PREMETEC

Test Bench Slip Clutch

- Clutch test bench end of line for torque clutches for running in the friction lining and for adjusting and checking the maximal torque that can be transferred

- Run-in process of the friction lining:

  The clutch is installed in the adapter with torque pre-set low (for different ø test piece types) and clamped between the drive motor and the measuring section

  Friction discs are run in at high revolutions, under observation of the resulting friction heat within a specified time window

  Extraction of the particles and gases hazardous to health

- Setting the maximally transmissible torque:

  Manual setting of the transmissible target torque while the friction discs are turning slowly

  Display of the current torque at the monitor

  Documentation of the measurement result

- Optional: Run-in and setting processes in 2 separate stations with interim cooling section

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Technical Data

Test piece	Slip clutches, torque clutches
Measurement data	Torque Speed Temperature Slip time
Limit value in the run-in process	Speed: 250 min^{-1} Maximal permissible torque: 130 Nm
Limit value for the setting	Speed: <10 min^{-1} Maximal permissible torque: 500 Nm
Measuring data processing and machine control	
Hardware	SIMATIC S7 PLC
Measuring data software	PLC
Visualisation	Touch panel
Storage, archiving	csv file
Electrical characteristic data	IEC
Supply	400 V / 50 Hz / 125 A
Control voltage	24 V DC
Connected load	9 kVA
Compressed air connection	Not required
Airborne noise emission	
Max. sound pressure level	<83 dB(A)
Eq. permanent noise level	<75 dB(A)
Machine dimensions	
Width	1.7 m
Depth	1.5 m
Height	2.2 m
Weight	900 kg

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