

A042 UNIVERSAL TESTING MACHINE CAPACITY 1000 kN (224809 lbf)

Hydraulic universal testing machine developed for testing on various metallic materials and allows the execution of a wide range of static test. The machine consists of the following parts:

LOAD CELL 1000 kN (224809 lbf)

CROSS DISPLACEMENT TRANSDUCER 300 mm

TEST FRAME 1000 kN, with built-in load cell load piston. The frame is designed to allow testing of traction in the lower compartment, while the higher compartment remains available and usable for other types of executable compression tests, bending, folding, cutting, with the accessories you already own. The tensile heads are an integral part of the frame.

HYDRAULIC CONTROL UNIT COMPUTERIZED, designed to control and the complete management of the tests with test machines tension/compression

materials according to the standards of ISO 6892-1 Reference. The test machine control is carried out with computerised system which controls the functions and processes the results of the tests. The load control system is innovative because it uses a special hydraulic pump, is controlled by the flow of oil to the piston, acting on the speed of rotation of the pump motor. This new system ensures high reliability, accuracy of results, high productivity and low noise in compliance with regulations on noise pollution. The

• Personal computer

control unit is supplied with:

- Color Deskjet printer A4 format
- High pressure hose Connection for connecting to the test machine
- Manuals instruction
- ACCREDIA Calibration certificate LAT
- TCSoft2004Plus software (A007)

The accessories to effect all the tests have to be ordered separately.



TECHNICAL CHARACTERISTICS:

A042 HYDRAULIC COMPUTERIZED MACHINE FOR TENSILE TEST

1000 kN	Load Capacity	224809 lbf
0.1kN	Resolution	22 lbf
1	Class	1
	ISO 7500-1 (From 2% to 100% f.s.)	
90 mm/min	Maximum Speed	3.54 in./mm
0.6 mm/min	Minimum Speed	0.02 in./mm
1300 kN/mm	Stiffness frame	7423191 lbf/in.
300 mm	Crosshead travel	11.8 in.
100 mm	Max distance between tensile heads	3.94 in.
830 mm	Min distance between tensile heads	32.68 in.
190 mm	Flexural/Bending plane width	7.48 in.
1000 m	Horizontal Flexural space	39.37 in.
280 mm	Vertical space of compression plates	11.02 in.
4220 mm	Height required	166.1 in.
	Dimensions	
900 x 860 x 3920 mm	Width x Depth x Height	35.4 x 33.9 x 154.3 in.
2750 kg	Weight	6063 lb

A300-S HYDRAULIC CONTROL UNIT COMPUTERIZED

	Dimensions	
900 x 510 x 1700 mm	Width x Depth x Height	35.4 x 20.1 x 66.9 in.
133 kg	Weight (Without oil and PC)	293 lb
350 bar	Max Pressure	
2.6 l/min	Max load to 100% engine rpm	
20	Tank Capacity	
THELLUS OIL 46 SHELL	Oil Type	
10 % / 80 %	Relative Umidity	
400V 3ph+N+T 50Hz	Power Supply	
3.5 kW	Max Power Absorbed	

STANDARD ACCESSORIES:

A042-A101 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 5 to 10 mm (0.18 to 0.39 in.) and 90 mm (3.54 in.) length.

A042-A102 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 10 to 15 mm (0.39 to 0.59 in.) and 90 mm (3.54 in.) length.

A042-A103 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 15 to 20 mm (0.59 to 0.79 in.) and 90 mm (3.54 in.) length.

A042-A104 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 20 to 30 mm (0.79 to 1.18 in.) and 90 mm (3.54 in.) length.

A042-A105 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 30 to 40 mm (1.18 to 1.57 in.) and 90 mm (3.54 in.) length.

A042-A106 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 40 to 50 mm (1.57 to 1.97 in.) and 90 mm (3.54 in.) length.

LBG srl

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A042-A107 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 50 to 60 mm (1.97 to 2.36 in.) and 90 mm (3.54 in.) length.

A042-A113 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 0 to 12 mm (0 to 0.47 in.) and until 80x90 mm (3.15x3.54 in.) (width x length).

A042-A114 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 12 to 24 mm (0.47 to 0.94 in.) and until 80x90 mm (3.15x3.54 in.) (width x length).

A042-A115 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 24 to 36 mm (0.94 to 1.42 in.) and until 80x90 mm (3.15x3.54 in.) (width x length).

A042-A116 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 36 to 48 mm (1.42 to 1.89 in.) and until 80x90 mm (3.15x3.54 in.) (width x length).

A010-A111 EQUIPMENT FOR COMPRESSION TESTS

Consist of one upper plate spherically seated compression self-aligning \emptyset 100 mm (3.94 in.) and fixable and a lower plate plane \emptyset 150 mm (5.90 in.). Steel made 58HRC.

A042-A112

EQUIPMENT FOR FLEXURAL / BENDING TESTS

3-point flexural / bending device, Steel made.

Distance between supports adjustable from 50 to 500 mm (1.97 to 19.68 in.).

Upper diameter roller 25 mm (0.98 in.)

Lower Set of diameter rollers 50 and 100 mm (1.97 and 3.94 in.).

OTHER ACCESSORIES ARE AVAILABLE ON REQUEST

