

Alpha X Series

The World's Finest CNC Combination Lathes



Constantly developed since its first introduction in 1996, the Alpha X Series offers the widest variety of control levels, from manual through to full ISO on one machine.

Tailored to optimise the skills of the machine operator, the Alpha X Series offers a large machine envelope for the efficient production of a wide variety of components in small to medium size batches. The new generation Fanuc Oi TF Plus controls with colour touch screen and bespoke software systems gives you full CNC capability.



- Superb cutting performance
- High spindle speeds with wider speed ranges
- Fast rapid traverse rates
- Excellent spindle torque at low speeds
- Latest Fanuc Beta i Series spindle and Beta axis motors
- Independent, sliding operator's console
- State-of-the-art Fanuc controls with conversational programming software
- Fast, easy set up - quickest of any lathe on the market
- Automatic slideway and ballscrew lubrication system
- Extended range with up to 6m between centres*
- AlphaLink Windows CAD/CAM offline programming CD and communications cable
- C-Axis capability

See specifications overleaf

Alpha XS Series - Specifications

	1350XS	1400XS	1460XS	1550XS	1660XS	1760XS
Distance between centres	650mm	1200mm	1500mm	2000 / 3000mm	1550 / 2000 / 3000 / 4000 / 5000 / 6000mm	
Saddle stroke Z-Axis Max	556mm	1156mm	1530mm	2030 / 3050mm	1190 / 1700 / 2710 / 3730 / 4730 / 5730 mm	
Swing over bed	350mm	400mm	460mm	554mm	660mm	760mm
Swing in gap	535mm	585mm	730mm	830mm	940mm	1040mm
Gap width from faceplate	165mm	165mm	216mm	216mm	300mm	
Swing over cross-slide	196mm	246mm	270mm	370mm	460mm	560mm
Spindle bore	42mm	55mm	78mm	104mm	104mm	155mm
Spindle nose	D1-4	D1-6	D1-8	D1-11	D1-11 (A2-11)	A2-11
Spindle speeds: Low range	1 to 366rpm	1 to 297rpm	1 to 247rpm	1 to 224rpm	26-224rpm	10-150rpm
Medium range	1 to 1088rpm	1 to 861rpm	1 to 740rpm	1 to 672rpm	225-670rpm	151-490rpm
High range	1 to 3500rpm	1 to 2700rpm	1 to 2200rpm	1 to 2000rpm	670-2000rpm	491-1400rpm
Main motor	7.5kW	7.5kW	11kW	15kW	18.5kW	
Tailstock quill travel	140mm	140mm	180mm	180mm	300mm	
Tailstock quill diameter	63mm	73mm	95mm	95mm	105mm	
Tailstock taper	No. 4 MT	No. 5 MT	No. 6 MT	No. 6 MT	No. 6 MT	
Electrical supply required	22kVA	22kVA	24kVA	24kVA	35kVA	
Overall length	2400mm	2900mm	3600mm	4100 / 5100mm	4200 / 4700 / 5700 / 6700 / 7700 / 8700mm	
Overall width	1700mm	1700mm	2000mm	2000mm	2250mm	
Overall height	1500mm	1500mm	1750mm	1750mm	2260mm	
Overall weight (nett)	1900kg	2370kg	3430kg	3690kg / 4600kg	4300 / 4800 / 6000 / 7200 / 8400 / 9800kg	4500 / 5000 / 6200 / 7400 / 8600 / 10000kg

Alpha XC Series - Driven Tool Drive Specifications

	1400XC	1550XC	1760XC
Spindle Motor Power	9.5kW	18.5kW	22kW
No. of Tool Stations	8 (all driven)	8 (4 driven)	12
Tooling Type	VDI 20 / DIN 5480	VDI 40 / DIN 1809	VDI 40 / DIN 5482
Max. Power Driven Tool	2.2kW	3.7kW	8kW
Max. Driven Tool Speed	6000 rpm	6000rpm	5000rpm

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