

Taring scale for motor car connecting-rods PHW



Advantages

- Modular design for optimum adaptation.
- Fully automatic operation.
- High precision through
 - Latest weighing technology
 - NC controlled milling units
 - NC controlled stroke step transport.
- Integration with production lines.

Applications

- Measuring and compensation of the oscillating and rotating weight component as well as the total weight of machined motor car connecting rods.
- Application in batch production operation in the automotive and supplier industries and interfaced with production lines.
- Weight correction by milling at the correction pads on the smallend and/or big-end.

Description

- Modular design taring scale with stroke step transport of connecting rods, as required with:
 - Two loading stations,
 - Two sensing stations for internal diameter, pad width and height, cut position,
 - Weighing station with two industrial weighing cells,
 - Milling station for big-end, face mill cutter with tungsten carbide tips,
 - Deburring station for big-end, hydraulically actuated tungsten carbide tip,
 - Brushing station for big-end,
 - 45° rotation station,
 - Milling station for small-end,
 - Deburring station for smallend,
 - Brushing station for smallend,
 - Checking station,
 - Two unloading stations.

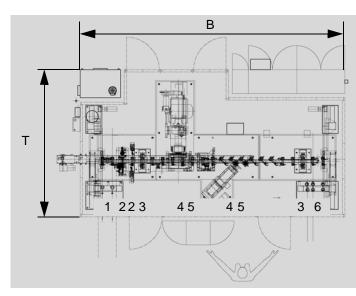


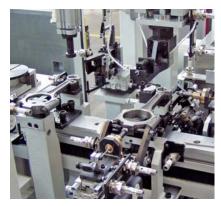
General view



Milling and deburring of small-end All information without obligation, subject to change without notice







Sensing station

1 Feeding, 2 Sensing, 3 Weighing, 4 Milling, 5 Deburring, 6 Discharging

Technical data				
Rotor:		PHW3-FH12	PHW3-FH6	
Machining big-end		Х	X	
Machining small-end		Х		
Total weight, max.	g	1000	1000	
Bore gauge ¹⁾	mm	145 - 180	145 - 180	
Bore, big-end ¹⁾	mm	50 - 65	50 - 65	
Bore, small-end ¹⁾	mm	15 - 30	15 - 30	
Machine:				
Width x depth x height	mm	6600 x 3700 x 2500	6100 x 3000 x 2200	
Attainable tolerance ²⁾	g	±2	±2	
Measuring uncertainty	g	0,2	0,2	
Cycle time	S	< 5	< 6	
Stations		12	6	

¹⁾ Other dimensions on request

²⁾ Per machined pad, depending on pad form accuracy

Options

- Loading station
- Milling station for small-end
- Deburring station for small-end
- Brushing station
- 45° rotation station
- Unloading station
- Swarf conveyor

Scope of supply

- Stroke step transport
- Sensing station and geometry master
- Weighing station (dual scale) and master part with calibration weights
- Milling station for big-end
- Deburring station for small-end
- Resting position
- Checking station (twin scale)
- Noise control booth
- Switch cabinet
- Measuring computer

 Peripheral supply units (lubrication, hydraulics, pneumatics)