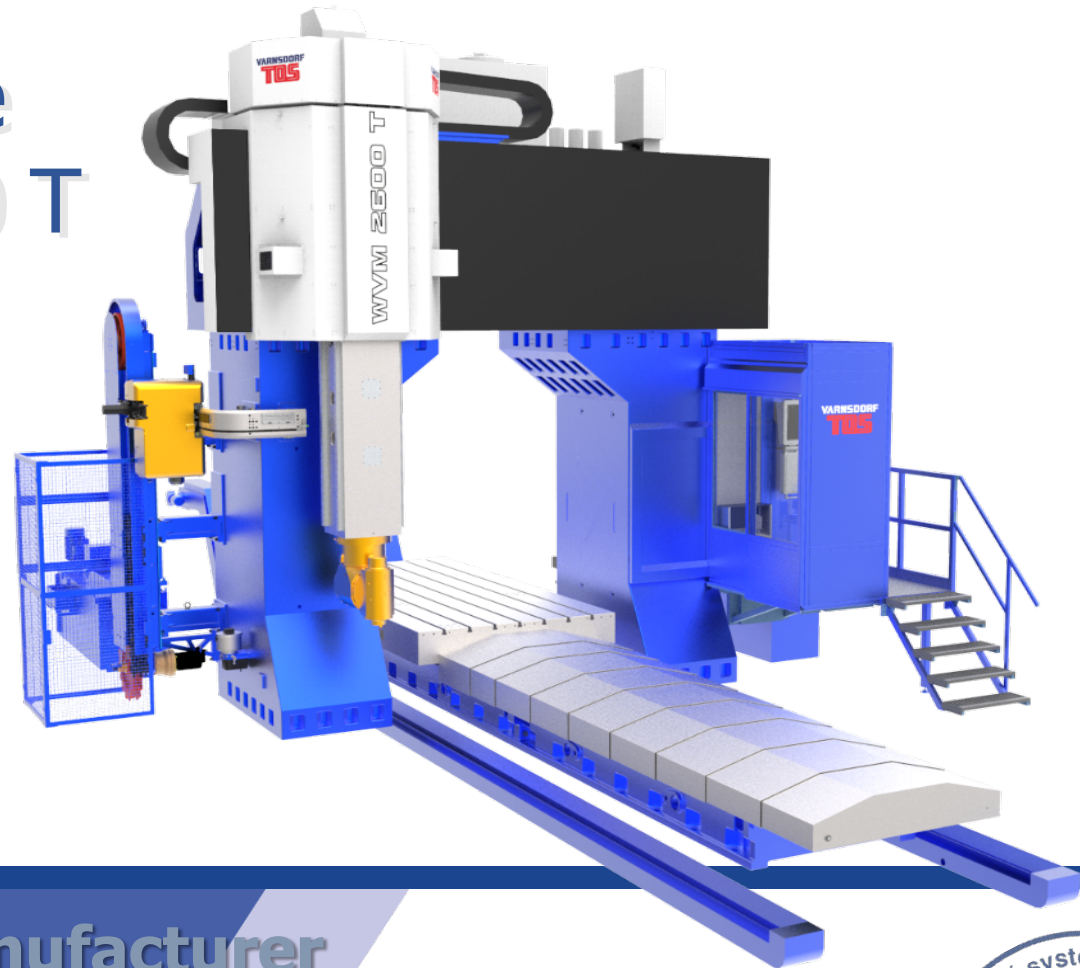


Portal machine WVM 2600/3600 T

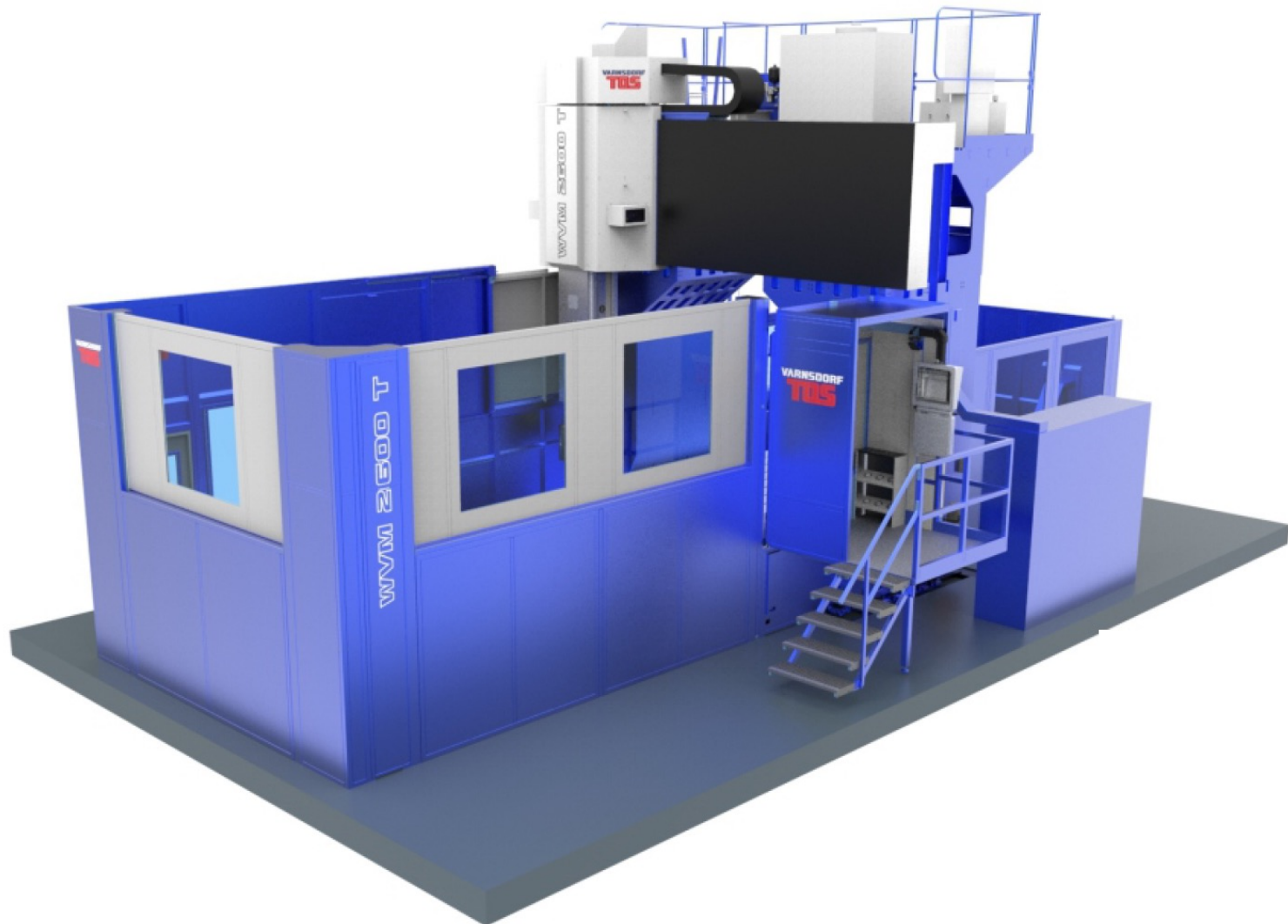


Milling machine manufacturer

TOS VARNSDORF a.s.



