

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 Software option for Sinumerik 828D, 24-station tool changer, spindle oil cooler, electronic hand-wheel, spiral chip conveyor, Workpiece measuring system Renishaw OMP 60, Renishaw TS27R tool measuring system, LED work lamp, Coolant gun, compressed 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	in	79x47	98x59	118x59	118x71	118x71
Table load capacity (max.)	lbs	8,800	15,400	19,800	22,000	22,000
Spindle nose-to-table surface distance	in	6 - 37	6 - 41	6 - 41	8 - 47	8 - 47
Column distance	in	55	75	75	87	87
Travels						
Travel X-axis	in	82.7	102.4	122	126	165.4
Travel Y-axis	in	55	75	75	98	98
Travel Z-axis	in	31	35	35	39	39
Headstock						
Spindle speed	rpm	6,000	6,000	6,000	6,000	6,000
Spindle mount		BT 50	BT 50	BT 50	BT 50	BT 50
Spindle diameter	in	7	7	7	7	7
Rapid Feed						
X-axis rapid feed	fpm	39.24	39.24	39.24	39.24	39.24
Y-axis rapid feed	fpm	39.24	39.24	39.24	39.24	39.24
Z-axis rapid feed	fpm	32.7	32.7	32.7	32.7	32.7
Feed						
Work feed	in/min	315	315	315	315	315
Tool Head						
Number of tool stations	positions	24	24	24	24	24
Accuracies						
Positioning accuracy	in	0.0002/11.8	0.0002/11.8	0.0002/11.8	0.0002/11.8	0.0002/11.8
Repeatability	in	0.0002/39.37	0.0002/39.37	0.0002/39.37	0.0002/39.37	0.0002/39.37
Drive Capacity						
Motor rating main drive	Hp	29.5	29.5	29.5	29.5	29.5
Measures and Weights						
Overall dimensions (length x width x height)	in	249x164x176	296x170x189	335x170x189	315x201x193	394x201x193
Weight	lbs	35,200	44,000	48,400	66,000	74,800
Part No.		170141	170142	170143	170144	170145