



The conventional lathe evolution

New generation SC



New generation SC

Description

New generation of lathes with electronic variable spindle drive



The new SC series equipped with electronically variable spindle drive allow the selection of the necessary cutting speed at any moment, providing better surface finish, optimizing the wear of the inserts and improving the machining performance.

Its state of the art technology makes it ideal for both tool room and production applications with high precision and productivity.



New generation SC



Standard accessories

- > Spindle brake
- > Coolant equipment
- > Reducing bush
- > Rear splash guard chuck guard
- > 2 fixed centres
- > Emergency stop
- > Thread dial indicator
- > Main switch
- > Square tool post and key
- > Low voltage lighting
- > Chip collecting tray
- > Rigid lead screw guard
- > Instruction manual
- > Levelling plates
- > Centralized lubrication of carriage, cross slide & tool post slide
- > Top slide guard





New generation SC



Innovative control panel and joystick



CONTROL PANEL

- > Standard in all SC models
- > Controls the movement of the main spindle
- > Braking and acceleration control
- > Rapid movement control
- > Gear change button
- > Coolant button



JOYSTICK

- > Standard in all SC models
- > New joystick that controls the movement of the main spindle
- > Indicated for making threads
- > Ergonomic and user friendly



New generation SC

FEATURES

- > 3 range variable speed
- > Easy to use and ideal for high accuracy jobs
- > High chip removal rate during rough turning operations
- > High quality components employed

BENEFITS

- > Very versatile for machining both large and small components
- > Constant power in all speed ranges
- > Very high production efficiency
- > High quality finishing with maximum precision





New generation SC



Pinacho uses the best raw materials



- > All castings are grey pearlitic cast iron GG20/25 and are all produced in Pinacho's foundry
- > Beds are induction hardened and slideway ground; the hardness is 400-450 HB / 43 HRC
- > Gears are made from F155 steel
- > Bearings SKF, FAG and TIMKEN
- > Hardened and ground steel spindles





New generation SC

Optional accessories

- > Larger spindle bore up to 155mm
- > 3 & 4 jaws universal and independent chuck
- > Face plate
- > Driving plate
- > Rear chuck
- > Collet chuck
- > Drill chuck
- > Chuck back plate
- > Fixed steady rest and follow rest
- > Arms with rollers
- > Quick change tool post
- > Rear tool post
- > Stoppers
- > 2 or 3 axis DRO
- > Constant cutting speed
- > Casting pedestals
- > Motorized rapid feed
- > Live centre
- > Chip conveyor
- > Taper turning attachment
- > Electrical transformer

