KAAST

Engine lathe
C-Turn 385 • 420
30x62” to 33x240”

Each machine is subject to comprehensive accuracy inspection prior to shipping.

Optimal Structure Design

- Wide bed and box constructed, bed ways are high frequency heat treated, precision ground which can avoid vibration and tool chattering during performing heavy duty machining
- The massive bed is a box type construction combined with extra wide bed ways, providing increased rigidity and stability
- The bed and stand are manufactured from high quality cast iron and annealed to relieve internal residual stress
- The entire structure is carefully designed for maximum stability when performing heavy cutting

Specifications			C-Turn 385 • 420					
			1600	2100	3100	4100	5100	6100
			30/33” x 62”	30/33” x 82”	30/33” x 122”	30/33” x 161”	30/33” x 200”	30/33” x 240”
Swing over bed	385	mm	Ø770 (30”)					
	420		Ø840 (33”)					
Swing over gap	385	mm	Ø980 (38”)					
	420		Ø1080 (43”)					
Swing over carriage	385	mm	Ø500 (19”)					
	420		Ø590 (23”)					
Distance between centers		mm	1600 (62”)	2100 (82”)	3100 (122”)	4100 (161”)	5100 (200”)	6100 (240”)
Chuck mount			A1-11 [opt. A2-11, A2-15, A2-20]					
Spindle bore diameter		mm	Ø105 (4”) [opt. Ø155 (6”), Ø230 (9”), Ø305 (12”)]					
Speeds	18 steps	rpm	23–1293 [opt. 13~690, 5~440]					
	Variable Speeds [opt.]	rpm	20–1500 [opt. 10~800, 6~450, 5~350]					
Bed width		mm	450 (18”)					
Axis travel: X		mm	450 (18”)					
Toolholder travel: Z[1]		mm	250 (10”)					
Threading	Inches	TPI	2–28					
	Metric	mm/pitch	0.08–14					
	Diametral	P	4–56					
	Module	M	0.5–7					
Feed	Z	mm/rev.	0.05–0.70 (0.002–0.03”/rev.)					
	X	mm/rev.	0.025–0.35 (0.001–0.014”/rev.)					
Tailstock quill diameter		mm	105 (4”)					
Tailstock quill travel		mm	220 (8.6”)					
Tailstock quill taper			MT 5					
Main spindle motor		kW	15 (20 Hp) [opt. 18 (25 Hp), 22 (30 Hp)]					
Weight		kg	3350 (7,370 lbs)	3600 (7,920 lbs)	4100 (9,020 lbs)	4600 (10,120 lbs)	5100 (11,220 lbs)	5700 (12,540 lbs)
			3650 (8,030 lbs)	3900 (8,580 lbs)	4200 (9,240 lbs)	4700 (10,340 lbs)	5200 (11,440 lbs)	5800 (12,760 lbs)
Item No. 385 Model			1610136	1610137	1610138	1610139	1610170	1610171
Item No. 420 Model			1610131	1610132	1610133	1610134	1610135	1610172
Item No. 385 Model [V-Model]			1610300	1610301	1610302	1610303	1610304	1610305
Item No. 420 Model [V-Model]			1610306	1610307	1610308	1610309	1610310	1610311

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.