

Aerospect SPS Stack Prediction

Precision measurement systems for
Turbine/Engine alignment



Aerospect SPS 2500 C Specification

General	
Column Height:	2641 mm (104.00 in)
Max Diameter:	1160 mm (45.66 in)
Granite:	1524 x 918 x 254mm thick (60 X 36 X 10 in thick)
Worktable Height:	675 mm (26.6 in)
Machine Weight:	1859 kg (4090 lbs)
Electrical Cabinet Weight:	234 kg (515 lbs)
Air Bearing	
Load Capacity:	Optional 2500 lbs (1137 Kg)
Radial accuracy:	0.125 µm [5 µin]
Axial accuracy:	0.125 µm [5 µin]
Tilt Error Motion (coning):	< 0.025 µm/25mm (< 1 µin/in)
Tilt & Center	
Tilt Adjustment:	+/- 1°
Center Adjustment:	+/- 3.1mm (0.125 in)
Axis of Tilt:	95mm (3.8 in) Above Worktable
Work Table Diameter:	455 mm (18 in) optional 500 mm, 605 mm, 800 mm (19.6 in, 24 in, 32 in)
Gage Heads (4- Std, 8- optional)	
Cartridge Style:	0.375" OD, +/- 1 mm (0.040") travel
Lever Style:	+/- 0.30mm (+/-0.012") travel
Ultra Small:	+/- 0.25 mm (+/- 0.010") travel
Measurement resolution:	0.25 µm (10 µin)
Note: Other Gage heads available upon request	
Electrical	
Encoder:	1000 line
Flat screen LCD Display	
Industrial Computer	
CE Approved	
Printer included	
Power:	120VAC-50/60hz or 220 VAC-50/60hz
Power Consumption:	500VA
Air Requirements:	Pressure: 50 – 80 psig
Air Usage:	1.5 scfm @ 60 psig, (42 l/min)



SPS Column

2500 lbs load capacity.
2300 mm tall parts and
assemblies may be
conveniently measured
and stacked.

* Floor plan available
on request

Aerospect SPS Portable Specification



General

The SPS Portable system enables Stack prediction measurements of components or stacks. Measurements can be made on any axis of rotation, such as machine tools or balancing systems. Easy to use Aerospect software allows the creation of SP values and orientation. Industrial hardened computer, encoder wheel, and gaging electronics make for a very versatile metrology system.

Gage Heads

Cartridge Style:	0.375 in OD, +/- 1 mm (0.040 in) travel
Lever Style:	+/- 0.30mm (+/-0.012 in) travel
Ultra Small:	+/- 0.25 mm (+/- 0.010 in) travel
Measurement resolution:	0.25 μ m (10 μ in)

Note: System delivered with 4 off cartridge style gauges, other gauge heads available upon request

Electrical

Encoder:	200 line
Flat screen LCD Display	
Industrial Computer	
CE Approved	
Printer included	

NOTE: Precitech pursues a policy of continual improvement due to technical developments. We therefore reserve the right to deviate from catalog specifications.