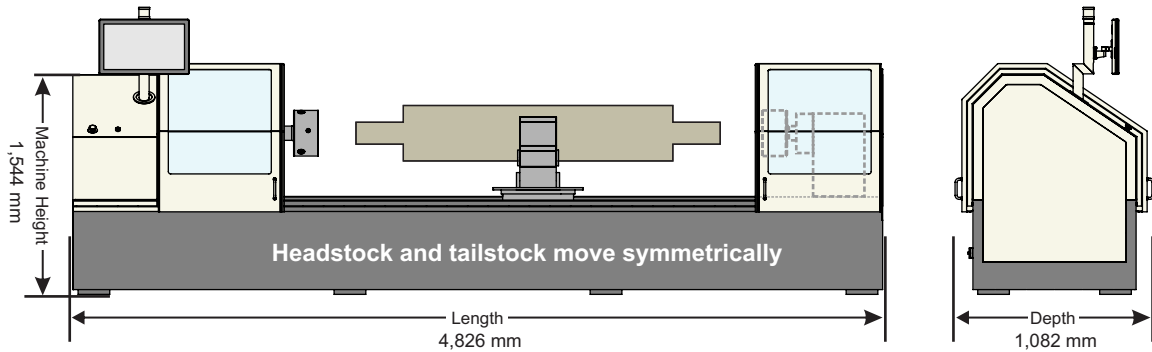
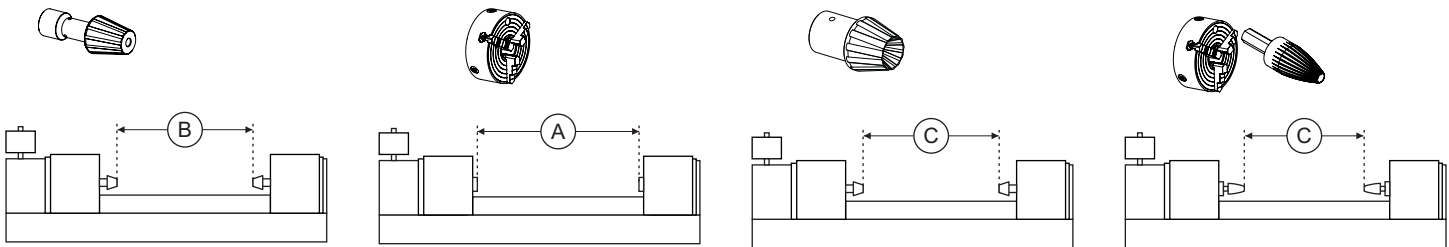


Machine Dimensions and Weight



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

55 - 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

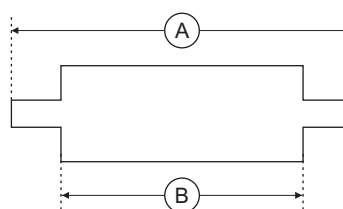
Bore Range

41 - 114 mm

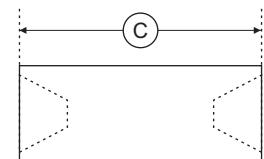
Cylinder Data

Circumference range	350 - 1200 mm ⁽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.
 (2) See Site Survey 9800-3143 for machine weight and other details

GRAVOSTAR SPECTRUM

PACKAGING ENGRAVER

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		

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