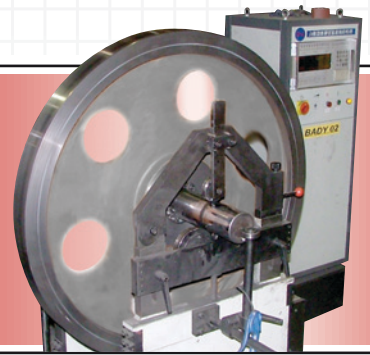


# Dynamic Balancing



## Baldor-Maska dynamic balancing service for sheaves and bushings

Dynamically balancing sheaves improves the life expectancy of all the linked components to the belt drive and reduces energy losses. Baldor recognizes the importance of optimizing your belt drives and now offers a Dynamic Balancing service on sheaves up to 82 inches/4410 lbs. This service is available for all sheaves. Also available is a 48 hour balancing service at no extra charge under certain conditions. See all details on the back of this flyer.

### DID YOU KNOW THAT...

An unbalanced sheave can perform well at low speeds, but at high speed the performance is significantly impaired. The reason is that an unbalanced weight produces a centrifugal force, which increases as the speed increases. This force increases by the square of the run speed and can have a damaging effect on equipment. This is why dynamic balancing is important once a certain speed is reached.

### HOW TO ORDER

Baldor recommends balancing the bushing with the sheave for optimal performance. Balancing the matched bushing and sheave ensures the accurate balancing grade of G6.3. If the bushing is not ordered with the sheave, Baldor will not be responsible for balancing related issues (i.e. vibration). When ordering a dynamically balanced sheave and bushing, the operational run speed must be specified. A special part number will be supplied by Baldor.

### IMPORTANT REMINDER

Gray cast iron sheaves should not be used with rim speeds in excess of 6500 feet per minute. Please refer to the chart in the Baldor-Maska Catalog for additional information. All operational PT products when used in a drive are potentially dangerous and must be guarded by the user as required by applicable laws, regulations, standards and good safety practices. (Refer to ANSI Standard B15.1)

$$RPM = 15,500 / \sqrt{(DF)}$$

D is diameter in inches  
F is Face Width in inches

The resultant RPM is maximum recommended operating rpm for a sheave or pulley with a single plane balance.

**Note:** If the sheave or pulley is to be operated at a higher speed, a two plane balance is recommended.

**BALDOR**

A MEMBER OF THE ABB GROUP

## Calculating the cost for dynamic balancing

Find the corresponding outside diameter and weight range in the following chart. Follow the selected row to the appropriate quantity to attain the price per item.

EXAMPLE 8C270 : O.D.= 27.4", Wt = 226 lbs, List price = 438\$ for one.  
The list price in the chart is added to the list price for the sheave.  
The total is multiplied by the customer discount to obtain the net price.  
( \$1120.00 + \$438 ) x mult.



Sheaves reference datas				Unitary list price adder for repeat qty				
Outside diameter (in.)		Weight (lbs)		1	2-3	4-5	6-10	11 +
from	to	from	to					
0	12	0	20	148.00 \$	130.00 \$	110.00 \$	88.00 \$	75.00 \$
0	12	20	50	168.00 \$	150.00 \$	133.00 \$	108.00 \$	88.00 \$
0	12	50	150	218.00 \$	193.00 \$	158.00 \$	123.00 \$	108.00 \$
0	12	150	300	280.00 \$	263.00 \$	228.00 \$	193.00 \$	173.00 \$
0	12	300	1000	420.00 \$	368.00 \$	333.00 \$	288.00 \$	268.00 \$
12	24	0	20	175.00 \$	165.00 \$	143.00 \$	108.00 \$	95.00 \$
12	24	20	50	210.00 \$	193.00 \$	158.00 \$	115.00 \$	100.00 \$
12	24	50	150	228.00 \$	210.00 \$	175.00 \$	130.00 \$	115.00 \$
12	24	150	300	298.00 \$	280.00 \$	263.00 \$	235.00 \$	198.00 \$
12	24	300	1000	438.00 \$	385.00 \$	350.00 \$	298.00 \$	273.00 \$
24	30	0	50	228.00 \$	210.00 \$	200.00 \$	185.00 \$	163.00 \$
24	30	50	150	298.00 \$	280.00 \$	263.00 \$	245.00 \$	215.00 \$
24	30	150	300	438.00 \$	403.00 \$	385.00 \$	350.00 \$	303.00 \$
24	30	300	1000	578.00 \$	543.00 \$	508.00 \$	440.00 \$	390.00 \$
30	50	0	500	630.00 \$	613.00 \$	535.00 \$	473.00 \$	440.00 \$
30	50	500	1000	683.00 \$	630.00 \$	613.00 \$	540.00 \$	488.00 \$
30	50	1000	4400	805.00 \$	735.00 \$	710.00 \$	625.00 \$	570.00 \$
50	63	0	500	700.00 \$	665.00 \$	640.00 \$	575.00 \$	520.00 \$
50	63	500	1000	770.00 \$	735.00 \$	718.00 \$	658.00 \$	603.00 \$
50	63	1000	4400	893.00 \$	840.00 \$	815.00 \$	725.00 \$	668.00 \$

over 63 in. - call us

### 48hr service terms and conditions

- Applicable on standard sheaves in stock in Ste-Claire, CANADA and shipped direct to customer location
- Imperial/inch bore/shafts only
- Valid for Grade G6.3 and above; G2.5 will require additional time
- Information on operating speed and bushing size must be supplied at the time of order
- Customer is responsible to require Ductile products for speed operation above 6500 Ft/min.
- 48 hour service does not apply to ductile and custom products



# BALDOR

A MEMBER OF THE ABB GROUP

**Baldor Electric Company**

P.O. Box 2400 • Fort Smith, AR 72902-2400 U.S.A.

Phone (479) 646-4711 • Fax (479) 648-5792 • International Fax (479) 648-5895

www.baldor.com • www.maskapulleys.com