B5-B20 Balancing Machines

GENERAL PURPOSE SOFT-BEARING BALANCING MACHINE

Dynamic, horizontal axis, soft-bearing, precision balancing machines that can be used with any IRD Balancing instrument. These machines are suited for balancing a wide variety of small to medium weight equipment such as motor armatures, fans, impellers, and turbines. Constructed from heavy gauge steel weldments, the B5-B20 series can be mounted to existing shop floors without the need for a special foundation. Optional instrument packages, V-Block supports, drive power systems, and negative load hold downs are available.

Balance with Precision

BALANCING INSTRUMENT

Designed for easy use with IRD Balancing instruments, including the Model 295 series, Model 246 and Model 236. Sensors & cables included in instrument kit.

SELF-ALIGNING GIMBAL ACTION

The IRD Balancing modular work supports incorporate a gimbal action into the assembly that allows for self-alignment of the rotor journals from pedestal to pedestal.

VERSATILE

With easy-to-mount hardware, a multitude of accessories, and its transportable construction, these balancing machines can handle a wide variety of equipment.

HIGHER SENSITIVITY, SAFER SPEEDS

The IRD Balancing soft-bearing design results in a higher sensitivity of unbalance at lower balancing speeds. This provides the operator the ability to successfully balance at a lower and safer speed.

Standard Features

- DC variable speed motor
- Encoder for live angle display
- Regenerative braking drive
- Underslung belt drive with manual tensioning
- Height adjustable work supports
- Suspension motion locks
- Drive console for motor control
- 3 different sized drive belts
- Turn-wheel operated pedestal for span adjustments
- End-thrust assemblies
The IRD Advantage

OPTIONAL ACCESSORIES

- Negative load hold down for large overhung applications
- Safety hold downs for ensuring complete journal to roller contact
- Base extensions for paper rolls, tubes, and other long equipment
- Risers for jobs with larger diameters

USER-FRIENDLY

- Easy-to-move sliding pedestal by hand
- Lock-down swinging suspensions with simple locking handle
- Adjust pedestal heights with single spanner wrench
- Pivoting end thrusts for quick adjustments

Product Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>B05</th>
<th>B10</th>
<th>B20</th>
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<tbody>
<tr>
<td>MAX WEIGHT CAPACITY</td>
<td>500lb / 230kg</td>
<td>1000lb / 450kg</td>
<td>2000lb / 900kg</td>
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<tr>
<td>MAX ROTOR DIAMETER</td>
<td>900mm / 36in</td>
<td>1000mm / 40in</td>
<td>1143mm / 45in</td>
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<tr>
<td>JOURNAL DIAMETER RANGE</td>
<td>13 - 203mm / 0.5 - 8in</td>
<td>13 - 203mm / 0.5 - 8in</td>
<td>152 - 330mm / 6 - 13in</td>
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<tr>
<td>JOURNAL SEPARATION RANGE</td>
<td>102 - 1200mm / 4 - 47.2in</td>
<td>152 - 1250mm / 6 - 49.5in</td>
<td>152 - 1257mm / 6 - 49.5in</td>
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<tr>
<td>MAX SENSITIVITY</td>
<td>1.5 g mm / 0.06 g in</td>
<td>2 g mm / 0.08 g in</td>
<td>4 g mm / 0.16 g in</td>
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<tr>
<td>DRIVE MOTOR SIZE</td>
<td>DC .75 kW / 1HP</td>
<td>DC 1.5 kW / 2 HP</td>
<td>DC 2.2 kW / 3 HP</td>
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<tr>
<td>STANDARD BED LENGTH</td>
<td>1400mm / 55in</td>
<td>1400mm / 55in</td>
<td>1400mm / 55in</td>
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About IRD

For 75+ years IRD®, or Industrial Research & Development, LLC has specialized in highly technical machinery that assists in the repair of industrial equipment. IRD® Balancing equipment allows customers to balance rotors of all sizes via soft-bearing technology which is more versatile and safer than hard-bearing technology. IRD® Balancing technology has advanced with the purpose of providing top-of-the-line balancing machinery across the globe. IRD® believes that excellence in workmanship and a high level of productivity are the key components to building long-term relationships with our customers.