Larger spindle bores up to 155 mm



Steady rest



Chucks



DRO



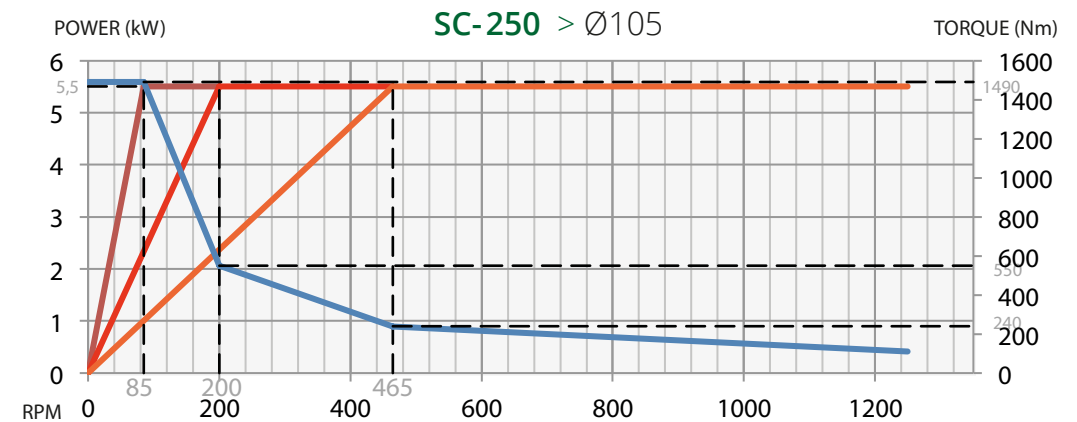
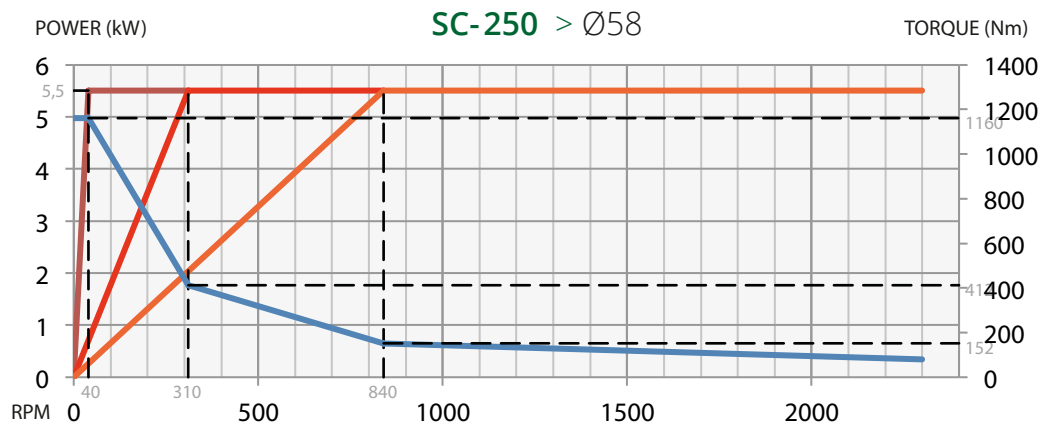
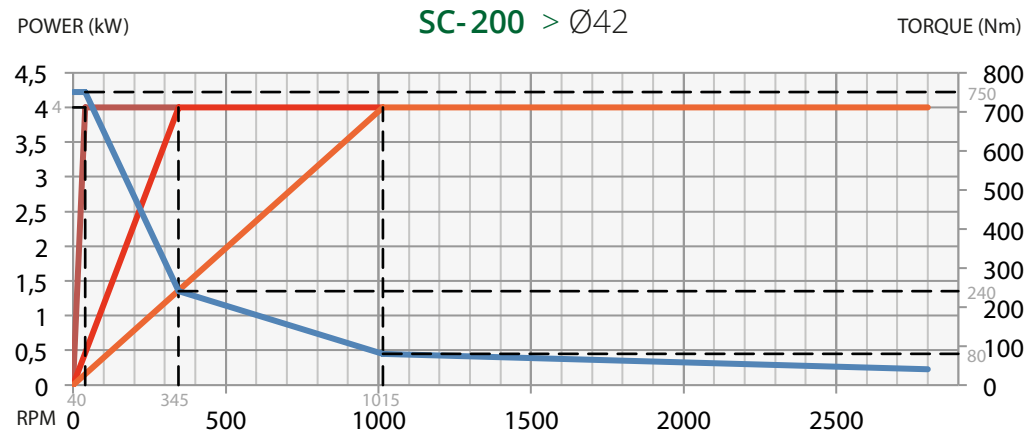
Quick change tool post





New generation SC

Power / Torque diagram SC

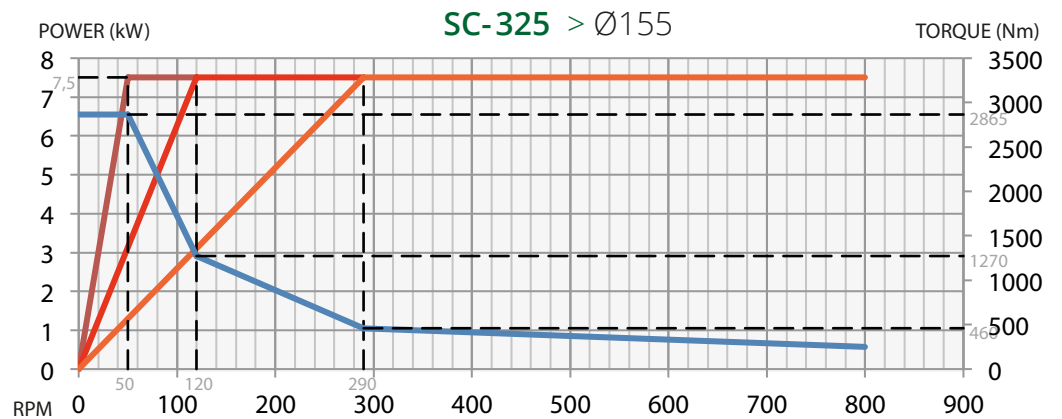
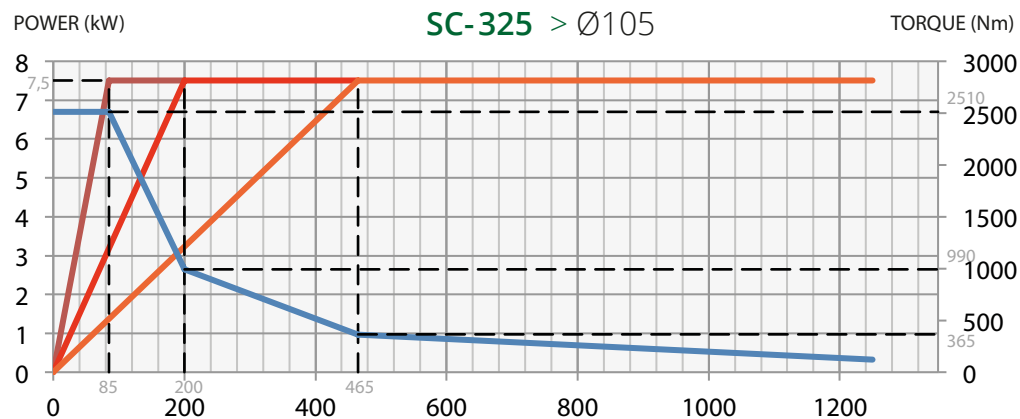
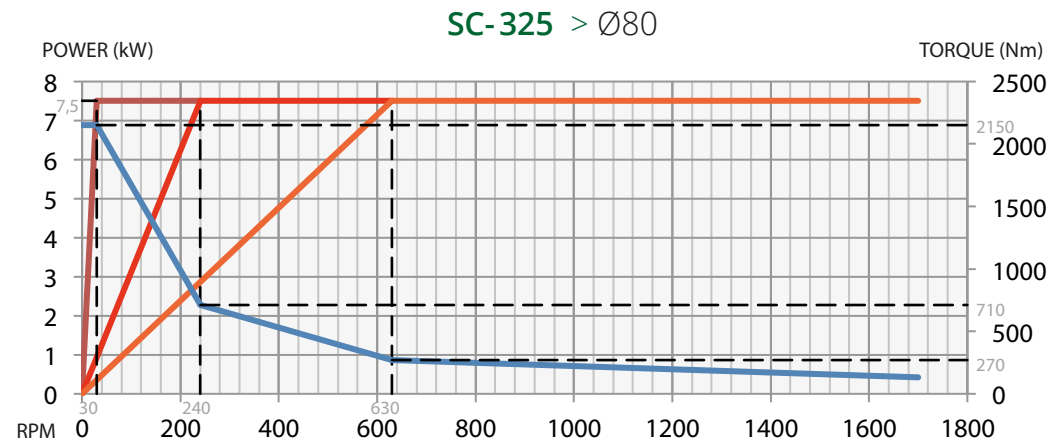


