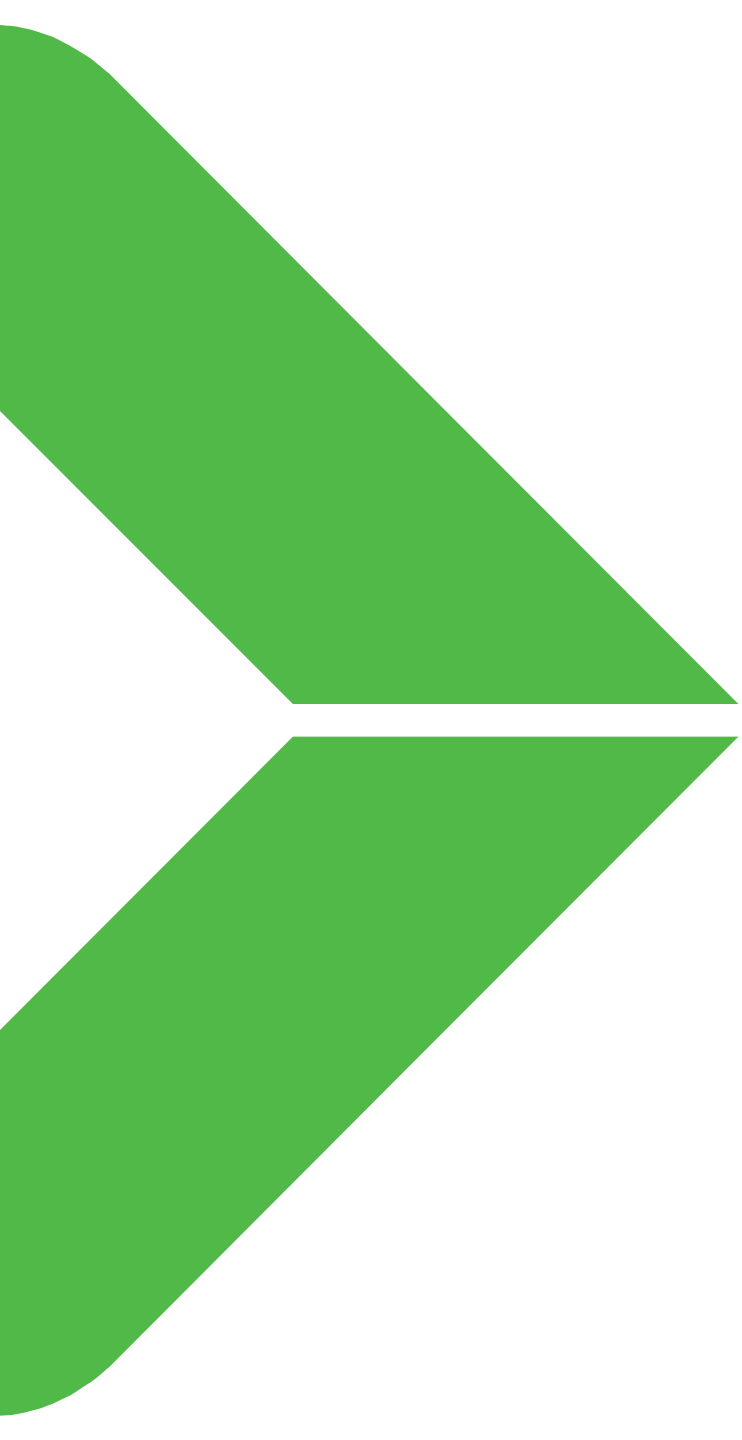


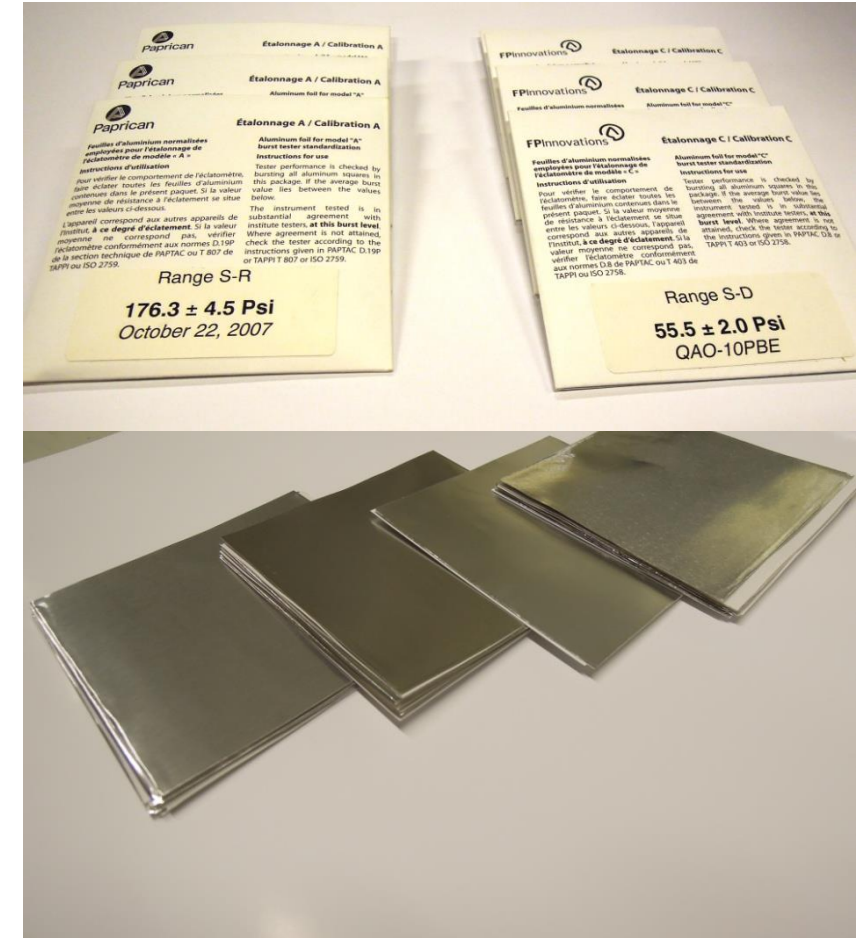
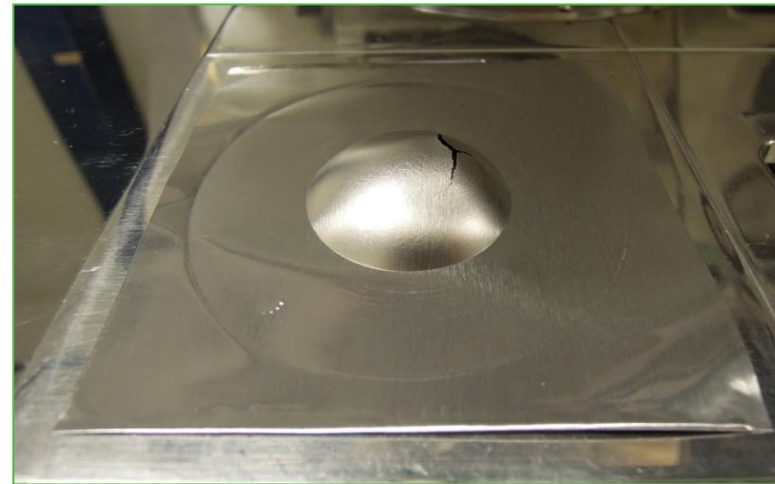


Valmet Paper Lab

Delivered calibration tools as pictures

