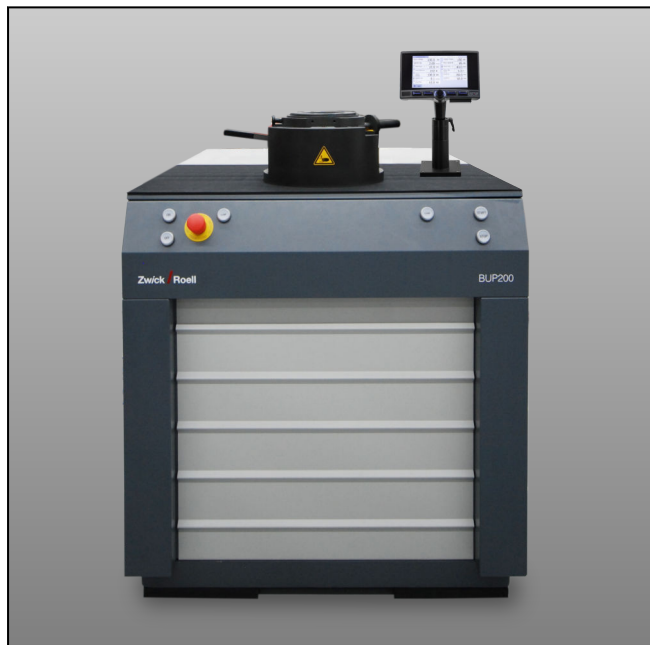


Product Information

BUP 100 / BUP 200 Sheet Metal Testing Machines for testControl II

CTA: 142344 139700



BUP 200 Sheet Metal Testing Machine



Display for BUP 100 / 200 (1048582)

Range of application

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 drawing-punch, 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.

- 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, U-bending tool etc.

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- Mechanical two-handed operation for opening and closing tool head - no risk of accident due to tool head falling through accidental jolt.
- Display for parameter input and test result read-out has a swivel 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.
- Low testing machine overall height plus convenient positioning of controls enables fatigue-free, operator-friendly working.

Type Item No.	BUP 100 1043578	BUP 200 1043580	BUP 200 3005322	
Test load, max. (ram force, max.)	130	200	200	kN
Machine dimensions				
Total height, approx.	1255	1255	1208	mm
Table height	903	903	903	mm
Width	850	850	850	mm
Depth	1200	1200	1200	mm
Weight, approx.	650	650	650	kg
Punching force, max.	275	275	275	kN
Clamping force, max.	275	275	275	kN
Specimen dimensions				
Blank (punchable)	Ø 118	Ø 118	Ø 118	mm
Blank, insertable, max.	Ø 165	Ø 165	Ø 165	mm
Blank, insertable (with centering finger), max.	Ø 105	Ø 105	Ø 105	mm
Sheet metal strip width, max.	128	128	128	mm
Sheet metal thickness, max.	6.4	6.4	6.4	mm
Test tool measurements				
Drawing matrix, outer, max.	Ø 155	Ø 155	Ø 155	mm
Drawing punch, max.	Ø 60	Ø 60	Ø 60	mm
Read-off accuracy, ram stroke	0.01	0.01	0.01	mm
Read-off accuracy, ram force	0.01	0.01	0.01	kN
Read-off accuracy, clamping force	0.01	0.01	0.01	kN
Read-off accuracy, deep drawing speed	0.01	0.01	0.01	mm/s
Ram stroke (travel of deep drawing piston)	0 ... 80	0 ... 80	0 ... 80	mm
Deep drawing speed, max.	1200	1200	1200	mm/min
Coolant				
Coolant connection	G1/2"	G1/2"	-	
Coolant requirement at 20°C water temperature	4	4	-	l/min
Air cooler behind testing machine	-	-	x	
Noise level in idle mode at 1.8 meter height	52	52	58	dB(A)
Power specifications				
Electrical connection	3 x 400	3 x 400	3 x 400	V (3Ph, N, PE)

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BUP 100 / BUP 200 Sheet Metal Testing Machines for testControl II

Type	BUP 100	BUP 200	BUP 200	
Item No.	1043578	1043580	3005322	
Electrical connection with option tC II	3 x 400	3 x 400	3 x 400	V (3Ph, N, PE)
Power consumption	10	10	10	kVA
Frequency	50	50	50	Hz
Back-up fuse	32	32	32	A



NOTE

Alternatively, the BUP100 and BUP200 can be equipped with an air cooler. An air cooler that is connected to the BUP via hydraulic hoses is placed behind the testing machine.