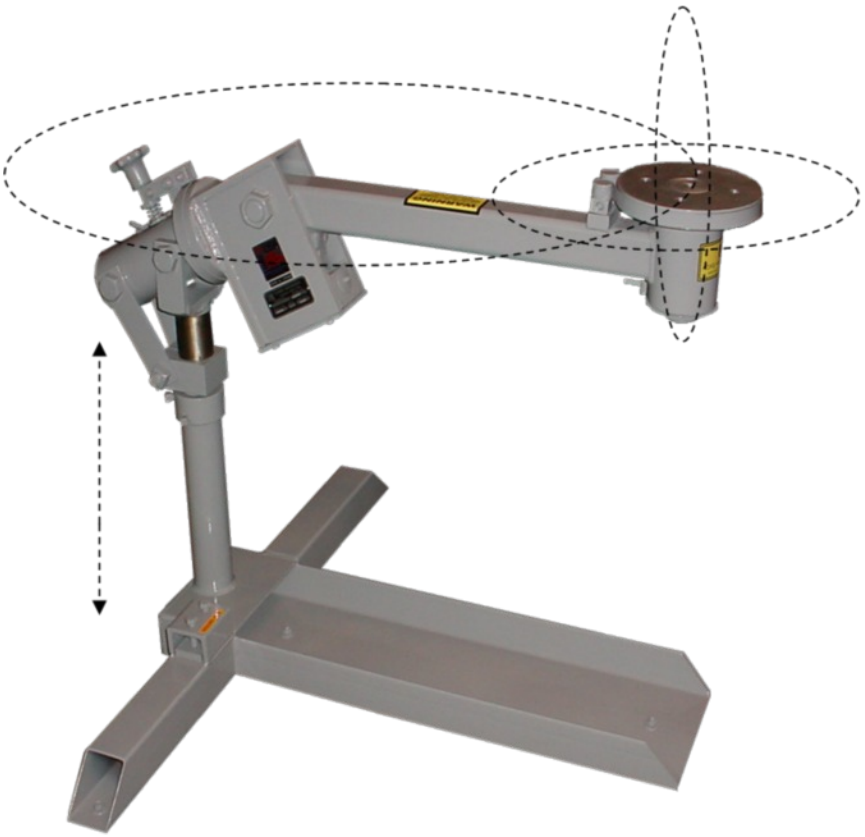
UB Series

Universal Balance Positioner



Koike Aronson Ransome Universal Balance Positioners allow safe and quick manipulation of large, awkward work objects when it is critical to maintain an efficient down-hand welding position. A welder can position objects up to 4,000 Lbs. By simply applying fingertip pressure and does not need to raise a helmet or break an arc.

The Universal Balance principle is to intersect the rotational axis center of gravity with that of the tilt axis. Work pieces can then be rotated 360 degrees around both axis, and in most cases around the Positioner column. A universally balanced load allows effortless access to any desired location upon a mounted fixture.

Versatile Performance, Infinite Applications

Capacities from 25 to 4,000 Lbs.

Features

- Machined Tables
- Caster Bases Available
- Manual Height Adjustment
- Friction Lock Brakes
- Powered rotation available

