

# B01-B02/S Balancing Machines

## THE SOFT-BEARING TABLETOP BALANCING MACHINE

The B01-B02/S models are dynamic, horizontal, soft-bearing, tabletop balancing machines. The "/S" denotes a full balancing system with built-in instrumentation into the machine base. All models are compatible with any IRD balancing instrument and suited for balancing small, lightweight rotors such as those found in small high-speed applications. Due to its lightweight construction, it can be mounted on a rigid table top or workbench. Two work supports with rollers are used to support the rotor journals and both can be moved to accommodate various length rotors.



## Balance with Precision



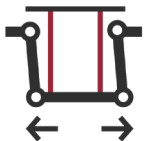
### BALANCING INSTRUMENT

Designed for easy use with IRD balancing instruments: Model 295 series, 246 and 236, or with an internal built-in instrument. Sensors & cables are included in the instrument kits.



### TRANSPORTABLE

With its lightweight construction and soft-bearing design, this machine can be simply lifted and placed in any desired location. There is no mounting or machine leveling equipment necessary.



### SELF-ALIGNING GIMBAL ACTION

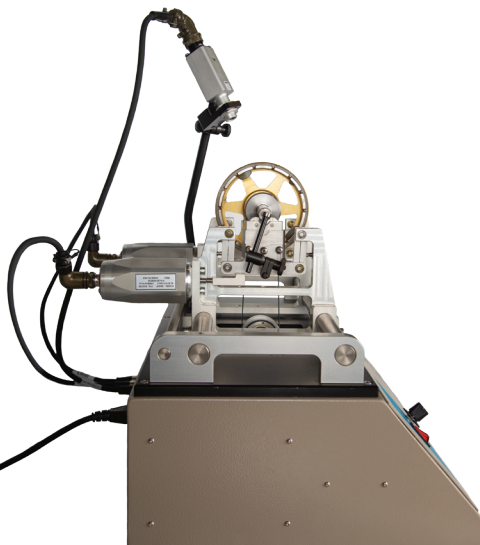
The IRD Balancing modular work supports incorporate a gimbal action into the assembly that allows for self-alignment of the rotor journals from pedestal to pedestal.



### HIGHER SENSITIVITY, SAFER SPEEDS

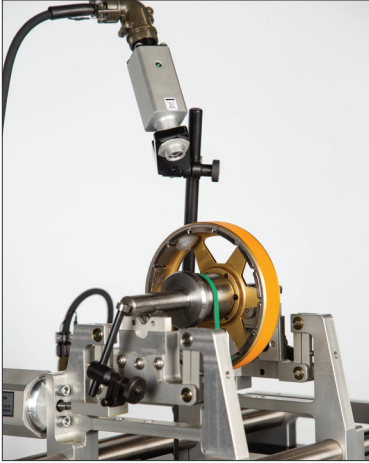
The IRD Balancing soft-bearing design results in a higher sensitivity of unbalance at lower balancing speeds. This provides the operator the ability to successfully balance at a lower and safer speed.

## Standard Features



- DC Variable Speed Motor
- Encoder for live angle display
- Regenerative braking drive
- Underslung belt drive
- Height adjustable work supports
- Sliding pedestals for span adjustments
- Suspension motion locks
- Built-in Instrument ("/S" models only)
- 3 different sized drive belts
- End-thrust assemblies

# The IRD Advantage

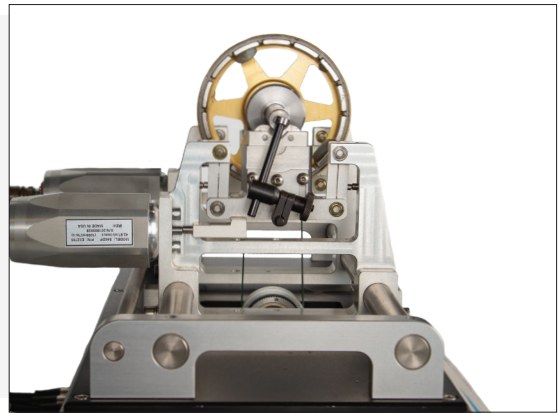


## BROAD APPLICATION RANGE

- Capable of achieving high and low speed tolerances
- V-blocks for housed bearings or static shaft applications
- Single & dual plane, for both center and over-hung equipment
- Dynamic table for turbochargers, mountable to work supports

## USER-FRIENDLY

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



# Product Specifications

MODEL	B01	B01/S	B02	B02/S
MAX WEIGHT CAPACITY	7lb / 3kg	7lb / 3kg	15lb / 7kg	15lb / 7kg
MAX ROTOR DIAMETER	254mm / 10in	254mm / 10in	415mm / 16.3in	415mm / 16.3in
MAX JOURNAL SEPARATION	25 - 400mm / 1 - 15.7in	25 - 400mm / 1 - 15.7in	25 - 400mm / 1 - 47.2in	25 - 400mm / 1 - 47.2in
MAX SENSITIVITY	0.015 g mm / 0.0006 g in	0.015 g mm / 0.0006 g in	0.0018 g mm / 0.0008 g in	0.0018 g mm / 0.0008 g in
JOURNAL DIAMETER RANGE	2 - 30mm / 0.08 - 1.2in	2 - 30mm / 0.08 - 1.2in	6 - 60mm / 0.24 - 2.4in	6 - 60mm / 0.24 - 2.4in
STANDARD BED LENGTH	450mm / 17.7in	450mm / 17.7in	450mm / 17.7in	450mm / 17.7in
DRIVE MOTOR SIZE	DC 0.095 kW (0.13HP)	DC 0.095 kW (0.13HP)	DC 0.095 kW (0.13HP)	DC 0.095 kW (0.13HP)



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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.