— R1: Power/Potencia S1 (kW) — R2: Power/Potencia S1 (kW) — R3: Power/Potencia S1 (kW) — Torque/Par S1 (Nm)



New generation SC

Power / Torque diagram SC



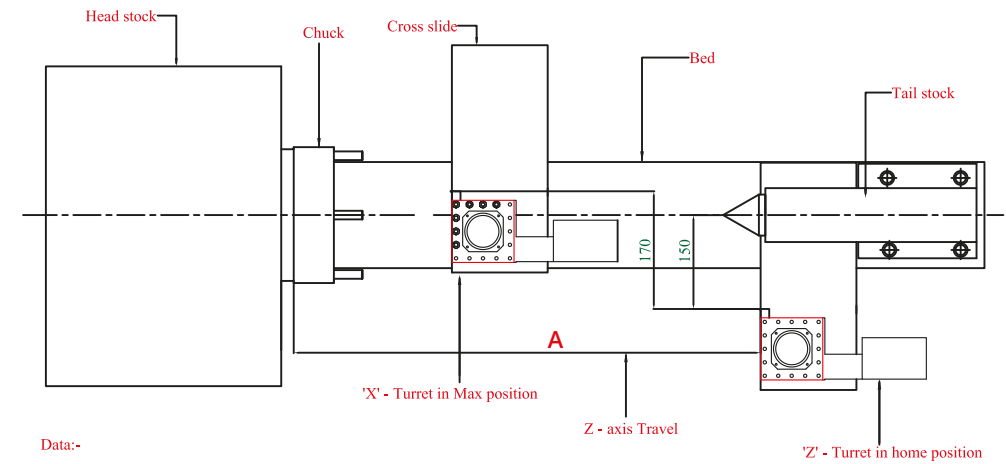
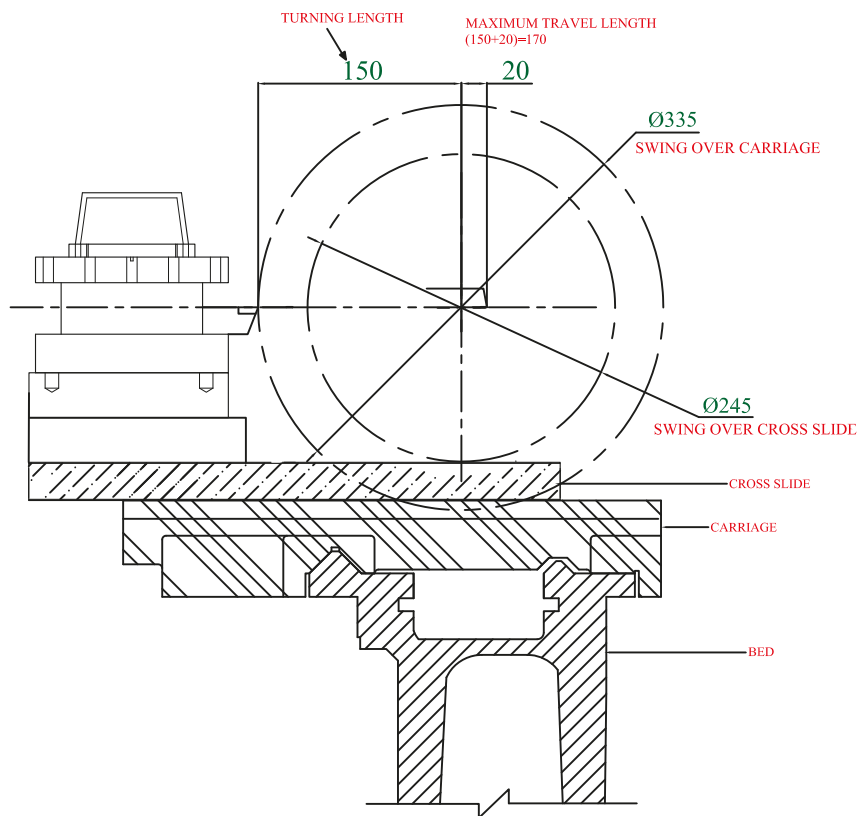
— R1: Power/Potencia S1 (kW) — R2: Power/Potencia S1 (kW) — R3: Power/Potencia S1 (kW) — Torque/Par S1 (Nm)



