

# Balancing Machine Upgrade Application Requirements Form

## Customer Information

Date:	
Company Name:	
Company Address (line 1):	
Company Address (line 2):	
Company Address (line 3):	
City:	
State:	
Postal Code:	
Country:	
Telephone Number:	
FAX Number:	
Contact Person:	
Title:	
E-Mail address:	

Please submit this form to your **IRD Balancing** representative or FAX it to one of the offices listed below.

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

email: [sales@irdbalancing.com](mailto:sales@irdbalancing.com)

### Sales Offices for IRD Balancing

USA Headquarters (Ohio):	Telephone: 1.888.473.2251	Fax: 1.614.431.6365
UK (Chester):	Telephone: +44 (0) 1244.682.222	Fax: +44 (0) 1244.677.977
MEX (Mexico):	Telephone: +52 55.5689.8325	Fax: +52 55.5689.8160
CAN (Canada):	Telephone: 1.514.807.6466	Fax: 1.514.807.6983

Specifications are subject to change without prior notice.

Publication No: SpecREQFORMUPGRADE-5 (Revised 10.Apr. 2006) Copyright © 2006 IRD<sup>®</sup> Balancing. All rights reserved.  
Part Number E120076-06

## Introduction

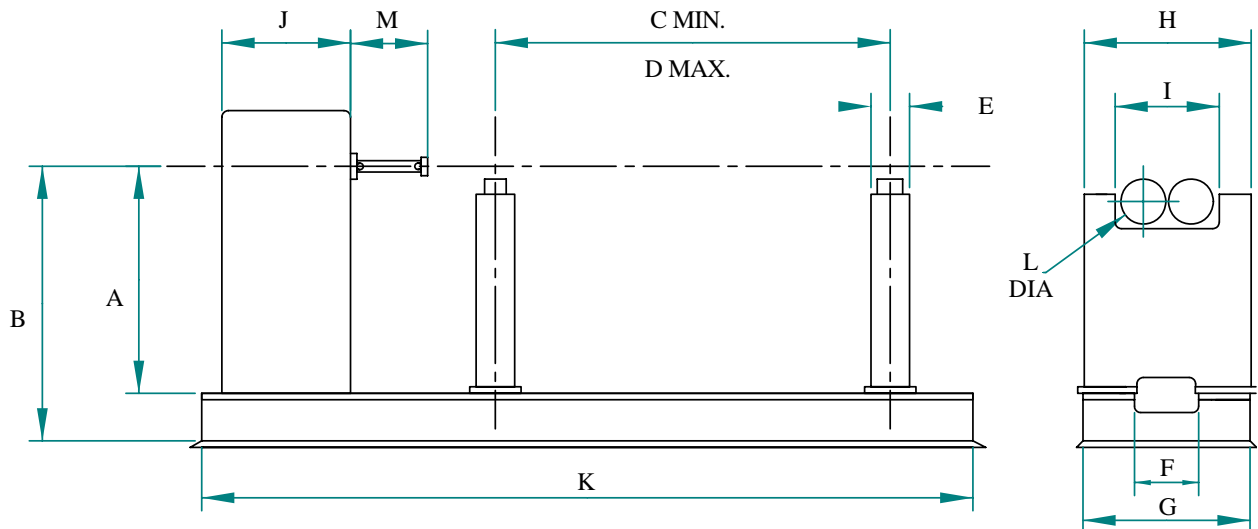
The purpose of this survey is to allow our Engineers to understand your present and future applications and provide an equipment recommendation to meet your balancing needs. This information is required to determine the best method of updating your existing machine.

