

Slant Bed CNC Lathe CLS Series

Specification		Unit	CLS-15		CLS-20	
Max. swing diameter over bed		mm	φ 400		φ 440	
Max. turning diameter	Shaft Parts	mm	φ 165		φ 260	
	Disc Parts	mm	φ 200		φ 300	
Max. turning length		mm	300	280	450	430
Chuck size			6"	8"	8"	10"
Type of spindle nose			A2-5	A2-6	A2-6	A2-8
Spindle speed range		rpm	50~5000	45~4500	45~4500	35~3500
Spindle motor power		kW	7.5/11 FANUC Oi-TF(5)		11/15 FANUC Oi-TF(5)	
Spindle bore		mm	φ46	φ62	φ62	φ87
Max. bar capacity (Equipped with through-hole hydraulic chuck)		mm	φ31	φ51	φ51	φ74
Max. travel of X/Z axis		mm	120/310		165/500	
Rapid traverse of X/Z axis		m/min	20/24		20/24	
Cutting feed rate		mm/min	0~5000		0~5000	
Turret type and tool numbers			Hydraulic 8-position turret		Hydraulic 8-position turret (Opt:12-position turret)	
Tool shank size		mm	20 X 20		25 X 25	
Indexing time(adjacent/farthest)		s	0.5/1.4		0.45/1.2 (0.45/1.45 12-position turret)	
Max. travel of tailstock			300		460	
Diameter of tailstock quill			φ80		φ80	
Tailstock quill stroke		mm	130		130	
Taper of tailstock			MT. 4		MT. 4	
X/Z axis positioning accuracy		mm	0.011/0.011		0.011/0.011	

X/Z axis repeatability accuracy	mm	0.004/0.004	0.004/0.004
CNC Controller		FANUC Oi-TF	
Guideway type		Linear guideway	
Machine dimensions (L X W X H)	mm	2420 X 2095 X 2052 (Rear chip conveyor) 3720 X 1525 X 2052 (Side chip conveyor)	2850 X 2920 X 1760 (Rear chip conveyor) 4150 X 1620 X 1760 (Side chip conveyor)
Machine weight	kg	3000	4000

Standard Configurations

- Hydraulic 8-position turret
 - NSK spindle bearings and X/Z axis bearings
 - X/Z THK ball screws & THK linear guideways
- Non through-hole hydraulic chuck
- Hydraulic tailstock
 - Heat exchanger
 - Chip conveyor
 - Automatic lubrication system

Optional

- SIEMENS 828Dsl or GSK 988T controller
- Electric servo turret
- High-flow water pump
- METRAL and RENISHAW tool presetter
- Air conditioner
- Through-hole hydraulic chuck and cylinder
- Bar feeder and parts catcher
- Automatic door
- Door interlock