

Product Information

High Energy Drop Weight Testers DWT60 / DWT80 / DWT100



Figure: Zwick high energy drop weight testers DWT60 with 2,5 m drop height

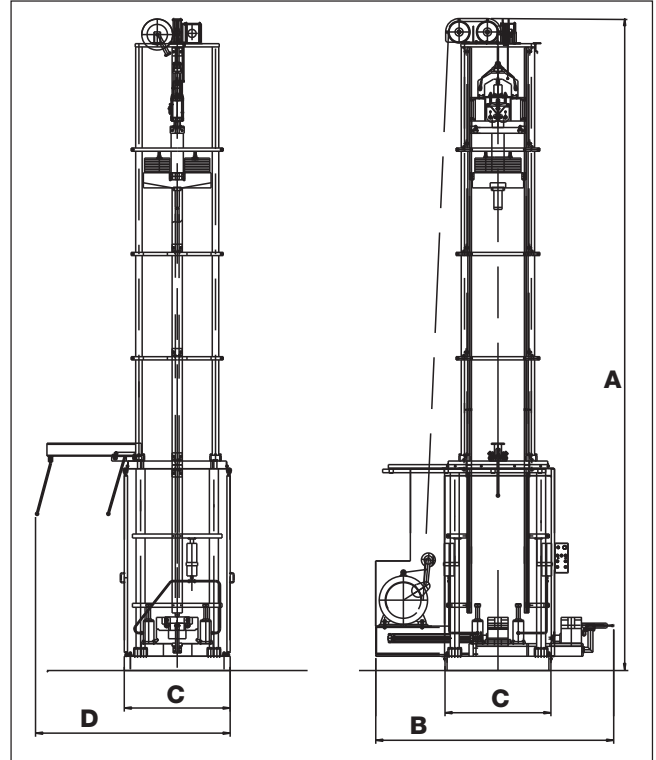


Figure: Drawing of Zwick high energy drop weight testers DWT60 with 5 m drop height

Application range

- Testing of "Batelle-Specimen" according to ASTM-E 436-71T, API-RP 5 L3 and DIN EN 10274: "Drop Weight Tear Test"

Advantages and features

- Modular design with six frame sizes and two drop heights
- Pneumatic specimen feeding and tools equipped outside of testing area
- Removable bending tools
- Electrical and mechanical safety devices with safety circuit - testing is possible only after check of all safety switches
- Exclusive pneumatic safety ratchet for catastrophic failures
- Touch Screen Panel with electronic display of drop height, energy, drop weight and drop speed
- The stepless adjustable drop height is reached automatically after input of drop weight and energy
- Drop weight divided in individual weights, to adjust drop energy
- Four high capacity shock absorbers with accumulators for safety absorption of the drop weight
- Controlled low temperature cooling device for accurate specimen temperature

Product Information

High Energy Drop Weight Testers DWT60 / DWT80 / DWT100

Technical data

Type	DWT60-5 60000 J	DWT80-5 80000 J	DWT100-5 100000 J
Max. drop height [m]	5	5	5
Drop weight [kg]	1225	1630	2040
Weight [kg]	9300	9800	11800
Speed of drop [m/s]	9.9	9.9	9.9
Speed of weight lift			
fast [m/min]	18	18	18
slow [m/min]	3	3	3
A – Max. height approx. [mm]	8300	8300	8300
B – Width approx. [mm]	3060	3060	3060
C – Width approx. [mm]	1360	1300	1360
D – Width approx. [mm]	2500	2500	2500
Drive power [kW]	11	11	11
Air pressure [bar]	8	8	8
Air consumption [l/min]	1000	1000	1000
Low temperature cooling device			
Temperature [°C]	-80	-80	-80
Max. deviation of temperature	±1	±1	±1
Number of specimens	3	3	3
Dimensions of specimens [mm]	50 x 77 x 305	50 x 77 x 305	50 x 77 x 305
Item no.	• 003972 (BX5102.00.60-001)	• 011273 (BX5102.00.80-001)	• 011272 (BX5102.00.100-001)