

Dry Auto Lift Arm ECO Wheel Tracker

CS-WTECO-A

EN 12697-22 SMALL DEVICE, AGPT/T231 (SUPERSEDES AST 01), T 0719



“ The Auto Lift Arm ECO Wheel Tracker saves energy, is space efficient and can double daily testing output ”

INTRODUCTION

The CS-WTECO-A™ wheel tracker performs both procedures A and B specified for the small scale device in EN 12697-22. Procedure A requires that six specimens are tested. For procedure B only two specimens need to be tested, but rut depth must be measured at more points along the longitudinal rut profile and the tests are longer. To speed up the testing process the CS-WTECO-A™ was designed to test two specimens within one working day via a pre-programmable unique lift arm mechanism (EC registered design #: 001699042).

KEY FEATURES

- Tests materials for roads with axle loads up to 13 tonnes (28.5klb)
- Fully programmable automated lift arm, enables up to twice the normal test throughput
- Automated pre programmable sample conditioning
- Small and compact for maximum energy efficiency, 28% saving over CS-WTEN1
- Integral temperature controlled cabinet with fully glazed doors
- PID control of test temperature in the range 40°C (104°F) to 62°C (143°F)
- Specimens compacted with the Cox & Sons Roller Compactor can be transferred directly to the wheel tracker without de-molding

SOFTWARE

- User friendly, intuitive and reliable Windows® software developed using LabVIEW™
- Programmable for auto start, enabling up to double daily testing output
- Programmable sample conditioning to enable test to start prior to the working day
- Software automatically starts the wheel tracker, maintaining the speed at the specified 26.5 cycles per minute

- Measures rut depth and sample temperature automatically at regular intervals
- The rut profile is captured automatically by the software and analysed to calculate the rut depth
- A continuously updated on-screen graph shows rut depth versus time, along with the rut profile and temperature
- Software stops the wheel tracker on completion of a test and prints a test report if required
- Stored test data can be analysed and compared with other test data utilizing a spreadsheet package. Excel® import data output
- Utilities are included for transducer check, diagnostic routines and RTD calibration

SPECIFICATIONS

Wheel Load N (lbf)	700 (157)
Mold Dimensions (WxL) mm (inch)	305 x 305 (12 x 12), 320 x 260 (12.5 x 10.2)
Wheel Speed	26.5 cycles per minute
Slab Thickness mm (inch)	35 to 100 (1.4 to 4)
Rut Depth Transducer Range mm (inch)	50 (2)
Temperature Range °C (°F)	40 to 62 (104 to 143)
Electrical Supply	CS-WTECO-A: 1 Ph 240 V 50 Hz CS-WTECO-A60: 1 Ph 110 V 60 Hz
Dimension (WxDxH) mm (inch)	1450 x 540 x 1450 (57 x 21.5 x 57)
Working space required (WxDxH) mm (inch)	2450 x 540 x 2000 (96.5 x 21.5 x 79)
Estimated Weight Kg (lb)	380 (840)
PC	Included

PRE-REQUISITE

- CS-WTRCM-50
Steel and aluminium quick release mold for roller compactor or wheel tracker, 305 x 305 x 50 mm (12 x 12 x 2 inch) deep¹
- CS-WTRCM-100
Steel and aluminium quick release mold for roller compactor or wheel tracker, 305 x 305 x 100 mm (12 x 12 x 4 inch) deep¹
- CS- WTECO-MCS
Mold Conditioning Shelf

YOU MAY ALSO NEED...

- CS-INSERT-10
Mold - Aluminium Insert 305 x 305 x 10 mm (12 x 12 x 0.4 inch) - used to adjust mold depth¹
- CS-WT-DIAM200
Split holder with steel base-plate for 200 mm (8 inch) Ø core specimen
- CS-ECOWH-IRHD20-80
Rubber wheel for Wheel Tracker for EN 12697-22
- CS-ECOWH-IRHD20
Rubber wheel for Wheel Tracker for AGPT/T231(supersedes AST 01)
- CS- WTECO-MCS
Mold Conditioning Shelf

¹ Other sizes available, please inquire