

Product Information

CTA: 142350 139700

BUP 1000 Sheet Metal Testing Machines for testControl II



BUP 1000 Sheet Metal Testing Machine



Testing the ductility of sheet metals in accordance with established standards and customers' requirements.

Testing the influence of surface treatments, coatings, and lubricants in typical types of forming such as cupping and earing tests. Checking the effect of tool and process parameters on the forming process.

Advantages and features

- Fast, easy tool and fixture changes, including drawingpunch, drawing-die, blank-holder, cutting-punch, cutting-ring and scraper-ring. Numerous modular expansion options.
- Test tools/fixtures for established test methods available 'off-the-shelf', special tools on application. Test tools/fixtures from earlier-generation machines can mostly still be used.
- Open-design tool head for tests on long sheet metal strips.
- Low piston-actuator friction, proportional valve technology and non-contact digital travel sensor positioned centrally enable accurate measurement recording and outstanding reproducibility.
- Position-controlled deep drawing speed.
- Deep drawing speed or clamping force can be changed manually during the test sequence.
- Program-controlled change of deep drawing speed and clamping force during the test.



Display for BUP 400 / 600 / 1000 (1048583)

- Automatic piston withdrawal and switch-off after end of test due to crack detection or on reaching maximum ram stroke (s-limit).
- Easy to operate: illuminated push-buttons guide the operator intuitively through the test sequence.
- Electrical and hydraulic protection for all functions.
- Innovative testControl II with 500Hz measured-value acquisition-rate for high data transmission rate, together with 24-bit resolution and 2-channel safety circuit. Development based on experience gained from over 12,000 installations of testControl electronics.
- testXpert III software: logical grouping of test preparation and performance, results analysis and the higher-level system settings makes every user feel confident and at home with the software, avoiding user error. Time-synchronized display of clamping, ram force and ram stroke measurement channels.
- Clean and quiet in operation. Easily transportable thanks to compact design.
- Individual requirements accommodated: as an alternative to the standard version, the testing machine, tools and accessories can be adapted to suit your requirements, e.g. piezo load cell, different deep drawing speeds, separate hydraulic power-pack, Ubending tool etc.



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- Set-up stroke for easy tool change.
- Hydraulic opening and closing of tool head, with 2-handed operation
- Display for parameter input and test result read-out has a swivel arm mount and can be aligned to suit the operator. Alternatively the testing system can optionally be operated with testControl II electronics and testXpert III testing software.



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Technical data

Туре	BUP 1000	
Item No.	1043584	
Test load, max. (ram force, max.)	1000	kN
Machine dimensions		
Overall height, approx.	1522	mm
Table height	1104	mm
Height up to tool head (w/o protective screen), approx.	1361	mm
Width	1200	mm
Depth	1970	mm
Weight, approx.	2100	kg
Punching force, max.	1000	kN
Clamping force, max.	5 to 1000	kN
Specimen measurements		
Blank (punchable), max.	Ø 250	mm
Blank, insertable, max.	Ø 250	mm
Blank, insertable (with centering finger), max.	Ø 270	mm
Sheet metal strip width, max.	260	mm
Sheet thickness, max.	10	mm
Test tool measurements		
Draw matrix, outer, max.	Ø 250	mm
Draw die, max.	Ø 120	mm
Reading accuracies		
Reading accuracy, ram stroke	0.01	mm
Reading accuracy, ram force	0.01	kN
Read-off accuracy for clamping force	0.01	kN
Reading accuracy of deep drawing speed	0.01	mm/s
Ram stroke (travel of the deep draw piston)	0 to 150	mm
Deep drawing speed, max.	750	mm/min
Coolant		
Coolant connection	G1/2"	
Cooling water requirement at 25°C water temperature	10	l/min
Power specifications		
Electrical supply	3 x 400	V (3Ph, N, PE)
Electrical connection with tC II option	3 x 400	V (3Ph, N, PE)
Power consumption	19	kVA
Frequency	50	Hz
Back-up fuse	32	А