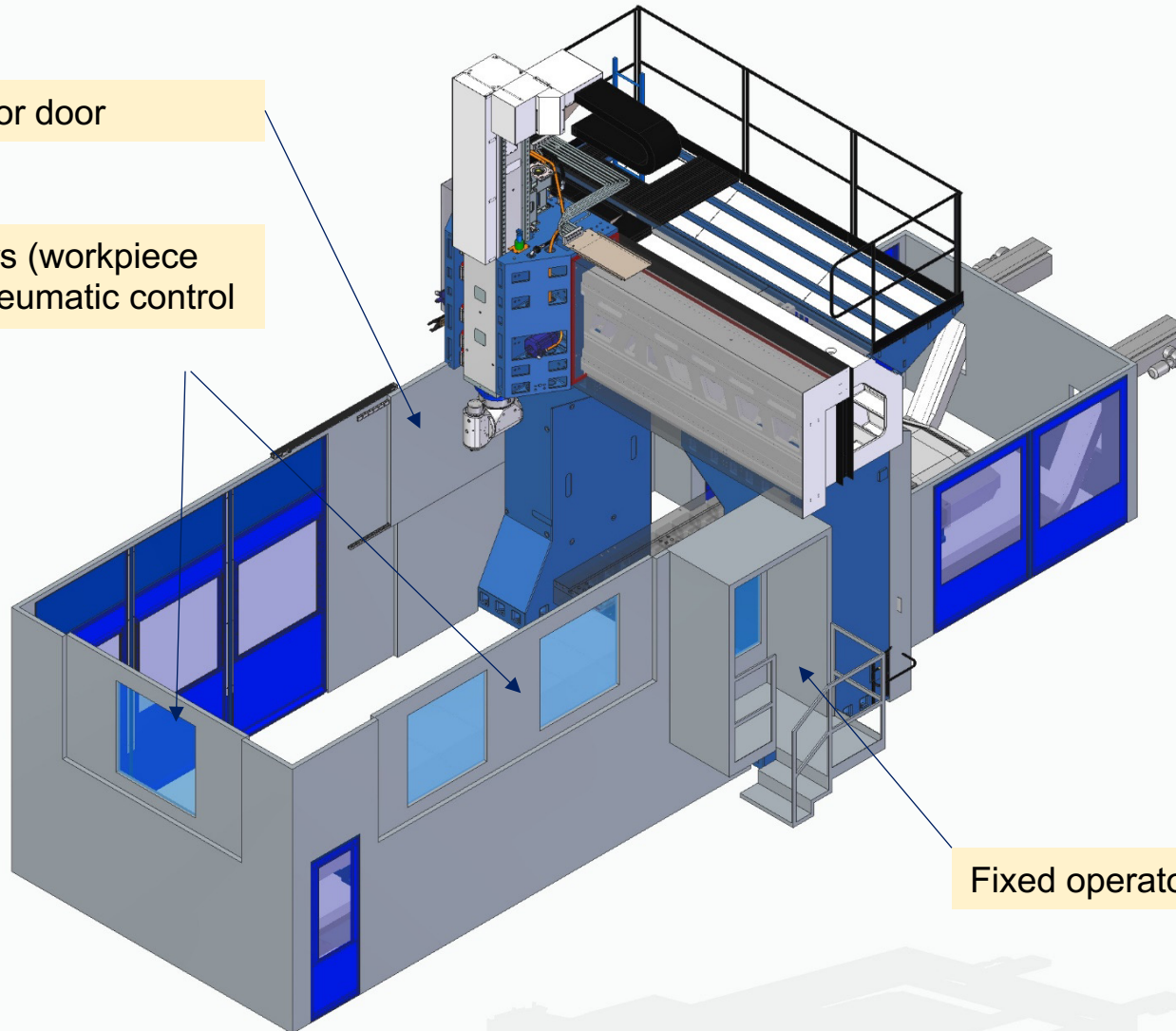
Basic machine design with covering



Basic machine design with covering

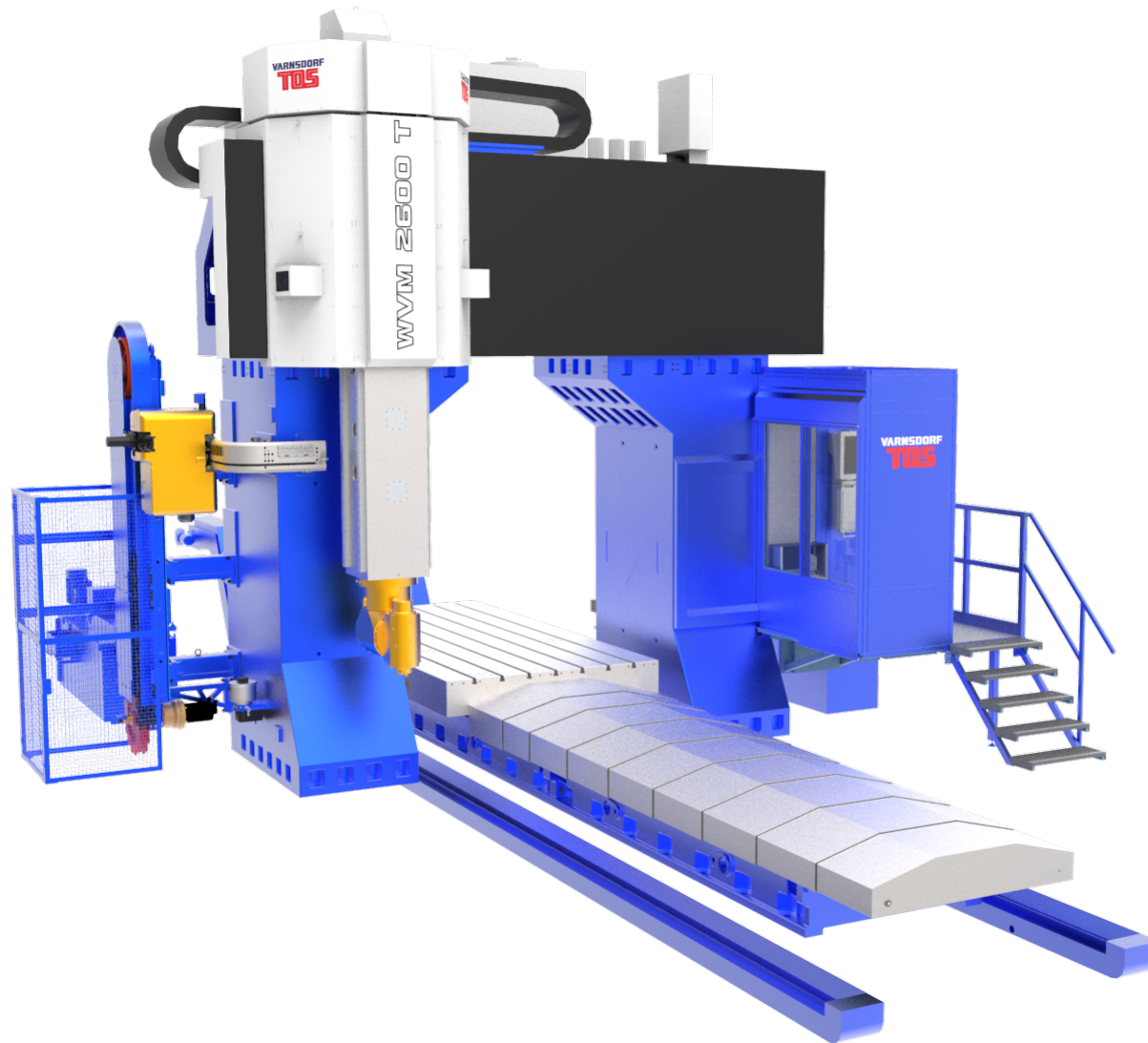
Tool manipulator door

Moveable doors (workpiece transport) – pneumatic control

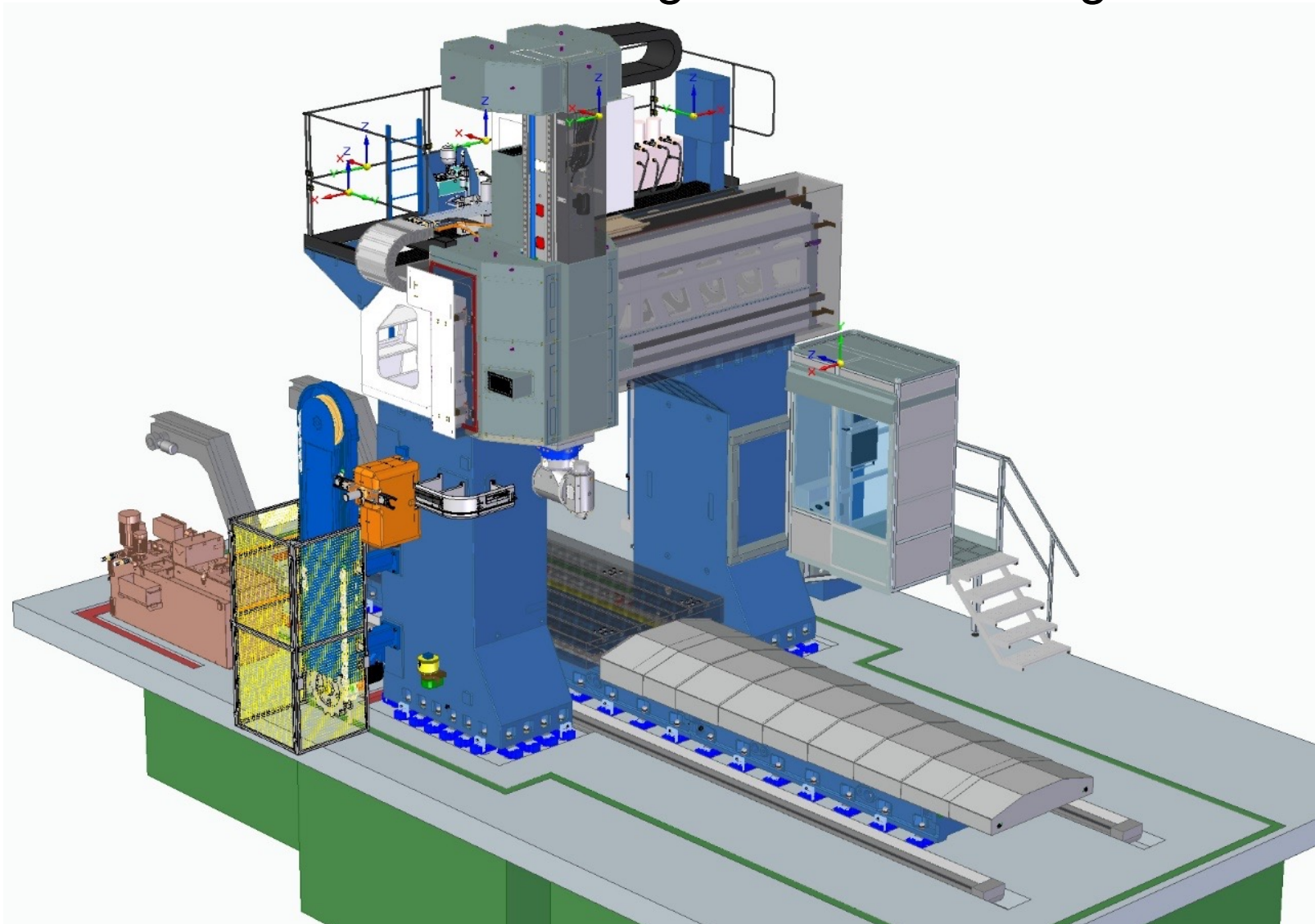


Fixed operator's platform

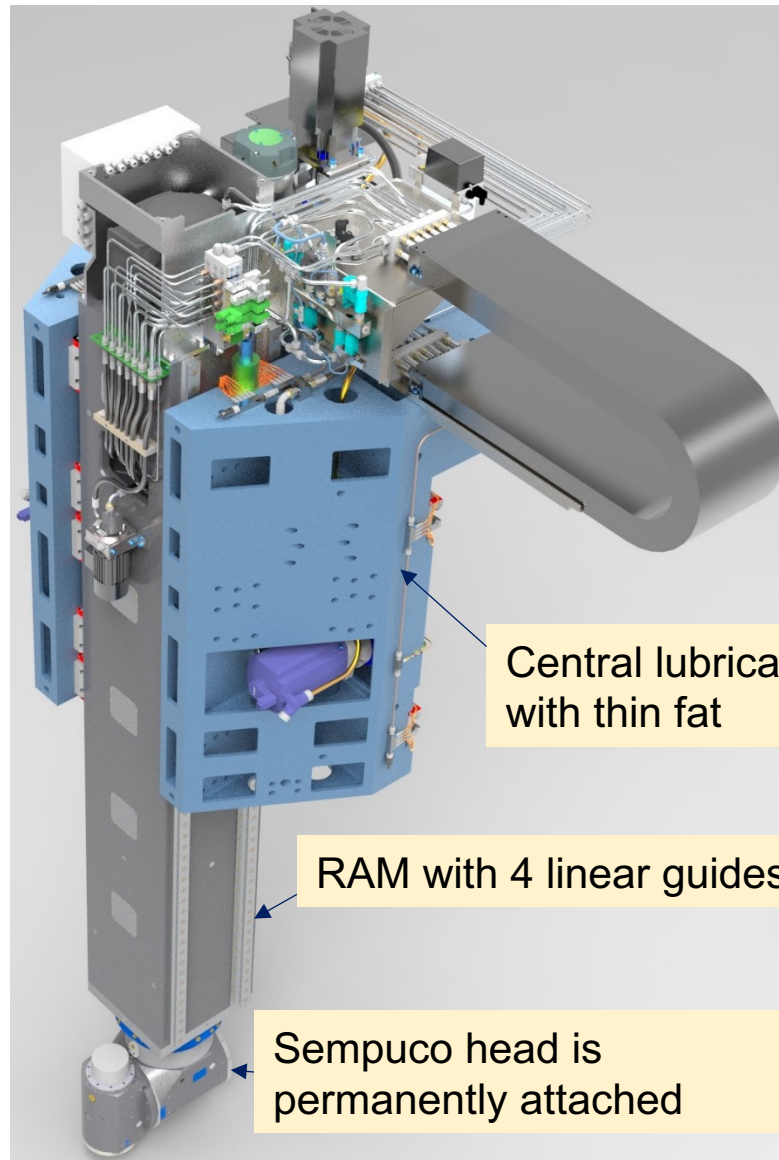
