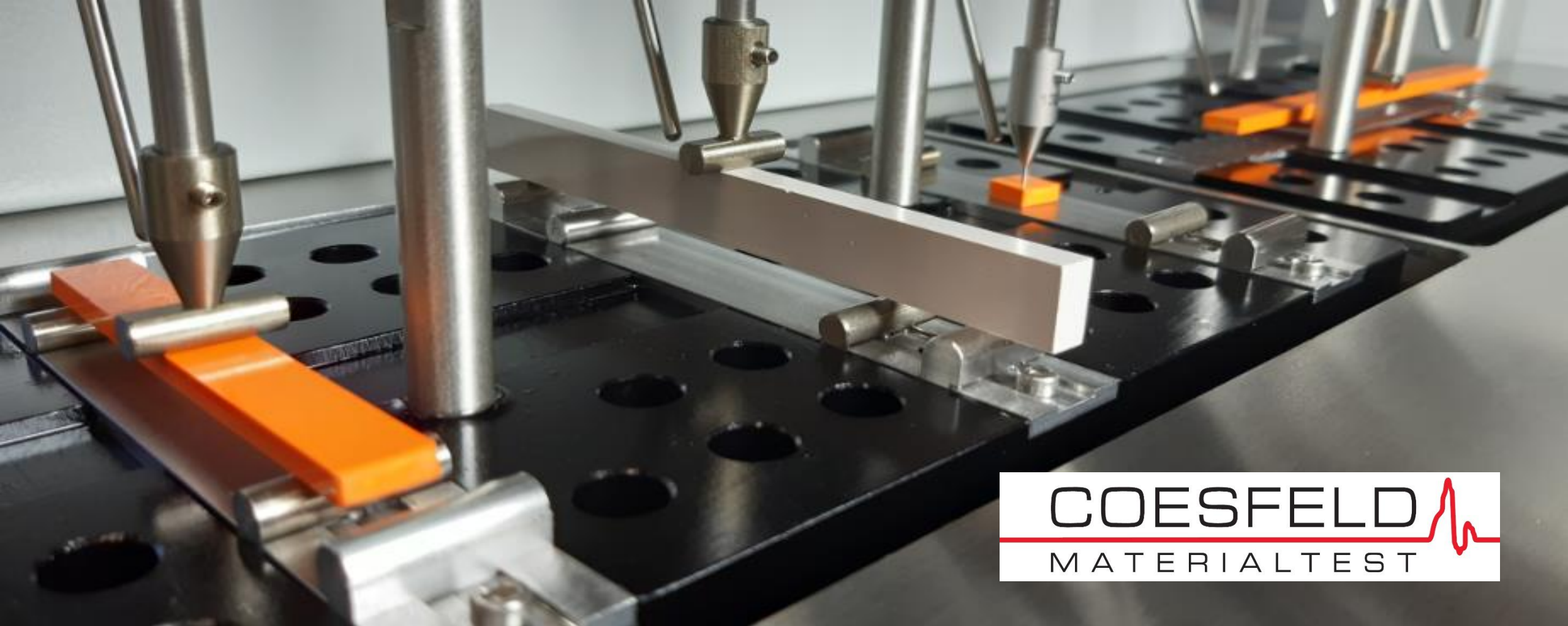




VST / HDT

VICAT Softening / Heat Distortion Temperature

www.coesfeld.com

VICAT Softening- HDT Head Distortion Temperature

are standardized measures to characterize thermal resistance of plastics

HDT

Heat Distortion Temperature

DIN EN ISO 75-1,-2,-3 / ASTM D648

VST

Vicat Softening Temperature

DIN EN ISO 306 / ASTM D1525

Since the 1990th Coesfeld is known for reliable HDT and VST test machines. Our units are installed successfully all over the world and stand for long-lifetime and high reproducibility.

Since 2009 our calibration services are accredited by DAkkS.

