

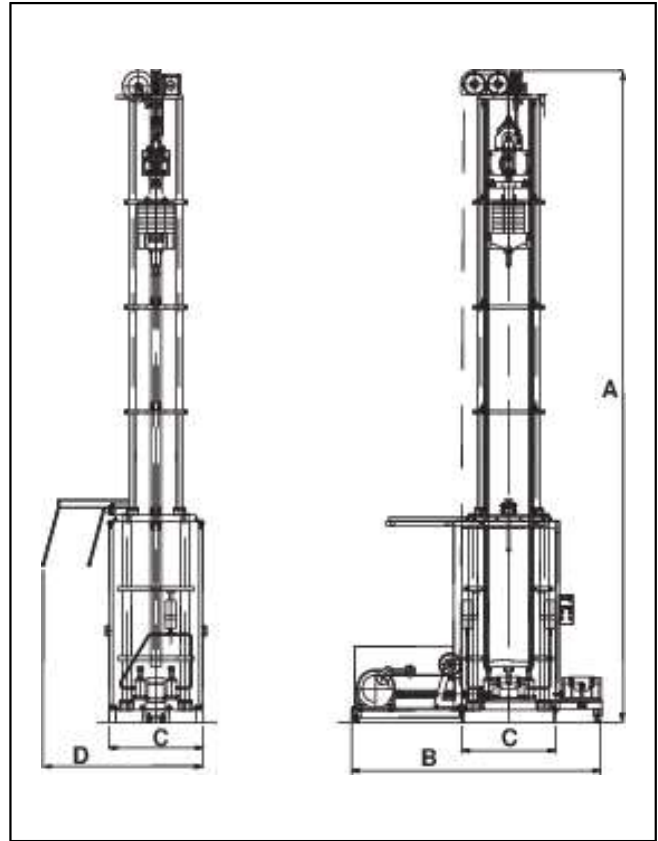
Product Information

ZwickRoell DWT20 / DWT30 / DWT40 drop weight testers

CTA: 11878 12020



ZwickRoell high energy drop weight testers DWT40 with 5 m drop height



Drawing: ZwickRoell high energy drop weight testers DWT40 with 5 m drop height

Range of application

Testing steel steel specimens from 10 to 50 mm as per ASTM E436-71T, API-RP 5 L3 and EN 10274: drop weight test

Advantages and features

- Modular "building block" system with six sizes and two drop-heights.
- Pneumatic specimen feed and fixture loading outside the test area guarantees fast, reliable feeding within the time required by the standard.
- Quick-change system for anvils.
- Flexure table with integrated centering unit. Different specimen thicknesses can be set quickly and easily.
- Electrical and mechanical test-area safeguards with safety circuit - the test does not begin until all safety switch contacts have been interrogated.
- Electronically monitored, pneumatically operated safety interlocking to guard the test area against accidents.

- Touchscreen operation with electronic display of drop height, drop energy, drop weight and impact velocity.
- The steplessly adjustable drop height is automatically achieved after input of drop weight and drop energy.
- The drop weight is divided into individual weights to allow adjustment of drop energy. The weight is measured electronically, eliminating input errors.
- Four high-performance reservoir-type shock absorbers for safe, reliable drop-weight arrest.
- Controlled low-temperature cooler for accurately maintained specimen temperature.
- Plan view of foundation included in delivery.
- The connecting plate, anchor bolts and grout included in delivery can be supplied in advance if required.

PI542 1118

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ZwickRoell DWT20 / DWT30 / DWT40 drop weight testers

Model DWT	20-2.5	20-5	30-2.5	30-5	40-2.5	40-5	
Energy	20000 J	20000 J	30000 J	30000 J	40000 J	40000 J	
Item No.	640064	640070	640071	640072	640073	640074	
Load frame							
Max. drop height	2.5	5	2.5	5	2.5	5	m
Drop weight	820	410	1225	612	1630	820	kg
Min. drop weight	460	410	457	457	480	456	kg
Additional single weights							
6.0 kg	-	-	8	6	2	-	pcs.
15.0 kg	2	-	15	8	76	15	pcs.
Total weight	6100	6350	6850	7050	7150	7050	kg
Impact velocity	7	9.9	7	9.9	7	9.9	m/s
Lift-unit speeds							
fast	18	18	18	18	18	18	m/ min
slow	3	3	3	3	3	3	m/ min
Dimensions							
A - overall height	5900	8000	5750	8000	5900	7960	mm
B - width	3100	3060	3210	3060	3210	3060	mm
C - width	1140	1140	1140	1140	1140	1140	mm
D - width	1965	1965	1965	1965	1965	1965	mm
Foundation dimensions	2150 x 2150	2150 x 2150	2150 x 2150	2150 x 2150	2150 x 2150	2150 x 2150	mm
Max. specimen dimensions							
Length	305	305	305	305	305	305	mm
Width	50	50	50	50	50	50	mm
Height	76	76	76	76	76	76	mm
Low-temperature cooler							
Temperature	-80	-80	-80	-80	-80	-80	°C
Max. temperature variation	±1	±1	±1	±1	± 1	±1	°C
Number of specimens	3	3	3	3	3	3	pcs.
Specimen dimensions	50 x 76 x 305	50 x 76 x 305	50 x 76 x 305	50 x 76 x 305	50 x 76 x 305	50 x 76 x 305	mm
Electrical supply data							
Electrical supply	3x 400	3x 400	3x 400	3x 400	3x 400	3x 400	V, N/PE
Power consumption	11	7	11	5	11	5	kVA
Power supply frequency	50	50	50	50	50	50	Hz
Compressed air	8	8	8	8	8	8	bar
Air consumption	600	600	600	600	600	600	l/min
Ambient temperature	+10 ... +35	+10 ... +35	+10 ... +35	+10 ... +35	+10 to +35	+10 ... +35	°C
Humidity	20 ... 90	20 ... 90	20 ... 90	20 ... 90	20 to 90	20 ... 90	%