Basic machine design without covering



Basic machine design without covering



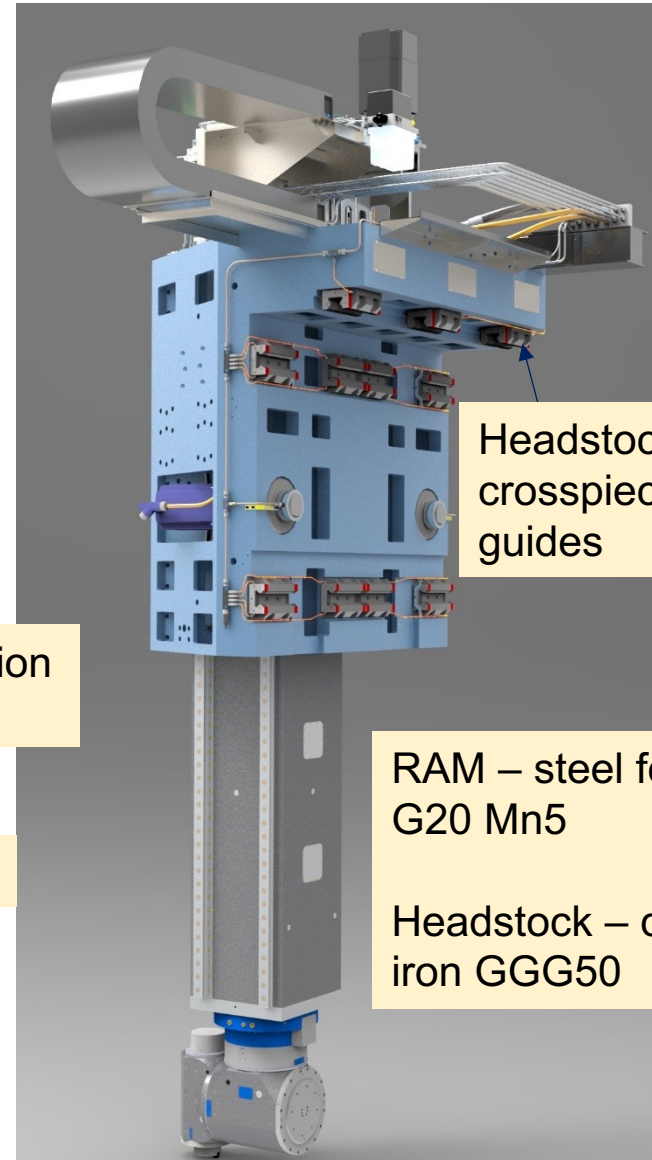
Machine design - Headstock



Central lubrication
with thin fat

RAM with 4 linear guides

Sempuco head is
permanently attached

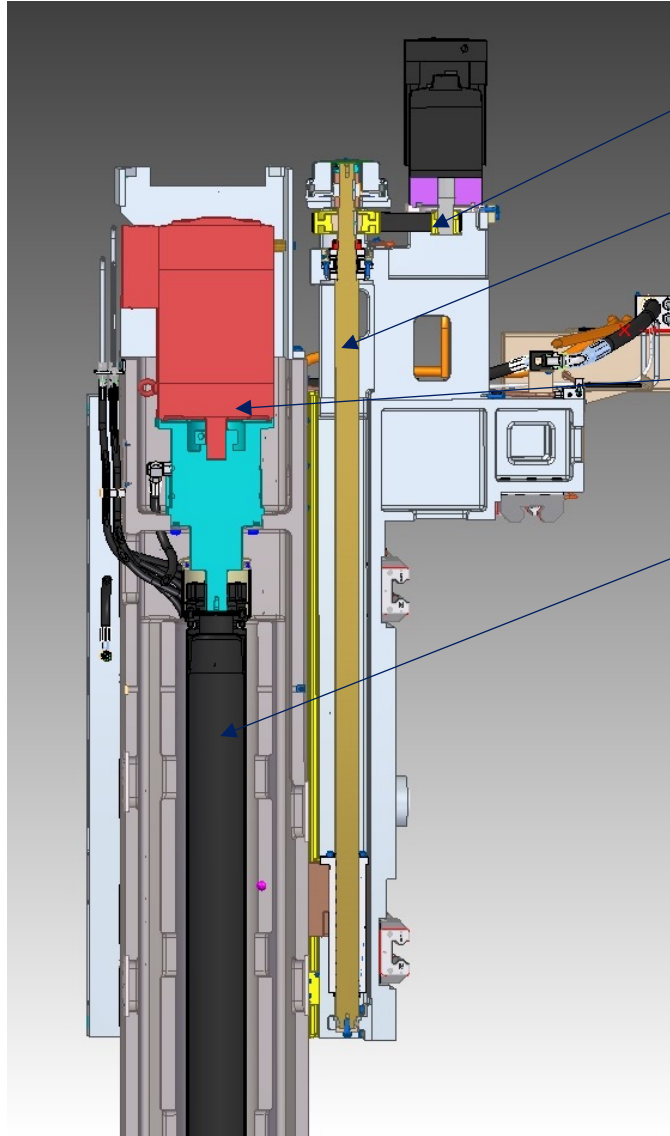


Headstock on
crosspiece on 3 linear
guides

