

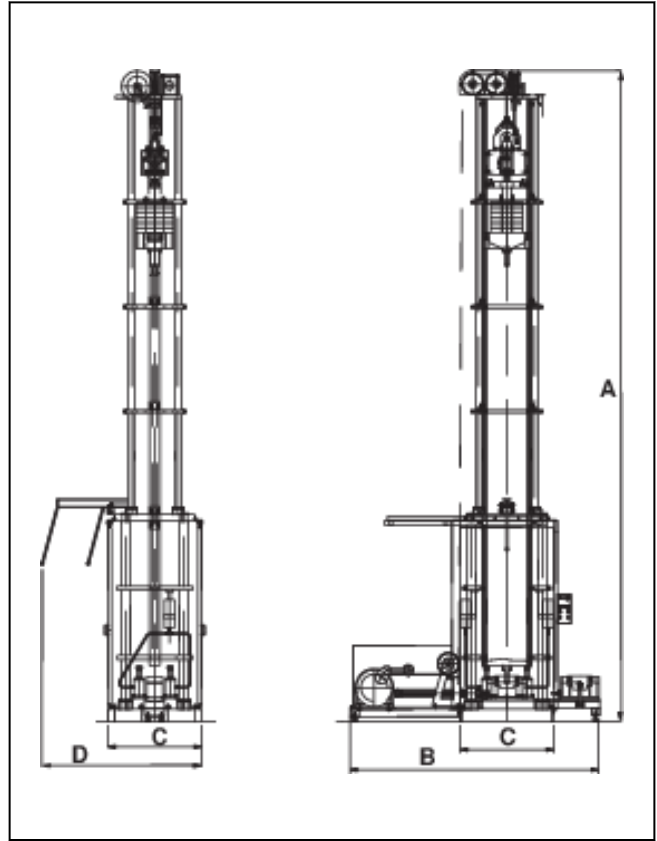
## Product Information

### Zwick DWT20 / DWT30 / DWT40 drop weight testers

CTA: 11878 12020



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



Drawing: Zwick 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 0917

## Product Information

### Zwick 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	
<b>Load frame</b>							
Max. drop height	2.5	5	2.5	5	2.5	5	m
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
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
<b>Low-temperature cooling unit</b>							
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
<b>Electrical supply data</b>							
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 ... +35	+10 ... +35	°C
Humidity	20 ... 90	20 ... 90	20 ... 90	20 ... 90	20 ... 90	20 ... 90	%