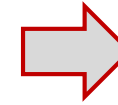


PROOFED Technology > Modern Design

from manual testing to automated industrial testing

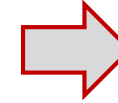
Basic

- Occasional Testing at Restricted Budget
- 3 Stations with Manual Lift
- Direct Control without PC
- PC Control and LIMS-Connection Available



Standard

- Professional Testing Scaled to Your Needs
- 3 or 6 Stations with Automatic Lift
- Automatic Weight Loading
- Integrated Fume Exhaust
- Ultra Fast Cooling Available



Automat

- Automatic Testing at High Throughput
- 6 Stations with integrated Automatic Load Selection
- Automatic Sample Feeding Available



VST/ HDT Oil Systems

**3 Station
Basic and
Standard**



**6 Station
Standard**



**6 Station
Semi-Automat**



**6 Station
Full-Automat**



TECHNICAL SPECIFICATION

Temperature Sensor per Station	0
Creep Test	0
Travel Resolution	0.001 mm
Temperature Accuracy	< 0.1 °C
Large Service Bath Opening	0
Power Cooling from 300 °C	~ 15 min
Mains	230 V 50/60 Hz / 2500 VA

3 STATION

Cooling Time from +300°C	~ 40 min
Bath Volume	7,5 liters
Dimensions (WxDxH)	804 x 470 x 604 mm

6 STATION

Cooling Time from +300°C	~ 45 min
Bath Volume	10 liters
Dimensions (WxDxH)	1054 x 470 x 604 mmmm

STANDARD

Automatic Lift	0
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AUTOMAT

Integrated Weight Set	0
Sample Feeder	optional

VST OIL-FREE

Clean Testing / No Oil Fumes

Proofed and according to
international test standards



ECO-Vicat

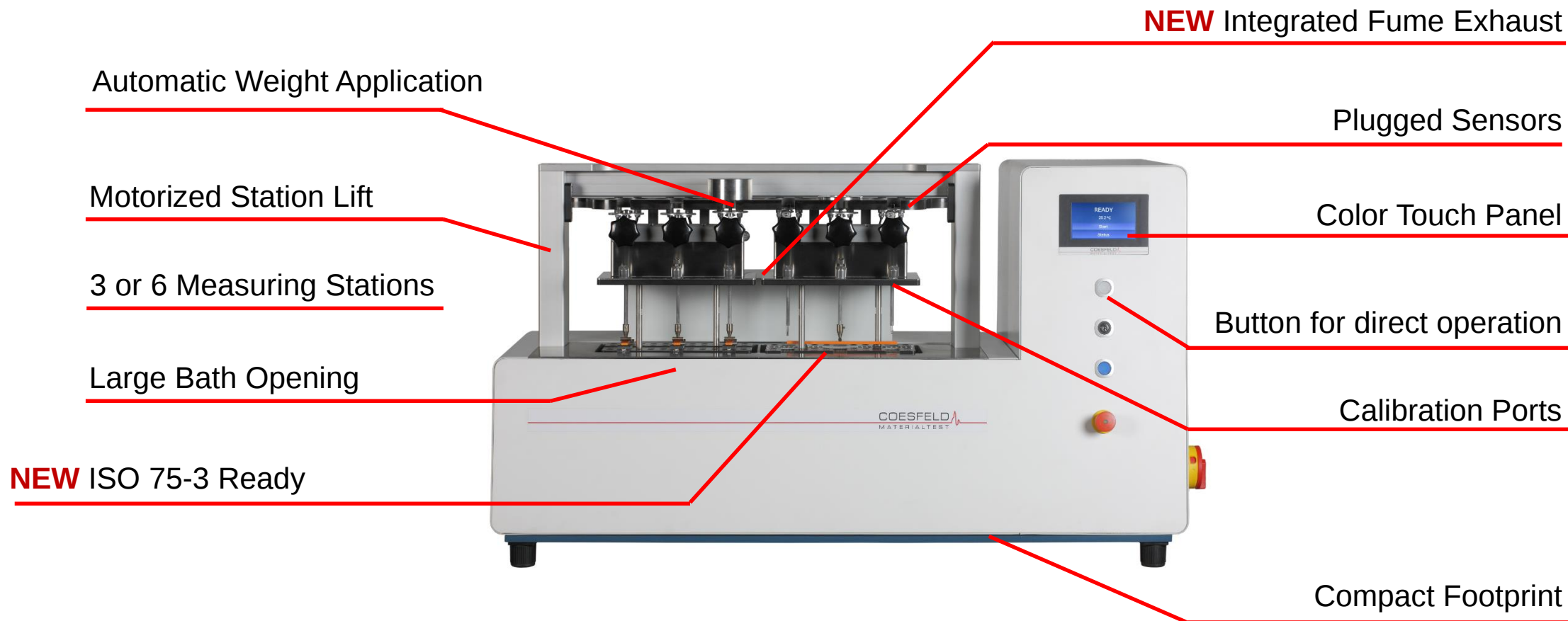
Temperature Sensor per Station	0
Creep Test	0
Travel Resolution	0.001 mm
Temperature Resolution	0.1 °
Cooling Time +300 °C -> RT	< 20 min
Oil Free	0
Integrated Weight Application	0
Automatic Sample Feeder	optional
Dimensions (T x B x H)	750 x 400 x 700 mm

Sample Feeder for Full Automation Available!