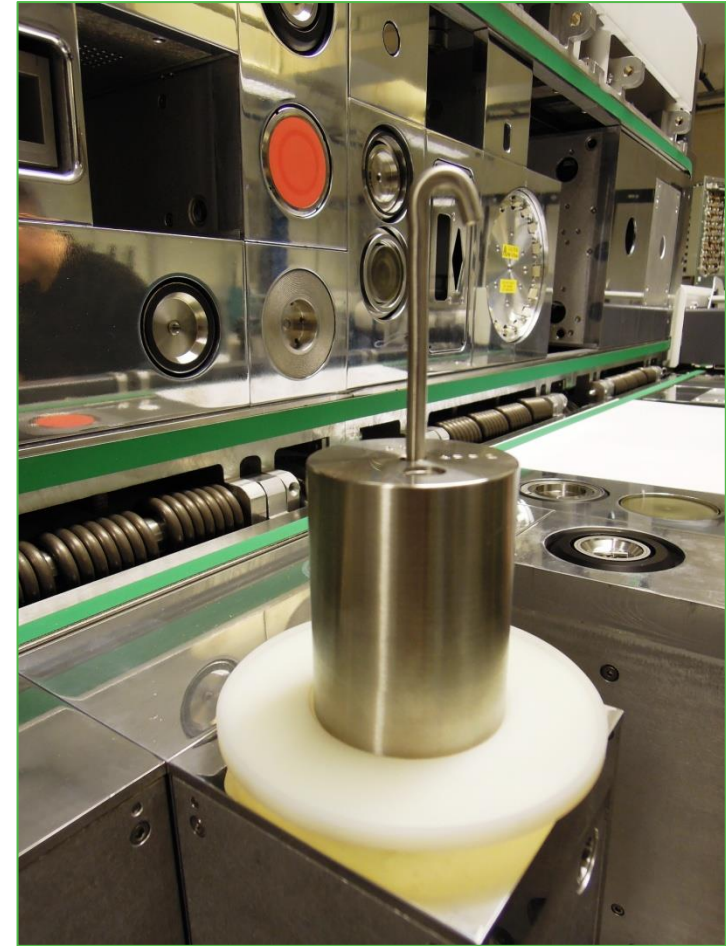
Burst module

- Calibration with a set of aluminium foils supplied by FPInnovations in Canada
- Separate aluminium foils for ISO 2758 (C-model) and ISO 2759 (A-model)



