



**Advanced Witness  
Series, Inc.**

# AWS HYRD Test Stands<sup>series</sup>

The **AWS-HYRD series** test stands are designed for the testing of powered torque multipliers, i.e. tools that have a continuous rotating output shaft and are therefore usually tested with a rundown fixture.

System accuracy is  $\pm 0.5\%$  of indicated reading, top 95% of range, which satisfies metrology lab requirements while the robust features of these stands enables use in the harshest environments.

## Intellect Series Transducers

The standard transducers embedded within the test stand are Intellect, ("plug and play"), self recognizing to the display instrument. The torque ranges available are from the smallest capacity and footprint (8" x 8" 25-500 Lbf Ft) up to the our largest heavy duty test stand (14" x 19" 750-7,500 Lbf Ft).

## AWS-41012HYDP-RD



## Test Stand Features

- » Very accurate and durable transducer.
- » Solid machined aluminum plate for weight reduction and long term durability.
- » Steel reaction posts or aluminum "paddles" provide flexible torque reaction points.
- » Test stand is internally torque accepting so stand is not required to be bolted down.
- » Standard configuration is for test stand to be supplied with internal torque display.
- » Supplied with collar and bushing to minimize effects of side load on transducer.

## Display Specifications

**System Accuracy** .5% bidirectional

**Engineering Units** Eight selectable:  
Oz.in., Lb.in., Lb.ft., Nm,  
cNm, KgCm, gfCm, Kgfm

**Modes** Track, Peak, or First Peak

**Housing** Heavy Duty Aluminum

**Batteries** Rechargeable NiMH  
batteries provide 10 -12  
hours of continuous use

**Test Stand Dimensions** Small stand 8" x 8" x 8"  
Medium stand 12" x 12" x 12"  
HD stand 14" x 19" x 14"  
All dimensions are approximate

**System Weight** Depends on model

**Display** segmented, four active digits

## Rotary tool Testing

Powered multipliers incorporate a rundown fixture and usually have more distance in height between reaction arm and transducer which requires a bearing collar for minimizing the effects of side loading of the transducer. As illustrated on the left side of the above image. All rundown fixtures are sized appropriately for the capacity of the test stand.



**Standard HYDP-RD Test Stands**

Model #	Capacity and configuration	Dimensions	Weight
41011-HYDP-RD	1000 Lbf Ft capacity with rundown fixture and embedded display.	8" x 8" x 14"	15 Lbs
41012-HYDP-RD	2500 Lbf Ft capacity with rundown fixture and embedded display.	12" x 12" x 14"	20 Lbs
41013-HYDP-RD	5000 Lbf Ft capacity with rundown fixture and embedded display.	12" x 12" x 14"	20 Lbs
41014-HYDP-RD	7500 Lbf Ft capacity with rundown fixture and embedded display.	12" x 12" x 14"	25 Lbs

41013 HYDP-RD test stand



**Heavy Duty Self contained HYRD test stands**

Model #	Capacity and configuration	Dimensions	Weight
41011-RD	1000 Lbf Ft capacity with rundown fixture, AWS-4050 display, articulated arm and casters.	14" x 19" x 14"	50 Lbs
41012-RD	2500 Lbf Ft capacity with rundown fixture, AWS-4050 display, articulated arm and casters.	14" x 19" x 14"	50 Lbs
41013-RD	5000 Lbf Ft capacity with rundown fixture, AWS-4050 display, articulated arm and casters.	14" x 19" x 14"	50 Lbs
41014-RD	7500 Lbf Ft capacity with rundown fixture, AWS-4050 display, articulated arm and casters.	14" x 19" x 14"	50 Lbs

AWS-8000



**Torque Analyzer Display Options**

Model	Description	Dimensions	Weight
DP	Embedded display. This is the standard option for 8" x 8" and 12" x 12".	2" x 4" x 1.5"	.25 Lbs
AWS-4050	Portable display. This is the standard option for the Heavy Duty test stands and is supplied with an articulated arm for support.	4.25" x 7" x 1"	1 Lb
AWS-8000	Digital touch screen torque analyzer. 7" screen, instrument requires digital transducers.	5.5" x 8.25" x 1"	2 Lbs
AWS-8000-10	Digital touch screen torque analyzer. 10" screen, instrument requires digital transducers. Multiple transducer inputs.	7.5" x 12.75" x 1"	3 Lbs
Tools v2	AWS software application that allows PC or desktop to function as torque analyzer. Application also provides for database of tools, creation of calibration certificates, archiving and printing certificates and saved test results.	N/A	N/A

**AWS-41000 Series : Accessories**

Part No.	Description
HYRDF-1.5-XXX	Replacement rundown for 1.5" square, replace xxx with capacity
HYRDF-2.5-XXX	Replacement rundown for 2.5" square, replace xxx with capacity
41500	Multiplier test kit, includes input multiplier, input transducer and display
AWS-4050 torque analyzer display	AWS-8000-10 touch screen digital torque display



ADVANCED WITNESS SERIES, INC. products are warranted free of defects in material and workmanship for a period of one (1) year from date of shipment. This warranty does not include failures due to application of torque to transducers or loaders beyond the stated capacity, operating system with a damaged transducer cord, nor any other misuse, abuse, or tampering. When used with impact type wrenches, the warranty is limited to the electronic digital display units only. This warranty does not cover calibrations. All freight charges are the responsibility of the company or individual returning the item(s) for repair. Freight collect shipments will not be accepted. Any modification to any of this equipment, without the express written approval of ADVANCED WITNESS SERIES, INC. will void this warranty. ADVANCED WITNESS SERIES, INC disclaims any and all liability, obligation or responsibility for the modified product; and any claims, demands or causes of action for damage or for personal injuries resulting from the modification and/or use of such a modified ADVANCED WITNESS SERIES, INC. product.