

TECHNICAL CHARACTERISTICS

Denomination	Type of lathe			
	SNA 630	SNA 710	SNA 800	SNA 1000

1. Main characteristic data:

— maximum rotational diameter over bed guides	mm	630	710	800	1000
— centre height in relation to longitudinal guides	mm	302	342	392	500
— centre distance	mm	1000—1500—2000—3000—4000—5000			
— maximum turning diameter above slide:					
single-slide type	mm	320	400	500	620
two-slide type	mm	400	480	580	—
— maximum turning diameter from bar through main spindle	mm	80 or 102			
— maximum turning diameter with travelling steady	mm	200 300	200 300	200 300	200 400
— maximum turning diameter with fixed steady	mm	240 400	240 400	240 400	240 400
— bridge turning diameter	mm	850	950	1060	1250
— length of the part that can be bridge machined	mm	300			

2. Headstock

— main spindle head: centring cone and bayonet disk 290					
STAS 7960—67 or camlock C					
11 STAS 7960/3-73					
— spindle bore diameter	mm	82 or 105			
— spindle bore cone	mm	metric 100 or 120			
— spindle bore adapter cone	mm	Morse 6			
— number of main spindle rotative speed steps		23			
— geometrical progression ratio		1.26			
— range of rotative speed	rpm	8 to 1 250 or 10 to 1 600			
— number of main spindle reverse speed steps		12			
— range of reverse rotative speeds	rpm	11 to 1400 or 14 to 1750			

3. Feed and thread gear box

— number of possible longitudinal and transverse feed rates		44
— range of longitudinal feed rates	mm/rev	0.056 to 10
— range of transverse feed rates	mm/rev	0.028 to 5
— number of metric threads		43
— range of metric threads	mm	1 to 176
— number of Whitworth threads		42
— range of Whitworth threads	pitch/1 inch	80 to 1/4

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— number of module threads					39
— range of module threads	module				0.5 to 80
— number of diametral pitch threads					40
— range of diametral pitch threads					160 to 1
— number of threads in inches					46
— range of threads in inches	inches				1/32 to 10
4. Slide and supports					
— vertical distance from centre line to the tool setting base	mm				40
— tool maximum section	sp.mm				40 × 40
— tool holder slide angle of rotation					+90°
— cross slide lead screw pitch	mm				8
— cross slide travel value for a division of the graduated ring	mm				0.05
— tool-holder slide lead screw pitch	mm				5
— tool-holder slide travel value for a division of the graduated ring	mm				0.05
— cross slide max. travel:					
— one-slide version	mm	400	400	400	500
— two-slide version	mm	290	290	290	—
— longitudinal slide max. travel L = 1000, 1500, 2000, 3000, 4000, 5000	mm	900,	1400,	1900,	2900
			3900	4900	
— accuracy in repetition with longitudinal travel plug tripping:					
a) with no-load shifts mechanical tripping					±0.1
b) with load shifts-finish tripping					±0.2
c) ditto — rough tripping					±0.3
5. Lathe slide					
— Lead screw pitch	mm				12
— Rack module	mm				3.5
— Rack toothing width	mm				40
— Longitudinal quick feed value	m/minute				3.7
— Transverse quick feed value	m/minute				1.85
6. Tailstock					
— centre cone in spindle sleeve bore					Morse 5 or Morse 6
— spindle sleeve max. travel	mm				300
— tailstock cross traverse motion	mm				±10
7. Drive					
— three-phase asynchronous squirrel cage motor for 660/380 V, 50 c/s, 380 V star-delta starting, with stand					
— motor power	kW				18.5 or 22
— motor rotative speed	rpm				1000
— three-phase asynchronous squirrel cage quick feed motor for 0.6 kW, 1500 rpm, 380/220 V, 50 c/s with flange					