

Drop Weight Tear Testing Equipment

DWT40-40

Item	Description	Qty	
1.0	DWT40- 40 Drop Weight Tear Tester, inclusive of:	1	Inclusive
1.1	Fixed mass carriage, 1000kg	1	-
	Drop height range: 1.5m to 4.2m		-
	Impact velocity range: 5.0m/s to 9.0m/s		
	impact energy range:12,500J to 40,500J		
1.2	Winch system and catcher for positioning drop mass	1	-
1.3	Catcher release system, with safety interlock	1	-
1.4	Striker assembly and striker bar, conforms to EN ISO10274	1	-
1.5	Interchangeable anvil and bar support assembly conforms to EN ISO10274	1 set	-
1.6	Automated specimen alignment system for pressed notch specimen (chevron notch also available as an option)	1 set	-
1.7	Mass arrest by use of x6 hydraulic shock absorbers	1 set	-
1.8	Sub-base for foundation mounting with specimen recovery drawer	1	-
1.9	Main-base with base-anvil assemblies	1	-
1.10	Specimen auto-loader & alignment table (specimen thickness from 6mm to 50mm)	1	-
1.11	Safety guarding with industry standard electrical interlocking	1 set	-
1.12	Maintenance gantry with access ladder	1 set	-
1.13	IM112 electrical control system in enclosure (rated to IP54)	1	-
1.14	Hand controller winch pendant (for maintenance and manual control)	1	-
1.15	PC system with Windows OS for overall machine control	2 set	-
1.16	Lockable PC enclosure	1	-
1.17	Standard tool set and setting jigs (for maintenance and verification)	1 set	-
1.18	Certificates of calibration & conformity	1 set	-
2.0	DWT40 instrumentation system, inclusive of:	1	Inclusive
2.1	C3008 instrumentation interface	1	-
2.2	Force transducer 1,500KN FSD	1 set	-
2.3	High bandwidth signal conditioning amplifier (Fylde)	1	-
2.4	Four channels 3Ms/s, 32,000 data point acquisition	1	-
2.5	Velocity measurement system (laser and target)	1 set	-
2.6	Software for system control, analysis and data management (selectable - English/French/German/Russian)	1	-
2.9	Manuals set including safety, operator, maintenance, software, schematics	1 set	-
3.0	Accessories and consumables for up to one year's/10,000cycles operation:	1 set	Inclusive
3.1	DWT400531, striker bar to EN ISO10764 (consumable part)	5	-
3.2	DWT400131, anvil bar - pair of, to EN ISO10764 (consumable part)	10	-
3.3	DWT400082, pair of specimen clamp contact pads (consumable part)	2 sets	-

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4.0	Installation package, inclusive of:	1	Inclusive
4.1	Sea freight packing – sealed wooden crates	1 set	-
4.2	Installation supervision of apparatus	1	-
4.3	System commissioning	1	-
4.4	End-User demonstration (acceptance tests)	1	-
4.5	Operator and First-Line Maintenance training	1	-
Consumable and wear parts			
5.0	Additional set of accessories and consumables for up to 10,000 test cycles, consisting of:	1 set	Inclusive
5.1	DWT400531, striker pin – conforms to EN ISO10764, API 5L3, ASTM 436 (consumable part)	5	-
5.2	DWT400131, anvil pin - pair of – conforms to EN ISO10764, API 5L3, ASTM 436, (consumable part)	10	-
5.3	DWT400082, pair of specimen clamp contact pads (consumable part)	2 sets	-
Specimen cooling bath – self-contained, mechanical cooling			
7.0	DWT-CBM-3, specimen cooling bath Holds up to eight 20mm and up to three 50mm thickness specimens Range from –80°C to +20°C Cooling by self-contained ultra-low Refrigerated Circulator with 2-stage cascade cooling Immersion medium – not included (requires ethanol or silicone oil) Circulation fluid (cooling) – not included (requires ethanol or silicone oil)	1	Inclusive
Specimen notching equipment			
9.0	DWT-P1100, specimen notching system.	1	Inclusive
	Complete with:		
	Hydraulic power pack	1	-
	Notching tool, including 2 spares	1	-
	Safety guarding and interlocks	1	-
	Electrical control system	1	-
	Price when supplied and installed with DWTT system		
9.1	Spare knife edge (notching tool)	1	-