



Actual machine may vary slightly

Compact premium lathe series for batch productions

- Fast: Linear guides for reliable precision
- Reliable: Fanuc control technology
- Expandable: many options available
- M models feature driven tools and C- axis
- L models feature an additional 130 mm center width

Machine bed

- The heavily ribbed 45° inclined bed frame features premium linear guides for superior thermal and structural stability

Main spindle and headstock

- Thermal stability is achieved by strictly symmetrical builds and cooling structures that ensure consistent cooling air circulation around the entire spindle

Tailstock

- The design with 2 additional box ways ensures collision-free tailstock movements. Extra long guideways, superior rigidity and precision of guides result in excellent vibration damping even during heavy machining operations



Fanuc 0i TF control

- Easy programming and operation, short learning curve

Tool turret

- Servo-driven turret for quick and precise tool changes

Standard Equipment

Fanuc Oi TF control, 6-station tool holder (TLM model), driven tool holder radial (TLM model), driven tool holder axial (TLM model), CE, 10.4" LCD color monitor, USB interface, R232 interface, manual tailstock, live center, hydraulic 3-jaw chuck with soft jaws, set of soft jaws, foot switch for 3-jaw chuck, chuck close/open confirm switch, hydraulic unit, coolant system, air and coolant spray wand, central lubrication, LED work lamp, 3-color signal lamp (LED), door lock, machine feet, operating tools

Options

Part No.

• Chip conveyor Hinged Belt (side)	251688
• Air condition for electric cabinet	251693
• Coolant pump upgrade to 1.8 KW	251702
• Bar feeder interface	251735
• Transformer for suitable power supply	251748
• Tool pre setter Renishaw HPRA (portable)	251805

For additional options for this machine, visit our website.

Specifications ORION

		6TLM	6TL	10TLM	10TL
Working area					
Turning-Ø over bed (max.)	mm	480	480	480	480
Swing-Ø over cross slide (max.)	mm	285	285	285	285
Turning diameter (max.)	mm	190	280	190	280
Turning length (max.)	mm	390	520	355	485
Travels					
Travel X-axis	mm	165	165	160	160
Travel Z-axis	mm	400	520	380	480
Angle of slant bed	deg	45	45	45	45
Headstock					
Bar capacity (incl. chuck)	mm	44	44	74	74
Spindle speed	1/min	6.000	6.000	3.500	3.500
Spindle mount		A2-5	A2-5	A2-8	A2-8
Spindle bore	mm	55	55	87	87
Lathe chuck diameter	mm	150	150	250	250
Angular resolution, C axis	deg	360 (0,001)	-	360 (0,001)	-
Rapid feed					
Rapid feed X-axis	mm/min	30.000	30.000	30.000	30.000
Rapid feed Z-axis	mm/min	30.000	30.000	30.000	30.000
Tooling					
Tool changer type		Servo / VDI 30	Servo	Servo / VDI 30	Servo
Number of tool stations	Pieces	12	10	12	10
Shank size	mm	20x20	-	20x20	25x25
Boring bar mount diameter	mm	32	32	32	32
Speed, driven tools	1/min	5.000	-	5.000	-
Accuracies					
Repeatability	mm	± 0,003	± 0,003	± 0,003	± 0,003
Positioning accuracy	mm	± 0,005	± 0,005	± 0,005	± 0,005
Tailstock					
Tailstock quill diameter	mm	65	65	65	65
Tailstock quill stroke	mm	80	80	80	80
Tailstock taper	MT	4	4	4	4
Drive capacity					
Motor rating main drive	kW	7,5	15	7,5	15
Main drive, continuous load	kW	5,5	11	5,5	11
Motor rating, driven tools	kW	3	-	3	-
Motor rating X- / Z- axis	kW	1,6	1,8	1,6	1,8
Measures and weights					
Overall dimensions (length x width x height)	m	2,26x1,67x1,57	2,26x1,67x1,57	2,26x1,67x1,57	2,26x1,67x1,57
Weight	kg	3.050	3.000	3.400	3.400
Part No.		181111	181109	181117	181116