

Triaxial load frame TRIAX



28-WF4001

- Designed for soil testing laboratories conducting UU, CU and CD triaxial tests
- Suitable for a wide range of tests such as unconfined, CBR and Marshall tests, in addition to the tests above
- Maximum load frame capacity: 50 kN
- Speed range from 0.00001 to 50.8 mm/min
- Large high-contrast 4 x 20-character display and 6-key membrane keyboard
- Ideal solution for commercial laboratories that need a very versatile machine able to perform a wide range of tests

Standards BS 1377:7 | ASTM D2850 | ASTM D4767 | BS 1377:8 | NF P94 070 | NF P94 074 | CEN- ISO/TS 17892-9 | CEN- ISO/TS 17892-8 | ASTM D7181

WYKEHAM FARRANCE's electro-mechanical TRIAX - triaxial machine - has been designed specifically for triaxial applications and is ideal for commercial laboratories that need a versatile machine capable of performing a wide range of tests.

The load frame is built around a robust twin column structure, ensuring extremely high rigidity up to 50 kN.

When the frame is used in PC control mode, all the main functions (speed fast/slow, direction up/down, stop). All functions can also be remotely managed by PC via a set of commands in ASCII format using RS 232 port. In manual mode, the user-friendly keyboard on the front panel is used to control all the frame's functions, including a rapid approach facility

that reduces test set-up time. For efficient use the last settings are automatically recalled after switch on. The frame is equipped with micro switches that prevent over-travel problems. The panel and display are protected from water and dust by a waterproof membrane.

The frame has been designed for soil testing labs conducting UU (unconsolidated undrained), CU (consolidated undrained) and CD (consolidated drained) triaxial tests but it can also be used, due to its large range of speeds, to perform unconfined, CBR and Marshall tests.

A complete range of parts and accessories is available to configure this machine for any typical triaxial soil testing application.

Technical specification

Model	28-WF4001
Maximum sample diameter, mm	70
Minimum testing speed, mm/min	0.00001
Maximum testing speed, mm/min	50.8
Maximum load frame capacity, kN	50
Minimum vertical clearance, mm	390
Maximum vertical clearance, mm	725
Horizontal clearance, mm	380
Platen diameter, mm	158
Platen travel, mm	100
Dimensions, mm (h x w x d) (approx.)	1215 x 500x 495
Power, W	600
Weight, kg (approx.)	90

Ordering information

28-WF4001

Triaxial load frame 50kN cap.
230-110V/50-60Hz/1ph

Accessories

Triaxial cells

Standard triaxial cells and accessories
Triaxial cells for advanced applications

Measurement instruments

Manual

Axial strain dial indicators
Load measuring rings for triaxial test
Pore water pressure measurement
Double burette volume change apparatus

Digital

Axial strain displacement transducers
Submersible load cells - External load cells
Pressure transducers for triaxial test
Automatic volume change apparatus

Pressure systems for triaxial testing

Oil and water constant pressure system
Air/Water pressure system and controls panels
Hydraulic pressure controller

Water de-airing systems

De-airing tanks
De-airing water apparatus

Data acquisition and processing

Data acquisition and processing system for soil mechanics
Geo-Analysis templates

Widening

UNCONFINED	Analogical	28-WF1048	1
		28-WF6453	1
		70-T0104/9	1
		70-T0104/7	1
		82-D1255	1
		70-T0104/4	1
	Digital	70-P0375/C	1
		82-P0370	1
		28-T0104/81	1
		82-P0322	1
CBR	Analogical	70-T0108/5	1
		70-T0104/4	1
		28-WF1048	1
	Digital	70-T0103/3C	1
		82-T1009	1
		70-P0375/C	2
		82-P0375	1
		70-T0104/81	1
		82-P0322	1
		70-T0103/1	1
MARSHALL	Analogical	28-WF1048	1
		82-T1009/F or T1007/F	1
		70-T0104/10	1
		81-B0034	1
	Digital	81-B0033	1
		70-P0375/C	2
		82-P0375	1
		70-T0104/81	1
		82-P0322	1
		70-T0104/10	1
70-T0104/13	1		
81-B0033	1		



Load frame 28-WF4001 with triaxial digital configuration



Load frame 28-WF4001 with CBR digital configuration



Load frame 28-WF4001 with Marshall digital configuration



Load frame 28-WF4001 with Unconfined digital configuration



Load frame 28-WF4001 with Unconfined analogic test configuration



Load frame 28-WF4001 with Marshall analogic test configuration



controls-group.com
controls.fr
controlitalia.it
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controls.es
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controls-usa.com

CONTROLS S.R.L.
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