

Forging shop and Machining

Olomouc plant

Technology

FORGING LINES

1x LZK 4000 ŠMERAL
- Crank press with forging force 40 MN with induction heating and automatic billet temperature sorting machine

1x LZK 4000 ŠMERAL + forging rolls EUMUCO RW1a
- Crank press with forging force 40 MN with induction heating and automatic billet temperature sorting machine
- The line includes machine RW1 for pre-forging of long semi-finished products

LZK 2500 ŠMERAL

Crank press with forging force 25 MN with induction heating and automatic billet temperature sorting machine

LL 1000 ŠMERAL
- Cold calibration press for higher precision forgings

EK 13 DIGÉP
- Line suitable also for processing austenitic steels has been put back into operation.
- Counterblow hammer with an impact energy of 130 kJ
- Gas oven for heating of non-magnetic steels



Forging rolls EUMUCO RW1a

- Component of the line LZK 4000
- Machine for optimal preforming of semifinished products
- Forgings with significant cross-section differences along the length
- It enables the production of more geometrically complex forgings



HEAT TREATMENT

Annealing electric chamber furnaces 3 x
- Normalising (+N)
- Soft annealing (+A)
- BG annealing
- Ferit Perlit normalising
- Controlled cooling technology from forging temperature (+BY)
- Quenching and tempering (+QT) – in Uničov plant

Machining shop

- Own tooling and jigs development
- SERIAL MACHINING OF FORGINGS AND CASTINGS
- Turning max. product diameter 500 mm
- Milling max. dimension 600 mm x 500 mm

MACHINING SHOP EQUIPMENT

CNC TURNING LATHES

- Kovosvit SP430Y
- Kovosvit SPT32
- Doosan Puma GT3100M
- Cincinnati Hawk 250
- 2x FAMAR Pronto 3 – the vertical turning center

CNC MILLING MACHINES

5 axes CNC milling centres

- Hedelius Acura65
- DMG Mori DMU60

3 axes CNC milling centres:

- DMG Mori DMF250
- DMG Mori DMC835
- Brother TC 32QT – the vertical dual-pallet milling center



Hedelius Acura 65

- Travels (X / Y / Z): 700 × 650 × 600 mm
- Max. table load: 500 kg

- Key advantage: Compact footprint with high rigidity due to the dual-supported tilt-swivel table, ideal for precise 5-axis machining.



DMG Mori DMU 60 monoBLOCK

- Travels (X / Y / Z): 630 × 560 × 560 mm
- Max. table load: 500 kg

- Key advantage: Exceptionally rigid monoBLOCK construction delivering maximum stability and accuracy for complex 5-axis machining.



DMG Mori DMC 835 V

- Travels (X / Y / Z): 835 × 510 × 510 mm
- Max. table load: 800 kg

- Key advantage: High table load capacity and proven reliability for efficient, high-performance 3-axis milling.



Brother TC 32

- Travels (X / Y / Z): 550 × 400 × 415 mm
- Max. table load: 200 kg

- Key advantage: Extremely fast tool changes and rapid feed rates optimized for ultra-high productivity



Kovosvit SP 430 Y

- Travels (X / Z / Y-axis): 300 × 1500 mm / Y: ±50 mm
- Max. table / chuck load: 600 kg (between centers)

- Key advantage: Heavy-duty turning capacity paired with Y-axis capability for full off-center milling and complex multi-operation turning.



Cincinnati Hawk 250

- Travels (X / Z): 245 × 540 mm
- Max. table / chuck load: ~200–250 kg

- Key advantage: Compact, high-rigidity CNC lathe with user-friendly operation, perfect for fast and accurate small-to-medium batch turning.



Doosan Puma GT3100M

- Travels (X / Z): 260 × 830 mm
- Max. table / chuck load: 650 kg (between centers)

- Key advantage: Powerful torque output and box-way rigidity designed for heavy-duty cutting and high-productivity turning with live tooling.



FAMAR Pronto 3

- Travels (X / Z): 700 × 250 mm
- Max. table / chuck load: 150 kg (workpiece weight)

- Key advantage: Pick-up vertical turning center architecture where the spindle loads/unloads workpieces automatically, minimizing cycle times in high-volume production.



Suspension / Securing



Complex parts



Towing segment



Transmissions / Drives



Drives / Chassis



Hydraulic / connecting parts



Railway and others



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