# 3019 - 1.5 KN.M SUPPORTED STAND CONFIGURATIONS



# **ADVANCED WITNESS SYSTEMS LTD**

# Advanced Witness Systems Ltd

1.5kNm Supported Calibration Stand Configurations

**VERSION 4.0** 

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#### DESCRIPTION

The AWS 1.5kNm Supported Calibration Stand can be used in conjunction with beams and weights, to calibrate a wide variety of bench and wall mounted torque tool testers. The supported shaft height is variable, and bars with T-grooves facilitate the mounting of testers of varying sizes and mounting holes. The vertical pillar allows calibration of wall-mounted testers.

Additionally there are two options for the supported calibration stand. The Inline Transducer option allows transducers to be calibrated, using a square drive plate. The Acratork option allows Acratork L2 and L3 wall mounted testers to be calibrated, along with other wall mounted testers with a large footprint.

#### SPECIFICATION

Model: SCS -	3019	3019 - NPED	3019 - PED	3019 – IT	3019 - ACR
Description:	1.5kNm Supported Calibration Stand, including Pedestal	1.5kNm Supported Calibration Stand, no Pedestal	Pedestal Only	Inline Transducer Option	Acratork Option

#### DIMENSIONS

Pedestal base size: 0.35 x 0.16m (13.8 x 6.3 inches)

Pedestal height: 1.21m (47.6 inches)

Supported shaft centre height from ground: 1.39 to 1.48m (54.7 to 58.3 inches)

Depth: 0.72m (28.3 inches)

Height: 1.65m (65 inches)

Width: 0.4m (15.7 inches)

Supported Square Drive: 1 inch

Inline Transducer Option Square Drives: 1, 3/4, 1/2, 3/8, 1/4 inch

Acratork Plate Size: 0.4 x 0.4m (15.7 x 15.7 inches)

Depth, Width and Height can be altered if required within certain parameters.

#### **Installation**

- 1. Pedestal must be bolted into the floor using M10 floor bolts.
- 2. CAUTION! THIS STEP CONTAINS HEAVY PARTS AND MUST BE ASSEMBLED BY EITHER TWO PEOPLE, OR BY USE OF A LIFT. The cross bed can then be bolted on top of the pedestal using the M12 bolts provided.
- 3. CAUTION! THIS STEP CONTAINS HEAVY PARTS AND MUST BE ASSEMBLED BY EITHER TWO PEOPLE, OR BY USE OF A LIFT. The bearing drive support unit can now be mounted in place, and retained by rotating the adjustment handle which will lower it into place.
- 4. Dependent upon the device to be calibrated, the options can now be assembled onto the cross bed. See the other pages for configurations.

#### **Maintenance**

Minimal maintenance is required.

It is suggested that all parts are kept clean, and free from dust.

Steel surfaces should be lightly oiled.

Good quality general grease should be used sparingly on the precision slide bars and on the thread of the hand wheel adjustment.







Calibration Machine – Side Elevation Showing horizontal and vertical mounting T slot bars



## Calibration Machine – Reverse Elevation Showing vertical mounting T Slot bars



## Calibration Machine – Plan View Showing all T Bar Assemblies









### Calibration Machine Setup for Acratork L2





Calibration Plate

Calibration Machine Setup for Acratork L3



#### Calibration Machine Setup for Inline Torque Transducers

WARNING! The transducer plate is a heavy item, and care should be taken not to trap fingers between its clamps and the vertical bed assembly when positioning the transducer. Calibration Machine Setup for Inline Torque Transducers







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