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Datasheet

Quasar 200 200kN Advanced Universal Testing Machines

TQ01.07 TQ01.07.01

The 200 kN Quasar is the product of state of the art design, built to the highest quality levels and has many advanced technical features.

Programming tests and monitoring results can be controlled through our powerful and Intelligent Graphwork test software, which allows complete and accurate data management in accordance with European, North American and International Standards.

This instrument is suitable for use both in production lines where the operator has to be fast and efficient and can accurately control the test with the optional remote control unit and also laboratory environments where the advanced software lets users analyse the test data. Graphwork allows full control of processing, filing, managing, and transmitting data to the company network, database, and performs many other functions.

This Quasar frame has a flexible and modular construction. It can be equipped with various grips and fixtures, as well as extensometers, additional load cells, temperature chambers and many more accessories, for a wide range of applications (tensile, compression, flexure, etc.).

In addition, this user-friendly instrument can be fitted with additional load cells with lower capacities, providing the highest resolution and accuracy for micro-loads.

- Two-column rigid system with 200 kN maximum capacity
- Suitable for metals, plastics, composites and other materials
- Stylish design and advanced features
- One-Year Warranty
- Flexible and modular design for easy future expansion
- Key technical advantages include extremely high resolution of load and stroke readings, as well as minimum test speed of 0.0005mm/min, for the high performance and most accurate results
- Manufactured by an ISO 9001 certified company
- Excellent price-to-quality ratio



Ethernet connection

Universal testing machine Quasar 200 with special grip ,"Micron Motor" extensometer, safety barrier and touch screen monitor



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(1) Data of standard load cell. See below for other available auxiliary load cell

(2) Including load cell. This value is evaluated in compression, without any type of grip

(3) Average on 1 second or 0.01 mm of stroke (the longer in time) without or constant load.

(⁴) Some type of extensometers or other devices may reduce this value

(5) Some optional device need a compressed air line (5 bar) or different power supply

6) Frame dimension. Electrical connectors on the rear of the machine. See drawing

⁽⁷⁾ Machines are packed and travel in lying position



Auxiliary load cell (removable)



AVAILABLE AUXILIARY LOAD CELL: (⁸)												
ITEM		TQ03.04.01	TQ03.04.01.0A	TQ03.04.01.0B	TQ03.04.02	TQ03.04.03	TQ03.04.03.0A	TQ03.04.04	TQ03.04.05	TQ03.04.06	TQ03.04.07	TQ03.04.08
Nominal size		10 N	20 N	50 N	100 N	250 N	500 N	1 kN	3 kN (¹²)	5 kN	10 kN	25 kN
Max accidental overload (¹¹) / breaking load		150% of nominal size / 300% of nominal size										
Stiffness(9)	Average Deformation at full load	33 N/mm	67 N/mm	167 N/mm Max. 0.3 mm	333 N/mm	833 N/mm	2500 N/mm Ma	5000 N/mm ax. 0.2 mm	15000N/mm 1	16500N/mm N	33000N/mm lax. 0.3 m	83500N/mm M
Type (see drawing)				А				В			С	
Kit for use as auxiliary cell (sold separately) (¹³)		TQ03.05.02 (generic code, correct load cell must be specified)										

(8) The main load cell is always a 250 KN size. No limit in number of auxiliary load cell to be used under the main one.

All load cell can work in compression and tensile. If certification is required, every load cell (included main one) needs a different one.

(⁹) Stiffness of the load cell only. The deformation under load is the sum frame + auxiliary cell (¹⁰) Standard 250kN load cell is included in the item of the frame machine (¹¹) A new calibration of the load cell may be necessary if "max accidental overload" is exceeded.

(12) Max load of TQ03.04.05 load cell is software limited to 2.5 kN.

(13) The kit include female and male connection, pin and locknut (as in draw). Every auxiliary load cell need 1 kit. Using auxiliary cell need grip with connection size ø20 pin ø8.

MAIN OPTIONAL:								
	ITEM							
Kevlar ball screw covers – (couple)	TQ11.02.03							
Mobile pushbutton panel for machine control	TQ03.03							
Silenced air compressor 0,75 Kw 1450 rpm 230V 50Hz 1A 98 litre/min	TQ03.08.04							
Internal piping with solenoid valves for use pneumatic device by keypad – compressed air line required (min 5 bar) (¹⁴)	Standard							
Table for PC and printer only (width x depth x height mm 900 x 800 x 730) - grey	TQ03.07.03							
Touch screen (~ 7 inch) colour monitor (to be use as keypad) (15)(16)	TQ03.02.00							
Calibration certificate class 1 in range 1%-100% of full load	TQ02.02.01							
Calibration certificate class 0.5 in range 1%-100% of full load	TQ02.02.01.A							
Extension of certification class 1 in range 0,2%-1% of full load (TQ02.02.01 or TQ02.02.01.A required)	TQ03.06.01							
PC (¹⁵) multi-language	TQ03.01.03							
Touch PC all-in-one with support on column (¹⁵)(¹⁷)	TQ03.01.01.02							
Colour printer A4	TQ03.01.02							
USB Web cam(¹⁵) – the use of camera for recording test requires the special software module TQ02.01.04	TQ03.01.03							
Electronic power supply stabilizer	TQ03.08.03							
Integral barrier - Aluminium profile and mm thickness polycarbonate panels - Split opening front and rear door, with electric interlock (18)	TQ11.01.02							
Extra price for reinforced structure and panels in polycarbonate 8 mm thickness	TQ11.02.01							
Analogic input channel (strain gage type) for longitudinal deformation	Standard							
Analogic input channel (LVDT type) for longitudinal deformation	Standard							
Second analogic input channel (strain gage type) for transversal deformation	TQ02.01.17							
Second analogic input channel (LVDT type) for transversal deformation	Standard							

(14) Included filter+regulator+pressure indicator

(15) Characteristic of electronic device are constantly changing, type of supplied item may change with technology

(¹⁶) Item TQ03.03 and TQ03.02.00 may co-exist (¹⁷) not usable for some external special device (e.g. special extensioneter, digital I/O)

(¹⁸) Generic code. Dimension may change according installed device (e.g. special extensometer or grip)







TQ03.01.01.0



TQ03.03



TQ03.02.00



TQ08.11



TQ03.04.05 + TQ03.05.01



TQ03.07.03 + TQ03.01.03



TQ03.01.03



TQ03.08.04

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You in



