



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



Servo-turret of an Orion 10 TL

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 0i-TF control, 6-station tool holder (TLM model), driven tool holder radial (TLM model), driven tool holder axial (TLM model), 10.4" LCD color monitor, USB interface, RS232 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.

• Chain-type chip conveyor (side)	251688
• Air conditioner for electric cabinet	251693
• Coolant pump upgrade to 2.4 HP	251702
• Rod loader interface	251735
• Transformer for matching power supply	251748
• Tool measuring system Renishaw HPRa (removable)	251805

For additional options for this machine, visit our website.

Specifications ORION

		6TLM	6TL	10TLM	10TL
Working Area					
Turning-Ø over bed (max.)	in	19	19	19	19
Swing-Ø over cross slide (max.)	in	11	11	11	11
Turning diameter (max.)	in	7	11	7	11
Turning length (max.)	in	15	20	14	19
Travels					
Travel X-axis	in	6.5	6.5	6.3	6.3
Travel Z-axis	in	16	20	15	19
Angle of slant bed	deg	45	45	45	45
Headstock					
Bar capacity (incl. chuck)	in	2	2	3	3
Spindle speed	rpm	6,000	6,000	3,500	3,500
Spindle mount		A2-5	A2-5	A2-8	A2-8
Spindle bore	in	2	2	3	3
Lathe chuck diameter	in	6	6	10	10
Angular resolution, C axis	deg	360 (0.001)	-	360 (0.001)	-
Rapid Feed					
Rapid Feed X-axis	in/min	1,181.1	1,181.1	1,181.1	1,181.1
Rapid Feed Z-axis	in/min	1,181.1	1,181.1	1,181.1	1,181.1
Tool Head					
Tool change type		Servo / VDI 30	Servo	Servo / VDI 30	Servo
Number of tool stations	positions	12	10	12	10
shank size	in	1x1	-	1x1	1x1
Boring bar mount diameter	in	1.3	1.3	1.3	1.3
Speed, driven tools	rpm	5,000	-	5,000	-
Accuracies					
Repeatability	in	± 0.0001	± 0.0001	± 0.0001	± 0.0001
Positioning accuracy	in	± 0.0002	± 0.0002	± 0.0002	± 0.0002
Tailstock					
Tailstock quill diameter	in	3	3	3	3
Tailstock quill stroke	in	3	3	3	3
Tailstock taper	MT	4	4	4	4
Drive Capacity					
Motor rating main drive	Hp	10.1	20.1	10.1	20.1
Main drive, continuous load	Hp	7.38	14.75	7.38	14.75
Motor rating, driven tools	Hp	4	-	4	-
Motor rating X- / Z- axis	Hp	1,6	1,8	1,6	1,8
Measures and Weights					
Overall dimensions (length x width x height)	in	89x66x62	89x66x62	89x66x62	89x66x62
Weight	lbs	6,710	6,600	7,480	7,480
Part No.		181111	181109	181117	181116