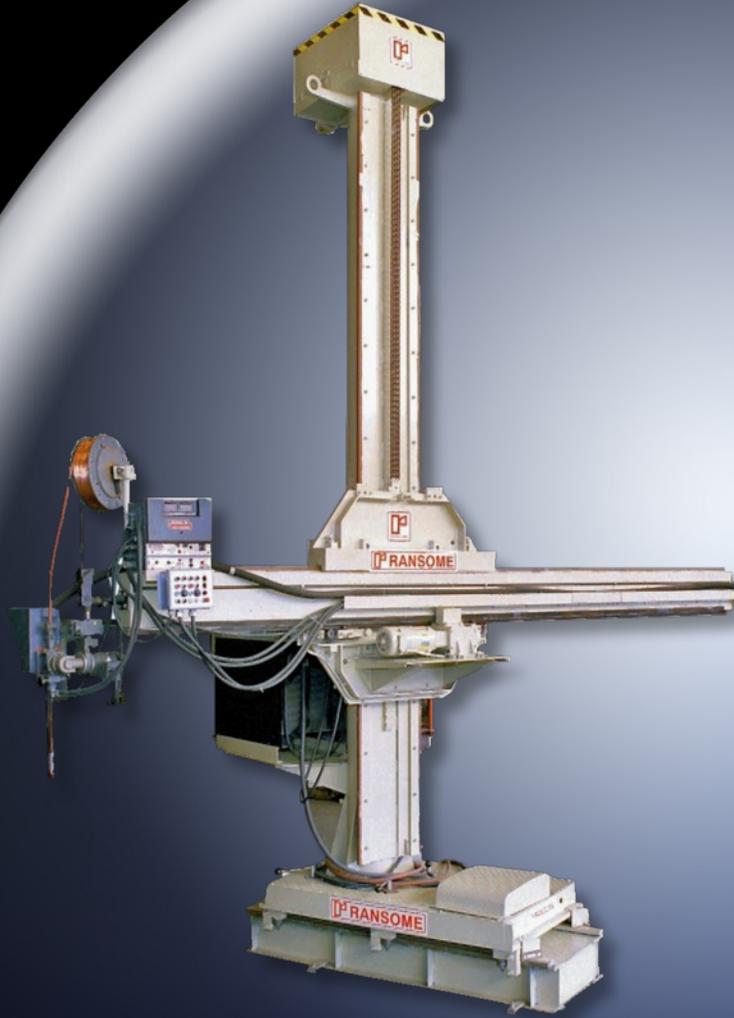


CUTTING, POSITIONING & WELDING EQUIPMENT

WELDING MANIPULATORS

The Most Complete Line in the Industry



Koike Aronson, Inc./Ransome

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How to Size a Manipulator

Lift & Reach

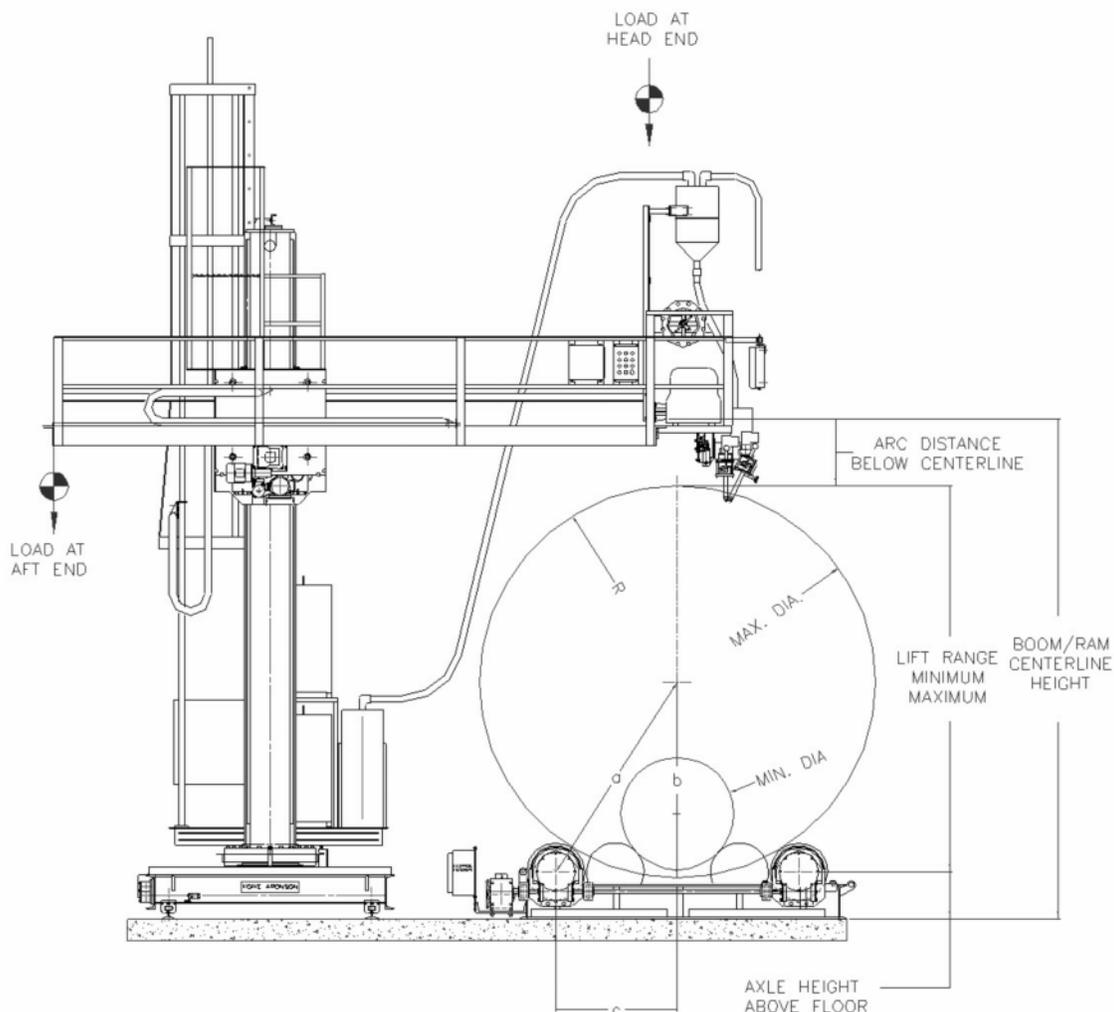
The lift and reach requirement are determined by the most extreme vertical and horizontal arc location. This is based on the work envelope size. Lift and reach dimensions are measured from the centerline of the mast/upright and boom/ram. There is a minimum and maximum dimension, the lift and reach size represents the total range provided. A typical welding set-up is shown in the sketch below. The distance to the top of the vessel above the floor can be determined by first finding "side b" of the triangle a-b-c, with known values for "a" and "c" using the formula $b = \sqrt{a^2 - c^2}$. Then add the value of "b" to the Axle Height above floor, plus the "R" Radius of the vessel. Next add the distance from the Arc to the Centerline of the Boom. This will give you the maximum required for the Lift Range. Follow the same procedure to find Arc height needed for the smallest vessels.

