

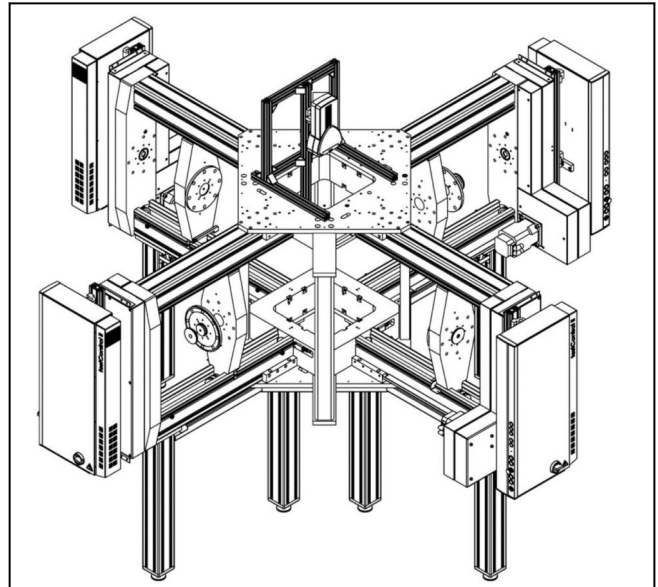
Product Information

Horizontally oriented cruciform testing machine with table-top testing machines for tests up to 150 kN

CTA: 179864 179869



Horizontally oriented cruciform testing machine



Installation drawing showing arrangement

Range of application

This cruciform testing machine is designed for uniaxial or biaxial tests on sheet metals, elastomers, plastics and components up to a maximum test force of 150 kN.

The system is based around four table-top testing machines attached to each other at right angles at the center of the system via a special support frame. The support frame has a 400 x 400mm aperture top and bottom, allowing an unobstructed view of the specimen from both sides for optical measuring systems.

For strain measurement and control a videoXtens extensometer is available; specimen strain is recorded in the x/y directions. Mid-point control is available as an option if required in addition to strain measurement and control.

The videoXtens is mounted on a sturdy holding fixture and records the resulting strain in both test axes from above. The analog measurement signals are recorded in the assigned measurement and control electronics and used to control the electro-mechanical testing actuator.

If mid-point control is not required, the drive axes can also be provided in master-slave mode, in which case only two measurement and control electronics units are required.

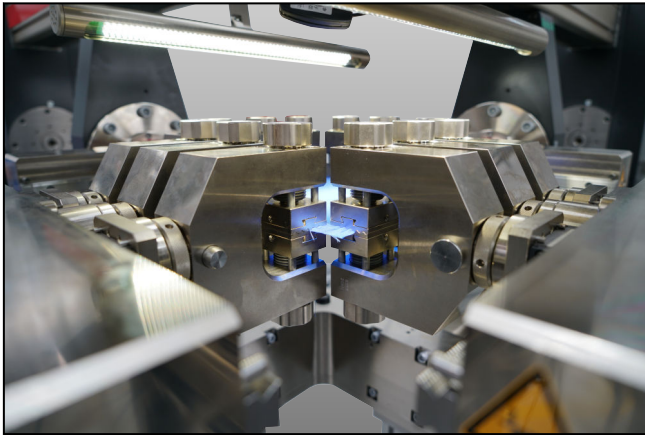
Advantages and features

- Employs proven ZwickRoell standard components
- Convenient working height
- Unobstructed view of specimen
- videoXtens employed for strain measurement and control
- testControl II measurement and control electronics
- Force or displacement control with smooth switching between modes
- testXpert III Master Test Program with graphical multi-axial sequence editor for 4 test axes for generation of customer's own test sequences
- Low maintenance costs combined with high life-expectancy
- Safety housing in compliance with CE Machinery Directive according to application
- large range of specimen grips and fixtures
- generous mating areas on mechanical joints for high test-frame stiffness.

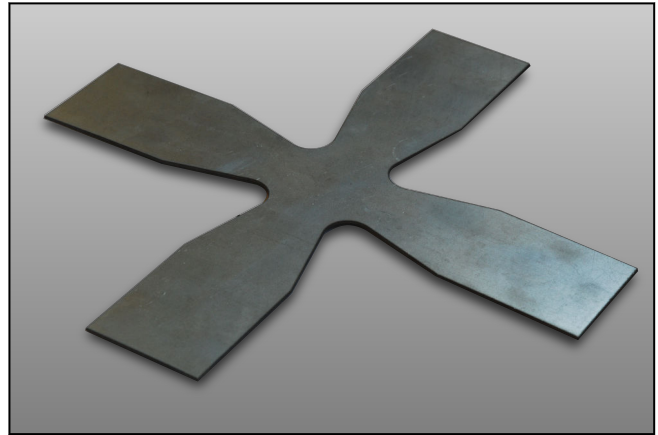
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Cruciform specimen with screw-grips



Customized cruciform specimen

Fmax	20	50	100	150	kN
Item No.	3011060	3004913	3005283	3005285	
Load frame dimensions					
Height, max.	2500	2600	2600	2600	mm
Width, max.	3650	3500	3600	3900	mm
Depth, max.	3650	3500	3600	3900	mm
Working height	1400	1400	1400	1400	mm
Speed, max.	1000	600	1500	900	mm/min

Accessories required

Description	Item number
Emergency Stop linkage	1023870
Mobile Emergency Stop button with magnetic plate	067461

Note

- For technical data for table-top testing machines please see separate Product Information
- For technical data for load cells please see separate Product Information
- For technical data for specimen grips please see separate Product Information