New generation SC

Tool interference diagram

> SC 200 QCTP & 4 way tool post



Data:-

x axis Travel - 170 mm

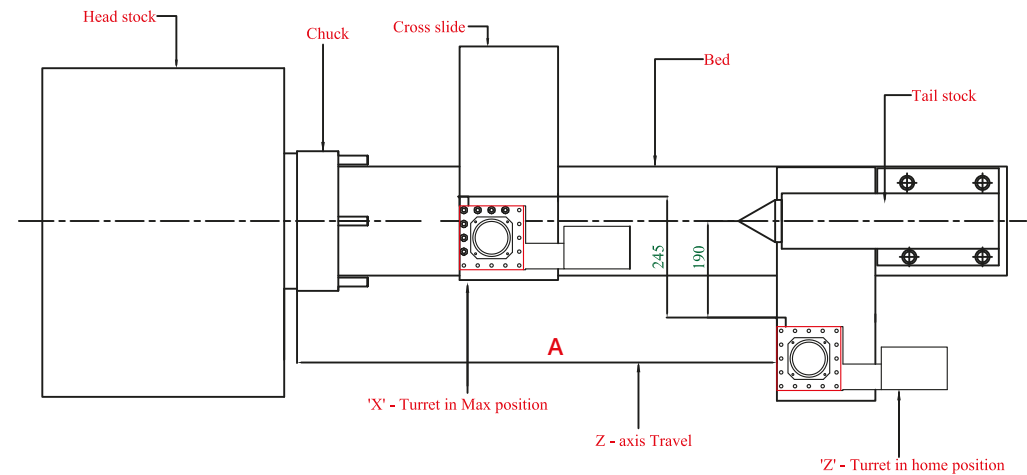
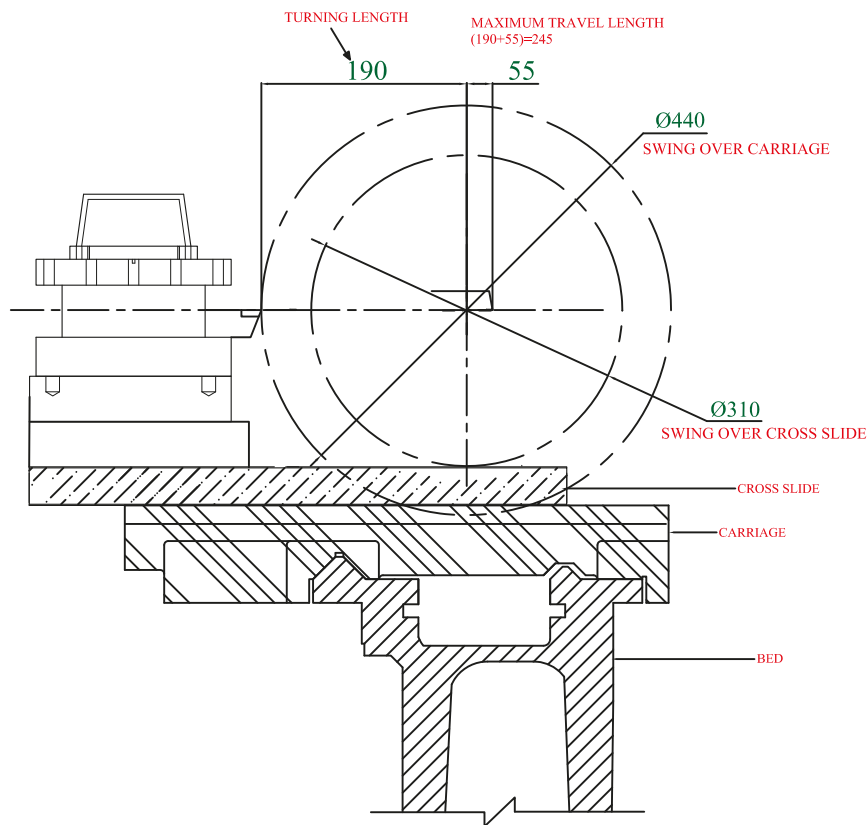
>—<	750	1000
A	700	1000