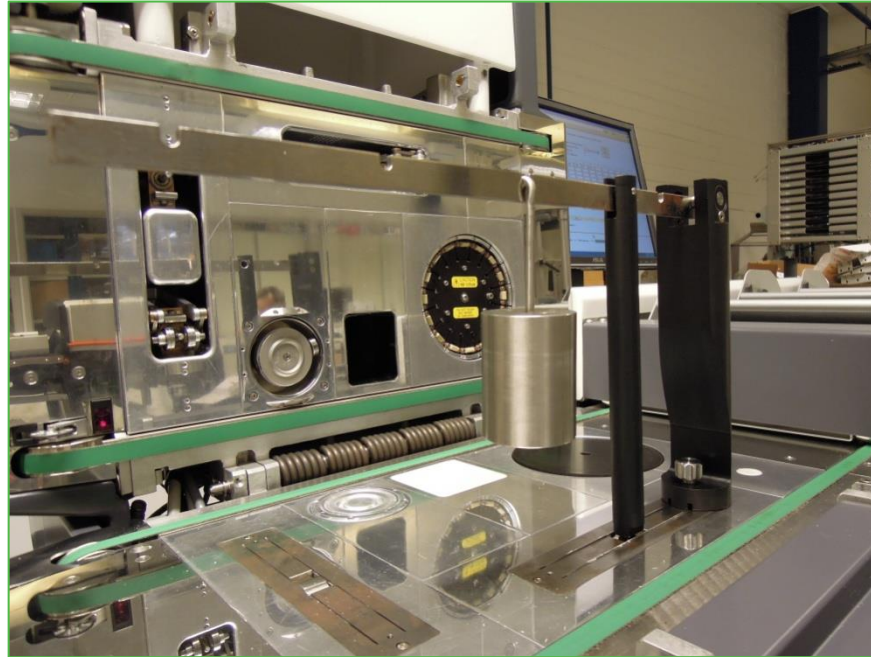
Tear module

- Calibration with weights (same weights with tensile and SCT modules)



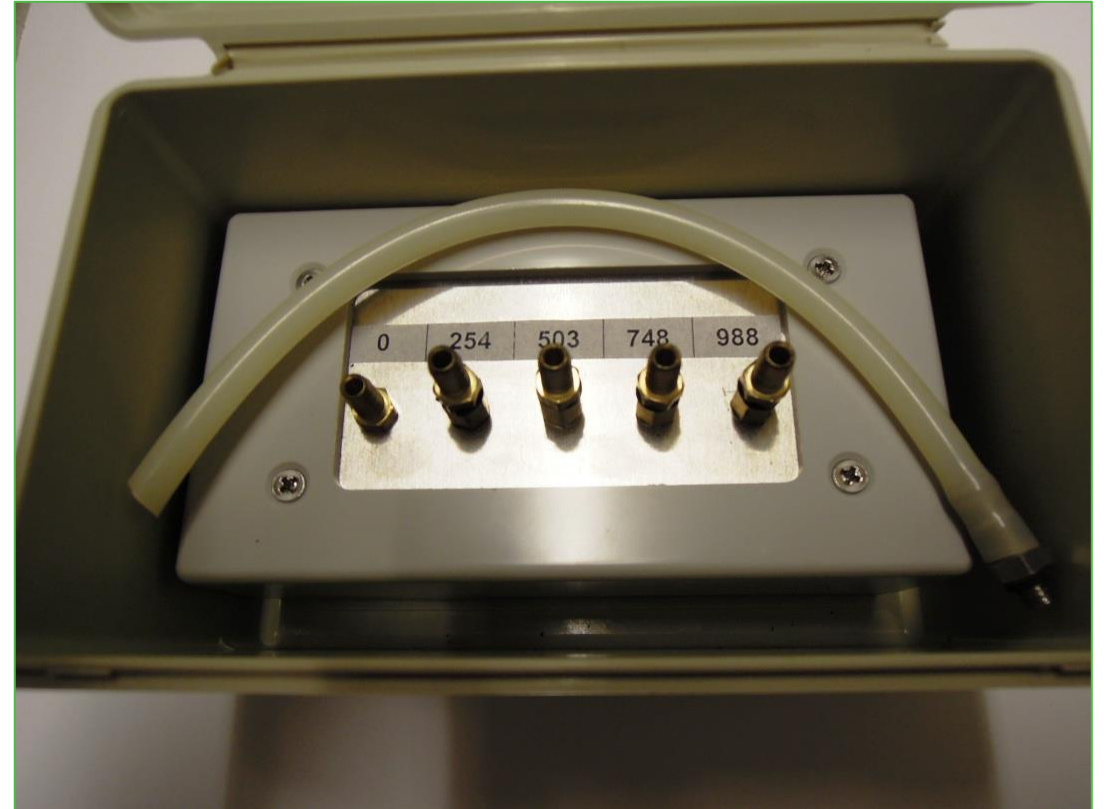
Tensile module

- Calibration with weights (same weights with tear and SCT modules)