RAM – steel for castings
G20 Mn5

Headstock – ductile cast
iron GGG50

Machine design - RAM



Belt drive of Z-axis

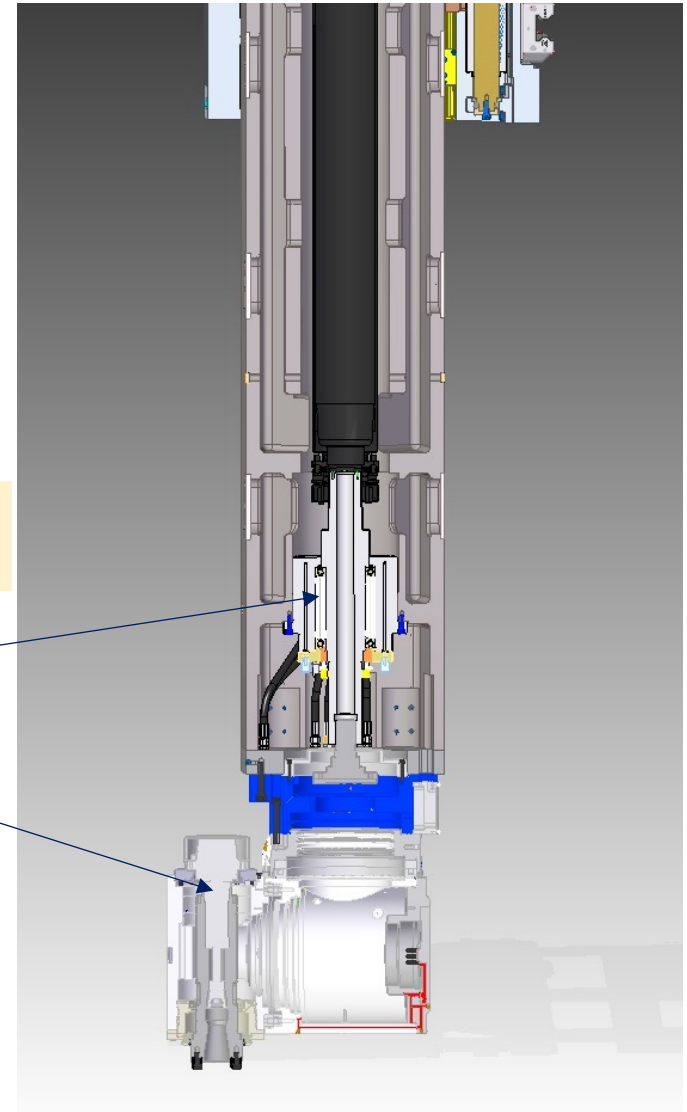
Ball screw of Z-axis

Main motor and gearbox

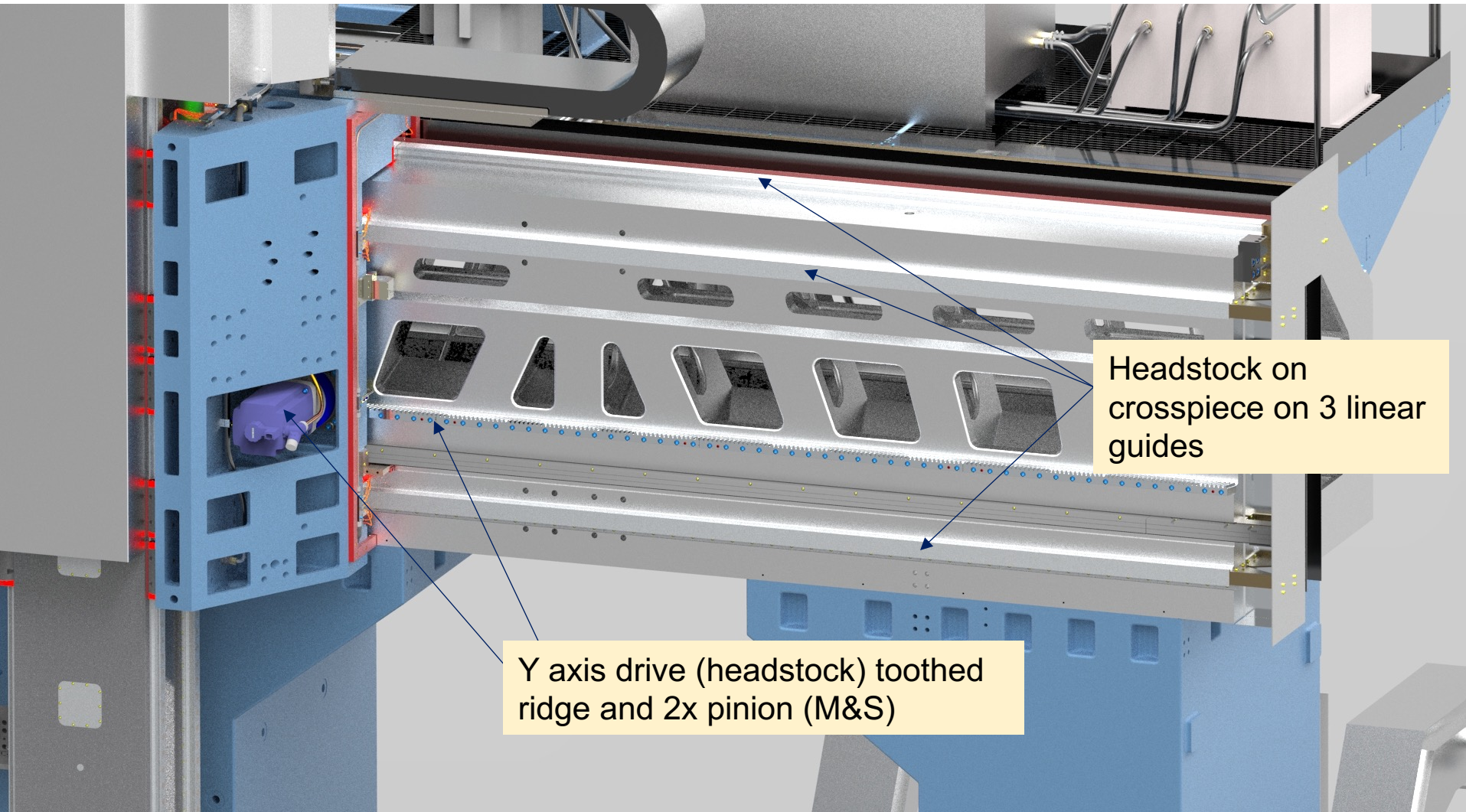
Drive shaft –
composite, carbon fiber

Shaft bearing with
hydraulic brake

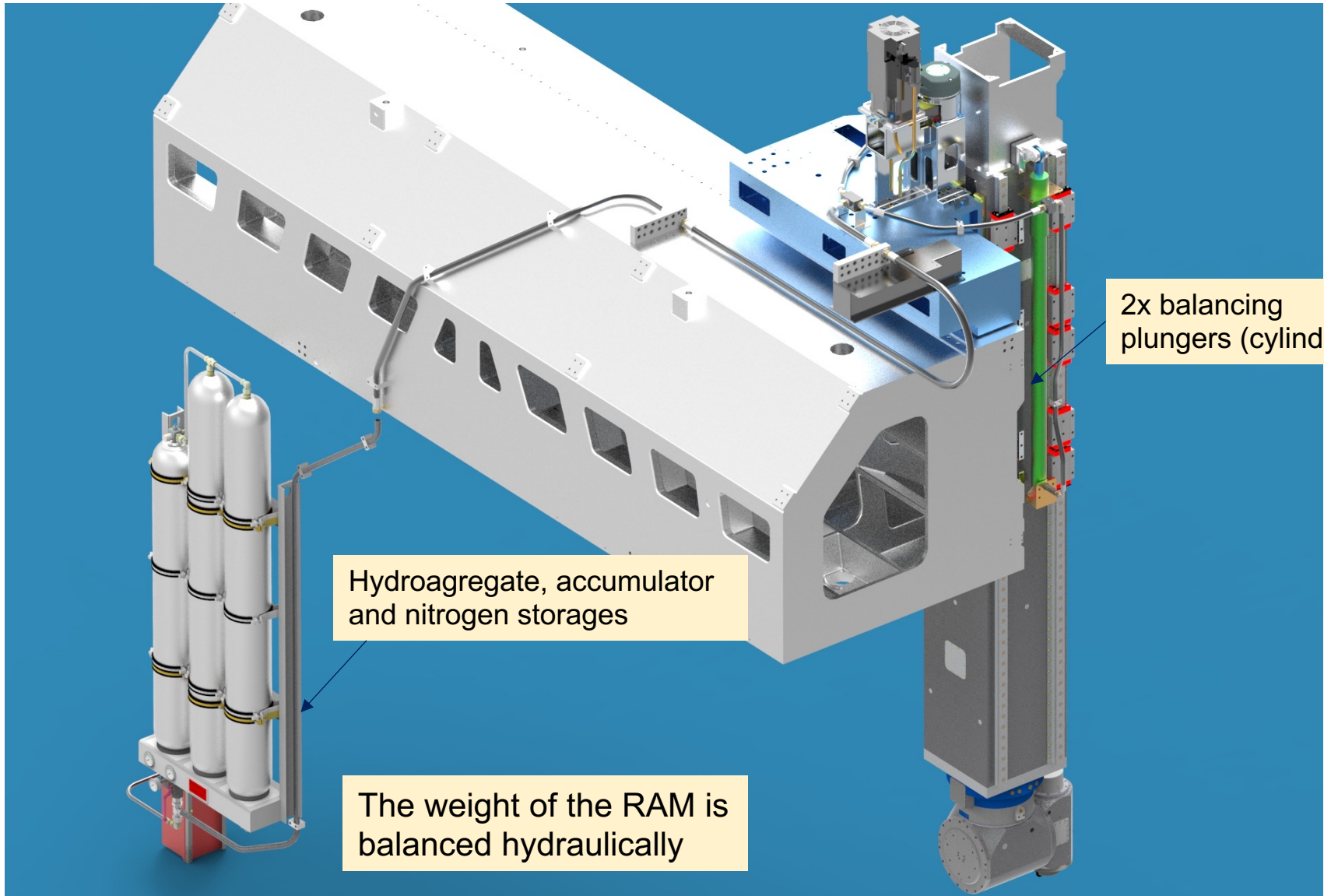
