

ALPHA XS/XM

The Ultimate Turning Machines

Specifications

	Alpha 1350XS	Alpha 1400XS	Alpha 1460XS	Alpha 1550XS	Alpha 1800XS-120	Alpha 1800XS-170	Alpha 1550XM
Distance between centers	650mm (25")	1250mm (50")	1500mm (60")	2000mm (80") or 3000mm (120")	2000mm (80"), 3000mm (120") or 4000mm (160")	2000mm (80"), 3000mm (120") or 4000mm (160")	2000mm (80") or 3000mm (120")
Saddle stroke Z-Axis Max	556mm (217/8")	1156mm (451/2")	1510mm (60")	2010mm (791/8")	3020mm (1187/8")	3020mm (1187/8")	2010mm (791/8")
Swing over bed	350mm (133/4")	400mm (153/4")	460mm (183/8")	554mm (213/4")	800mm (311/2")	800mm (311/2")	554mm (213/4")
Swing in gap	535mm (21")	585mm (23")	730mm (283/4")	830mm (325/8")	870mm (341/4")	870mm (341/4")	830mm (325/8")
Gap width from faceplate	165mm (61/2")	165mm (61/2")	216mm (81/2")	216mm (81/2")	340mm (133/8")	340mm (133/8")	216mm (81/2")
Swing over cross-slide	196mm (73/4")	246mm (95/8")	270mm (105/8")	370mm (141/2")	520mm (201/2")	520mm (201/2")	370mm (141/2")
Spindle bore	42mm (15/8")	55mm (21/8")	78mm (31/16")	104mm (41/8")	120mm (43/4")	170mm (63/4")	104mm (41/8")
Spindle nose	Camlock D1-4"	Camlock D1-6"	Camlock D1-8"	Camlock D1-11"	Camlock D1-11"	A2-11"	Camlock D1-11"
Taper in nose bush	No. 3 MT	No. 4 MT	No. 5 MT	No. 5 MT	N/A	N/A	No. 5 MT
Spindle speeds:							
Low range	1 to 366rpm	1 to 297rpm	1 to 247rpm	1 to 224rpm	15 to 611rpm	10 to 407rpm	1 to 224rpm
Medium range	1 to 1088rpm	1 to 861rpm	1 to 740rpm	1 to 672rpm	N/A	N/A	1 to 672rpm
High range	1 to 3500rpm	1 to 2700rpm	1 to 2200rpm	1 to 2000rpm	40 to 1500rpm	25 to 1000rpm	1 to 2000rpm
Main motor	7.5kW (10HP)	7.5kW (10HP)	11kW (15HP)	11kW (15HP)	26kW (35HP)	26kW (35HP)	11kW (15HP)
Constant power range	86-3500rpm	69-2700rpm	67-2200rpm	64-1970rpm	153-1500rpm	102-1000rpm	64-1970rpm
Tailstock quill travel	140mm (53/4")	140mm (51/2")	145mm (55/8")	145mm (55/8")	210mm (81/4")	210mm (81/4")	145mm (55/8")
Tailstock quill diameter	63mm (21/2")	73mm (27/8")	95mm (33/4")	95mm (33/4")	120mm (43/4")	120mm (43/4")	95mm (33/4")
Tailstock taper	No. 4 MT	No. 5 MT	No. 6 MT	No. 6 MT	No. 6 MT	No. 6 MT	No. 6 MT

Electrical supply required	22kVA	22kVA	24kVA	24kVA	32kVA	32kVA	24kVA
Floor to spindle centre	1061mm (41")	1086mm (42")	1145mm (443/4")	1195mm (463/4")	1200mm (48")	1200mm (471/4")	1195mm (463/4")
Overall length	2400mm (743/4")	2900mm (101")	1500mm (60")	2000mm (80") 4100mm (166")	2000mm (80") 4210mm (166")	2000mm (80") 4210mm (166")	2000mm (80") 4100mm (166")

Illustrations and specifications are not binding in detail. The designs are subject to modification and improvement without notice.

Workpiece capacity and machinable lengths and diameters will vary and may be reduced below maximum depending on workholding and tooling used.

Not all the features described in the brochure are relevant to all machines in the range.

C-Axis for 1550XM

Motor max torque	4Nm
Output max torque	152Nm
Max output speed	105rpm
Resolution	0.001°