VICAT Stations

VST/ HDT Standard



VST/ HDT Automat

NEW Integrated Automatic Weight Selection

NEW Integrated Fume Exhaust

Plugged Sensors

Motorized Station Lift

Color Touch Panel

6 Measuring Stations

Button for direct operation

Large Bath Opening

Calibration Ports

NEW ISO 75-3 Ready

Compact Footprint

NEW Optional Sample Feeder



Fully Automated System

Two Sample Magazines,
e.g. ISO and ASTM

Pneumatic Grip

NEW Add-On Sample Feeder

Drawer for used samples

Still Good Accessibility
for Manual Testing

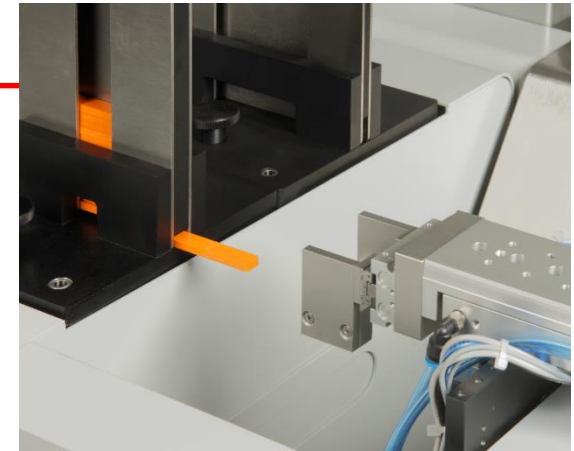


Fully Automated System



Drawer for used samples

Pick and Place



Remove and Place

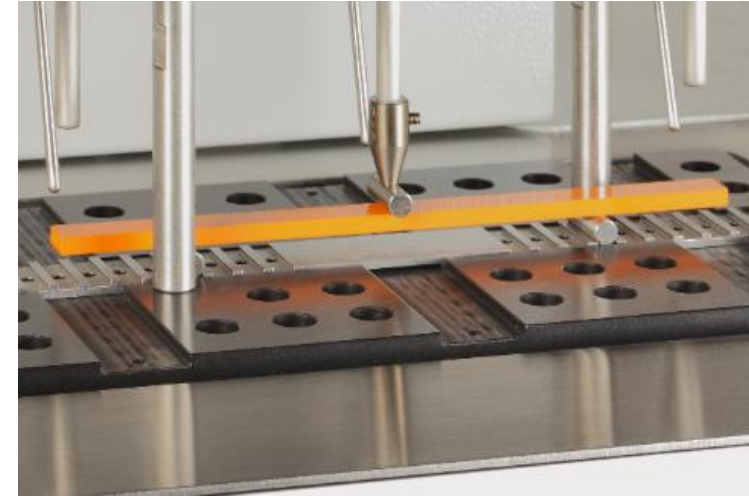


Three Station Measuring Head

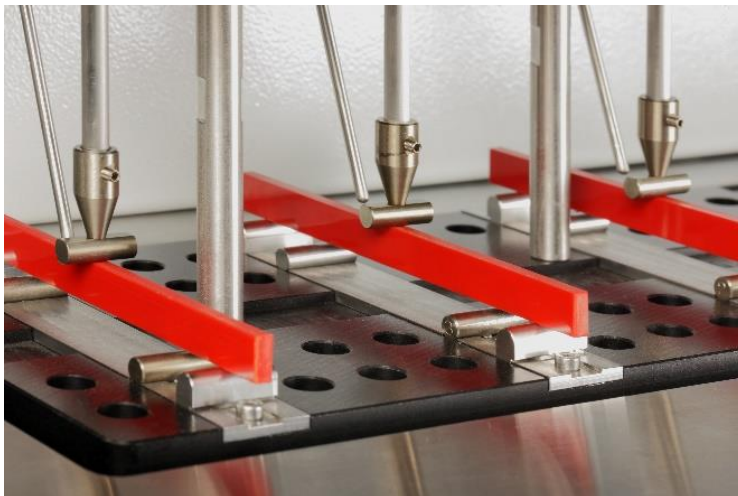
HDT - ISO 75



NEW HDT - ISO 75-3



HDT – ASTM D648

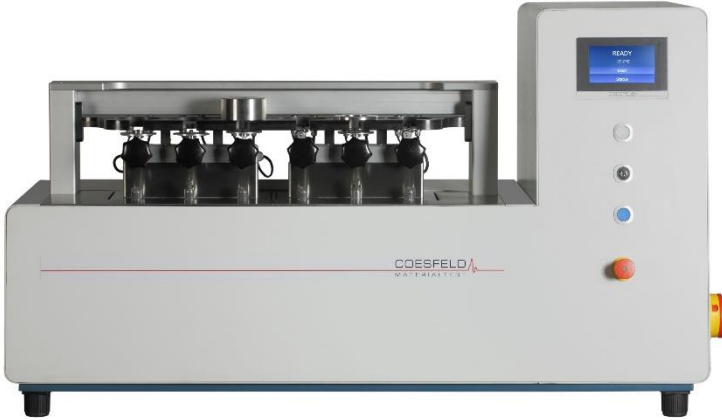


VST - ISO 306/ ASTM D1525



