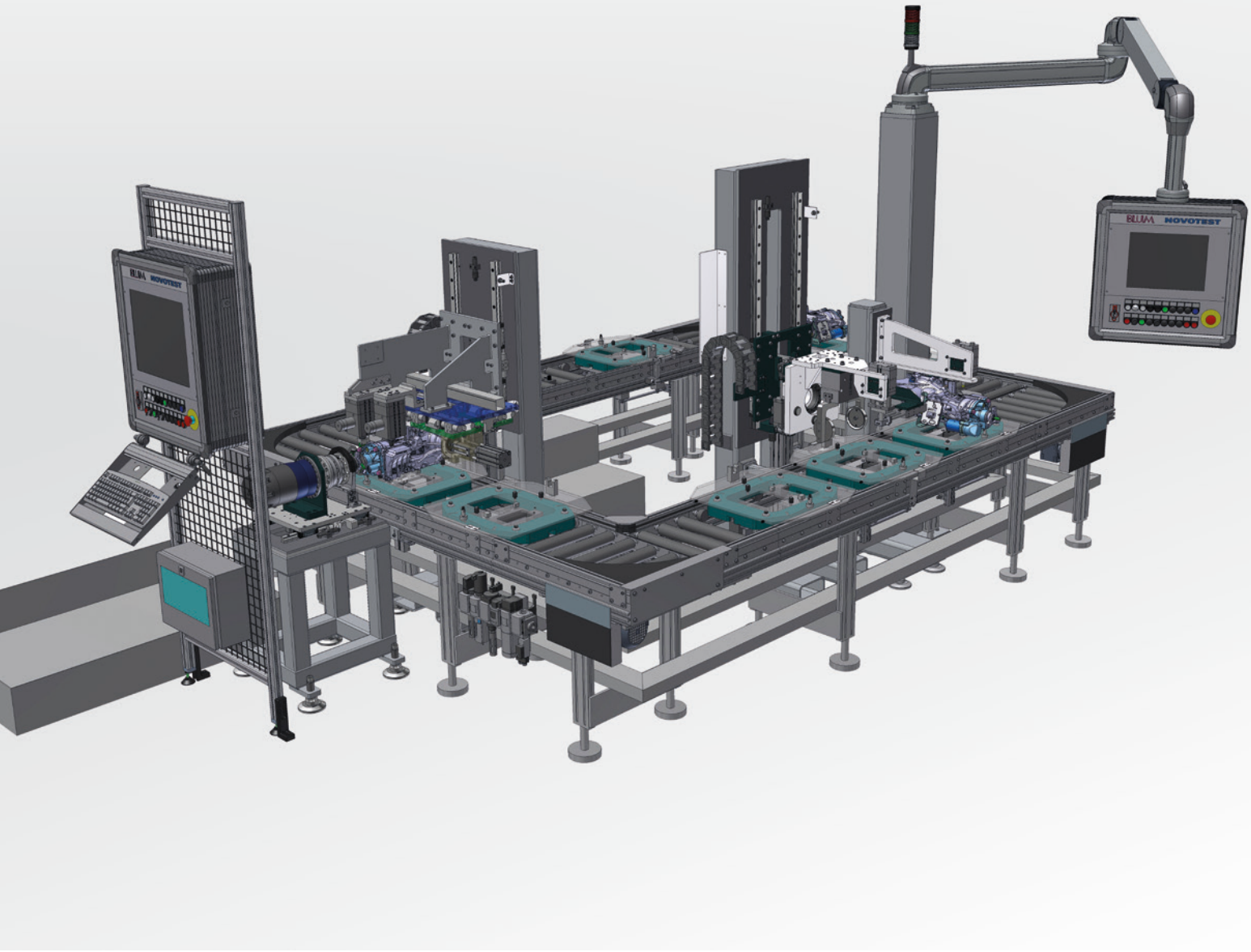


TEST BENCH

FOR CLUTCHES IN REAR-AXLE DRIVES

BLUM NOVOTEST

TEST BENCH
FOR CLUTCHES IN REAR-AXLE DRIVES

The test bench is designed to allow fully automated leak testing, oil filling and function tests for clutches in rear-axle drives. As an "end-of-line" test bench, it is integrated into an assembly line. Specimens are rear-axle drives with an integrated differential, which are equipped with a hydraulically operated multi-plate clutch.

Tests and functions

Leak test

Evaluation of leakage rate by means of leak test computer (1000 mbar)

Oil level

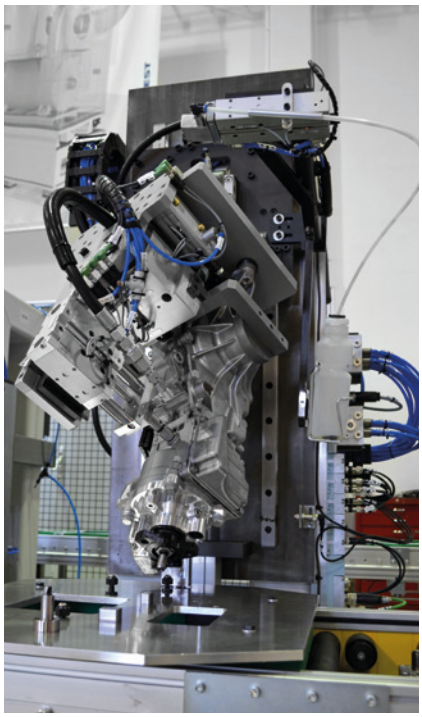
Filling the rear axle differential with the operating medium in the optimal filling position.
For dosage the correct volume of oil, a batcher with the ASR 20 control system is used.

Functional test/EOL test

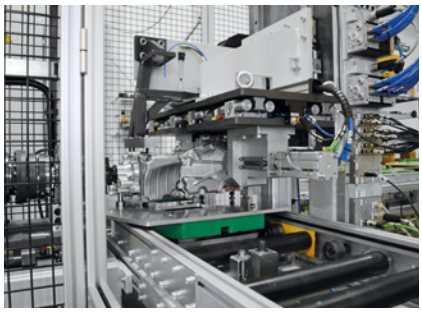
1. Software version check
   Comparison of the software version in the control units with the current stored and released version number.

2. Venting hydraulic system
   Trigger a venting routine in the control unit using a diagnostics job and remove the remaining air.

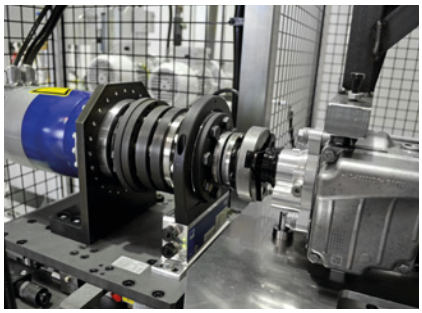
3. Measurement of adjustment accuracy
   Record and evaluate the clutch characteristic curve using a pre-defined speed-torque profile.



Oil filling at an inclined position



Function test station



Drive unit with torque measurement flange

Technical data

General	Dimensions H = 5 m, W = 3.2 m, D = 2.7 m Weight approx. 4.8 t Pneumatic system 6 bar Working height approx. 750 mm
Motor	Speed max. 73 rpm Nominal torque 950 Nm up to 67 rpm
Torque transducer in drive train	Nominal toque 1000 Nm
Leak test computer	Pressure range 0 - 1000 mbar Measurement range -25 ml/min +25 ml/min

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