



TEST STAND
FOR DOUBLE CLUTCH TRANSMISSIONS

BLUM
NOVOTEST



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The transmission test stands developed by Blum-Novotest are used for quality assurance purposes during production. The test stand illustrated here is used to test the function of the transmission at the end of the production line. This is a 100 % test.

General information:

- Automated test- and final life time oil filling
- Flexible test procedure programming via elementary steps
- CAN-Bus communication with transmission STG
- SQL-database for output data
- Open interface to all measurement data
- Printouts can be issued in PDF or HTML format and are thus platform independent
- Fully automated test procedure

Test procedures:

- Objective noise analysis
- Gear adaptation mechanism
- Clutch characteristic curve test (kiss point)
- Sensor test (transmission internal sensors e.g. pressure, temperature, rotation speed)
- Drag torque measurement
- Differential test
- E-Differential test
- FFT analyses of the system pressure
- Pump performance measurement of the internal transmission pumps
- Simulation of the vehicle oil heat exchanger
- Permanent inspection of the oil pureness according to DIN ISO 4606
- Shift time test
- Synchronous test
- Parking lock tests

Features:

- NOVOTEST control software
- Noise analysis system
- NOVOTEST oil infrastructure for 2 oil circuits

Technical data

Type	Test stand for series production for double clutch transmissions with 3 engines
Specimens	Rear-transverse transmissions with double clutch – 7-speed transmission
Input	Shaft power max. 126 kW Rotation speed max. 7000 rpm Drive torque max. 200 Nm
Outputs	Shaft power max. 128 kW Rotation speed max. 3500 rpm Drive torque max. 1450 Nm
Number	1 test stand



Infeed for oil circuit for gear set



Infeed for noise sensor
Infeed for output right



Oil filling