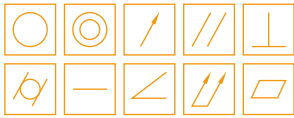




# Hommel FMS 6210 | 6220 | 8100 | 8200

Automated Form Measuring Systems - Spindle Type



Heavy and non-symmetrical components are more accurately measured using a rotating scanning head when measuring form characteristics. Spindle measuring machines are used for measurements at different positions in the X-Y plane where the measured values are related to each other.

### Features

- Air bearing and a manually driven X-Y table
- Automatic centering and levelling
- Extensive collision protection
- Freely moveable operator terminal for entire machine control
- Bores measured on large components
- Software options for numerous applications
- Table load capacity up to 300 kg
- Wear-free air-bearing guidance



Specification	FMS 6210	FMS 6220	FMS 8100	FMS 8200
<b>Spindle Bearing</b>		air		
<b>Radial roundness error</b>		0.1 µm		
<b>+ µm/mm measuring height</b>		0.0008		
<b>Axial roundness error</b>		0.1 µm		
<b>+ µm/mm radius</b>		0.0008		
<b>Angle measuring system (resolution)</b>		0.01°		
<b>Positioning accuracy</b>		0.1°		
<b>Measuring distance Z axis</b>	900 mm	1300 mm	900 mm	1300 mm
<b>Straightness error / 100 mm</b>		0.3 µm		
<b>Straightness error / 900 mm</b>		1.8 µm		
<b>Straightness error /1300 mm</b>		-		2.6 µm
<b>Positioning error/Measuring distance</b>	12 µm/mm		12/15 µm/mm	
<b>Measuring distance R axis</b>		900 mm / 1300 mm		
<b>Straightness error /150 mm</b>		1.5 µm		
<b>Positioning error /150 mm</b>		5 µm		
<b>Traverse distance X axis</b>		800 mm		
<b>Straightness error /100 mm</b>		-		0.5 µm
<b>Straightness error / 800 mm</b>		-		1.8 µm
<b>Positioning error / 800 mm</b>		-		10 µm
<b>Traverse distance Y axis</b>		300 mm		
<b>Straightness error / 100 mm</b>		-		0.5 µm
<b>Straightness error / 300 mm</b>		-		1.8 µm
<b>Positioning error / 300 mm</b>		-		6 µm
<b>Table dimensions</b>	400 x 400 mm		600 x 450 mm	
<b>Load capacity</b>	300Kg		200Kg	
<b>Workpiece alignment</b>			automatic	