



Hydraulic Type Universal Testing Machine 500 kN

Code: [36-2419/05](#)

Product Group: [Hydraulic Type Universal Testing Machines](#)

36-2419/05 is designed to serve the requirements of laboratories, research and development, quality control, manufacturers and educational fields. Plastic, textiles, fabric, wire, cord, rubber, wood etc. are ideal specimens for the 36-2419/05. Test methods such as tensile, compression, bending, peel, shear, puncture etc. are available on this machine.

Features:

- Four to six column hydraulic type UTM
- High precision load cell, class 1 and class 0.5 calibration
 - 1/50,000 force resolution
 - 0.5~60mm/min test speed (upgradable option)
- User friendly remote for chuck control
- Overload protection limit sensor
- Emergency power cut off button
- Interchangeable tensile insert grip system

Software features:

- Close loop. Control of load, displacement, extension, stress and strain
 - Remote control via software, text execution, data analysis available through RS-232 port
 - Software updates and modification installation available via email or remote support
 - Diverse and robust configurations for automatic test end options, graph options, PID values, crosshead movement speeds etc
 - 15+ different Testing Methods including cyclic, creep, relaxation, keeping etc
 - View data and graphs of previously ran tests
 - Determine and analyze data points such as yield point, breaking point, modulus etc
 - Test report printing options include direct to printer or excel file export
 - Test report data can be configured to show only necessary data and to exclude unused data
 - Raw data analysis for detailed test data
 - Exportable to excel and customizable to show user required data

Specification

Product Sheet

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Frame Capacity	500 kN
Max tension range	500 kN
Force resolution	1/50,000
Stroke resolution	0.01 mm
Load range	2 steps (50/5 tonf)
Colum style	4 post
Controller	LCD Digital Indicator
Tensile - Max tensile distance	650 mm (including grips)
Tensile - Grip for round bar	Ø6 ~ Ø15, Ø14 ~ Ø26, Ø25 ~ Ø40 Length 90mm (1 set incl. + 1 set opt.)
Tensile - Grip for plate bar	0~15, 15 ~ 40 / Wide : 60, Length 90mm (1 set incl. + 1 set opt.)
Tensile - Grip for length	90 mm
Compression - Test stroke	475 mm
Compression - Dia plate	Ø160 mm
Bending test - Bending distance	50 ~ 500 mm
Bending test - Punch tips radius (Ø)	25
Bending test - Punch width	160, 180
Bending test - Roller diameter	Ø50
Table size	820 x 550 mm
Column to column	560 mm
Max ram stroke	200 mm
Crosshead speed	400 mm/min
Cross head motor	Gearedmotor 1/40, 0.4kW
Test speed	0.5 ~ 60mm/min (S/W Control Type)
Hydraulic pump capacity	2.7 cc
Total weight	2200 kg
Loading unit (w x d x h)	1000 × 750 × 2460 mm
Hydraulic unit (w x d x h)	550 × 500 × 550 mm
Computer system unit (w x d x h)	600 x 600 x 1700 mm