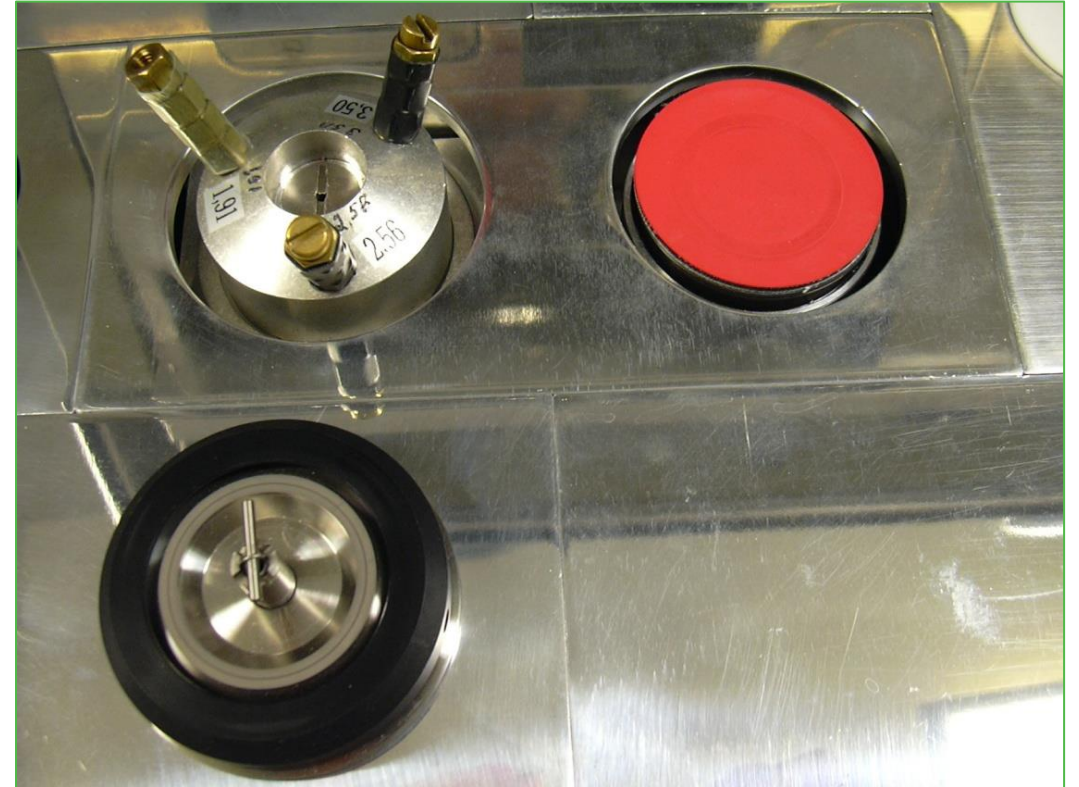
Smoothness-B module

- Calibration with nozzles



Smoothness-PPS module

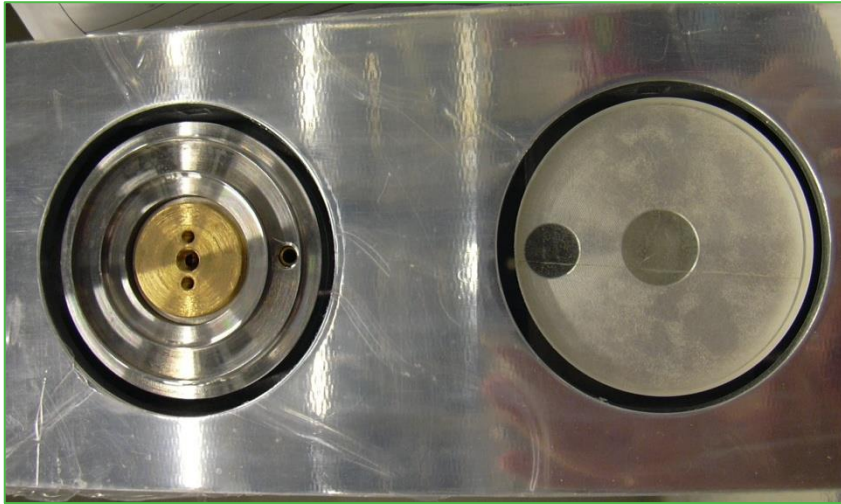
- Calibration with nozzles



Smoothness-S module

INTERNAL

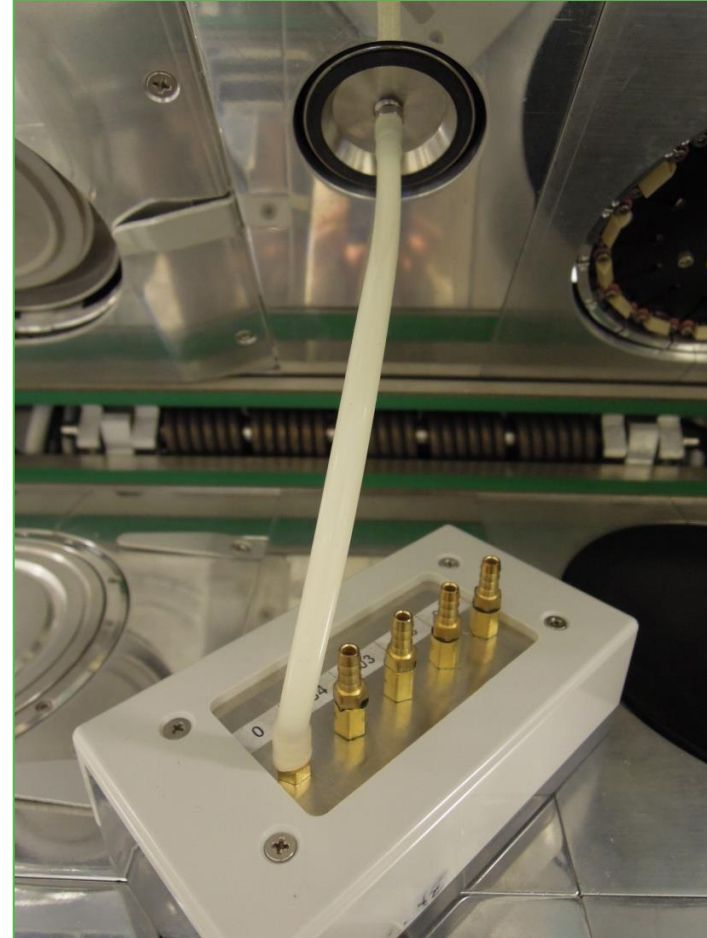
- Calibration with nozzles



Porosity-B/G module

INTERNAL

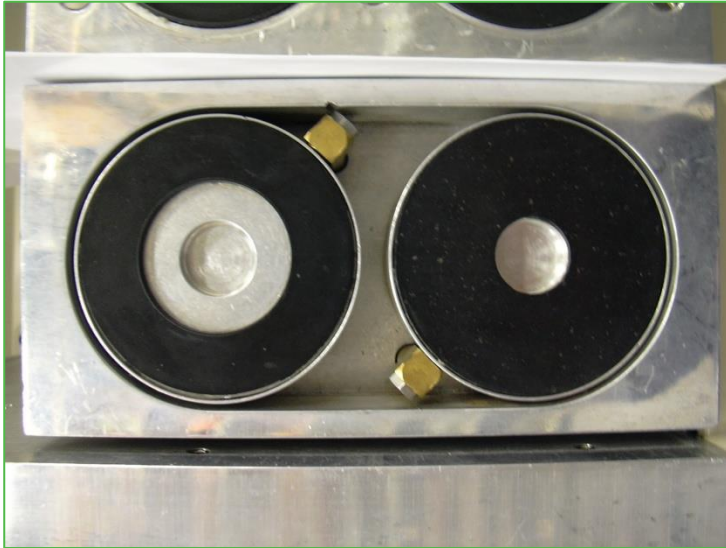
- Calibration with nozzles



