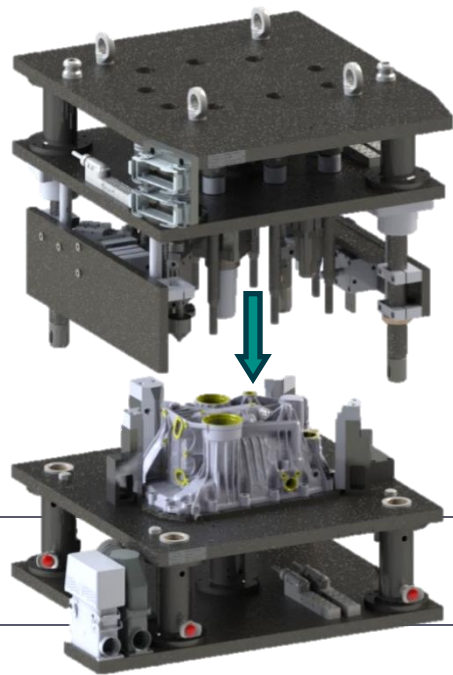




## Leak testing with air pressure

- Leak test of large-volume cast housings with differently designed ducts and connection openings
- Test principle:
  - Introduction of air pressure into the sealed test piece
  - Pressure drop monitoring (leak)
- 100% inspection  
OK marking by means of punch marking  
NOK documentation via label printing
- Parallel use of several leak test devices,  
temperature compensation for standardised leakage evaluation
- Channels to be tested can be freely combined  
Test pressures (differential pressure method) can be freely selected
- Changing devices:
  - For different test pieces
  - Can be converted with overhead crane
  - Motorised/pneumatic supply of the seals for the test pieces from 5 sides
  - Detection system for defective seals (O-rings and rubber washers)



## Technical Data

Test piece	Cast iron housing with channels
Number of test volumes	1...11
Channel test volumes	2...40 cm <sup>3</sup>

### Measurement data

Perm. leakage	8...16 cm <sup>3</sup> /min
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### Test parameters

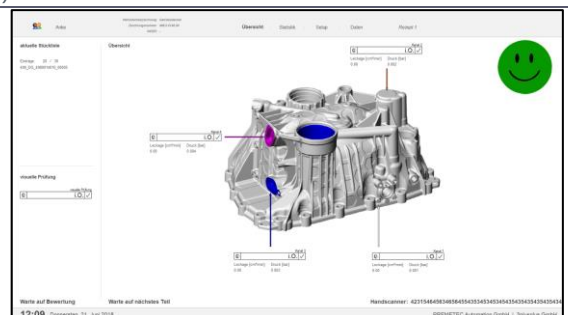
Test pressure	1 ... 3 bar
Test pressure tolerance	±0.2 bar

Total test duration	120 sec
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Changeover time	<10 min (with overhead crane)
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### Measurement data processing

Hardware	IPC
Operating system	Windows
Measuring data software	premeSTAR®
Visualisation	Screen
Storage	csv file
Export	individual QA systems



Machine control	SIMATIC S7 PLC
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Visualisation	Mobile touch panel
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### Electrical characteristic data

Supply	400 V / 50 Hz / 32 A	UL / CSA	480Y/277 VAC / 60 Hz / 32 A
Control voltage	24 V DC		24 V DC
Connected load	10 kVA		10 kVA

Compressed air connection	6 bar
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### Airborne noise emission

Maximum sound pressure level	<83 dB(A)
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Equivalent permanent noise level	<75 dB(A)
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### Machine dimensions

Width	2.1 m
Depth	3.0 m
Height	3.1 m
Basic machine weight	4,200 kg
Changing device weight	800 kg