

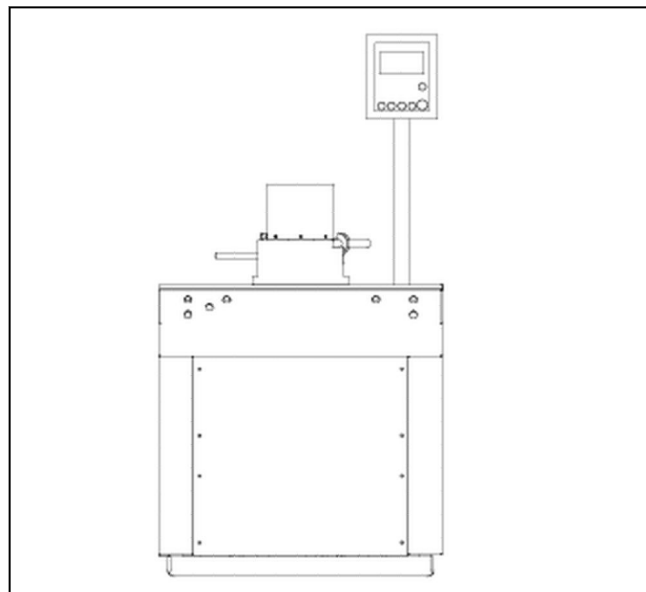
Product Information

BUP 100 / BUP 200 Sheet Metal Testing Machines

CTA: 98818 61671



BUP 200 sheet metal testing machine



Drawing: BUP 100 / BUP 200

Applications

Testing the ductility of sheet metal to common standards (DIN EN ISO 20482, DIN EN 1669).

Testing the influence of surface treatments, coatings, and lubricants for typical types of forming such as cupping and earing tests. Testing the influence of tools and method parameters on the forming process.

Advantages and features

- Fast, easy tool and fixture changes, including drawing-punch, drawing-die, blank-holder, cutting-punch, cutting-ring and scraper-ring. Numerous modular expansion options.
- Test tools/fixtures from earlier-generation machines can still be used (with some restrictions). Test tools/fixtures for established test methods available 'off-the-shelf', special tools/fixtures on application.
- Low piston-cylinder friction enables accurate measurement recording and excellent reproducibility.
- Clean and quiet in operation. Easily transportable thanks to compact design.
- Hydraulic cup-extractor via integrated piston, with piston rod acting through drawing-punch.
- Electronics can be swiveled to optimum viewing angle for measured values.
- Conveniently positioned controls.
- Electrical and hydraulic protection for all functions.
- Adjustable automatic blank-holder unloading during test enables cup-drawing without crushing ear.
- Automatic setting of pre-selected clamping force after blanking procedure.
- Automatic piston withdrawal and switch-off after end of test due to crack detection or on reaching maximum ram stroke (s-limit).
- Swing doors and removable casing panels for easy access to components.
- Open design allows multiple tests to be performed on long sheet-metal strips without the need to open and close the tool head.
- No unpleasant odors thanks to closed oil-circuit.
- Special solutions (e.g. piezo load cell, different deep drawing speeds, separate hydraulic power-packs etc.) are available on request.

Product Information

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Technical data

Type Item no.	BUP 100 049779	BUP 200 024024	
Test load, max. (ram force, max.)	100	200	kN
Machine dimensions			
Total height, approx.	1,635	1,635	mm
Table height	880	880	mm
Height to tool head	1,185	1,185	mm
Width	850	850	mm
Depth	1200	1200	mm
Weight, approx.	650		kg
Punch force, max.	275	275	kN
Clamping force, max.	275	275	kN
Dimensions of the specimen			
Blank (punchable)	Ø 118	Ø 118	mm
Blank, insertable, max.	Ø 165	Ø 165	mm
Blank, insertable (with centering finger), max.	Ø 105	Ø 105	mm
Sheet metal strip width, max.	128	128	mm
Sheet metal thickness, max.	6.4	6.4	mm
Measurements of the test tools			
Draw matrix, outer, max.	Ø 155	Ø 155	mm
Draw die, max.	Ø 60	Ø 60	mm
Read-off accuracy for ram stroke	0.01	0.01	mm
Read-off accuracy for ram force	0.01	0.01	kN
Read-off accuracy for clamping force	0.01	0.01	kN
Reading accuracy of deep drawing speed	0.01	0.01	mm/s
Ram stroke (travel of the deep draw piston)	0 ... 80	0 ... 80	mm
Deep drawing speed, max.	1200	1200	mm/min
Coolant			
Coolant water connection	G1/2"	G1/2"	
Coolant water req. at 20 °C water temperature	4	4	l/min
Electrical supply data			
Electrical power supply	3 x 400	3 x 400	V (3Ph, N, PE)
Power consumption	10	10	kVA
Frequency	50	50	Hz
Back-up fuse	32	32	A