New generation SC

Tool interference diagram

> SC 250 QCTP & 4 way tool post



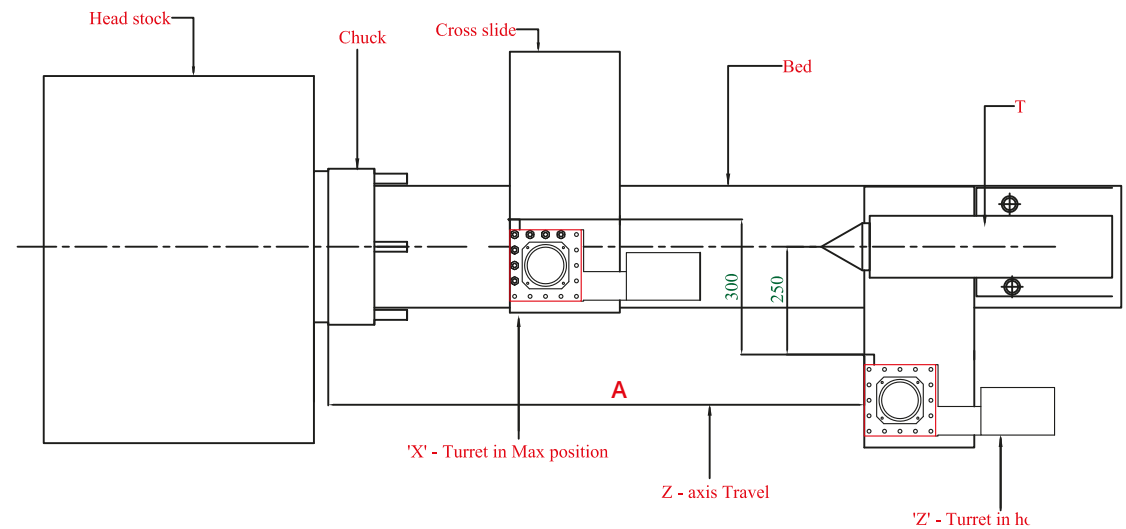
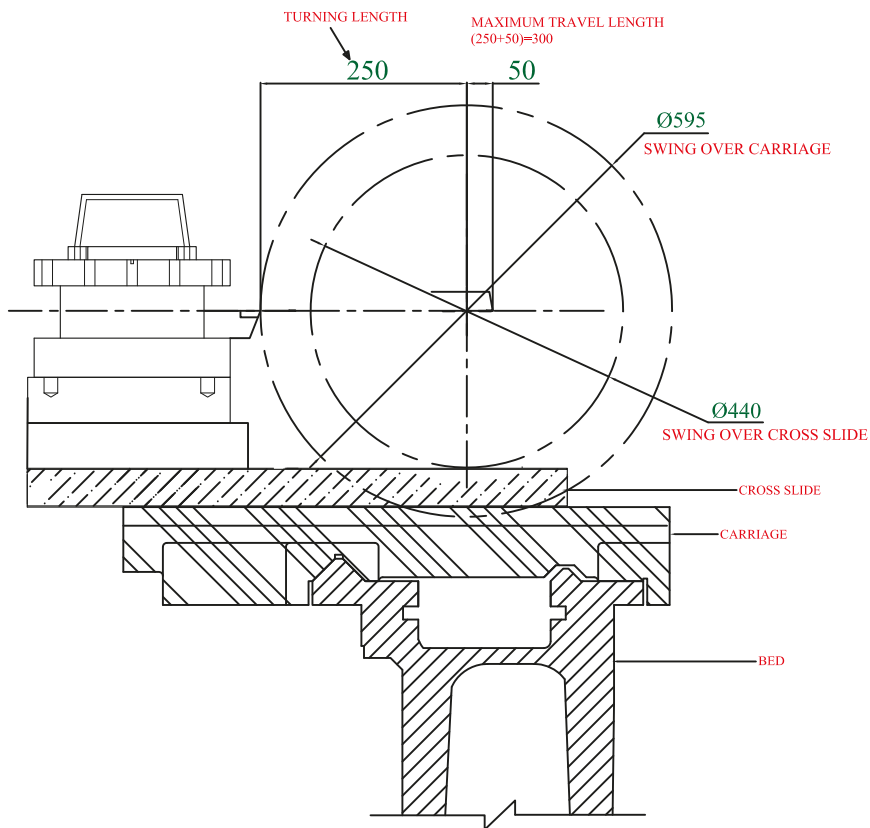
>—<	1000	1500
A	1050	1520



