

Portalo C CNC

High-capacity portal machining center for heavy, high-volume workpieces



- Siemens 828 D control with Shopmill
- Large travels and high workpiece weights
- Renishaw measuring systems
- High drive power with ZF gears
- Extensive standard equipment

The movable set-up table and a fixed gantry allow machining of large and heavy workpieces

Gantry

- The large machining area and long travel distances require an extra rigid gantry and guide solutions for the most stringent requirements
- A combination of linear guides and box ways ensure a long service life plus higher machining speeds and steadfast rigidity
- High-quality preloaded ball screws and proven Siemens servo-motors provide dynamic feed and rapid feed on all axes

Main spindle

- High drive power and ZF brand auxiliary gears ensure a wide speed range with plenty of torque reserves for heavy-duty machining

Tool Changer

- The robust 24-station tool changer features a dual-arm gripper for maximum flexibility and quick tool changes during production

Control

- The Siemens 828 D Basic provides intuitive, easy to learn programming features and comes with excellent support and service
- Siemens Shopmill software is included in the standard equipment. With this software even the most complex contours and workpieces can be produced with ease.

Equipment

- The workspace features large sliding doors in the machine enclosure for great accessibility and easy tooling



- Renishaw measuring systems for tool and workpiece gauging and measuring significantly increase the machine's efficiency by providing more flexibility, shortening down-times, eliminating manual input errors and reducing waste
- A powerful coolant system combined with the included chip conveyor ensure chip disposal
- An automatic central lubrication system simplifies maintenance

Standard Equipment

Siemens 828 D Basic control, Shopmill Softwareoption für Sinumerik 828D, 24-station tool changer, spindle oil cooler, electronic hand-wheel, spiral chip conveyor, Werkstückvermessung Renishaw OMP 60, Werkzeugmesssystem Renishaw TS27R, LED work lamp, Kühlmittelpistole, air gun, coolant system, automatic central lubrication, operating tools, operator instructions

The Portalo C 2519/ 3019/ 3022 models feature a torsionally rigid square boom

Specifications Portalo C CNC		2014	2519	3019	3022	4022
Working area						
Table dimensions	mm	2.000x1.200	2.500x1.500	3.000x1.500	3.000x1.800	3.000x1.800
Table load capacity (max.)	kg	4.000	7.000	9.000	10.000	10.000
Spindle nose-to-table surface distance	mm	150 - 950	150 - 1.050	150 - 1.050	200 - 1.200	200 - 1.200
Column distance	mm	1.400	1.900	1.900	2.200	2.200
Travels						
Travel X-axis	mm	2.100	2.600	3.100	3.200	4.200
Travel Y-axis	mm	1.400	1.900	1.900	2.500	2.500
Travel Z-axis	mm	800	900	900	1.000	1.000
Headstock						
Spindle speed	1/min	6.000	6.000	6.000	6.000	6.000
Spindle mount		BT 50	BT 50	BT 50	BT 50	BT 50
Spindle diameter	mm	190	190	190	190	190
Rapid feed						
X-axis rapid feed	m/min	12	12	12	12	12
Y-axis rapid feed	m/min	12	12	12	12	12
Z-axis rapid feed	m/min	10	10	10	10	10
Feed						
Work feed	mm/min	8.000	8.000	8.000	8.000	8.000
Tooling						
Number of tool stations	positions	24	24	24	24	24
Accuracies						
Positioning accuracy	mm	0,005/300	0,005/300	0,005/300	0,005/300	0,005/300
Repeatability	mm	0,005/1000	0,005/1000	0,005/1000	0,005/1000	0,005/1000
Drive capacity						
Motor rating main drive	kW	22	22	22	22	22
Measures and weights						
Overall dimensions (length x width x height) m		6,3x4,15x4,45	7,5x4,3x4,8	8,5x4,3x4,8	8x5,1x4,9	10x5,1x4,9
Weight	kg	16.000	20.000	22.000	30.000	34.000
Part No.		170141	170142	170143	170144	170145