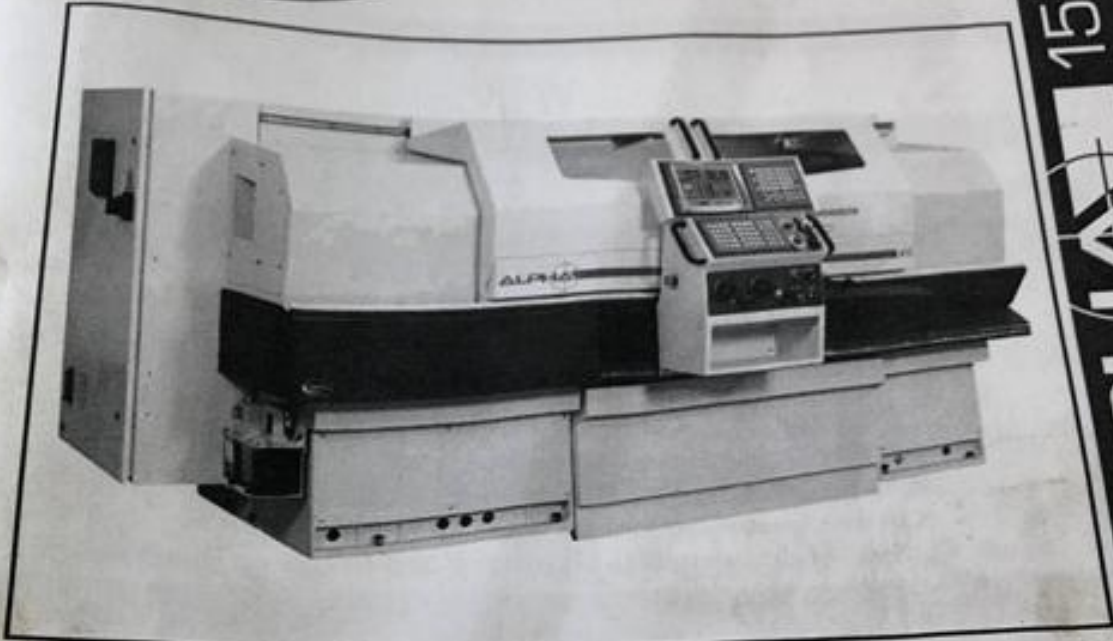


**COLCHESTER
HARRISON**
600Group

Manufactured at:
600Lathes



ALPHA 1550XS

ALPHA 1550XS

Machine Serial Number	X4S322	Year of Manufacture	2014
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This manual applies only to the machine having the serial number shown: this is stamped on the front of the lathe bed at the tailstock end and MUST be quoted in all communications.

MACHINE SPECIFICATION

Machine Specification

Swing over bed	554mm (21.8")
Swing over cross-slide	370mm (14.5")
Swing in gap x Length in front of face plate	830mm (32.7") x 218mm (8.5")
Spindle centre height from floor	1195mm (47")
Nominal turning length between centres	2000mm (80") / 3000mm (120")
Spindle nose	Camlock D1-11
Taper in spindle nose bush	No.5 MT
Spindle bearing internal diameter	150mm (5.9")
Spindle bore	104mm (4.09")
Spindle speed ranges	Low - 1 to 224 rpm Medium - 1 to 672 rpm High - 1 to 2000 rpm
Spindle motor maximum speed	5228 rpm
Spindle motor base speed	1500 rpm
Spindle gear ratio	Low - 23.328 : 1 Medium - 7.776 : 1 High - 2.614 : 1
Spindle base speed	Low - 64 rpm Medium - 193 rpm High - 574 rpm
Spindle motor	7.5 kW (10 hp) S1 15kW (20 hp) S3 - 25%
Constant power range	64 to 2000 rpm @ 7.5 kW
Width of cross slide	204mm (8")
X-Axis (cross slide) travel (softlimits)	296mm (11.65")
X-Axis - Motor (stall torque x rpm @ rapid)	2Nm x 4000 rpm
X-Axis - Ballscrew (diameter x pitch)	Ø25mm x 4mm
X-Axis - Pulley ratio	24 : 48
X-Axis - Thrust (@ stall torque)	5.97kN (1341 lbf)
X-Axis - Programmed rapid traverse rate (G00)	8m/min
X-Axis - Rapid traverse rate (jog)	3m/min*
X-Axis - Maximum programmed feed rate	5750mm/min
Bed width	400mm (15.7")
Z-Axis (saddle) travel (softlimits)	2030mm (79.92") / 3050mm (120.08")
Z-Axis - Motor (stall torque x rpm @ rapid)	8Nm x 3000 rpm
Z-Axis - Ballscrew (diameter x pitch)	Ø40mm x 8mm / 10mm
Z-Axis - Pulley ratio	30 : 72 / 24 : 72
Z-Axis - Thrust (@ stall torque)	12.539kN (2817 lbf)
Z-Axis - Programmed rapid traverse rate (G00)	10m/min
Z-Axis - Rapid traverse rate (jog)	4m/min*
Z-Axis - Maximum programmed feed rate	5750mm/min
Tailstock - taper in quill (quill diameter x travel)	No.6 MT (Ø95mm x 145mm)

* To comply with statute, Manual rapid traverse is limited to 2m/min when sliding guard is open.

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Machine Specification - continued

Headstock lubrication	External electric oil pump
Slideway & ballscrew lubrication	Automatic central oil pump
Machine dimensions (length x width x height)	4.1m/5.1m x 2.0m x 1.75m
Machine Weight	3600Kg (7937lb) / 4000Kg (8818lb)
Electrical Supply	24 kVA
Accuracy standards	.B54656 (precision lathes) (DIN 8605)
Safety standards	EN12840 type 3 machine (Manual turning machine with automatic control)
Electrical system	600UK
Machine input voltage	400V AC +10%/-15% 50/60Hz
CNC type	Fanuc 0i-TD with Dual Check Safety

Standard and Optional Accessories

Automatic slideway & ballscrew lubrication	Standard
Electrically Interlocked chuck guard	Standard
Fully enclosed electrically interlocked guarding	Standard
Independant sliding operators console	Standard
Coolant tank, pump and delivery items	Standard
Full length rollaround swarf tray	Standard
Machine lighting - Fluorescent lamps	Standard
Machine Toolbox	Standard
Manually operated tailstock	Standard
Rotating tailstock centres	No.6 MT - Standard
3 jaw geared scroll chuck	305mm (12") - Optional
4 jaw independant chuck	405mm (16") - Optional
Quick change toolposts - Parat	Size 2 & 3 - Optional
Quick change toolposts - Multifix	Size C - Optional
Work holding faceplate with guard - nominal Ø	500mm (20") - Optional
Work holding faceplate with guard (large) - nominal Ø	685mm (27") - Optional
Work driver plate	Optional
Traveling steady (plain or roller) - capacity	110mm (4.3") - Optional
Stationary steady (plain or roller) - capacity	235mm (9.25") / 380mm (15") - Optional
8 station indexing turret - electrically operated	40 VDI - Optional
	[Ø360mm disc, 25 x 25mm tools, Ø40 boring bars]
High pressure coolant system	Optional
Power chuck	380mm (15") - Optional
External floor mounted transformer	200-230 V or 460-600V - Optional

MACHINE SPECIFICATION