Porosity-S module

INTERNAL

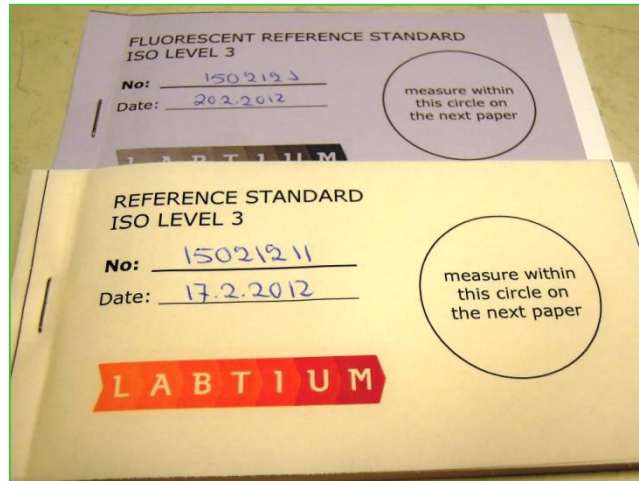
- Calibration with nozzles



UV-color module

INTERNAL

- White ceramic standard for checking the module
- Calibration is made with paper pile standards (Valmet do not supply)



Gloss module

INTERNAL

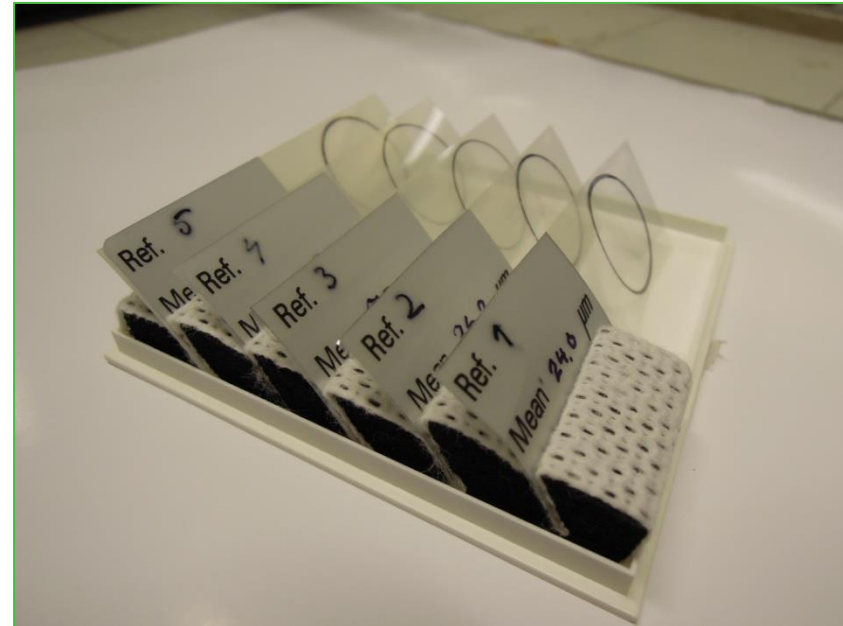
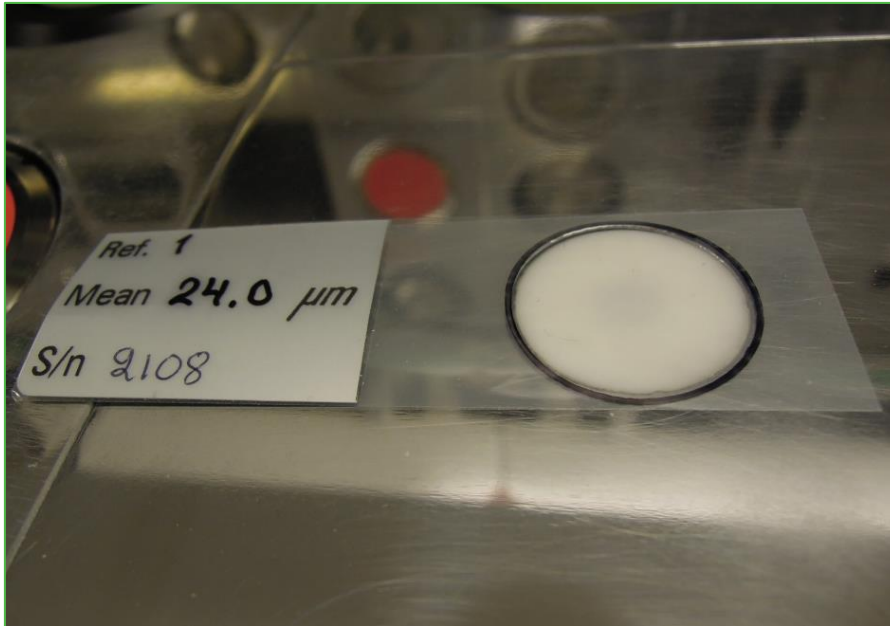
- Calibration with reference tiles



