Universal testing machine

HM-D Lab Series

Technology

Stark Transmission System®

HBM

3 Year Warranty
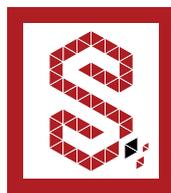
The HM-D model, which is part of the Hoytom LAB series, is made with nominal capacities between 5 y 1000 kN. Its high capacity load cell provides maximum precision across the entire measurement range. It can also be equipped with an extensive range of fixtures, such as tensile grips, T-slotted plates, compression plates, bending fixtures, extensometers, etc.

Each machine includes HoyWin® test control software, and our custom designed electronics. This enables users to get maximum performance and precision, through a simple and intuitive interface.

Typical test applications include high strength steel (HSS), aerospace and automotive structures, screws, nuts, etc.

Characteristics:

- Extremely rigid frame for minimum deformation during testing.
- Preload precision ball screws.
- HBM® load cell (international leader in this technology).
- STARK® Transmission System.
- Integrated touch screen.
- Desktop computer with HoyWin® software.
- Modern appearance.

Optional accessories:

- Manual, pneumatic or hydraulic grips.
- Large range of tools for each test.
- T-slotted plate for adapting to components with different geometries.
- Extensometers.
- Perimeter guards.
- Table to raise work area.
- Double test area.

Floor Model

Capacity kN	100	200-300	400-600	1000
Maximum Speed mm/min	600	600	350	250
Travel mm	1100 (1350) *1	1100 (1350) *1	1450	1550
Maximum vertical space *2 mm	1275 (1525) *1	1275 (1525) *1	1650	1700
Space between grips *3 mm	725 (975) *1	680 (930) *1	710	750
Space between columns mm	565	565	635	635
Dimensions (W x D x H) mm	1100 x 600 x 2100 (2350) *1	1100 x 600 x 2100 (2350) *1	1160 x 900 x 2300	1110 x 950 x 2750
Weight kg	850	900	2000	3000
Power supply V		380-400 V/III		

Tabletop Model

Capacity kN	5-20	25-50	100
Maximum Speed mm/min	1000	750	500
Travel mm	800	1000	1000
Maximum vertical space [*2] mm	1000	1230	1230
Space between grips [*3] mm	650	750	650
Space between columns mm	450	450	450
Dimensions (W x D x H) mm	900 x 650 x 1450	900 x 650 x 1650	900 x 650 x 1650
Weight Kg	200	380	380
Power supply V	220 V/Single phase		

Force transducer

Machine accuracy (Class) [*4]	0.5
Range	0.4% – 100% FS
Resolution	0.001% FS

Displacement transducer

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Type	Incremental encoder on servomotor
Resolution	< 0.001mm
Accuracy	<0.1%

[*1] Models with special height.
[*2] Distance without load cell or fixtures.
[*3] With grips type MO-CP, MO-CN or MO-CH.
[*4] According to Standards ISO 7500 and ASTM E4.
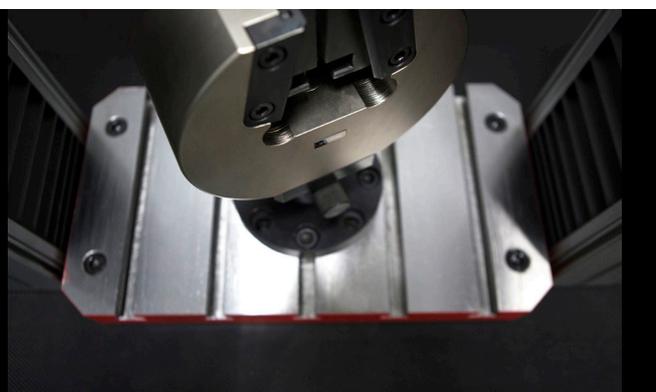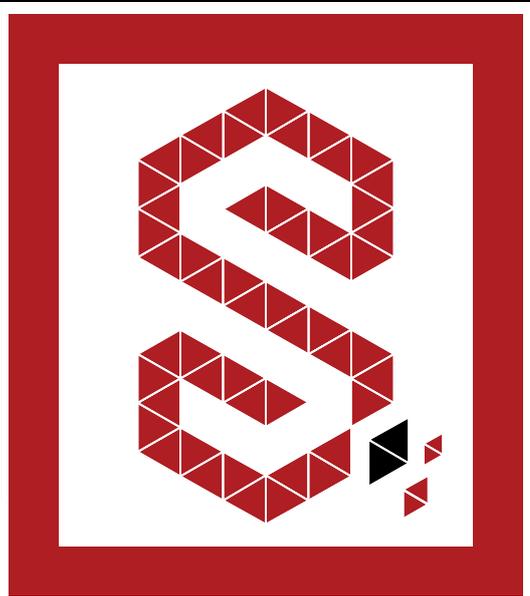
Stark®

