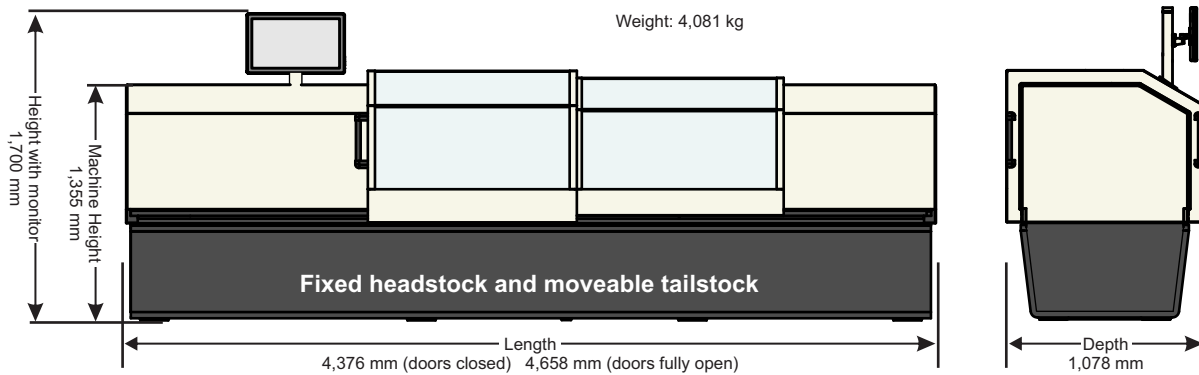


Machine Dimensions and Weight



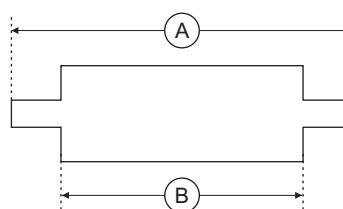
Cylinder Fixturing Options

Hollow Cylinder	Shafted Cylinder	Both Shafted and Hollow	Hollow Cylinders
Headstock: Direct Cone Tailstock: Live Center	Headstock: 3-Jaw Chuck (200mm) Tailstock: Pointed Live Center	Headstock: Inner/Outer Cone Tailstock: Two Live Centers	Headstock: 3-Jaw Chuck with Cone/Arbor Tailstock: Two Live Centers
Max Overall Shafted (A) — Max Face Length (C) 1850 mm	Max Overall Shafted (A) 1900 mm Max Face Length (B) 1700 mm Chuck throat diameter: 55 mm Shaft diameter 10 - 100 mm Max swallow depth: 79 mm	Max Overall Shafted (A) 1900 mm Max Face Length (B) 1850 mm (C) 1850 mm Bore Range (diameter) Outer 75 - 115 mm Shaft diameter Inner 26 - 68 mm	Max Overall Shafted (A) 1900 mm Max Face Length (C) 1600 mm Bore Range 41 - 114 mm
Bore range Small cone: 60 - 105 mm Large cone: 80 - 120 mm			

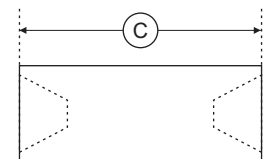
Cylinder Data

Circumference range	350 - 1200 mm ⁽¹⁾
Weight maximum	500 kg
Allowable cylinder taper ⁽²⁾	75 µm
Allowable runout	50 µm
Copper hardness	190 to 230 HV
Deviation of copper hardness	+/-5 HV

Shafted Cylinders



Hollow Cylinders



(1) Maximum physical cylinder sizes. Engraveable Circumferences depend upon applied engrave head, engraving frequency, screen, and screen angle range. See Site Survey 9800-3143 for complete machine details *Weight does not include cylinder

Machine Technical Data

Environmental Temperature	20 - 25°C, 40-65% relative humidity, non-condensing	
Heat dissipation	1.5kW	
Floor bowing under load	0.2 mm/m	
	Execution according to DIN 18202	
	Do not use intermediate floors or support beams as machine foundation	
Maximum allowable floor vibration	Peak to Peak Amplitude	Frequency
	3.8 µm	2 - 8 Hz
	2.5 µm	9 - 15 Hz
	1.5 µm	16 - 21 Hz
	1.0 µm	>21 Hz

Connections

	Power	Voltage	FrequencyFuse
Power supply	5.00 kVA	1x220V +/- 3%	50/60Hz +/- 1%25A
	5.00 kVA	1x230V +/- 3%	50/60Hz +/- 1%25A
	5.00 kVA	1x240V +/- 3%	50/60Hz +/- 1%25A
Communication	Ethernet for Collage Interface. Internet connection, ideally via Collage computer, for TeamViewer remote support is strongly suggested		

Performance and Quality

Mode	3.2kHz	8.1kHz	8.6kHz
Engraving frequency (Hz) ⁽¹⁾	3200	8100	8600
Maximum engraving depth (µm) ⁽¹⁾	70	60	35
Engraving speed m ² /h ⁽¹⁾	0.46 @ 50 l/cm	0.81 @ 60 l/cm	0.38 @ 90 l/cm

Specialty options not listed (tranScribe, Hybrid, High Output). Refer to your quote or sales order for your information

Supplies

Engraving Stylus	90° to 160°
Vacuum bag	

⁽¹⁾ Performance for VISION3 MUL3281/86 engrave head. Additional engraving heads available

Note: Please reference the *Spectrum Site Survey* document (# 9800-3143) for more detailed information.

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