

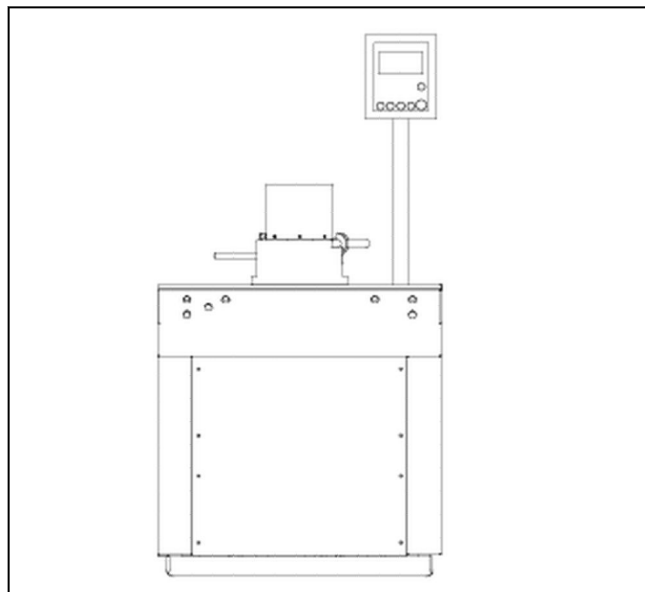
Product Information

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 ears.
- Automatic setting of pre-selected sheet 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.

PI 507 0217

Product Information

BUP 100 / BUP 200 Sheet Metal Testing Machines

Type	BUP 100	BUP 200	
Item No.	049779	024024	
Test load, max. (ram force, max.)	100	200	kN
Machine dimensions			
Overall height, approx.	1,635	1,635	mm
Table height	880	880	mm
Height to tool head	1185	1185	mm
Width	850	850	mm
Depth	1200	1200	mm
Approx. weight	650	650	kg
Punching force, max.	275	275	kN
Clamping force, max.	275	275	kN
Specimen dimensions			
Circular blank, punchable dia.	Ø 118	Ø 118	mm
Circular blank, max. insertable dia.	Ø 165	Ø 165	mm
Circular blank, max. insertable dia. (with centering finger)	Ø 105	Ø 105	mm
Sheet metal strip width, max.	128	128	mm
Sheet thickness, max.	6.4	6.4	mm
Tool/fixture dimensions			
Drawing die outside dia, max.	Ø 155	Ø 155	mm
Drawing punch dia, max	Ø 60	Ø 60	mm
Drawing punch dia, max			
Reading accuracy, ram stroke	0.01	0.01	mm
Reading accuracy, ram force	0.01	0.01	kN
Reading accuracy, clamping force	0.01	0.01	kN
Reading accuracy, deep drawing speed	0.01	0.01	mm/s
Ram stroke (travel of deep draw piston)	0 - 80	0 - 80	mm
Deep drawing speed, max.	1200	1200	mm/min
Coolant water			
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 (3 Ph/PE)
Power consumption	10	10	kVA
Frequency	50	50	Hz
Back-up fuse	32	32	A