

TUNNELING

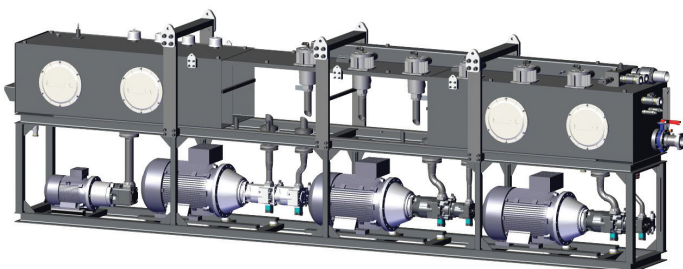


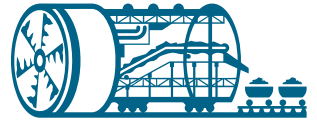
Applications

- Skid Mounted HPU directly integrated on the mill (TBM)
- Shield Articulation Control System
- Belt Control System
- Stabilizer Control System
- Tilt and Grippers Control System
- Erector Control System
- Main Push Cylinders control system

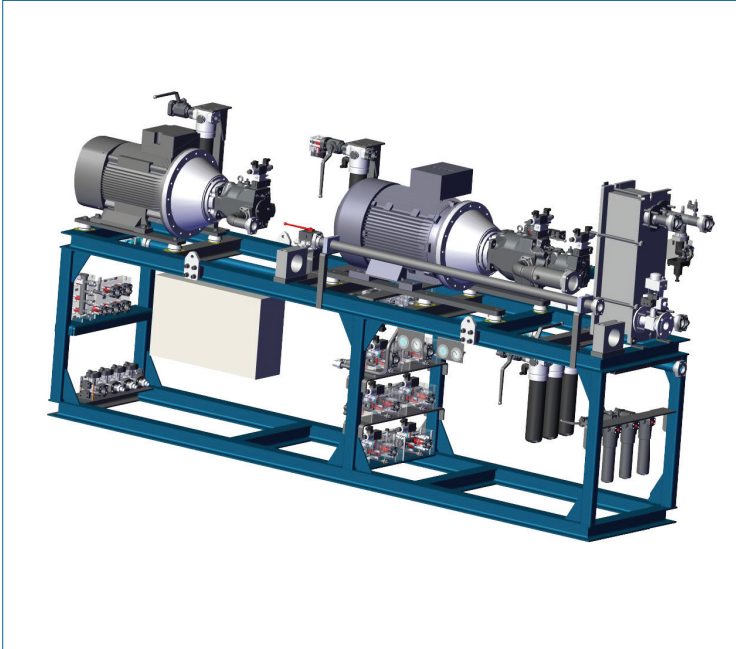
Services

- Manifold, HPU (Hydraulic Power Unit) and Integrated System full engineering
- Fluid dynamics simulation
- Structural calculation
- Deep analysis and check of every single system parameter with specific and official report release
- Final operational test of the whole system
- World Wide commissioning with high level expertise technicians
- Rigid and flexible piping and on-site full assistance
- 40 years-experience in the hydraulic field and a very passionate team of engineers and technicians who work every day close to our customers





Key Components



- ATEX components
- Water cooled electric motors
- Titanium plate heat exchanger
- Swagelok®, Gyrolok®, Ermeto® fittings
- High Flow closed circuit

Expertise

Power:	up to 2800 kW [3750 hp]
Flow rate:	up to 1600 l/min [420 gpm]
Pressure:	up to 420 bar [6000 psi]
Temperature:	-40 °C +60 °C [-40 °F +140 °F]
Certifications:	according to: ATEX, SIL, PED requirements
Process Control:	WPS, PQR, NDT, mechanical stress and wearing tests
Engineering international standards:	IEC61508, IEC61511, ASME, EU Directives rules and specifications
Painting:	based on customer specifications
Surface treatments:	galvanization, electrolytic protections
Materials:	steel, aluminum