

RWS 5000

2300 kg (5000 lb) Capacity

Roller Work Supports for B Series Horizontal Balancing Machines



ROLLER WORK SUPPORTS FOR HORIZONTAL AXIS, B SERIES SOFT BEARING BALANCING MACHINES AND MODULAR WORK SUPPORTS

DESCRIPTION:

The RWS 5000 roller work supports are standard equipment on IRD B50 horizontal axis, soft bearing Balancing Machines. They are also supplied with IRD B50F field fabricated balancing machine kits and IRD B50U balancing machine upgrade kits. These can also be mounted on IRD B20 through B200 balancing machines with an appropriate adjustment of rotor weight capacity. These are precision manufactured roller work supports that use flat, open faced rollers for supporting rotor journals. The flat rollers provide line contact with journals to minimize contact stress on the journals. The work supports pivot freely around a vertical axis. This provides a high degree of horizontal freedom between left and right work supports for balancing. The work supports have a built in height adjustment mechanism that can be used to easily level rotors before balancing. A spanner wrench for raising and lowering the work support height is included. Threaded outrigger posts at the front and rear of the work supports provide vertical stability once the proper height has been set. Two work supports are required to support a rotor. The work supports are available in two different standard roller diameter configurations.



Figure 1 – One E07379 Roller Work Support with 80 mm rollers shown

GENERAL SPECIFICATIONS:

- Weight Capacity/Pair:
2300 kg (5000 lb)
- Weight Capacity/Each:
1150 kg (2500 lb)
- Journal Diameter Range: 19 - 330 mm
(0.75 - 13 inches)
- Height Adjustment Range/Each:
24 mm (0.94 in)
- Available Roller Sizes & Part Numbers:
a: 80 mm Dia x 34.9 mm Wide – E13165
(3.149 in Dia x 1.375 in Wide)
b: 125 mm Dia x 39.7 mm Wide – E11360
(4.92 in Dia x 1.5625 in Wide)
- Maximum Roller Speed:
a: 80 mm Dia – E13165 5000 RPM
b: 125 mm Dia – E11360 2600 RPM

GENERAL SPECIFICATIONS (cont):

- General configuration of RWS:
 - Dim: 397 x 102 x 260 mm (l x w x h)
(15.63 x 4 x 10.25 in) (l x w x h)
 - Weight: 25 kg (55 lb) – E07379
29 kg (64 lb) – E15900

OPTIONAL FEATURES:

- Rotor Safety Hold Down
- Negative Load Hold Down
- Small (80 mm) or Large (125 mm) Diameter Rollers



STANDARD CONFIGURATIONS OF RWS 5000:		
Part Number	Brief Description	Detailed Description
E07379	Roller work support with two (2) 80 mm diameter rollers.	Complete roller work support assembly. Includes height adjustment, two 80 mm diameter rollers (E13165), spanner wrench and Imperial screws/washers for mounting to top plates of standard IRD pedestals or modular work supports. Two roller work supports are required to support the journals of a rotor.
E15900	Roller work support with two (2) 125 mm diameter rollers.	Same as E07379 above, except for two 125 mm diameter rollers (E11360) instead of the 80 mm diameter rollers.

Part Number	Each E07379 includes
E13165	80 mm diameter x 34.9 mm wide rollers (3.149 x1.375 in), 2 included.
E18206	Height adjustment assembly with pivot bearing and threaded outrigger posts.
E05140	Spanner wrench for adjusting work support height
E08975	Axle pin for mounting roller in carriage, 2 included.
E08964	Roller carriage (inner piece) for mounting rollers and axles.
E08961	Work support cradle (outer piece) for mounting carriage
E07971	Screw 5/16-18x1.25 Hex Head Cap for mounting to IRD Top Plates, 2 included.
E11111	Washer 5/16" flat SAE for mounting to IRD Top Plates, 2 included.
-	Miscellaneous hardware including bearings, washers, screws, etc.
	Each E15900 includes
-	Same as E07379 above, except the E13165 rollers are replaced with
E11360	125 mm diameter x 39.7 mm wide rollers (4.92 x1.5625 in), 2 included.

Part Number	Other Options and Accessories
E10427	Rotor safety hold down with single counter roller. Requires drilling and tapping of work support cradle. 1 required for each roller work support.
E09400	Negative load hold down assembly for rotors with an outboard center of gravity. Requires drilling and tapping of roller carriage. Note: When installed on a B50 pedestal, a suspension cable assembly, E09175, is also required. When installed on a B50F modular work support, a suspension cable assembly, E09034, is required.
E13165	80 mm diameter x 34.9 mm Roller. Replacement roller for standard E07379 roller work support. This can also be used in E15900 roller work supports. 2 required per work support.
E11360	125 mm diameter x 39.7 mm Roller. Replacement roller for standard E15900 roller work. This can also be used in E07379 roller work supports. 2 required per work support.

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Specifications are subject to change without prior notice.

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