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.

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

Figure 1 – One E07379 Roller Work Support with 80 mm rollers shown
## STANDARD CONFIGURATIONS OF RWS 5000:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Brief Description</th>
<th>Detailed Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E07379</td>
<td>Roller work support with two (2) 80 mm diameter rollers.</td>
<td>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.</td>
</tr>
<tr>
<td>E15900</td>
<td>Roller work support with two (2) 125 mm diameter rollers.</td>
<td>Same as E07379 above, except for two 125 mm diameter rollers (E11360) instead of the 80 mm diameter rollers.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Each E07379 includes</th>
<th>Part Number</th>
<th>Other Options and Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>E13165</td>
<td>80 mm diameter x 34.9 mm wide rollers (3.149 x 1.375 in), 2 included.</td>
<td>E10427</td>
<td>Rotor safety hold down with single counter roller. Requires drilling and tapping of work support cradle. 1 required for each roller work support.</td>
</tr>
<tr>
<td>E18206</td>
<td>Height adjustment assembly with pivot bearing and threaded outrigger posts.</td>
<td>E09400</td>
<td>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.</td>
</tr>
<tr>
<td>E05140</td>
<td>Spanner wrench for adjusting work support height</td>
<td>E07971</td>
<td>Screw 5/16-18x1.25 Hex Head Cap for mounting to IRD Top Plates, 2 included.</td>
</tr>
<tr>
<td>E08975</td>
<td>Axle pin for mounting roller in carriage, 2 included.</td>
<td>E11111</td>
<td>Washer 5/16(^{th}) flat SAE for mounting to IRD Top Plates, 2 included.</td>
</tr>
<tr>
<td>E08964</td>
<td>Roller carriage (inner piece) for mounting rollers and axles.</td>
<td>-</td>
<td>Miscellaneous hardware including bearings, washers, screws, etc.</td>
</tr>
<tr>
<td>E08961</td>
<td>Work support cradle (outer piece) for mounting carriage</td>
<td>Each E15900 includes</td>
<td>Same as E07379 above, except the E13165 rollers are replaced with</td>
</tr>
<tr>
<td>E07971</td>
<td>Screw 5/16-18x1.25 Hex Head Cap for mounting to IRD Top Plates, 2 included.</td>
<td>E11360</td>
<td>125 mm diameter x 39.7 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.</td>
</tr>
<tr>
<td>E11111</td>
<td>Washer 5/16(^{th}) flat SAE for mounting to IRD Top Plates, 2 included.</td>
<td>-</td>
<td>Same as E07379 above, except the E13165 rollers are replaced with</td>
</tr>
<tr>
<td>E13165</td>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part Number**

**E51239**

**web:** [www.irdbalancing.com](http://www.irdbalancing.com)

**email:** sales@irdbalancing.com

IRD LLC  
USA: Global Headquarters and Factory- 4740 Allmond Ave, Louisville, KY 40209 USA  
Tel: (1) 502 366 0916 or (1) 888 473 2251 (US Toll Free)  
Fax: (1) 502 238 1001

Specifications are subject to change without prior notice.  
Publication No: BAL-319-EN-2 (Revised 19 Nov 2008)  
Copyright © 2008 IRD LLC (IRD® Balancing). All rights reserved.  
Part Number E51239