Caliper module

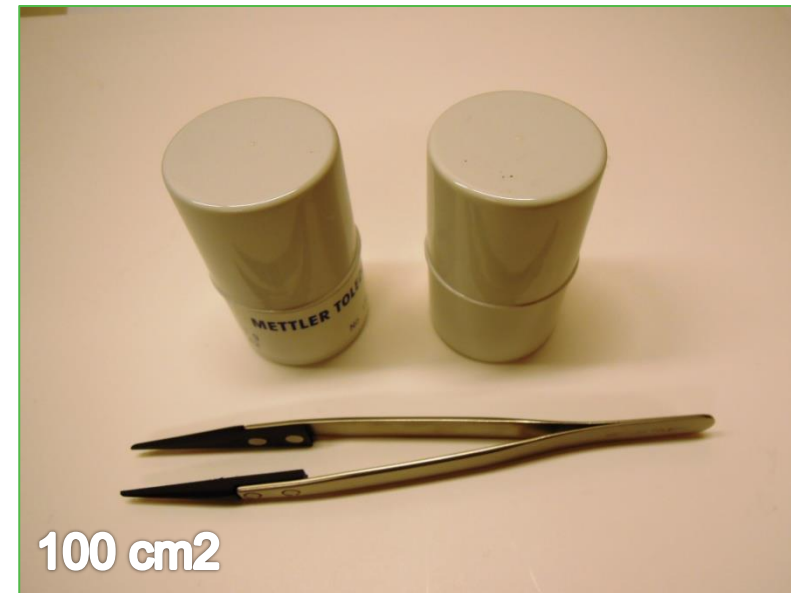
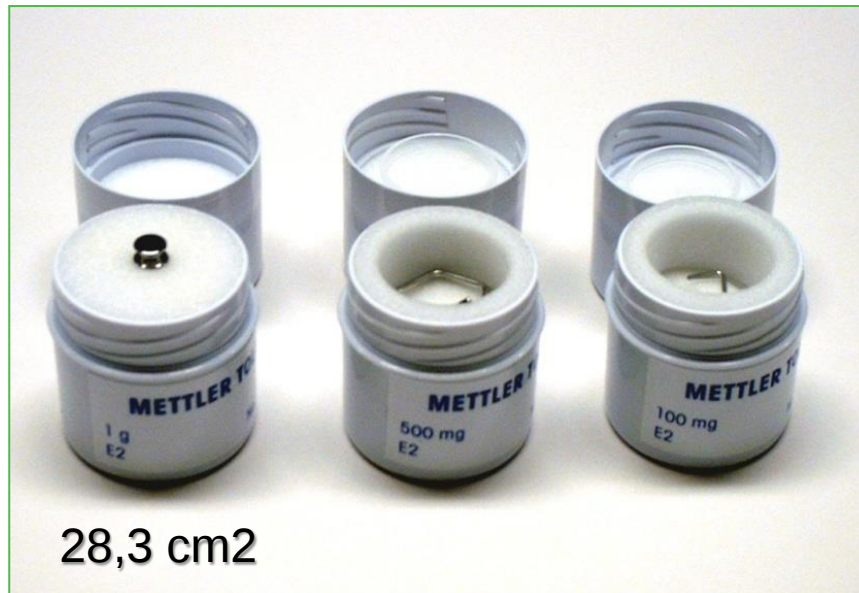
INTERNAL

