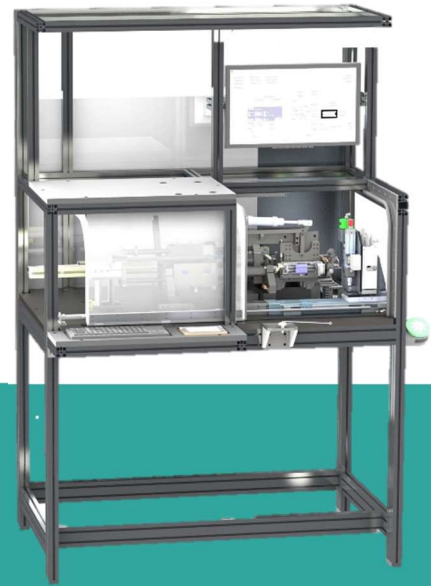
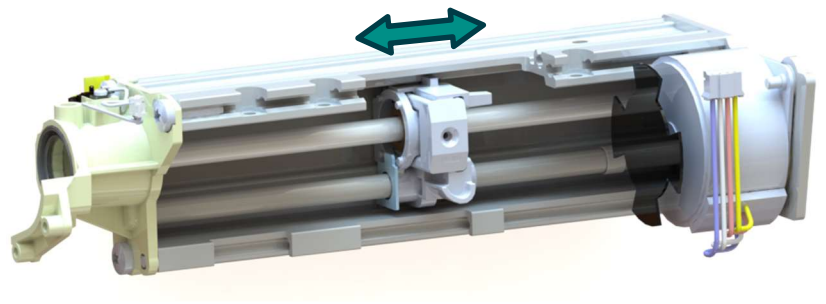


Axial bearing play measuring (Dosing pump drive)



- Measuring system for the axial play of the ball screw guide on the drive assembly of medical dosing pumps
- Measuring principle: Path measuring system with pulse counter (light sensor) and resistance measurement of a linear potentiometer
- 100% inspection, manual operation
- Measurement under the influence of highly accurate controlled test forces
- Automatic greasing of the running surfaces
- Test force and test speed can be freely parameterised
Test sequence can be freely combined
- Data storage: Measurement results and process parameters in SQL database, compliant with FDA and GMP guidelines
- Automatic protocol printout with electronic signature



Technical Data

Test piece	Drive assembly for medical dosing pumps (perfusor)	
Measurable bearing play	0.01...0.2 mm	
Measuring accuracy	2 µm	
Measuring system resolution	0.1 µm	
Test force	±0...150 N	
Test force tolerance	±0.5 N (starting from 5 N)	
Cycle time with greasing	180 sec	
Greasing		
Grease quantity	0.004...0.1 g/shot	
Number of greasing points	1...50	
Inching speed for positioning	5...5000 Hz	
Measuring data processing and machine control		
Hardware	IPC	
Operating system	Windows	
Measuring data software	MTF® (LabVIEW)	
Visualisation	Screen	
Data storage	assigned to the test piece	
Storage	csv file	
Export	SQL database	
Electrical characteristic data	IEC	UL / CSA
Supply	400 V / 50 Hz / 16 A	480Y/277 VAC / 60 Hz / 16 A
Control voltage	24 V DC	24 V DC
Connected load	1 kVA	1 kVA
Compressed air connection	6 bar	
Airborne noise emission		
Maximum sound pressure level	<83 dB(A)	
Equivalent permanent noise level	<75 dB(A)	
Machine dimensions		
Width	2.0 m	
Depth	1.4 m	
Height	2.2 m	
Weight	approx. 700 kg	

