



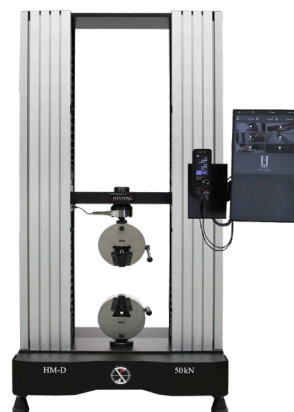
Die Maschine



# Universal testing machine

## HM-D Lab Series

Technology



The HM-D model, which is part of the Hoytom LAB series, is made with nominal capacities between 5 and 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.
- HoyWin® software for material testing in multiple languages.
- 21.5" touch screen.
- Computer integrated in the machine.
- Remote Control - Smart|Remote Control.

## 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	150-200-300	400-500-600	1000
Minimum / Maximum Speed <small>mm/min</small>	0.01 / 600	0.01 / 350	0.01 / 200
Travel <small>mm</small>	1100 (1350) *1	1450	1550
Maximum vertical space *2 <small>mm</small>	1275 (1525) *1	1650	1700
Space between grips *3 <small>mm</small>	640 (890) *1	710	750
Space between columns <small>mm</small>	565	635	635
Dimensions (W x D x H) *4 <small>mm</small>	1100 x 671 x 2100 (2350) *1	1160 x 900 x 2300	1110 x 950 x 2750
Weight <small>Kg</small>	900	2000	3000
Power supply <small>V</small>	380-400 V/III		

## Tabletop Model

Capacity kN	5-20	25-50	100
Minimum / Maximum Speed <small>mm/min</small>	0.01 / 1000	0.01 / 750	0.01 / 500
Travel <small>mm</small>	800	1000	1000
Maximum vertical space *2 <small>mm</small>	1000	1230	1230
Space between grips *3 <small>mm</small>	650	680	650
Space between columns <small>mm</small>	450	450	450
Dimensions (W x D x H) *4 <small>mm</small>	900 x 650 x 1450	900 x 650 x 1650	900 x 650 x 1650
Weight <small>Kg</small>	200	380	380
Power supply <small>V</small>	220 V/Single phase		



## Force transducer

Machine accuracy (Class) <sup>*5</sup>	0.5
Range	0.4% – 100% FS
Resolution	0.001% FS

## Displacement transducer

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

<sup>\*1</sup> Models with special height.

<sup>\*2</sup> Distance without load cell or fixtures.

<sup>\*3</sup> With grips type MO-CP.

<sup>\*4</sup> Single-zone testing machine.

<sup>\*5</sup> According to Standards ISO 7500 and ASTM E4.

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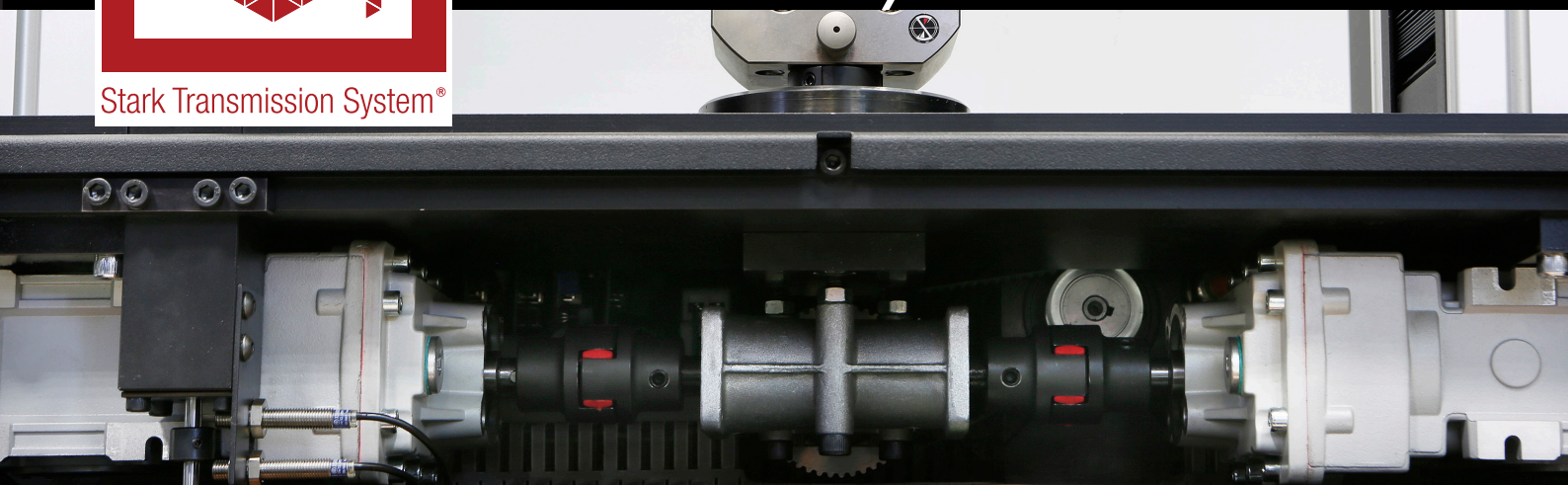
Stark Transmission System®

### Stark®

A new transmission system designed by Hoytom.

Stark provides our machines with:

**+ Stiffness**  
**+ Efficiency**  
**- Noise**





# 3 Year Warranty



with all  
Hoytom<sup>®</sup>  
machines

When you purchase a Hoytom<sup>®</sup> machine the equipment comes with a 3 year warranty.



**Die Maschine**



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