

Application and Performance

This serial machine is suitable for rough/finish machining heavy-duty roll. Machine bed includes 2 kinds of models; bed of integral 3 guide ways and bed of integral 4 guide ways. The quenched guide ways greatly improve machine accuracy and service life. Main drive of machine is driven by DC motor, spindle speed change can be reached with mechanical speed-varying device. Spindle with optimum supporting span is supported by double-column short cylindrical roll bearings with high accuracy and adjustable radial backlash, therefore swiveling accuracy and rigidity of spindle are enhanced. CNC system are mainly from SIMENS Co. or FANUC Co. Other CNC system is available at user's request. Furthermore, double tool posts and other devices could be also available at user's request.

TECHNICAL SPECIFICATION

Heavy Duty ROLL-TURNING LATHE

Particulars	Units	C8480	C84100	C84125	C84160
Max.Swing over bed	mm	800	1000	1250	1600
Max. Turning Length	mm				
Max. Weight of workpiece	Kg	18	18 / 25	18 / 40	50
Type of bed guide-way		3	3 - 3/7	3 - 3/4	4
Width of bed	mm	1350	1350 / 1600	1350 / 1600	2050
Front diameter of spindle	mm	280	280 / 300	280 / 400	500
Machining Roll range	mm	200-800	200-1000	200-1250	400-1600
Speed steps of spindle					
Range of spindle speed	r/min	2-160	2-160	2-160	0.8-160
Main motor power	Kw	DC49	DC55	DC55/DC75	DC110
Max.cutting force for single tool post	kN	50	50/100	50/130	80
Max.Torque for faceplate	mm	16	16/80	16/100	63
Diameter of faceplate	mm	800	1000	1250	1600
Travel of cross slider	mm	200	300/320	320	620
Clamp range of faceplate	mm	280-650	350-800	500-1000	630-1250
Rapid cross speed	mm/min	585	585	585	585
Rapid longitudinal speed	mm/min	2000	2000	2000	2000
Diameter of tailstock quill	mm	280	280/300	280/400	500
Rapid travel of tailstock		3000	3000/2140	3000/2140	2140
Travel of tailstock quill	mm	250	250/300	300	300
Clamping diameter range of center rest	mm	300-480	300-480/360-550		
Machine weight	Kg	29 (4m)	35 (6m)/35 (5m)	36 (5m)/50 (7m)	56 (7m)

CNC Heavy Duty ROLL-TURNING LATHE

Particulars	Units	CK8480	C84100	C84125	C84160	CK84200
Max.Swing over bed	mm	800	1000	1250	1600	2000
Max. Turning Length	mm					
Max. Weight of workpiece	Kg	18	18 / 25	18 / 40	50	63
Type of bed guide-way		3	3 - 3/4	3 - 4	4	4
Width of bed	mm	1350	1350 / 1600	1350 / 1600	2050	2050
Front diameter of spindle	mm	280	280	280	280	280
Machining Roll range	mm	200-800	200-1000	200-1250	400-1600	600-2000
Speed steps of spindle						
Range of spindle speed	r/min	2-160	2-160/2-200	2-160/2-200	0.8-160	0.63-125
Main motor power	Kw	37	55	55/110	110	125
Torque of servo motor - Z & X axis	Nm	41	41	41	41	41
Max.cutting force for single tool post	kN	50	50/63	50/100	100	125
Max.Torque for faceplate	mm	16	16/25	16/50	80	100
Diameter of faceplate	mm	800	1000	1250	1600	2000
Travel of cross slider	mm	200	300/320	320	620	750
Clamp range of faceplate	mm	280-650	350-800	500-1000	630-1250	800-1600
Rapid cross speed	mm/min	4000	4000	4000	4000	4000
Rapid longitudinal speed	mm/min	4000	4000	4000	4000	4000
Diameter of tailstock quill	mm	280	280/300	280/400	400	500
Rapid travel of tailstock		2900	2900/2140	2900/2140	2140	2500
Travel of tailstock quill	mm	250	250/300	300	300	300
Machine weight (max.turning length)	t	29 (4m)	33 (6m)/35 (5m)	36 (5m)/50 (7m)	53 (6m)	75 (7m)

CNC Performance

There three tetangular guideways on bed of the machine. It has strong carrying capacity, good rijdity, bigger turning torque can be supported. Automatical 2(4) step infinitely variable has to realize by main driving system, speed range is wide, SIEMENS-810D CNC system and CRT display are equipped, it is safe and reliable; the longitudinal and cross feeding from semi-closed ting which separately driven the ball screw with servo motor. The system has characters of tool compensation, diagram display, incident diagnosis, rapid program and so on. The lathe features fine concentrated control arrangement, the saddle has been stuck with turcited B, useful life and accuracy maintaining performance of the machine have been raised.

* All above mentioned informations are subject to change. Because of product improvement.



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