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# Aerospect SPS Stack Prediction

Precision measurement systems for  
Turbine/Engine alignment



# Aerospect SPS 2500 C Specification

<b>General</b>	
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)
<b>Air Bearing</b>	
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)
<b>Tilt &amp; Center</b>	
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)
<b>Gage Heads (4- Std, 8- optional)</b>	
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)
<b>Note: Other Gage heads available upon request</b>	
<b>Electrical</b>	
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  $\mu$ m (10  $\mu$ 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.