- Calibration with mylars



Basis weight module

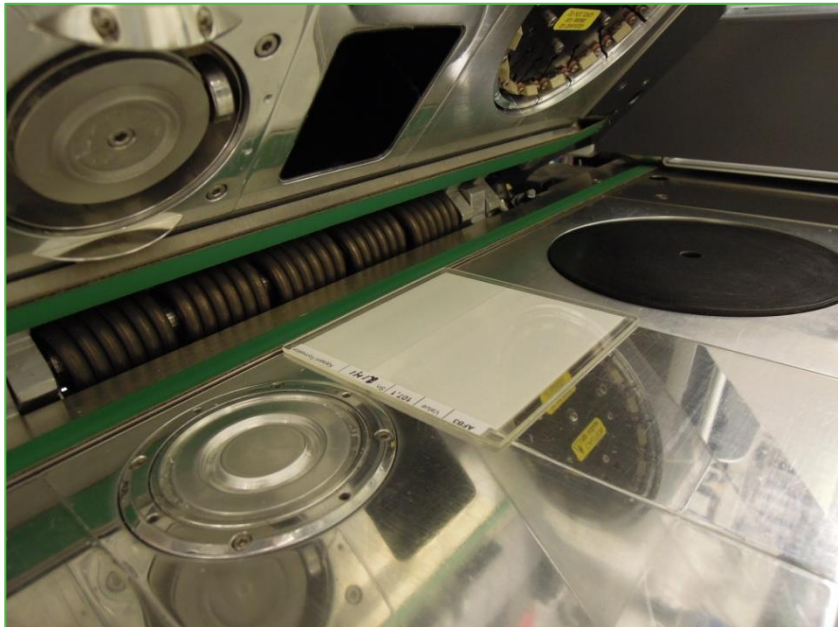
- Calibration with weights



Formation module

INTERNAL

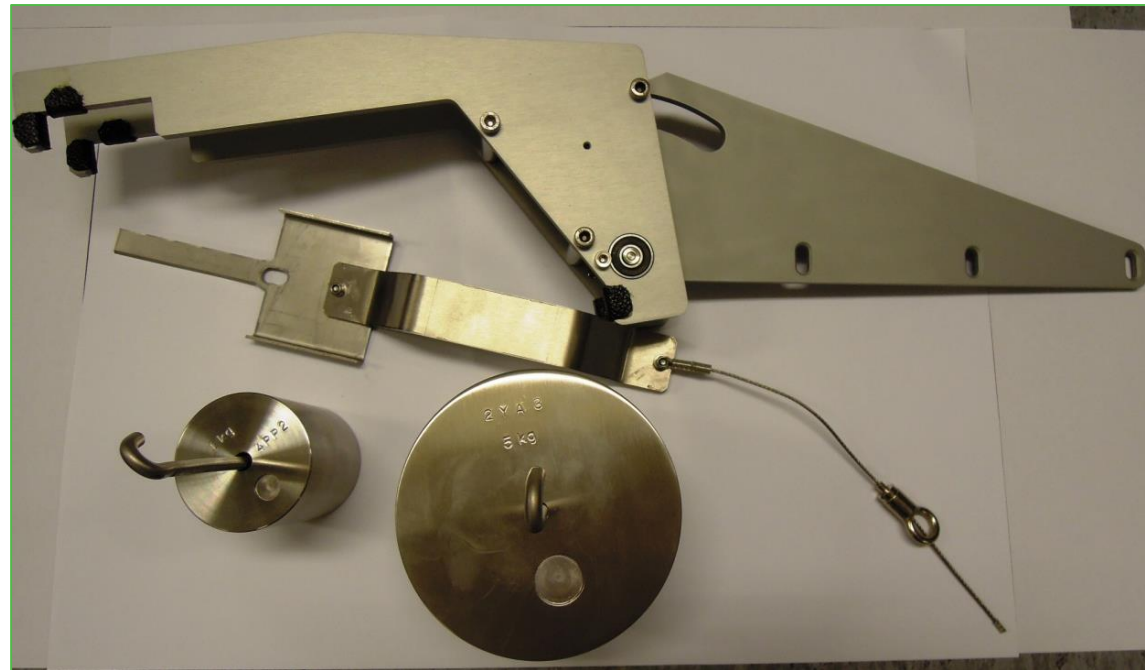
- Calibration with reference plates
- Papers with different formation sealed with glass plates



SCT and S-Test modules

INTERNAL

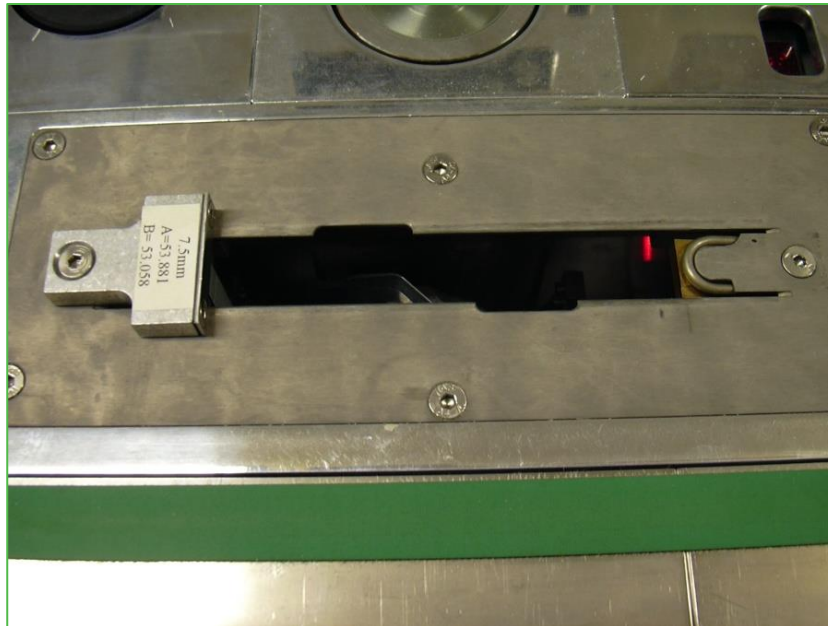
- Calibration with weights (same weights with tear and tensile modules)



