



## **LAYCOCK SYSTEMS, INC.**

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### **INSTRUCTIONS FOR BALANCING WAYS**

#### **CROWN MODEL 1102**

#### **ASSEMBLY INSTRUCTIONS**

1. Remove End Frames from Shipping Container and place them adjacent to each other with "Crown 20 IN" Markings facing the outside. (On Opposite Sides)
2. Slide  $\frac{3}{4}$ " Diameter Support Bars through both End Frame Bases.

Tighten Set Screws (as needed) on each side near the base of one End Frame, then slide second End Frame the distance needed to support the Item to be balanced. Once this position is achieved, tighten Set Screws on each side near the base of the second End Frame.

#### **CROWN SUPERSENSITIVE BALANCING WAYS**

Crown Balancing Ways are unsurpassed in the field of static balancing because of their sensitivity and accuracy in any size work from a few ounces to a thousand pounds. They are sensitive to .009 ounce-inch. Accuracy is guaranteed by the use of precision type ball bearings. Careful alignment of the End Frame Supports, both level and square is required to prevent lateral movement of the item under test. At the Base of the sides of the End Frame Supports, there are set screws to allow securing the Support Bars in the event vibration or movement needs to be restrained. The work piece is carried on a free turning, hardened ground discs that are mounted on pivot type bearings which allow balancing to the closest accuracy. The principle of rolling friction, combined with two sets of tapered discs to support the work at four points instead of two, and coupled with precision type ball bearings, greatly increases sensitivity and reduces friction and pressure.

## TEST

1. Adjust end frame supports on support rods to desired opening.

Note: Careful alignment of end frame supports, both level and square, is required to prevent lateral movement of the item under test. At the base on the sides of the End Frame Supports, there are set screws to allow securing the Support Bars in the event vibration or movement needs to be restrained.

2. Gently place item for test on discs. Sensitivity of balancing ways allows the item under test to rotate, and stop with its heaviest point down. Item under test requires a minimum shaft length of 1-3/4".
3. Add or subtract material as required until item under test rotates freely and comes to rest without seeking a heavy point. (No additional forward or backward rotation).

## MAINTENANCE and STORAGE

Bearings are sealed and require no lubrication. Cover discs and bearings with a plastic bag or dust cover when not in use.

## WARRANTY

Crown's Motor Repair Equipment is warranted to the original owner against defects in materials and workmanship for ninety (90) days from date of purchase. Any part found to be defective (except by overloading, misuse, neglect, fire, accident, tampering with by unauthorized serviceman, or other cause beyond the manufacturer's control), will be replaced or repaired free of charge.

## SPECIFICATIONS FOR BALANCING WAYS

### CROWN MODEL 1102

Construction: End frame supports: cast iron.

Discs (wheels): steel, tapered & hardened.

Bearings: sensitive & lifetime lubricated.

Maximum load: 1000 pounds

Overall Height: 11-1/2"

Maximum diameter of unit under test: 20"

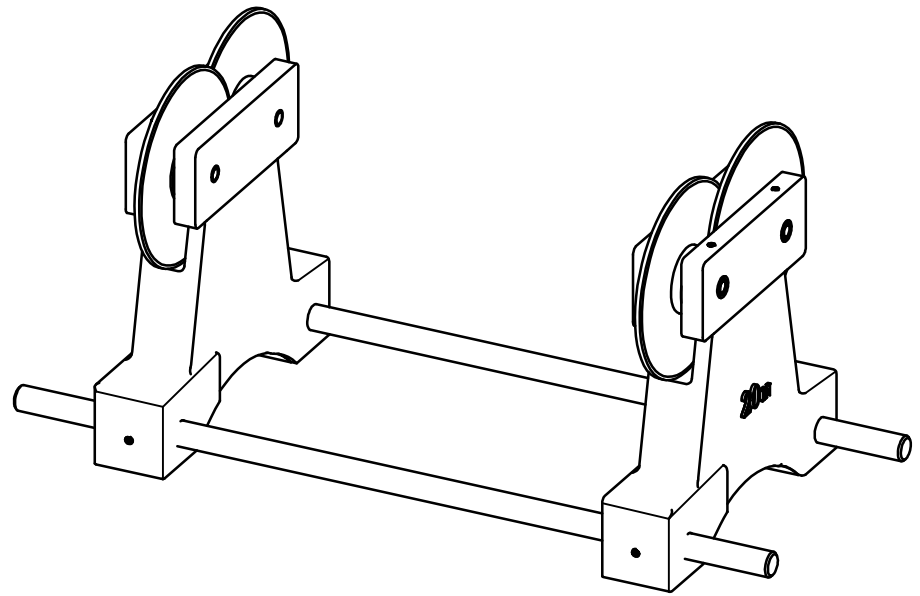
Spread between End Frame Supports: 20"

