma MULTUS U3000<br>                                        | 650       | 650       | 1500      | Axis:5<br>80 tools, milling<br>Spindle speed<br>Turning: 4200<br>Mill: 12000                      |

| Machine                                                                                                                        | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| Okuma LT2000 EX<br>                           | 210       | 210       |           | Speed:<br>5000RPM<br>2x revolver                                                                                                         |
| Multitasking machine: Mazak VTC-300 MK-II<br> | 1660      | 760       | 660       | CNC-controlled, 48 tools,<br>12000 rpm<br>Mazatrol system 640 M                                                                          |
| Multitasking machine: Mazak SQT-250MS<br>     | 300       |           | 500       | Max. 1 and 2 spindle speed: 4000 rpm<br>12+12 tools, milling, drilling. CNC controlled<br>Mazatrol system 640 T                          |
| Multitasking machine: Mazak FH 6800<br>      | 1500      | 880       | 800       | 35 kW<br>Mazatrol system<br>2 pallets<br>80 tools<br>10000 rpm                                                                           |
| Cutting machine: Mazak Nexus 250 MSY<br>    | 300       | yes       | 500       | 4500 rpm spindle speed<br>Max 1 and 2 spindle speed: 4000 rpm 12+12<br>tools, milling, drilling. CNC controlled<br>Mazatrol system 640 T |
| Okuma MA600H<br>                            | 1000      | 900       | 1000      | Horizontal<br>Speed: 6000 rpm<br>40 tools<br><br>For further info, see above                                                             |

| Machine                                                                                                                  | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                           |
|--------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------------------------------------------|
| Kern CD 650<br>                         | 300       | 300       |           | Speed: 4500RPM<br>CNC controlled                 |
| Feeler QM 40SA<br>                      | 1000      | 500       | 500       | 10000 rpm<br>24 tools<br>3 axes<br>NC-controlled |
| Milling machine: Nicolas Corea A 25<br> | 300       | 1000      | 1500      | 30 rotating tools<br>3 axes<br>Turnable head     |
| Cutter: Kasto win A3.3<br>             |           |           |           | Extremely<br>powerful<br>cutter: 400x<br>400     |

| Machine                                                                                                                                 | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Spinning Machine</b>                                                                                                                 |           |           |           |                                                                                                                                                                 |
| Spinningmachine: LEIFELDSC 212AR<br>                   | 1300      | 1000      |           | Aluminium: 15 mm<br>Mild steel: 12 mm<br>Stainless: 8 mm                                                                                                        |
| CNCSpinner Lathes: Zenn 160<br>                        | 1750      | 1750      |           | Aluminium: 10 mm<br>Mild steel: 8 mm<br>Stainless: 6 mm                                                                                                         |
| <b>Quality</b>                                                                                                                          |           |           |           |                                                                                                                                                                 |
| CorrdinateMesuringMachine:<br>CRYSTA-APEX 121210<br> | 1250      | 3005      | 1100      | Mesuring accuracy: 2.3 µm<br>Max speed: 520 mm/sec<br>Ability to scan objects to make drawings                                                                  |
| Coordinate Mesuring Projector: PJ-A3000<br>          | 200       | 100       |           |                                                                                                                                                                 |
| 2x Faro Platinum measuring arm<br>                   |           |           |           | Measuring accuracy: 0.025 mm/m<br>Measuring volume: 2.4 m<br>6 axle digitalization arm for coordinate measuring in 3 dimensions<br>Mobile for use in production |
| Renishaw Equator gauging system<br>                  | 300       | 300       | 150       | Gauging measuring system<br>Comparison accuracy: 0,002mm                                                                                                        |



| Machine                                                                                                                                   | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------------------------------------------------|
| <b>Others</b>                                                                                                                             |           |           |           |                                                     |
| Aluminum cutter: Elsele VMS 300<br>                      |           |           |           |                                                     |
| Burring machine: Grindingmaster MCSB-600<br>             | 1000      |           |           |                                                     |
| Automatic cutting machine:<br>Emmegi 550 Automatica<br> |           |           |           | Max diameter: 200 mm                                |
| Press: Stenhöjd 100<br>                                |           |           |           | Max pressure: 100 tons                              |
| Press: Nymek BWP 30 H<br>                              |           |           |           | Max pressure: 30 tons<br>C press                    |
| Cutting machine: Kasto Twin A3<br>                     | 3000      | 1000      | 320       | Programmable in 99 programs<br>Max diameter: 320 mm |

