

Product Range:

The **MI&T GmbH** provides a comprehensive range of high-quality test stations, test systems and force measuring gauges for force, force/stroke as well as strain measurement. The versatile **MI&T** measuring instruments and testers in combination with application specific clamping tools and test fixtures provide flexible test systems for diverse test applications in quality control, research, development and production control. **MI&T** measuring instruments and testers can be used for simple force measurements as well as for sophisticated failure mode experiments. All testers are space-saving units with easy handling, providing high accuracy, reliability, convenience and economy and meet the requirements to the data evaluation and documentation of test results.

In addition to the comprehensive range of standard measuring instruments and testers, standard clamping tools and test fixtures the **MI&T** offers customized special test systems as well as customized clamping tools and test fixtures adapted to the respective customer-specific application.

MI&T force measuring gauges, testers and test stations as well as standard and customized tools are designed and manufactured in Germany.

Of course the **MI&T GmbH** provides the service, inspection and calibration for the **MI&T** measuring instruments, testers and accessories and in addition also for force testing units of other manufacturers.

The **MI&T GmbH** stands for consequent innovations in the area of high-precision force measurement and industrial controls. We place particular emphasis on precision, easy operation and high reliability of our test equipment.

Model Overview Test Stations, Testers and Force Gauges:

Model	Type	Indication Range [Newton]	Resolution [Newton]	Max. relative accuracy error, ± LSD	Model	Type	Indication Range [Newton]	Resolution [Newton]	Max. relative accuracy error, ± LSD
MTM	5	0-50	0.005	±0.25% *	STM	50 kN	0-50000	5	±0.25% *
MTM	10	0-100	0.01	±0.25% *	PTC	50	0-500	0.5	±0.5% *
MTM	25	0-250	0.02	±0.25% *	PTH	50	0-500	0.5	±0.5% *
MTM	50	0-500	0.05	±0.25% *	PTB	50	0-500	0.5	±0.5% *
MTM	100	0-1000	0.1	±0.25% *	FTB	5	0-50	0.01	±0.25% *
MTM	200	0-2000	0.2	±0.25% *	FTB	10	0-100	0.02	±0.25% *
MTM	500	0-5000	0.5	±0.25% *	FTB	25	0-250	0.05	±0.25% *
MTM	1000	0-10000	1	±0.25% *	FTB	50	0-500	0.1	±0.25% *
ATM	5	0-50	0.01	±0.25% *	FTB	100	0-1000	0.2	±0.25% *
ATM	10	0-100	0.02	±0.25% *	CMS	5	0-50	0.005	±0.1% F.S.
ATM	25	0-250	0.05	±0.25% *	CMS	10	0-100	0.01	±0.1% F.S.
ATM	50	0-500	0.1	±0.25% *	CMS	25	0-250	0.01	±0.1% F.S.
ATM	100	0-1000	0.2	±0.25% *	CMS	50	0-500	0.05	±0.1% F.S.
ATM	200	0-2000	0.5	±0.25% *	CMS	100	0-1000	0.1	±0.1% F.S.
ATM	500	0-5000	1	±0.25% *	CMS	200	0-2000	0.1	±0.1% F.S.
ATM	1000	0-10000	2	±0.25% *	CMS	500	0-5000	0.5	±0.1% F.S.
FTM	5	0-50	0.01	±0.25% *	CMS	1000	0-10000	1	±0.1% F.S.
FTM	10	0-100	0.02	±0.25% *	CMS	5000	0-50000	2	±0.1% F.S.
FTM	25	0-250	0.05	±0.25% *	DFG	2	0-2	0.0005	±0.2% F.S.
FTM	50	0-500	0.1	±0.25% *	DFG	5	0-50	0.001	±0.2% F.S.
FTM	100	0-1000	0.2	±0.25% *	DFG	10	0-10	0.002	±0.2% F.S.
FTM	200	0-2000	0.5	±0.25% *	DFG	20	0-20	0.005	±0.2% F.S.
FTM	500	0-5000	1	±0.25% *	DFG	50	0-50	0.01	±0.2% F.S.
FTM	1000	0-10000	2	±0.25% *	DFG	100	0-100	0.02	±0.2% F.S.
FTS	5	0-50	0.01	±0.25% *	DFG	200	0-200	0.05	±0.2% F.S.
FTS	10	0-100	0.02	±0.25% *	DFG	500	0-500	0.1	±0.2% F.S.
FTS	25	0-250	0.05	±0.25% *	DFG	1000	0-1000	0.2	±0.2% F.S.
FTS	50	0-500	0.1	±0.25% *	DFGS	1 kN	0-1000	0.2	±0.2% F.S.
FTS	100	0-1000	0.2	±0.25% *	DFGS	2 kN	0-2000	0.5	±0.2% F.S.
FT(C,H)	5	0-50	0.01	±0.25% *	DFGS	5 kN	0-5000	1	±0.2% F.S.
FT(C,H)	10	0-100	0.02	±0.25% *	DFGS	10 kN	0-10000	2	±0.2% F.S.
FT(C,H)	25	0-250	0.05	±0.25% *	DFGS	20 kN	0-20000	5	±0.2% F.S.
FT(C,H)	50	0-500	0.1	±0.25% *					