Milling head
SEMPUCO KFU D4-90-X:
orthogonal 2x1°;
5 000 RPM
1 200 Nm
40 kW



Machine design - Headstock guide on crosspiece



Machine design - Hydraulic supply to plunger of RAM balancing



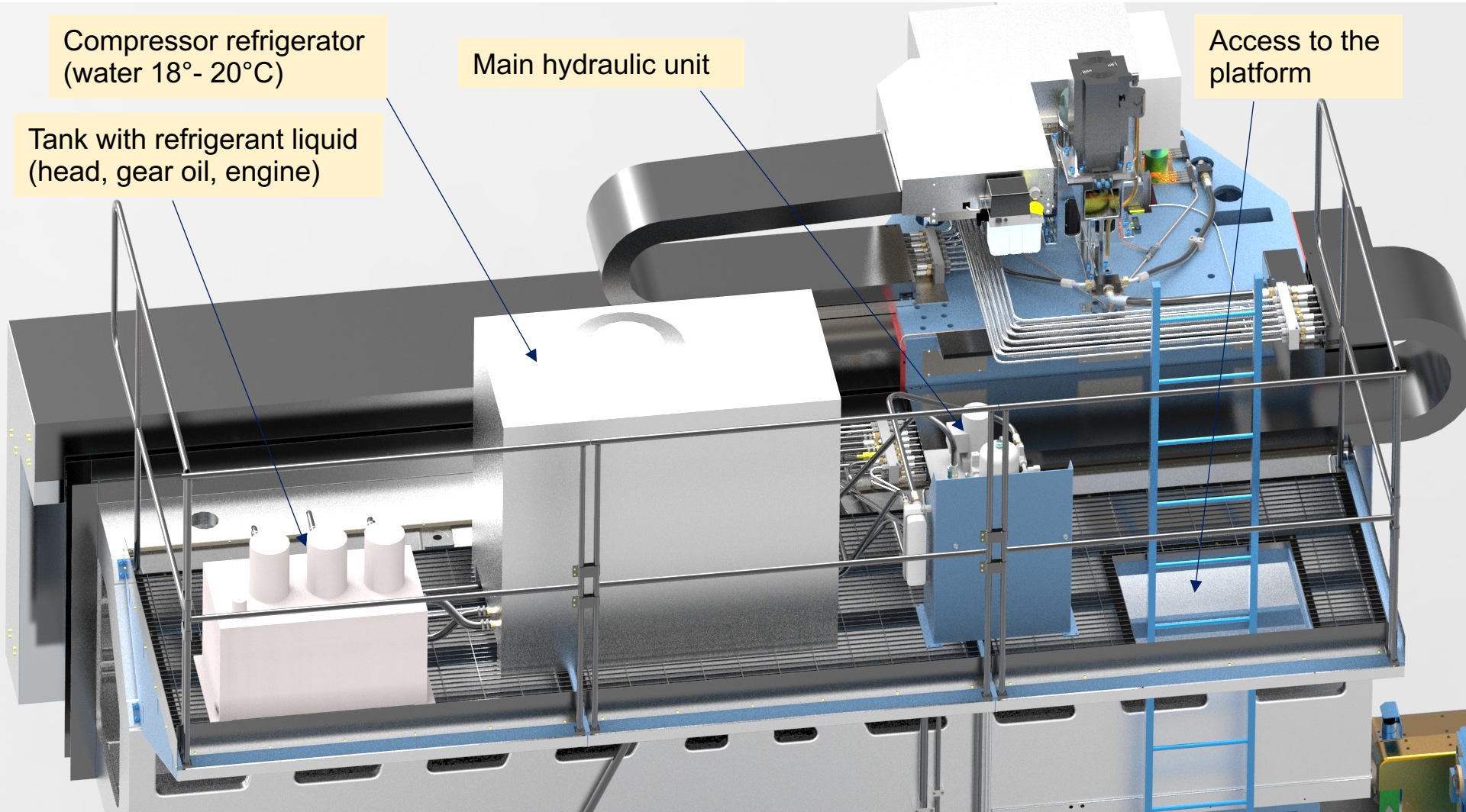
Machine design - arrangement of peripherals

Compressor refrigerator
(water 18° - 20°C)