Motorized Lift with Auto-Weight Loading

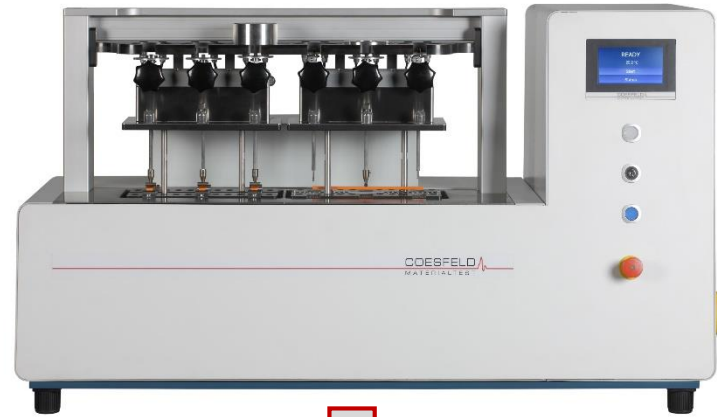
System in Measuring Position



Closed Oil Bath

- calibration ports for service
- fume exhaust integrated

System in Stand-By Position



System in Service Position

Good and Easy Access to Bath

- Fill Oil
- Clean Bath
- Remove Measuring Head



Connections and Fume Exhaust

NEW FUME EXHAUST

Takes up fumes directly
from oil bath

Cooling Water IN / OUT

for standard water cooling

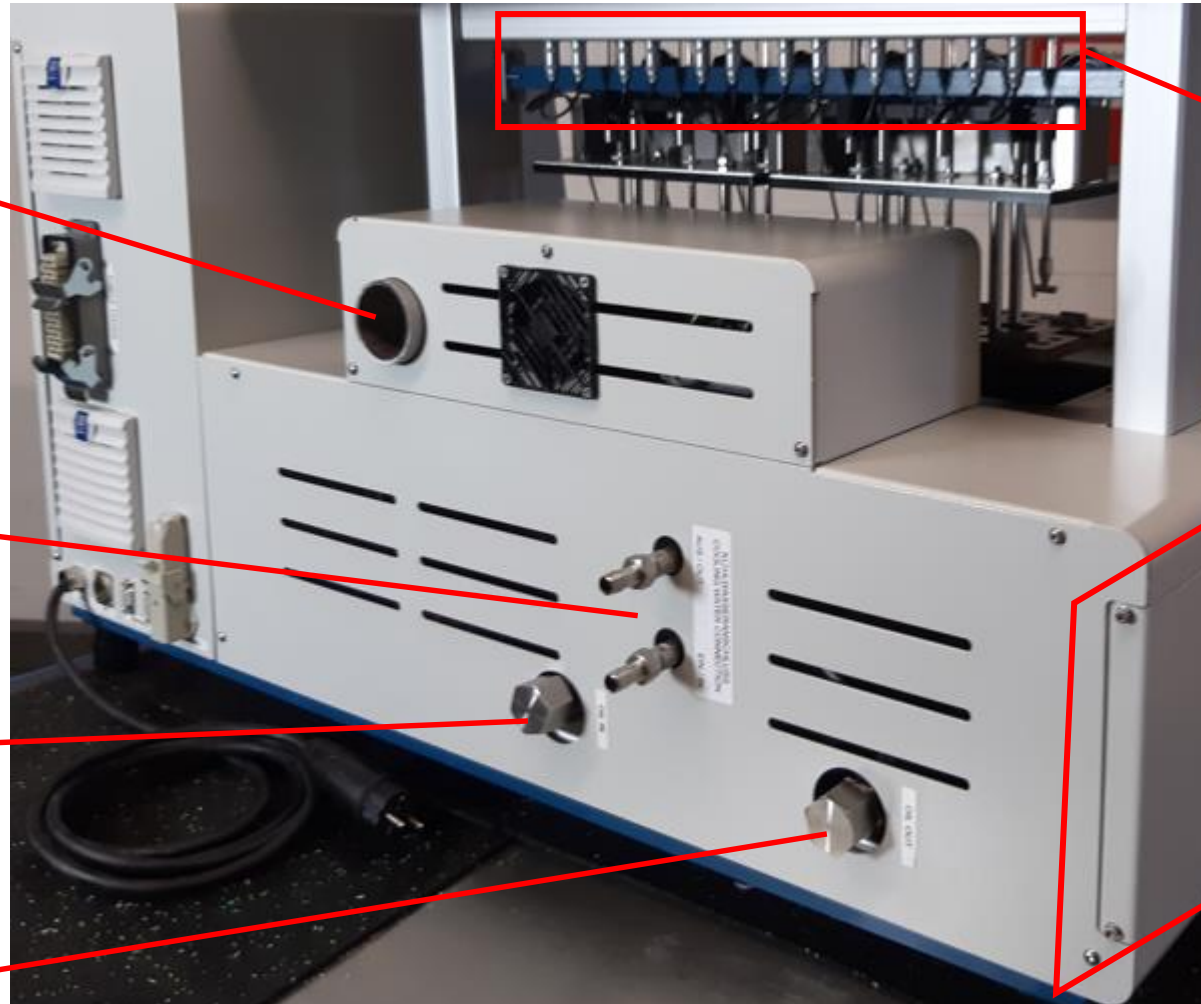
Oil Inlet for Cooling Circulation

ultra fast cooling times ~15 Min
via external oil circulator

Oil Outlet

Plugged
Sensors

Good
Service Access



Rear View

WIN-VST/HDT Software

Machine operation via integrated TouchPanel and Win-Software

Windows-Software is included to machine hardware and comes with packages „Measure“, „Report“ and „Database“

Live-Value

Intuitive „Traffic“-Light Operation