A new transmission system designed by Hoytom.

Stark provides our machines with:

+ **Stiffness**
+ **Efficiency**
− **Noise**
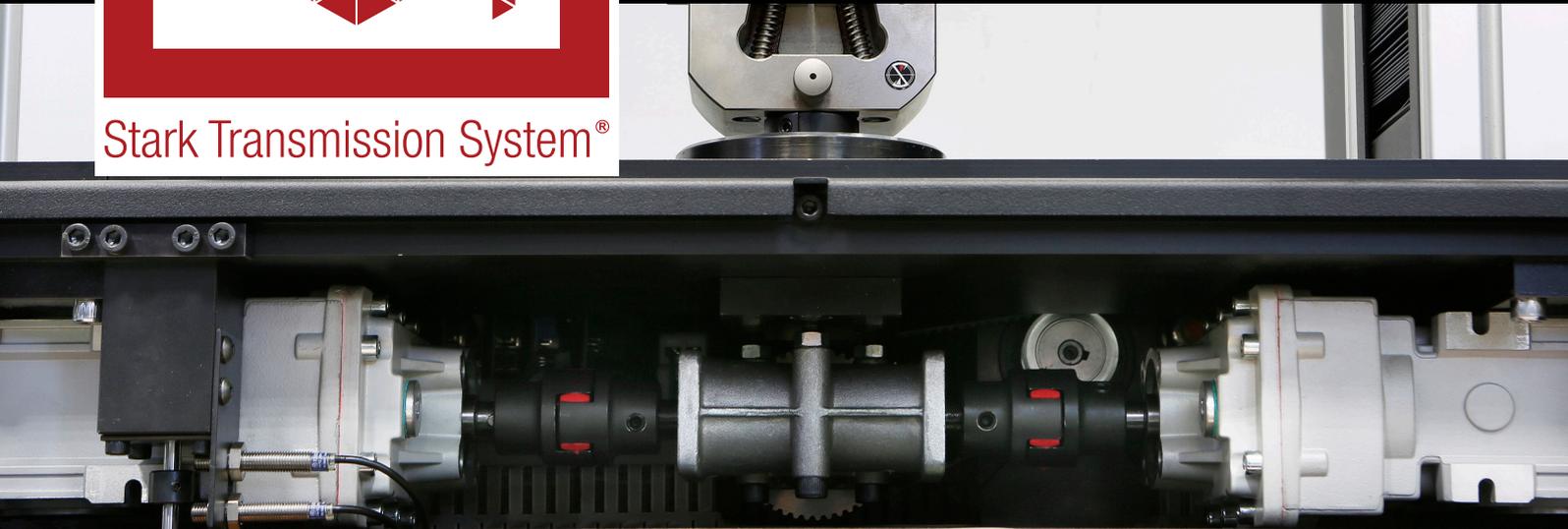
Stark Transmission System®

Die Maschine

HOYTOM®

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