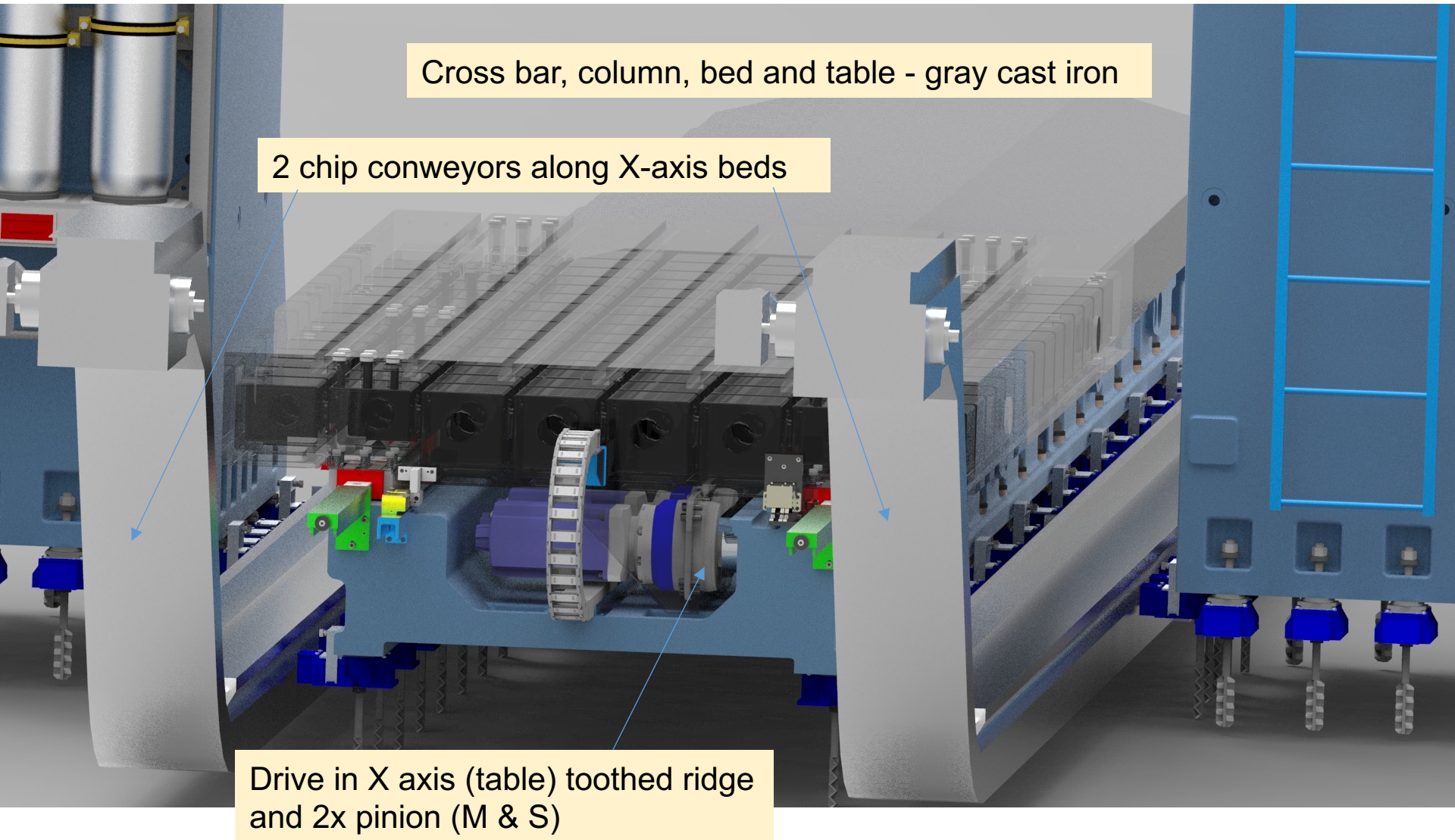
Main hydraulic unit

Access to the
platform

Tank with refrigerant liquid
(head, gear oil, engine)

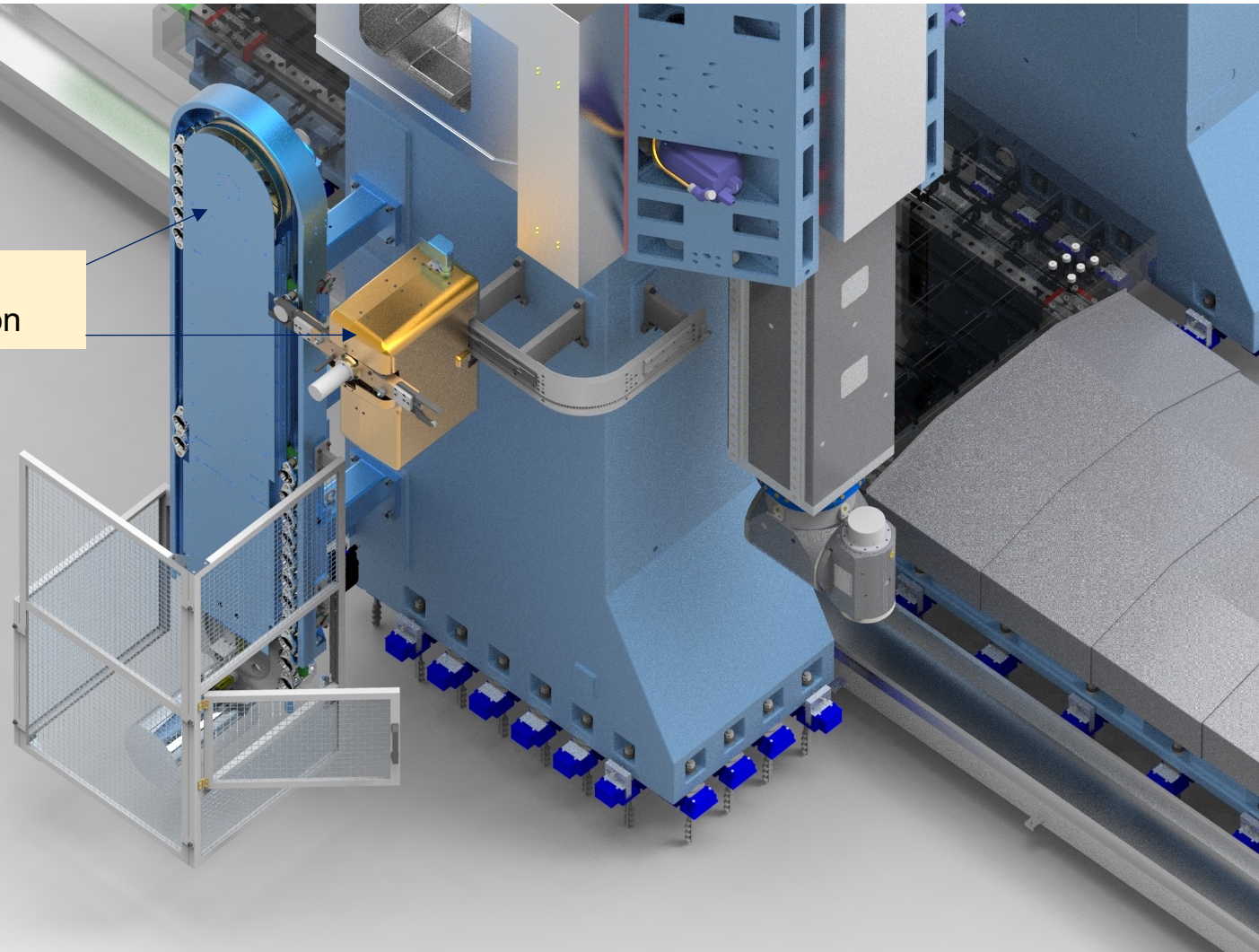


Machine design - table travel



Machine design – automatic tool change

Tool manipulator and tool magazine - TOS production



Technical parameters:

