

Quasar 400

 400 kN Advanced Universal Testing Machine

TQ01.09/S

The 400 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 Labtest 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. Labtest 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.).

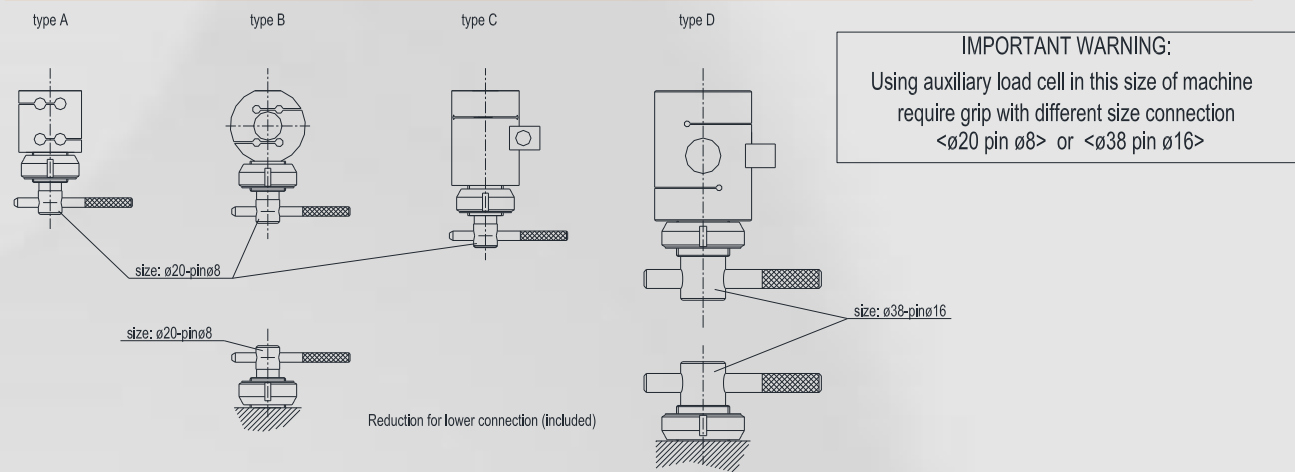
In addition, this user-friendly instrument can be fitted with additional load cells with lower capacities, providing the highest resolution and accuracy for micro-loads.

- Two-column rigid system with 400 kN maximum capacity
- Suitable for metals, composites and other materials
- Stylish design and advanced features; 4.0 instrument
- Flexible and modular design for easy future development
- Key technical advantages include extremely high resolution of load and stroke readings, as well as minimum test speed of 0.0005 mm/min, for the high performance and most accurate results
- Manufactured by ISO 9001 Certified Company
- Excellent price-to-quality ratio



Ethernet connection

Universal testing machine Quasar 400
With pneumatic wedge grip



AVAILABLE MAIN / 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	On request	On request
Nominal size	10 N	20 N	50 N	100 N	250 N	500 N	1 kN	3kN ⁽¹²⁾	5 kN	10 kN	25 kN	50 kN	100 kN
Max accidental overload ⁽¹¹⁾ / breaking load	150% of nominal size / 300% of nominal size												
Stiffness ⁽⁹⁾ Average [N/mm]	33	67	167	333	833	2,500	5,000	15,000	16,500	33,000	83,500	166,500	335,000
Deformation at full load	Max. 0.3 mm			Max. 0.2 mm				Max. 0.3 mm			Max. 0.3 mm		
Type (see drawing)	A			B				C			D		
Kit for use as auxiliary cell (sold separately) ⁽¹³⁾	On request (depending on the configuration)												

⁽⁸⁾ The main load cell is always the standard 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 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 correct connection. The kit depending from grip permanently assembled on machine (wedge, shoulder, hydraulic...)

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