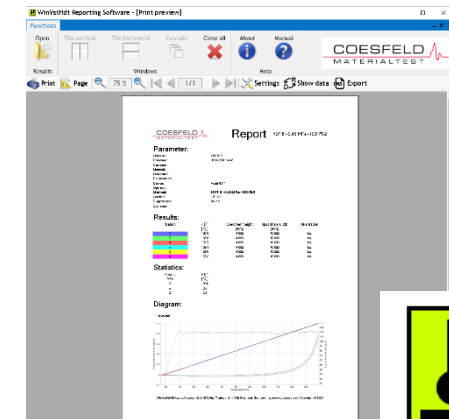
Live-Diagramm



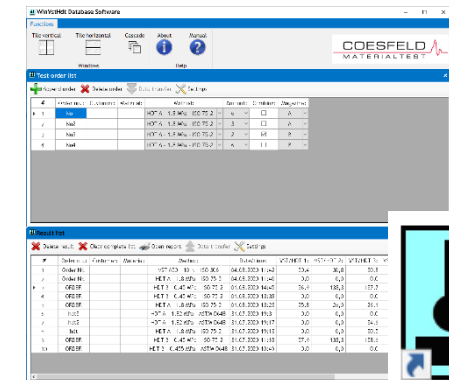
Machine Status

Progress Bar

Order/ Result Data



Report



Database

Advantages

Scalable

- Choose a system that fits your testing needs

High Efficiency

- Shorter Cooling Times
- Less Oil-Volume
- Oil-Quality Indicator

Clean

- Integrated Fume Exhaust
- Optional: Oil-Free Vicat

Innovative

- Integrated Weight Set
- Measuring Head ready for ISO 75-3 (Composites)
- Temperature Extension up to +350 °C

Accessories

Active Carbon Air-Filter System



Cutter for VST Sample



Digital Gauge



Water Cooling and External Heat Exchanger



Universal Weight Set up to 5 Kg



COESFELD

MATERIALTEST



Coesfeld GmbH & Co. KG

Tronjestr. 8
44319 Dortmund

T +49 231 91 29 80-0
F +49 231 17 98 85

mail@coesfeld.com

TESTING EQUIPMENT
for Plastics and Rubber

www.coesfeld.com