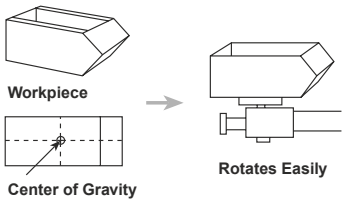
KOIKE ARONSON, INC. / RANSOME

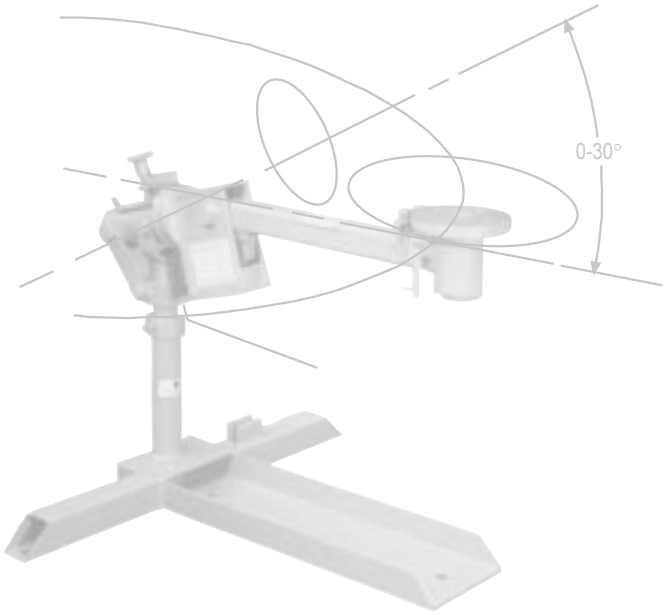
UB Series

Set-Up

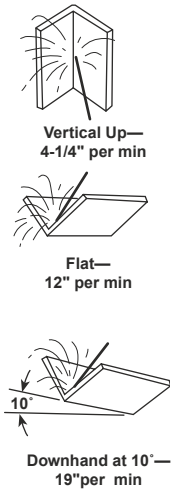
1. Find Center of Gravity for rotation.

Workpiece should be placed on positioner with the center of gravity coinciding with the rotational axis of the table. Movement of the object around table rotational axis is almost effortless. In order to prevent over-travel of mounted objects, Koike Aronson has applied friction bands to the rotation point of the worktable which generates slight resistance and allows the load to be stopped at any desired point.



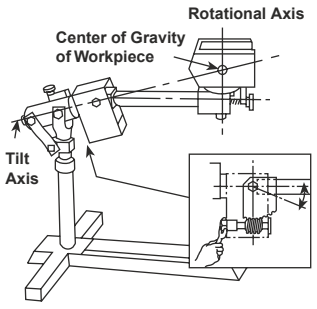


Koike Aronson universal balance positioners allow welders to maintain the most productive 10˚ downhand welding position.



2. Finally, balance workpiece by adjusting wormgear so tilt axis intersects center of gravity of rotational axis.

By a simple adjustment to the wormgear, the tilt axis can be aligned to intersect the rotational axis. At this point, both axes intersect the object's center of gravity and move freely in any direction.



A wrench adjustment to the worm on the wormgear sector will change the angle of the arm.

Koike Aronson Inc.
P.O. Box 307, Arcade, New York 14009
Phone (585) 492-2400 Fax (585) 457-3517
www.koike.com

Specifications

Universal Balance Positioner

SPECIFICATIONS	C25	C100	C1000	C2000	C4000
Maximum Load	25 Lbs.	100 Lbs.	1,000 Lbs.	2,000 Lbs.	4,000 Lbs.
DIM A, Overhang,	6-1/2”	11”	32”	35”	51-1/2”
DIM B, Max. CG Height	3”	4-3/4”	14-1/2”	16”	33-1/2”
DIM C, Max. Part Diameter	14”	20”	66”	75”	96”
DIM D, Max. Part Length	16”	24”	100”	100”	96”
DIM E, Table Diameter	1-1/2”	5”	8”	8”	12”
DIM F, Hole Size	10-32	1/4” Slots	17/32”	17/32”	1-1/32”
DIM G, Bolt Circle	1-1/4”	4 Slots	5”	5”	8”
DIM H, Table Thickness	1/4”	1/4”	15/16”	1”	1-1/2”
DIM I, Pilot Hole	10-32	1/4-20	1/2-13	3/4-10	1”-8 x 1.25
DIM J, Height Range	6-1/4” Fix	5” Fix	27”- 37”	30”- 36”	41-1/2” Fix
DIM K, Table to Tilt Axis	7/8”	2”	3-5/8”	3-1/8”	6”
DIM L, Rear Overhang	1-1/2”	2-1/8”	4-3/4”	8”	1”
DIM M, Base Overall Width	6”	4-1/2”	43”	43”	58”
DIM N, Base Overall Length.	9”	4-1/2”	37-3/4”	48”	78”
DIM O, Anchor Hole Size	9/32” (4)	13/32” (4)	9/16” (4)	9/16” (6)	13/16” (8)
DIM P, Anchor Hole Width Centers	5-1/4”	3-3/4”	40”	40”	55”
DIM Q, Anchor Hole Length Centers	8-1/4”	3-3/4”	29-3/4”	39”	-
DIM R, Wrench Size	1/4”	1/2”	1”	1”	2-1/4”
Type of Base	Plate	Plate	“T”	“T”	“T”
Tilt Axis Brake	Yes	No	Yes	Yes	Yes
Tilt Axis Pinlock	No	No	Yes	Yes	Yes
Rotation Axis Brake	Yes	No	Yes	Yes	Yes
Rotation Axis Pinlock	No	Yes	Yes	Yes	Yes
Bearing type	Ball	Tapered	Tapered	Tapered	Tapered
Ground Current Conduction	N/R	300 Amps	800 Amps	1200 Amps	2000 Amps
Power Axis Available	No	No	Yes	Yes	Yes
Shipping Weight	15 Lbs.	30 Lbs.	340 Lbs.	500 Lbs.	1,300 Lbs.