New generation SC

Tool interference diagram

> SC 325 QCTP & 4 way tool post



>—<	1000	1500	2000	3000
A	1040	1520	2100	3020



New generation SC

▷ MODEL		▷ SC 200		▷ SC 250				▷ SC 325					
SPECIFICATIONS		MM	INCH	MM	INCH		MM	INCH					
Type of headstock		Headstock with electronic variable speed drive											
Centre distance		750/1000	30"/40"	1000/1500	40"/60"		1000/1500/2000/3000			40"/60"/80"/120"			
Centre height		200	8"	250	10"		325			13"			
Swing over bed		402	16"	502	20"		652			26"			
Swing over gap		560	22"	700	27½"		910			35¾"			
Gap length in front of face plate		120	5"	160	6"		220			9"			
Swing over carriage		380	115"	475	18½"		595			23"			
Swing over cross slide		245	9½"	310	12"		560			22"			
Cross slide travel		200	8"	250	9¾"		340			12¾"			
Tool post slide travel		110	4 ¼"	130	5"		165			6½a"			
Maximum tool dimensions		20x20	¾ x ¾"	25 x 25	1" x 1"		25 x 25			1" x 1"			
Headstock Main spindle bore		42	1 ½"	58	105	2½"	4"	80	105	155	3"	4"	6"
Main spindle nose (ASA/CAM-LOCK)		A2-5/D1-5		A2-6/D1-6		A2-8/D1-8		A2-8/D1-8		A2-8/D1-8		A2-11/--	
Main spindle morse taper (MT)		4		4				5					
Speed range (rpm)	Range I	40-345		40-310		85-200		30-240		80-200		50-120	
	Range II	345-1015		310-840		200-465		240-630		200-465		120-290	
	Range III	1015-2800		840-2300		465-1250		630-1700		465-1250		290-800	
Norton box No. threads and feeds		44		44				55					
Longitudinal feeds (mm/rev)		0.05-0.752		0.05-0.752				0.05-1.5					

Specifications subject to change without notice. Not responsible for typographical error. Machines are shown with optional equipment.



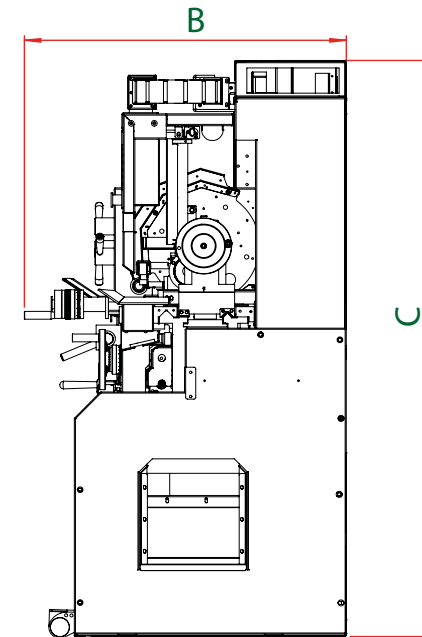
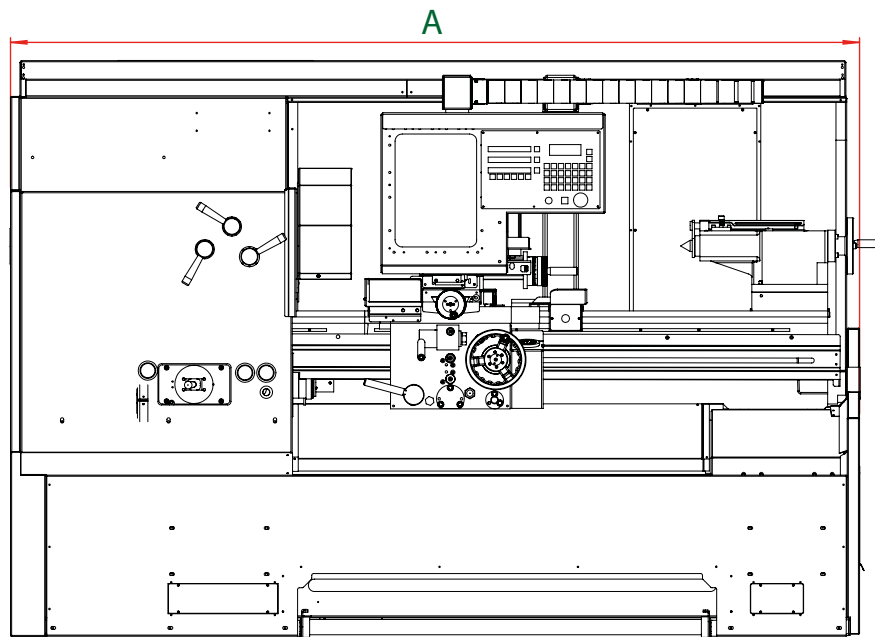
New generation SC