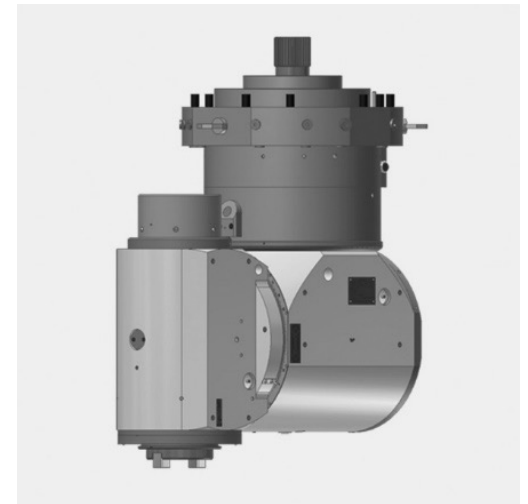
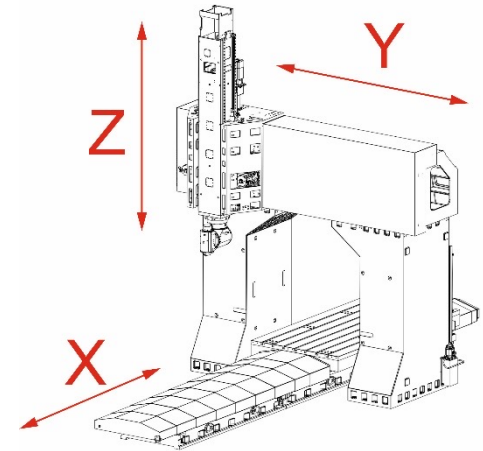
| Machine name: | | WVM2600T | WVM3600T |
|-----------------------------------|-------|------------------------------|------------------------------|
| | | Fixed portal, moveable table | Fixed portal, moveable table |
| Work space (max.) | | | |
| X axis | mm | 4 000 - 9 000 | 4 000 - 11 000 |
| Y axis (in case of AVTP + 1175mm) | mm | 3 200 | 4 200 |
| Z axis | mm | 1 500 | 1 500 |
| Distance between columns | mm | 2600 | 3 600 |
| Max. speed of work spindle | RPM | 5 000 (6 000) | 5 000 (6 000) |
| Rated power of main engine | Kw | 53 | 53 |
| Max. torque on the spindle | Nm | 1 375 (1172) | 1 375 (1172) |
| Feeds | | | |
| Rapid traverse X | m/min | 25 | 25 |
| Rapid traverse Y | m/min | 25 | 25 |
| Rapid traverse Z | m/min | 25 | 25 |
| Table | | | |
| Width of the clamping area | mm | 2000 | 3000 |
| Length of the clamping area | m | 3 / 4 / 5 / 6 / 8 | 3 / 4 / 5 / 6 / 8 / 10 |
| Max. load capacity | t | 16/20/24/28/36 | 20/24/28/32/40/40 |
| ATC | | 40, 60, 80, 100, 120 | 40, 60, 80, 100, 120 |
| Accessories (heads, el. spindles) | | Mechanical: | Mechanical: |
| | | straight spindles. extension | straight spindles. extension |
| | | 90 ° attachement | 90 ° attachement |
| | | universal head | universal head |
| | | orthogonal head | orthogonal head |

Technical parameters of the prototype WVM2600T:

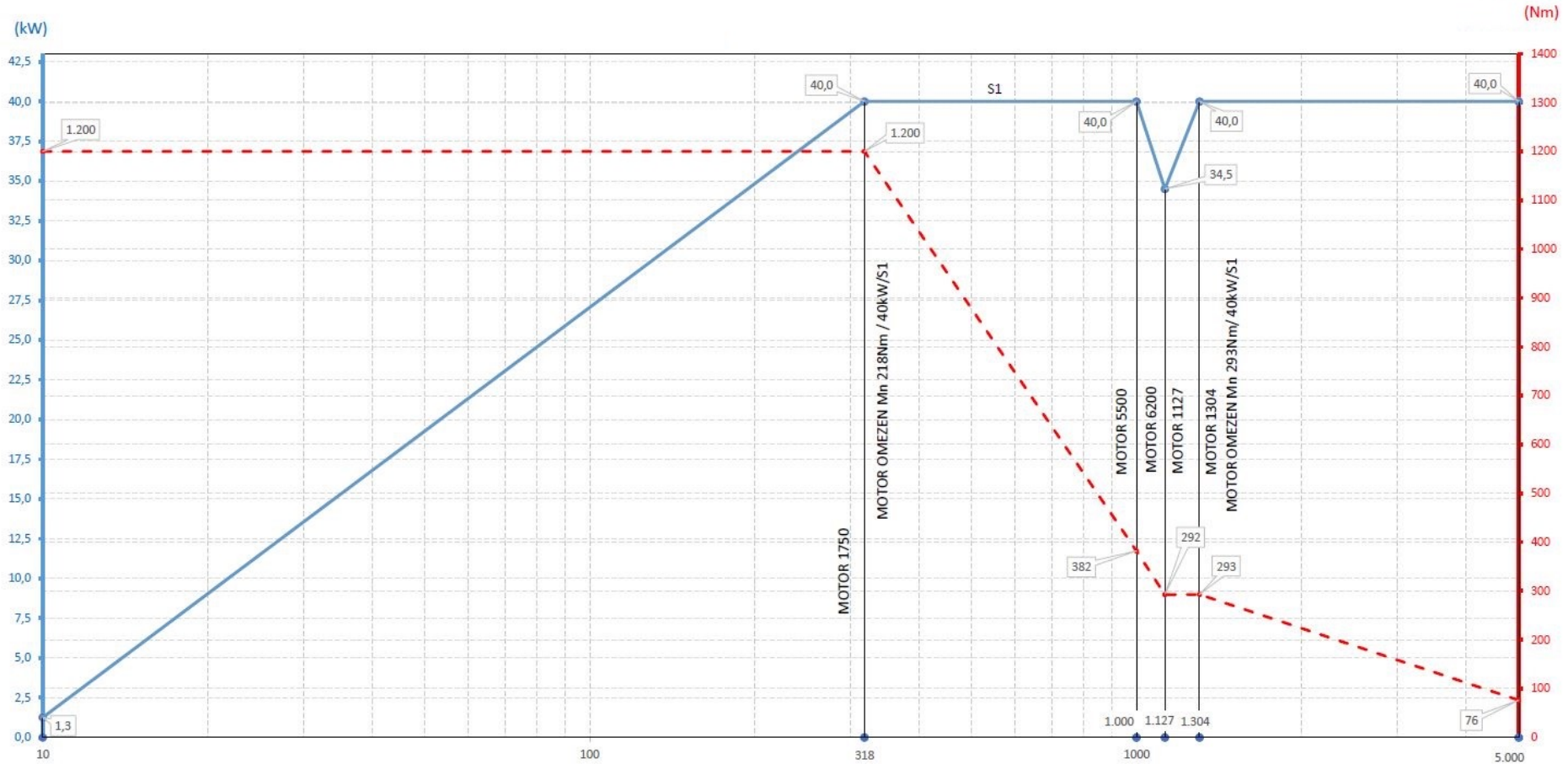
- Control: HH TNC 640
- X = 4500 mm (table)
- Y = 3200 mm (headstock)
- Z = 1500 mm (RAM)
- Table 2x4 m – 20T

- Head SEMPUCO KFU D4-90-X:
n = 5000 RPM
M = 1200 Nm
P = 40 kW

- ATC 60 (25 kg)

