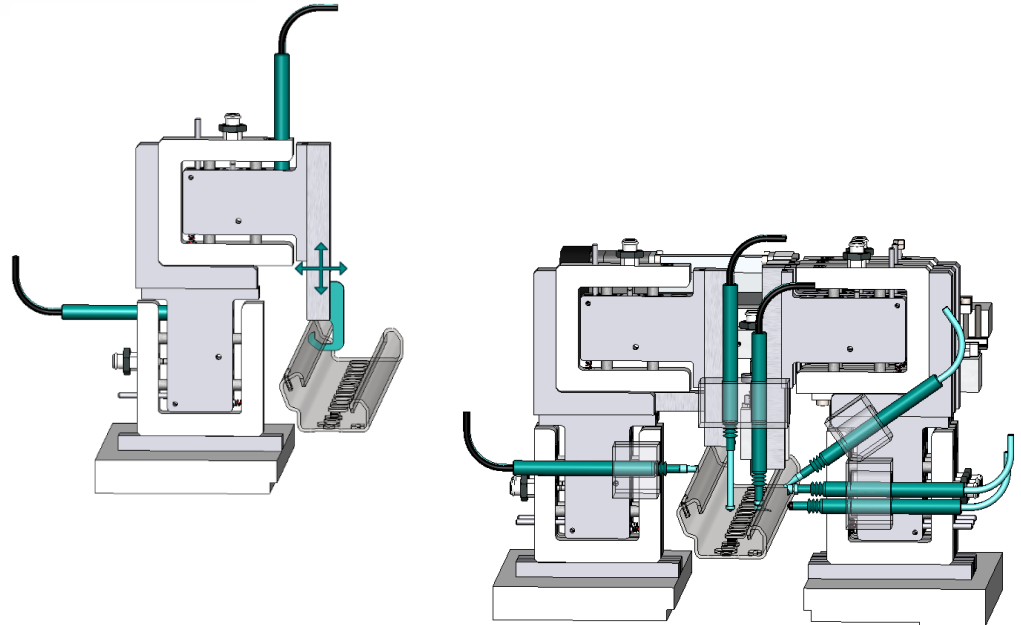


Rail test device



- Measuring device for tactile geometry testing of automobile seat rails
- 3D measurement concept
 - Measuring head with pneumatic sensors moves down the rail and measures at defined measuring positions
 - Cross-section profile is measured independently from the shape deviation (straightness) of the rail longitudinal axis, while simultaneously the magnitude of this shape deviation is identified
- Properties:
 - Special design adapted to rail geometry
 - Variable rail length
 - Spot checking
 - OK / NOK indication with light signal and on the monitor
 - Documentation and archiving of the measurement results including trend evaluation (control chart)
- Highlights:
 - Division of the rail into segment sections to which freely parameterisable measuring tasks can be assigned
- Optional:
 - Automated equipment by means of robot handling
 - Additional device: Gauge for attachment holes
 - Simple version: Small table-top device for measuring the profile outer contour only



Technical Data

Test piece	Seat rails for automobiles 200 ... 500 mm (optionally >500 mm)	
Measurement data	Shape and position tolerances of the ball raceways (outer and inner contour) Positions, lengths, angularity of the cross-section profile Flatness (bending, straightness, twist) of the support surface	
	Resolution: 0.001mm Accuracy: ± 0.02	
Adjustable parameters	Tolerance limits Rail length Measuring task can be defined for each rail segment	
Cycle time	approx. 30 ... 120 s (depending on the number of measuring positions)	
Measurement data processing		
Hardware	Industrial panel PC	
Operating system	Windows	
Measuring data software	Rail Inspect®	
Visualisation	Light signal, monitor	
Storage, archiving	csv file	
Export	individual QA systems	
Electrical characteristic data	IEC	UL / CSA
Supply	400 V / 50 Hz / 16 A	480Y/277 VAC / 60 Hz / 15 A
Control voltage	24 V DC	24 V DC
Connected load	3.5 kVA	3.5 kVA
Compressed air connection	6 bar	
Airborne noise emission	<75 dB(A)	
Machine dimensions		
Width	approx. 1.7 m	
Depth	approx. 0.8 m	
Height	approx. 2.2 m	
Weight	approx. 450 kg	