▷ MODEL		▷ SC 200		▷ SC 250		▷ SC 325	
SPECIFICATIONS		MM	INCH	MM	INCH	MM	INCH
Cross feeds (mm/rev)		0.025-0.376		0.022-0.296		0.025-0.752	
Metric threads (mm)		0.5-7.5		0.5-7.5		0.5-15	
Whitworth threads in T.P.I		60-4		60-4		60-2	
Modular threads (mm)		0.25-3.75		0.25-3.75		0.25-7.5	
Pitch diametral threads (D.P.)		120-8		120-8		120-4	
Ø35 lead screw rod pitch		6	¼"	6	¼"	6	¼"
Tail stock barrel diameter		58	2 ¼,"	68	2½"	95	3 ¾"
Tail stock barrel travel		180	7"	200	7¾"	220	8 ½"
Tail stock morse taper (MT)		4		4		5	
Fixed Steady capacity		10-125/110-200	½-5/5½-8"	10-140/140-300	½-5½/5½-11"	10 -180 / 180 -400	½-7¼" / 7¼-15½"
Follow rest capacity		10 - 80	½-7¼"	10-100	½- 4"	10-140	½-5 ½"
Main Motor Power (kW)		4		5.5		7.5	
Coolant pump power (kW)		0.1		0.1		0.1	
Coolant tank capacity (l)		42/55		67/92		81/111/151/201	
Overall dimensions	Length (mm)	2115/2390		2700/3200		2700/3200/3800/4700	
	Width (mm)	910		950		1080/1110	
	Height (mm)	1625		1750		1825	
	Weight (kg)	1030/1190		1520/1680		1750/2100/2500/3100	
Verification standard		DIN 8605		DIN 8605		DIN 8605	



New generation SC

SC 200 x 1000



WORKPIECE MAX.WEIGHT

MAX WEIGHT B/W CHUCK & TAILSTOCK in kg	MAX WEIGHT IN CHUCK in kg
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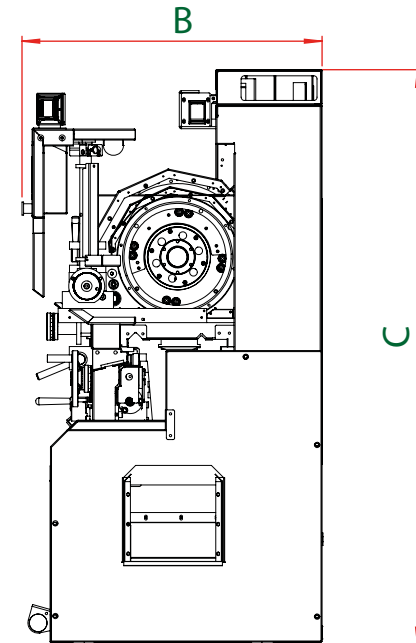
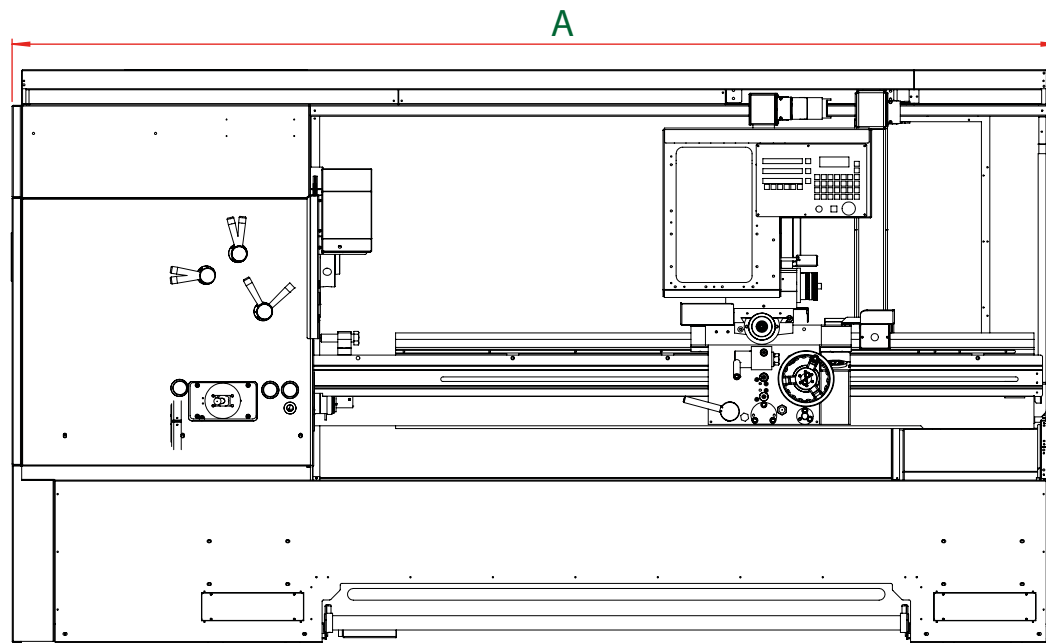
	A (mm)	B (mm)	C (mm)	WEIGHT Kg
SC 200 X 750	2115	910	1625	1030
SC 200 X 1000	2390	910	1625	1190