***All dimensions are for reference only and subject to change without notice.

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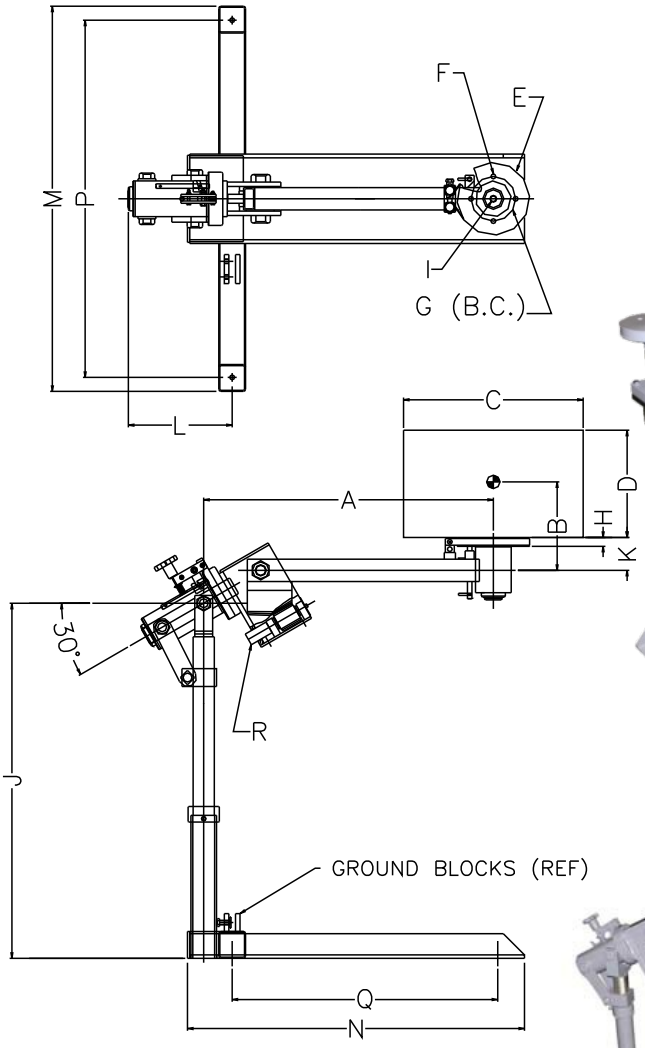
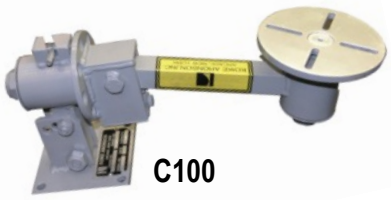


C2000

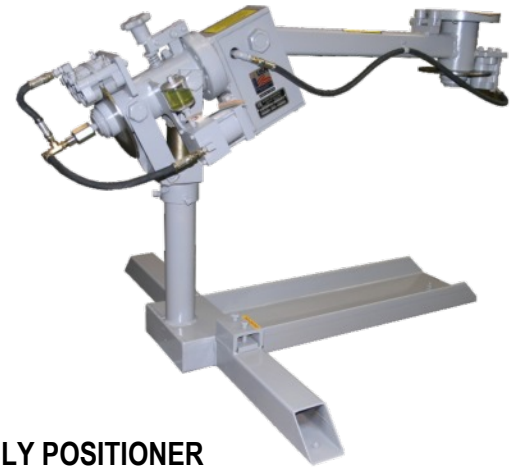
C2000 P30



C100

C1000 Caster

C4000



ASSEMBLY POSITIONER

Assembly positioners brake and hold workpieces in any position with the use of hydraulic disc brakes. Rotation and tilt are performed manually, off-balance loads can be quickly manipulated and locked in place to resist the forces of various production operations.

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