

Project Info 28

- Machine type: HSC travelling-column machining centre
- Workpieces: Pipes for the oil and gas industry
- Task: End machining of pipes up to 14 m long
- Solution:
- Use of the HSC model with a horizontal spindle.
 - A base plate is integrated into the machine column to support the workpieces. The pipe is clamped using a customer-supplied clamping fixture.
 - A swivelling panel closes flush with the clamping fixture, so that only the end of the pipe protrudes into the working area during machining.
- Special features:
- Vertically mounted chain magazine with 80 tool pockets
 - Tool change via an intermediate double gripper
 - An additional swivelling partition is fitted in the working area to keep chips and coolant inside the machine.

Technical Data:

X-axis travel:	1000 mm
Y-axis travel:	1000 mm
Z-axis travel:	900 mm
Clamping surface:	Base plate measuring 1400 × 400 mm
Spindle power (at 100% DC):	Max. 81 kW
Torque (at 100% DC):	Max. 820 Nm
Speed:	4000 rpm
Tool changer / tool holder:	Vertical chain magazine with 80 tool pockets, SK50 with double gripper
Control system:	Siemens SINUMERIK ONE
Additional equipment:	▪ Recooling system ▪ Fully enclosed working area ▪ Side access door ▪ Rotating viewing window ▪ Renishaw RMP60 touch probe ▪ BLUM Micro Compact NT laser tool measurement system ▪ Tool monitoring by means of active power measurement / limitation ▪ Balluff tool identification system with read/write station ▪ OPC UA software interface ▪ Robot interface ▪ Operating mode 3 without an enabling switch ▪ 800-litre tank with belt filter system