* within the measuring range



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Product Range

Universal Test Station MTM

Type series up to 2000 N
Models:
MTM 5/10/25/50/100/200
Multifunctional test stations with motor drive, position sensor and various test programmes



Universal Test Station MTM

Type series up to 10 kN
Models:
MTM 500/1000
Multifunctional test stations with motor drive, position sensor and various test programmes



Motorized Test Station ATM

Type series up to 2000 N
Models:
ATM 5/10/25/50/100/200
Motor drive with adjustable test speed and automatic motor drive, Break Stop function and pre-set of test load



Motorized Test Station ATM

Type series up to 10 kN
Models:
ATM 500/1000
Motor drive with adjustable test speed and automatic motor drive, Break Stop function and pre-set of test load



Motorized Tester FTM

Type series up to 2000 N
Models:
FTM 5/10/25/50/100/200
Motorized testers for constant test speed,
3 factory-provided test speeds



Motorized Tester FTM

Type series up to 10 kN
Models:
FTM 500/1000
Motorized testers for constant test speed,
3 factory-provided test speeds



Digital Tester FTS

Type series up to 1000 N
Models:
FTS 5/10/25/50/100
Testers manually operated by hand wheel, self-locking linear drive features hold of test specimen under load.



Heavy-duty Test Station STM

Test Station with 50 kN capacity
Model:
STM 50kN
Motorized test station with adjustable test speed and automatic motor-driven clamping device for cables.



Pull & Press Tester FTH

Type series up to 500 N
Models:
FTH 5/10/25/50
Manual tester operated by hand lever. Load slide with precise linear motion, allowing rapid sequence of tests. Serial interface for data output.



Cable Tester FTC

Type series up to 500 N
Models:
FTC 5/10/25/50
Manual pull tester with hand lever operation and cable clamp-ing fixture with automatic gripp-ing during hand lever actuation.



Pull & Press Tester PTH 50

Manual Tester, 500 N capacity
Model:
PTH 50
Tester manually operated by hand lever. Load slide with precise linear motion, allowing rapid sequence of tests. Serial interface for data output.



Cable Tester PTC

Manual Tester, 500 N capacity
Model:
PTC 50
Manual pull tester with hand lever operation and cable clamp-ing fixture with automatic gripp-ing during hand lever actuation.



Product range continue next page

Product Range

Force Measuring System CMS

Models:
 CMS 5/10/20/50/100/200/250
 500/1000/5000

High-precision force measuring system with external load cell for measurements of tensile and compressive forces.



Precision Load Cells

Models:
 SM 5/10/20/50/100/200/250
 500/1000/5000

High-precision force transducers in various designs for tensile and compressive forces.



Hand Tester DFG

Force ranges: 0- 2/5/10/2/50/
 100/200/500/1000 N

Handy and ergonomically shaped force gauge with internal load cell for mobile use and stationary use with test stands.



Digital Force Gauge DFGS

Force ranges: 0- 1000/2000/
 5000/10000/20000 N

Force Gauge with external load cell for measurements of tensile and compressive forces. Small and handy unit for mobile use and stationary use with test stands.



Manual Test Stand TSH

Models:
 TSH, TSHL

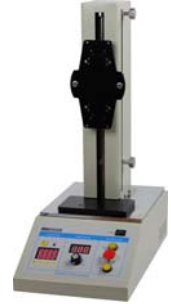
Handwheel-operated manual test stand for precise force measurements in combination with force gauges. Operation in vertically as well as horizontally arrangement



Motorized Test Stands TSM

Models:
 TSM

Motorized vertical test stands for precise force measurements in combination with force gauges and application-specific testing tools



Test Benches PTB & FTB

Models:
 PTB 50, FTB 5/10/25/50/100

Small and handy test benches for testing the tension force of cable tie tighten pistols (tie rap guns);
 The test benches can be positioned length- and crosswise to the operator



Test Device DFG-KBP 500

Models:
 DFG-KBP 500H,
 DFG-KBP 500V

Handy devices for testing the tensile force of cable tie tighten pistols, well suited for mobile use and for tests to be carried out quickly



Clamping Tools and Test Fixtures

Large selection of standard fixtures and clamping tools for a wide range of applications as well as design and manufacturing of customized special tools



Testing Tools for cable tie pistols

Testing tool kits for testing the tensioning force of manually and pneumatically operated cable tie tighten pistols



KeyTast and KeySoft Data Logger

With the KeyTast and KeySoft interfaces measured values from measuring instruments with serial port can be sent via a USB port resp. serial of the PC directly to PC programs



Software MI&Tstat

PC Software for acquisition of measured data, statistical representation and analysis of measured values.

Printout of test reports and archiving of measured values.

