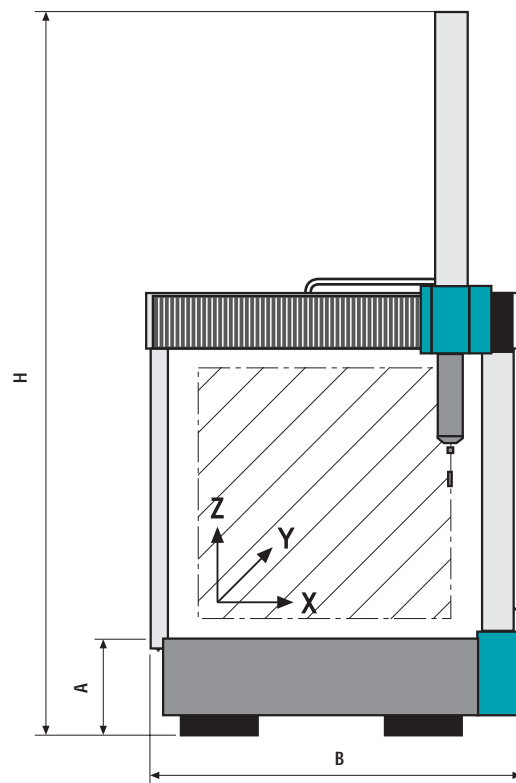


# 3 – COORDINATE MEASURING MACHINES

## System RH, Nr. 132

### Roller bearing, horizontal

The RH 132 bridge type coordinate measuring machine features machine tool grade high accuracy linear guide ways in the X and Y axis, Z axis finely tuned pre-loaded roller bearings provide minimum friction and operational wear. The Z axis counterbalance is obtained through a pneumatic cylinder capable to hold the Z ram in any position. X and Y axis guide systems are protected by bellows. The cast iron base plate is finely machined to DIN 876/2. Optional special design with anti vibration dampers on request.



### Technical features

## RH 2016

## RH 2020

Measuring ranges	x-axis	mm	2000	2000	2000	2000	2000	2000
	y-axis	mm	3000	4000	5000	3000	4000	5000
	z-axis	mm	1600	1600	1600	2000	2000	2000
Usable base plate area:								
length		mm	4500	5500	6500	4500	5500	6500
width		mm	2290	2290	2290	2290	2290	2290
Rail thickness		mm	450	450	450	450	450	450
Work table height (A)		mm	600	600	600	600	600	600
Overall dimensions:	length (L)	mm	4610	5720	6800	4640	5720	6800
	width (B)	mm	2890	2890	2890	2890	2890	2890
	height (H)	mm	4850	4850	4850	5650	5650	5650
Weight		kg	11000	13000	15000	11500	13500	15500
Max. weight of workpiece		kg	4000	5000	6000	4000	5000	6000
Air pressure min.								
Air consumption		NI/min		50			50	
Power supply			115/230 V, 60/50 Hz			115/230 V, 60/50 Hz		
Power consumption		max. VA	2000			2000		
Temperature range*			20°C ± 2K			20°C ± 2K		
Max. gradient			1K/4h, 0,5 K/m			1K/4h, 0,5K/m		
Measuring system			incremental-scales			incremental-scales		
Resolution		mm	0,0005			0,0005		
Measuring uncertainty acc. to VDI 2617								
Standard accuracy								
Linear uncertainty		U <sub>1</sub> =	18 + (L/100) μm			22 + (L/100) μm		
Volumetric uncertainty		U <sub>3</sub> =	25 + (L/80) μm			30 + (L/80) μm		
Order No.			132.4.110	132.4.111	132.4.112	132.4.120	132.4.121	132.4.122
High accuracy								
Linear uncertainty		U <sub>1</sub> =	12 + (L/120) μm			150 + (L/120) μm		
Volumetric uncertainty		U <sub>3</sub> =	17 + (L/100) μm			20 + (L/100) μm		
Order No.			132.5.110	132.5.111	132.5.112	132.5.120	132.5.121	132.5.122

\*with manual temperature compensation