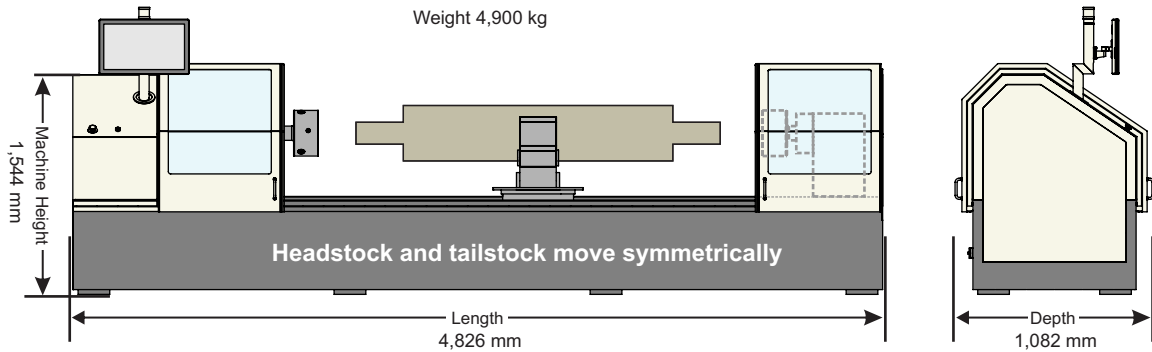
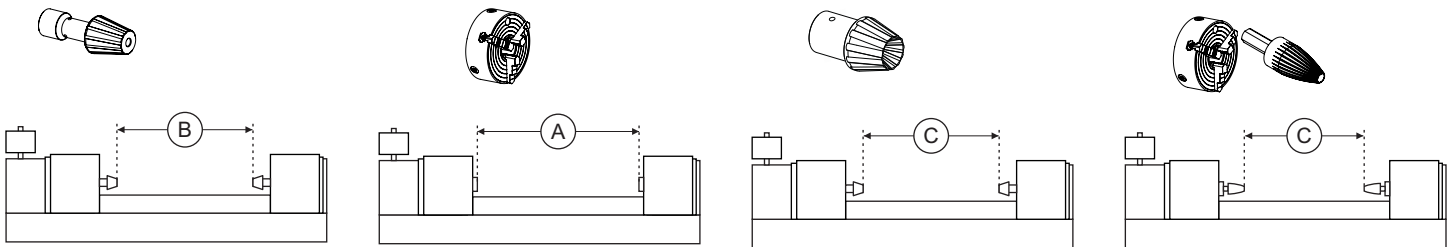


## Machine Dimensions and Weight



## Cylinder Fixturing Options

Hollow Cylinder	Shafted Cylinder	Both Shafted and Hollow	Hollow Cylinders
Direct Cone	3-Jaw Chuck 200 mm (8 inch)	Inner/Outer Cone	3-Jaw Chuck with Cone/Arbor



**Max Overall Shafted**  
(A) —

**Max Face Length**  
(C) 2300 mm

**Bore range**  
Small cone: 60 - 110 mm  
Large cone: 80 - 125 mm

**Max Overall Shafted**  
(A) 2500 mm

**Max Face Length**  
(B) 1900 mm

**Throat diameter**  
55 mm

**Shaft diameter**  
10 - 100 mm

**Max swallow depth**  
79 mm

**Max Overall Shafted**  
(A) 2350 mm

**Max Face Length**  
(B) 1750 mm  
(C) 2200 mm

**Bore Range (diameter)**  
Outer 75 - 115 mm

**Shaft diameter**  
Inner 26 - 68 mm

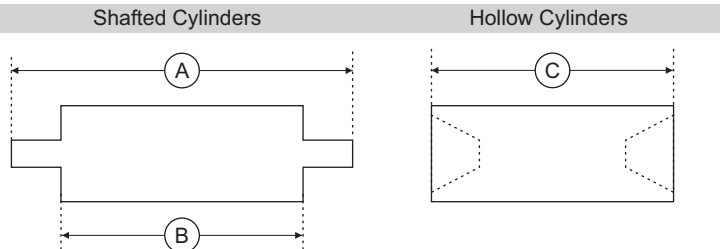
**Max Overall Shafted**  
(A) --

**Max Face Length**  
(C) 2000 mm

**Bore Range**  
41 - 114 mm

## Cylinder Data

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



(1) Maximum physical cylinder sizes. Engraveable Circumferences depend upon applied engrave head, engraving frequency, screen, and screen angle range.  
(2) See Site Survey 9800-3143 for 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
Compressed Air	Minimum pressure of 586 Kilopascals or KPa (85 PSI). Minimum reserve capacity: 19 liters (5 gallons) per engraver. Only for Automated engraver		
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) <sup>(1)</sup>	3200	8100	8600
Maximum engraving depth (µm) <sup>(1)</sup>	70	60	35
Engraving speed m <sup>2</sup> /h <sup>(1)</sup>	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	

<sup>(1)</sup> 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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