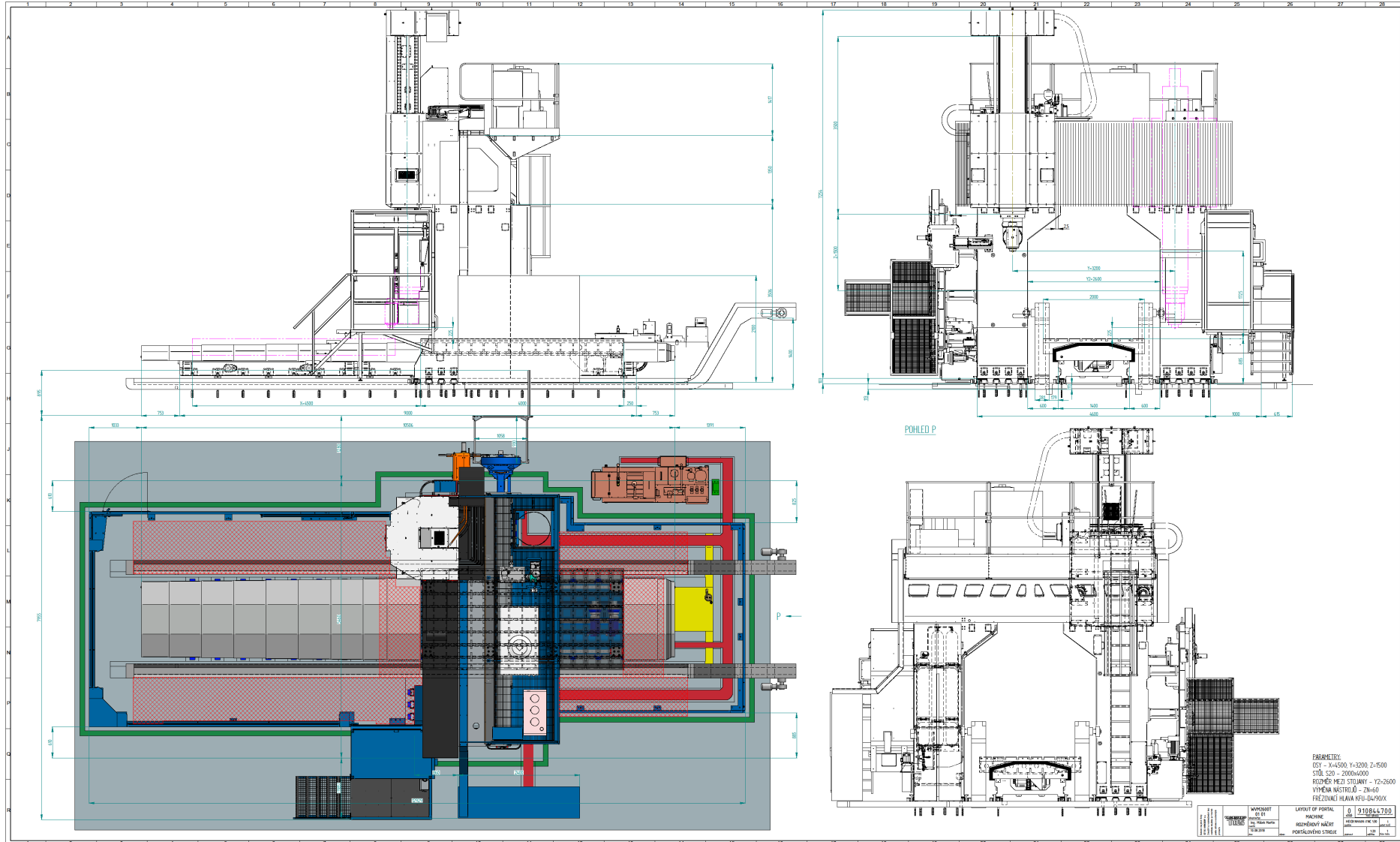


PERFORMANCE DIAGRAM

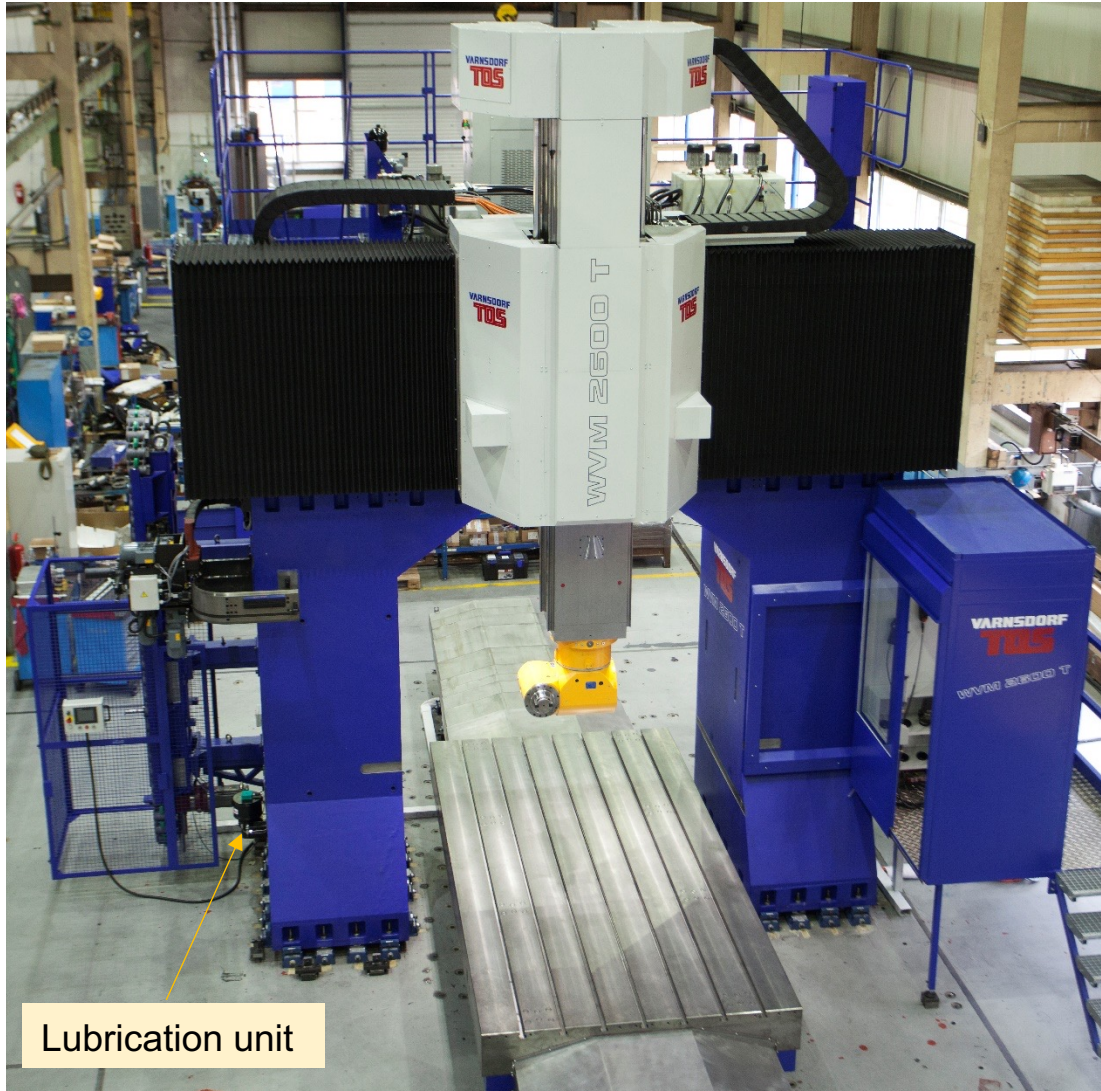


Motor: SIEMENS 1PH8165-xxF2x
53kW/1750 – 3050rpm

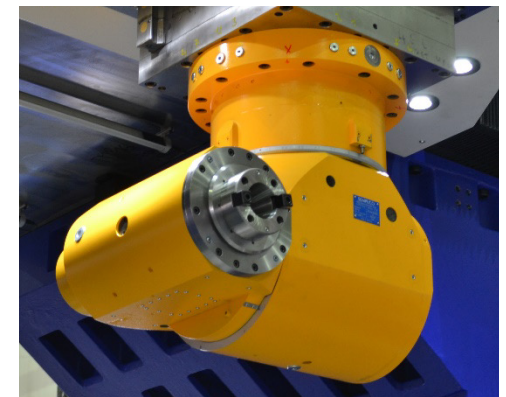
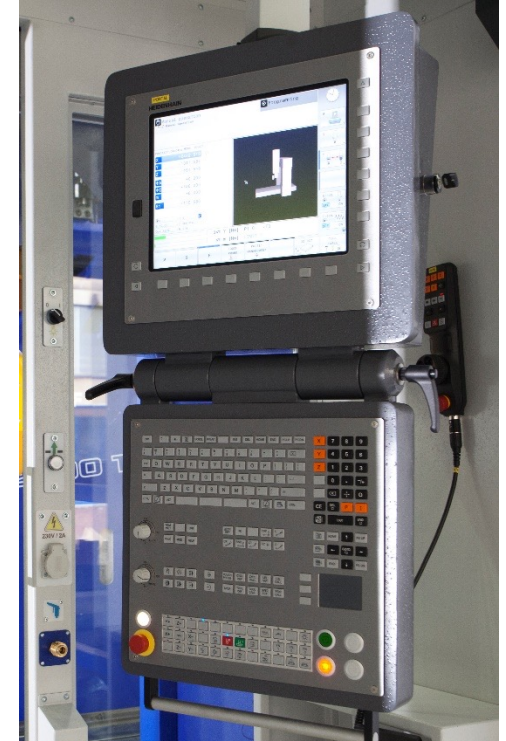
WVM 2600 T layout:



WVM2600T - prototype



WVM2600T - prototype



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