*There is no cost or obligation for this service and all information will be kept strictly confidential.*

### 1. Existing Machine Details

1	Manufacturer	
2	Model Number	
3	Date Manufactured	
4	Instrument Model Number	
5	Weight Capacity of Machine	kg or lb (circle one)
6	Axis of Rotation	<input type="radio"/> Horizontal <input type="radio"/> Vertical
7	Type of Suspension	<input type="radio"/> Soft <input type="radio"/> Hard <input type="radio"/> Don't Know
8	Drive Type	<input type="radio"/> Belt Drive <input type="radio"/> End Drive <input type="radio"/> Both
9	Drive Motor Power	kW or hp (circle one)
10	Available Electrical Mains Supply	Volts    Phase    Hz
11	Balance Speed Control	<input type="radio"/> Fixed Speed <input type="radio"/> Variable Speed
12	If fixed speed, what is Speed?	RPM
13	Is Drive Motor and Control in good condition?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
14	Do you wish to replace the Motor/Control?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
15	Are rotor support rollers in good condition?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
16	Do you wish to replace the support rollers?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
17	Does Balancing Instrument work correctly?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
18	Do you wish to replace the balance instrument	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
19	Type of Instrument Preferred	<input type="radio"/> Portable <input type="radio"/> Digital <input type="radio"/> Computer
20	Is the Machine equipped with an angle encoder	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
21	Do the pedestal sensing transducers work?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
22	Do you wish to replace the suspensions?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
23	If End Drive, do you wish to retain it?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable
24	If End Drive, do you wish to add a Belt Drive?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not Applicable
25	If Adding a Belt Drive, What is power needed?	<input type="radio"/> Don't know    kW or hp(circle)
26	Does existing machine have bed extensions?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
27	Can you balance all your rotors in machine?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Don't know
28	Additional information about the existing machine	

## 2. Existing Machine Dimensions (Horizontal End Drive Shown)



1	Dimensional Units for Measurements	○ millimeters	○ inches
2	(A) Rotor Centerline height above bed		
3	(B) Rotor Centerline height above floor		
4	(C) Minimum Bearing Separation		
5	(D) Maximum Bearing Separation		
6	(E) Work Support Width		
7	(F) Base Gap Width		
8	(G) Base Width		
9	(H) Work Support Depth		
10	(I) Roller Bearing Separation		
11	(J) End Drive Console Width		
12	(K) Total bed length including extensions		
13	(L) Roller Diameters		
14	(M) Length of Cardan Shaft		

### 3. Balance Details

1	Number of Balance Planes	<input type="radio"/> One Plane	<input type="radio"/> Two Plane	<input type="radio"/> Both
2	Balance Tolerance Level– Amount/Grade Value and Units Required		<input type="radio"/> ISO Grade <input type="radio"/> g mm	<input type="radio"/> API <input type="radio"/> oz in
3	Weight Correction Method	<input type="radio"/> Add	<input type="radio"/> Remove	<input type="radio"/> Both
4	Correction Angle Positioning	<input type="radio"/> Manual	<input type="radio"/> Display on Instrument	<input type="radio"/> Auto
5	Number of Rotors to Balance in 8 hours			

### 4. System Details

1	Printed Balance Certificates Required	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't know
2	External Computer Interface Required	<input type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> Don't know
3	Safety Device (see note below)	<input type="radio"/> None	<input type="radio"/> Guard/Encl.	<input type="radio"/> Perimeter Fence

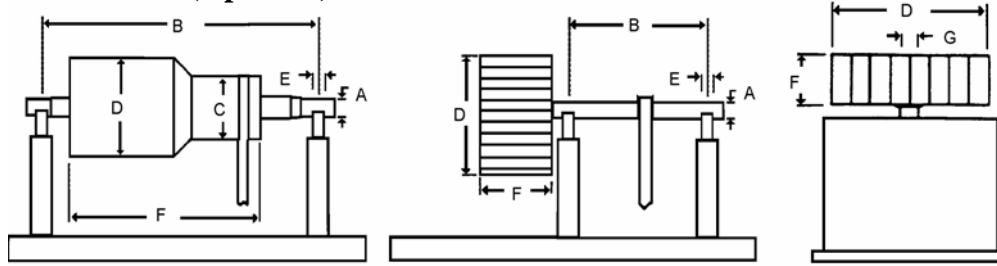
**Safety Device Note:**

**Safety guards, enclosures or perimeter fences are required to meet relevant safety regulations. It is the buyer's responsibility to insure that the Balancing Machine has an adequate safety protection system before operating the machine.**

### 5. Additional Information

Attach drawings, sketches, or pictures of Balancing Machine, if available.	
Attach drawings, sketches, or pictures of rotors to be balanced, if available.	
Other information that may be helpful in determining the appropriate balancing system.	
Other additional System Requirements not listed above.	