(Spread between end frame Supports may be changed by using longer support Bars)

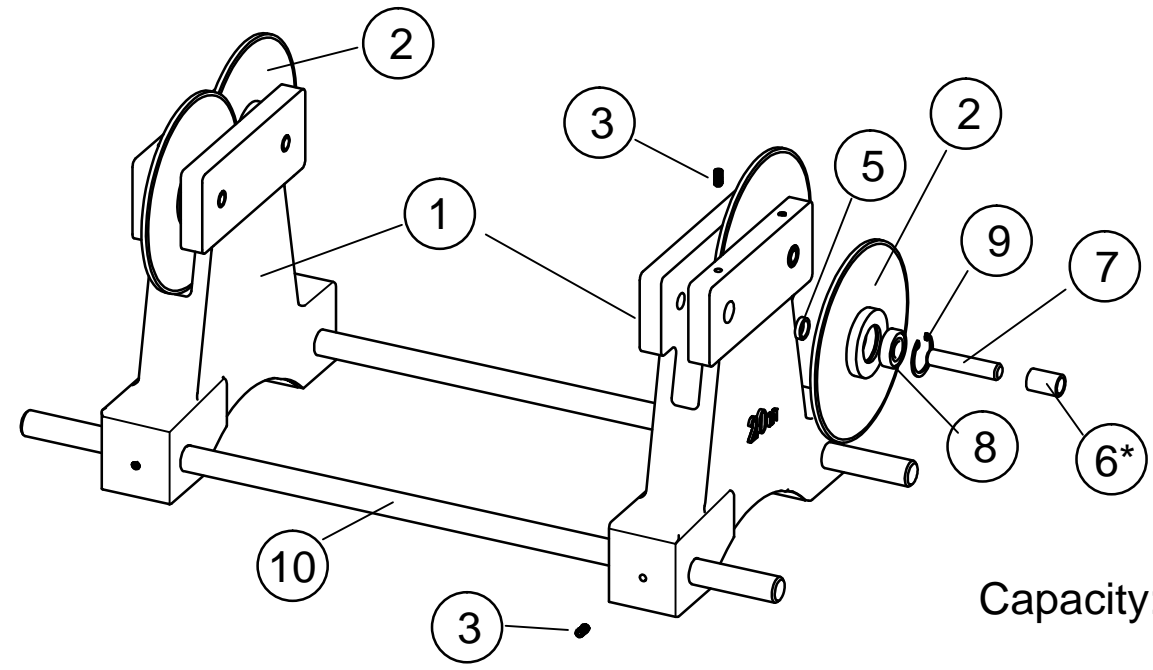
**Note: Unit under test requires a minimum shaft length of 1-3/4" to clear the end frame supports.**

# BALANCING WAYS

## PART LIST MODEL 1102



ADJUSTABLE AND PORTABLE



PART LIST 1102			
ITEM	PART#	DESCRIPTION	QTY
1	808078	Frames	2
2	808079	Wheels	4
3	808015	SetScrews	8
5R	808073	Spacer 5/32"	2
5L	808075	Spacers 13/64"	2
6*	808074	Spacers	4
7	808076	Pin (Axle)	4
8	808071	Ball Bearing	4
9	808072	Retaining Ring	8
10	808077	Support Rod, 3/4"x24"	2

\*- Two different dimensions

Capacity: 1000 Lbs