	MAX WEIGHT B/W CHUCK & TAILSTOCK in kg	MAX WEIGHT IN CHUCK in kg
SC 200 X 750	280	135
SC 200 X 1000	300	



New generation SC

SC 250 x 1000



WORKPIECE MAX.WEIGHT

MAX WEIGHT B/W CHUCK & TAILSTOCK in kg	MAX WEIGHT ON CHUCK in kg
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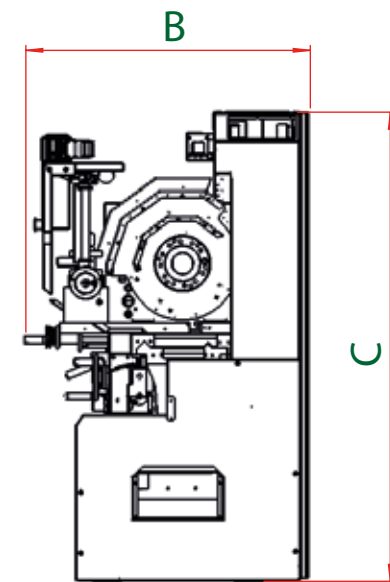
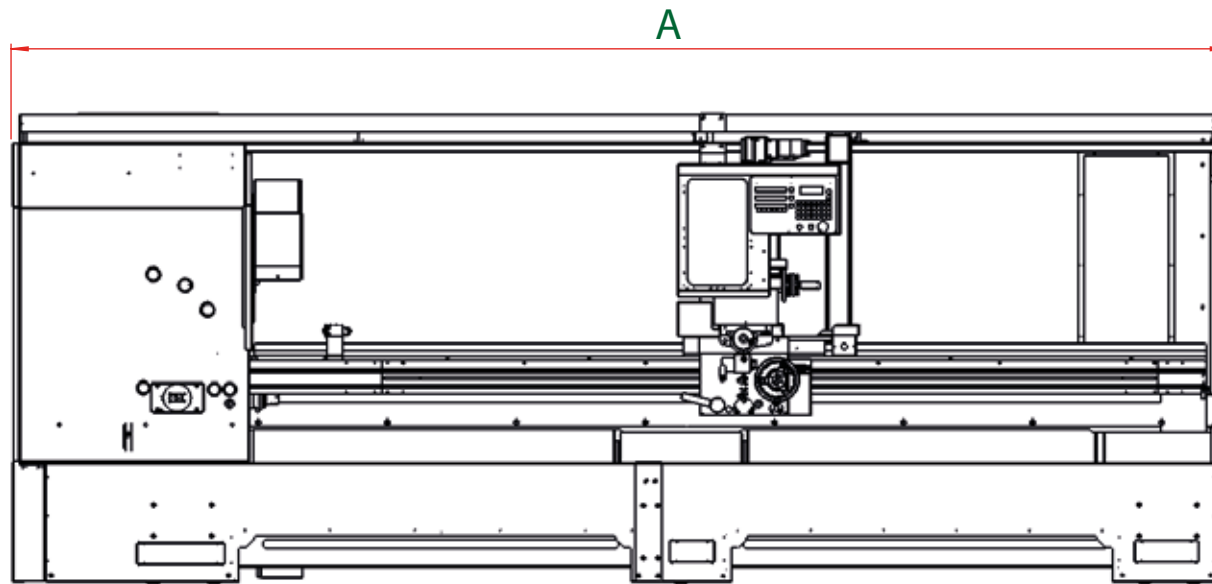
	A (mm)	B (mm)	C (mm)	WEIGHT Kg
SC 250 X 1000	2700	950	1750	1520
SC 250 X 1500	3200	950	1790	1680

SC 250 X 1000	450	225
SC 250 X 1500	750	



New generation SC

SC 325 x 3000



	A (mm)	B (mm)	C (mm)	WEIGHT Kg	WORKPIECE MAX.WEIGHT	
					MAX WEIGHT B/W CHUCK & TAILSTOCK in kg	MAX WEIGHT ON CHUCK in kg
SC 325 X 1000	2700	1080	1825	1750	SC 325 X 1000	1125
SC 325 X 1500	3200	1080	1825	2100	SC 325 X 1500	1690
SC 325 X 2000	3800	1110	1825	2500	SC 325 X 2000	2025
SC 325 X 3000	4700	1110	1825	3100	SC 325 X 3000	2815

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