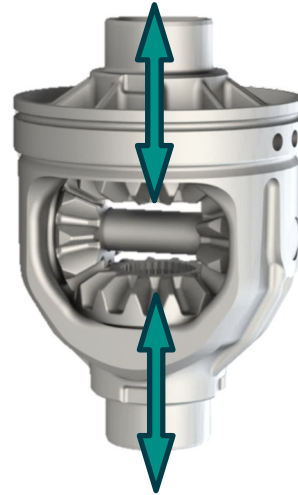


## Measurement of differential gear axial play end-of-line

- Automatic measuring system for the axial play and the idling torque of bevel differential gear integrated into an assembly line
  
- Axial play:
  - Insertion of test axes moved by electrical motor into the bevel gear axes
  - Determination of the maximum play
  - Force and path evaluation
  - Test force can be parameterised freely
- Idling torque:
  - Determination by means of a test axis in the drive bevel gear and fixed transmission housing
  - Torque sensor
  
- - 100% inspection during the assembly process
  - OK/NOK evaluation
  - Can be combined with manual or automated assembly stations through cycle belt linking
  - Flexibly adaptable to different sized differential gear types
  - Space-saving, short cycle times
  
- Optional:
  - Low-cost variant as a manual equipment test station with horizontally arranged, pneumatically adjustable test axes
  - Variant as test station for determining the necessary thickness of the bevel gear setting rings



## Technical Data

Test piece	Bevel differential gear
Measurement data	Axial play Idling torque, drag torque
Adjustable parameters	Max. test force (traction, pressure) Speed, direction of rotation, number of revolutions
Cycle time	approx. 40 sec
Measuring data processing and machine control	
Hardware,	PLC SIMATIC S7-1500
Measuring data software	PLC
Visualisation	Touch panel
Storage, archiving	csv file
Export	individual QA systems, SQL database
Optional	
Measuring data evaluation via	PC application
Electrical characteristic data	IEC
Supply	400 V / 50 Hz / 3x63 A
Control voltage	24 V DC
Connected load	30 kVA
Compressed air connection	6 bar
Airborne noise emission	
Max. sound pressure level	<83 dB(A)
Eq. permanent noise level	<75 dB(A)
Machine dimensions	
Width	1.2m
Depth	1.2m
Height	2.2m
Weight	800 kg