Bending stiffness (board) module

INTERNAL

- Calibration with reference plates



Bending stiffness (paper) module

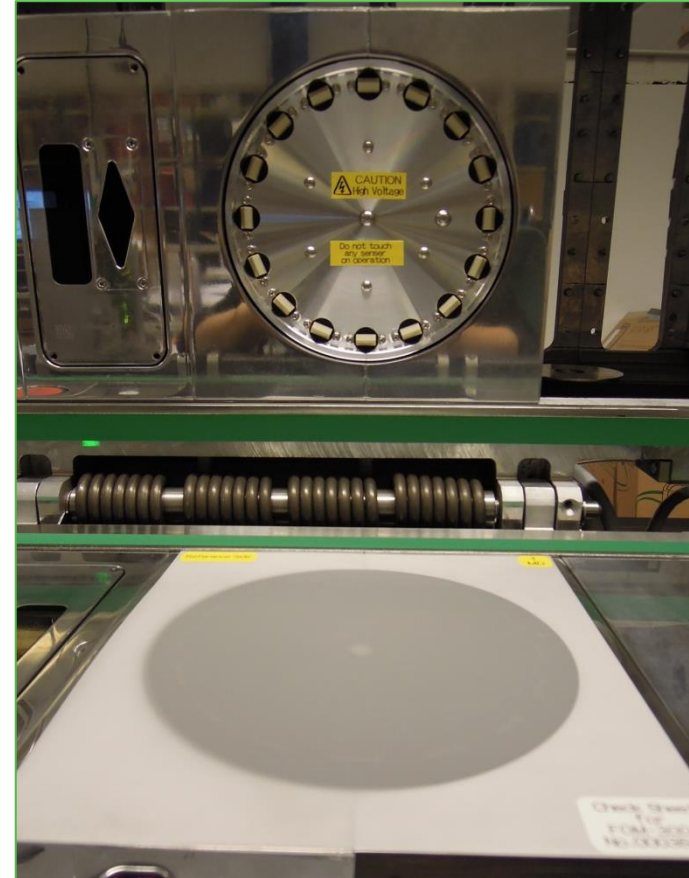
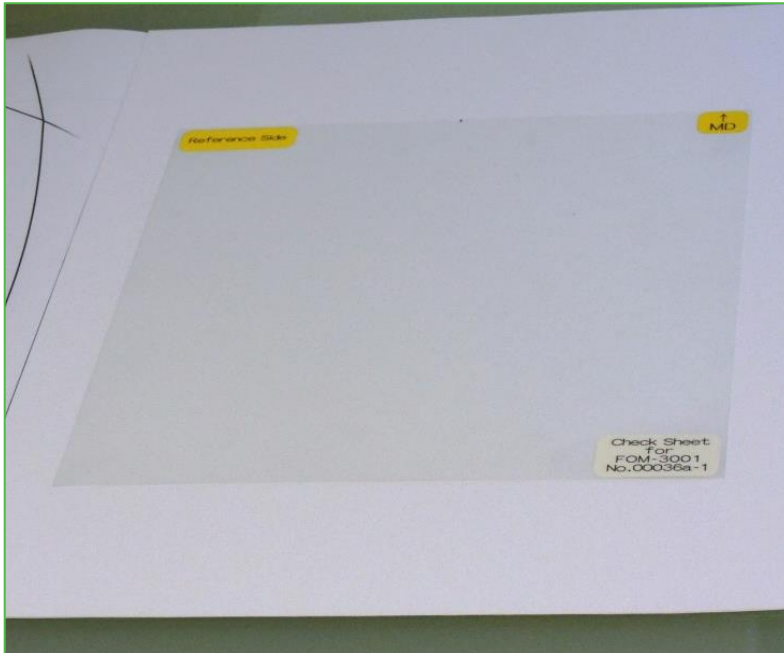
- Calibration with reference plates



Tensile stiffness orientation module (TSO)

INTERNAL

- Checking sheet of mylar



Traceability certificate

INTERNAL

- Every calibration tool set contains a traceability certificate

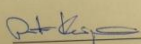
TRACEABILITY CERTIFICATE

No. K3845
Set Type: Gloss (Tappi 75°) Serial #: 892

Part Serial #	Measured	Tolerance
1	42,1	± 1,2
2	69,2	± 1,2
3	93,2	± 1,2

Traceable through: S-523-294
Temperature: 23°C ± 1°C
Humidity: 50%RH ± 2%RH

This is to certify that the equipment identified above has been duly inspected and measured using standards and instruments the accuracies of which are traceable to national standards or to standard measuring equipment and methods for the realization of physical units of measurement in accordance with the International System of Units (SI).

Date: 15.05.2012
Certified by: 
Risto Kaipainen

Due date for recertification: 14.05.2015

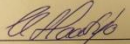
TRACEABILITY CERTIFICATE

No. K3850
Set Type: Caliper (250 µm) Serial #: 2291

Part Serial #	Measured	Tolerance
1	23,9	± 0,7 µm
2	36,2	± 0,7 µm
3	75,1	± 0,7 µm
4	123,5	± 0,7 µm
5	251,6	± 0,7 µm

Traceable through: M-04L350
Temperature: 23°C ± 1°C
Humidity: 50%RH ± 2%RH

This is to certify that the equipment identified above has been duly inspected and measured using standards and instruments the accuracies of which are traceable to national standards or to standard measuring equipment and methods for the realization of physical units of measurement in accordance with the International System of Units (SI).

Date: 25.5.2012
Certified by: 
Urpo Hästaja

Due date for recertification: 25.5.2015

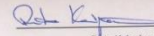
TRACEABILITY CERTIFICATE

No. K3851
Set Type: Smoothness-B Serial #: 1214

Part Serial #	Measured	Tolerance
1	0 ml/min	-
2	240 ml/min	±5%
3	511 ml/min	±5%
4	741 ml/min	±5%
5	991 ml/min	±5%

Traceable through: 701875/1E
Temperature: 23°C ± 1°C
Humidity: 50%RH ± 2%RH

This is to certify that the equipment identified above has been duly inspected and measured using standards and instruments the accuracies of which are traceable to national standards or to standard measuring equipment and methods for the realization of physical units of measurement in accordance with the International System of Units (SI).

Date: 05.06.2012
Certified by: 
Risto Kaipainen

Due date for recertification: 04.06.2015