| Machine                                                                                                                                  | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|---------------------------------------------------------------|
| Tube bending machine: BLM NC 842<br>                    |           |           |           | CNC<br>8-42x2.5 pipes                                         |
| Tube bending machine: Tauring D<br>                     |           |           |           |                                                               |
| Tube bending machine: Herber HBN-50<br>                |           |           |           | 8-52 mm                                                       |
| Inficon – Sentrac Strix (Hydrogen leak detection)<br> |           |           |           | Minimum detectable leak: $5 \times 10^{-7}$ mbarl/s<br>Mobile |

| Machine                                                                                                           | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                        |
|-------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------------------------------------------------------------------------------------------|
| <b>Fredriksons Industry (Suzhou) Co., Ltd - China</b>                                                             |           |           |           |                                                                                               |
| Mazak Variaxis 730-5x II CNC<br> | 730       | 850       | 790       | Mazatrol system<br>Two pallets<br>40 tools<br>10.000 rpm                                      |
| Laser: Trulaser 3030<br>         | 3080      | 1500      |           | 4000 W<br>Mild steel: 20 mm<br>Stainless: 15 mm<br>Aluminium: 10 mm<br>Robot handle           |
| Laser: Trumatic L3050<br>       | 3080      | 1500      |           | 6000 W<br>Mild steel: 30 mm<br>Stainless: 25 mm<br>Aluminium: 15 mm<br>Robot handle           |
| 2 x Press brake Yawei<br>      | 265       | 315       |           | Work force: 300 tons<br>Table length: 3100 mm<br>Table height: 980 mm<br>Block travel: 315 mm |
| Burringmachine: Fladder<br>    | 5000      | 1000      |           |                                                                                               |
| Drawbench machine: JH310<br>   |           |           |           | 28kW<br>850 rpm                                                                               |
| Drawbench machine<br>          |           |           |           | 600 rpm                                                                                       |

| Machine                                                                                                      | X<br>(mm) | Y<br>(mm) | Z<br>(mm) | Others                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------|
| Punchingmachine<br>         |           |           |           | 63kN                                                                                                                       |
| Tube bending: Tauring D<br> |           |           |           |                                                                                                                            |
| Tube bending machine<br>    |           |           |           |                                                                                                                            |
| Vertical driller<br>       |           |           |           | Max drilling diameter: 50 mm                                                                                               |
| Tabledriller<br>          |           |           |           | Max drilling diameter: 13 mm                                                                                               |
| Round cutting machine<br> |           |           |           | Low speed: 52 rpm<br>High speed: 100 rpm                                                                                   |
| Cutting machine<br>       |           |           |           | Max degree: 90<br>BAR: 110 mm<br>Square: 100x150 mm<br>Speed: 20/30/50 m/min                                               |
| Oil press machine<br>     |           |           |           | Work force: 50 tons<br>Max stroke: 350 mm<br>Table size: 600 x 700 mm<br>Downspeed: 0.9 - 8.8 m/min<br>Up speed: 4.9 m/min |



Fredriksons Verkstads AB, established in Vadstena 1917, is a modern engineering industry. The main part of the turnover is contract manufacturing of small to middle-sized series, for the food, medical technical and engineering industry.

Fredriksons is working with construction, prototype manufacturing and technical documentation. We also manufacture and construct our own products, namely conveyor systems to the food and pharmaceutical industry.

In 2006 Fredriksons established a subsidiary in Suzhou, close to Shanghai in China. Fredriksons Industry (Suzhou) Co., Ltd. started production in April 2008. In Suzhou we support our customers in their business opportunities in Asia.

Fredriksons has about 300 employees. We are third party certified in ISO 9001, 14001, 13485 and 3834-2.

Fredriksons has been a member of XANO Industri since 2006.

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