## 6. Rotor Details (Optional)



**Between Bearings**

**Overhung Rotor**

**Rotor on Vertical Machine**

1	List All Types of Rotors to Balance	<input type="checkbox"/> fan <input type="checkbox"/> armature <input type="checkbox"/> gas/steam turbine <input type="checkbox"/> roll <input type="checkbox"/> impeller <input type="checkbox"/> spindle <input type="checkbox"/> crankshaft <input type="checkbox"/> disk <input type="checkbox"/> flywheel <input type="checkbox"/> Other (            )
2	Rotor Mass Symmetry	<input type="checkbox"/> Between Bearings <input type="checkbox"/> Overhung <input type="checkbox"/> Both
3	If Overhung Rotor, estimated max.upward force	<input type="checkbox"/> Don't know                    kg or lb (circle one)
4	Do Rotors have their own shaft with journals?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both
5	Maximum Rotor Weight	kg or lb (circle one)
6	Minimum Rotor Weight	kg or lb (circle one)
7	(D) Maximum Swing Diameter of Rotors	mm or in (circle one)
8	Maximum Rotor Length	mm or in (circle one)
9	Minimum Rotor Length	mm or in (circle one)
10	(B) Maximum Distance between Journals	mm or in (circle one)
11	(B) Minimum Distance between Journals	mm or in (circle one)
12	Rotor Support Method	<input type="checkbox"/> Own Bearings <input type="checkbox"/> Journal Surface <input type="checkbox"/> No Shaft
13	(A) Maximum Journal Diameter	mm or in (circle one)
14	(A) Minimum Journal Diameter	mm or in (circle one)
15	(E) Minimum Journal Width	mm or in (circle one)
16	(G) Max. Bore Diameter(Impellers w/o shaft)	mm or in (circle one)
17	(G) Min. Bore Diameter (Impellers w/o shaft)	mm or in (circle one)
18	Maximum Moment of Inertia	<input type="checkbox"/> Don't know                    kgm <sup>2</sup> or lb ft <sup>2</sup> (circle)
19	Operating Speed Range of Rotors	RPM
20	Max. Power Absorbed at Operating Speed	<input type="checkbox"/> Don't know                    kW or hp (circle one)
21	Roll Data: Maximum Balancing Speed for Rolls	m/min or ft/min (circle one)
22	Roll Data: High Internal Resistance? (Suction)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know

### Sales Offices for IRD Balancing

USA Headquarters (Ohio):

Telephone: 1.888.473.2251

Fax: 1.614.431.6365

IRD Balancing; 651-A Lakeview Plaza Blvd., Worthington, OH 43085, USA

UK (Chester):

Telephone: +44 (0) 1244.682.222

Fax: +44 (0) 1244.677.977

IRD UK Ltd; 4J Brymau Three Estate River Lane, Saltney Chester UK CH4 8RQ

MEX (Mexico):

Telephone: +52 55.5689.8325

Fax: +52 55.5689.8160

IRD Balancing Mexico, S. de R. L. de C.V.; Kramer #29, Colonia Atlantida Delegacion Coyoacan Mexico D. F., MEXICO 04370

CAN (Canada):

Telephone: 1.514.807.6466

Fax: 1.514.807.6983

IRD Balancing / Lexseco; 4-1425 Everett Montreal, QC H2E 1N1

Specifications are subject to change without prior notice.

Publication No: SpecREQFORMUPGRADE-5 (Revised 10.Apr. 2006) Copyright © 2006 IRD® Balancing. All rights reserved.

Part Number E120076-06