Load Capacity:

Koike Aronson/Ransome Manipulators have a rated load capacity that must be considered. This load is expressed as a value at either or both ends of the boom/ram, and is rated directly at the end, no over hung capacity is stated. All additional weights, including operator, catwalks, operator chairs, cross slides and welding equipment must be considered when calculating the weight capacity required. All load ratings vary depending on lift and reach specified, refer to the manipulator load capacity table on page 5.

Options:

Standard Manipulators include lift and reach capability only. Travel cars, travel rail, operator seats, catwalks, cross slides, welding equipment, mast rotation and seam trackers are all examples of options that must be specified when ordering a manipulator.



Load Capacity Table

Load in pounds on either or both ends of Boom/Ram

	Aronson Series (Rack & Pinion lift)					Ransome Series (Chain lift)						
	LOCUST-I	LOCUST-II	SCARAB-I	SCARAB-II	SCARAB-III	44	66	99	1212	SHD	XHD	XXHD
SIZE												
4 ft x 4 ft						150 lb						
6 ft x 6 ft	400 lb	600 lb	1700 lb				400 lb					
7 ft x 7 ft	350 lb	500 lb	1500 lb				375 lb					
8 ft x 8 ft	300 lb	500 lb	1500 lb				350 lb	725 lb				
9 ft x 9 ft		400 lb	1300 lb				310 lb	650 lb				
10 ft x 10 ft		400 lb	1300 lb				250 lb	575 lb				
12 ft x 12 ft		300 lb	1100 lb	2200 lb				500 lb	1000 lb			
14 ft x 14 ft			900 lb	1900 lb					950 lb	1400 lb		
16 ft x 16 ft				1600 lb					850 lb	1300 lb		
18 ft x 18 ft				1300 lb					750 lb	1150 lb		
20 ft x 20 ft				1000 lb	3000 lb					1000 lb	2100 lb	2900 lb
22 ft x 22 ft					2600 lb						1900 lb	2600 lb
24 ft x 24 ft					2200 lb						1700 lb	2300 lb
26 ft x 26 ft					1800 lb						1500 lb	2000 lb
28 ft x 28 ft					1400 lb							1500 lb
30 ft x 30 ft					1000 lb							1000 lb

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

Base and Car options

	Aronson Series (Rack & pinion lift)					Ransome Series (Chain lift)						
	LOCUST-I	LOCUST-II	SCARAB-I	SCARAB-II	SCARAB-III	44	66	99	1212	SHD	XHD	XXHD
SIZE												
6 ft x 6 ft	A, B, F	A, B, G	A, B, G				A, B, G					
7 ft x 7 ft	A, B, F	A, B, G	A, B, G				A, C, G					
8 ft x 8 ft	A, B, F	A, C, G	A, C, H				A, C, G	A, C, H				
9 ft x 9 ft		A, C, G	A, C, H				A, C, G	A, C, H				
10 ft x 10 ft		A, C, G	A, C, H				A, C, G	A, C, H				
12 ft x 12 ft		A, C, G	C, I	C, J				A, C, H	A, C, H			
14 ft x 14 ft			C, I	D, I					C, I	C, J		
16 ft x 16 ft				D, J					C, I	D, J		
18 ft x 18 ft				D, J					C, I	D, J		
20 ft x 20 ft				E, J	E, K					D, J	E, K	E, K
22 ft x 22 ft					E, K						E, K	E, K
24 ft x 24 ft					E, K						E, K	E, K
26 ft x 26 ft					E, K						E, K	E, K
28 ft x 28 ft					E, K							E, K
30 ft x 30 ft					E, K							E, K

Car rail lengths available in standard lengths of 10 ft and 20 ft sections.

All Ransome model manipulators come standard with MANUAL mast rotation. Stationary and powered mast options available.

All Aronson model manipulators come standard with STATIONARY mast. Manual and powered mast options available.

	Model	Description	Speed Range	Adds to HOA / Lift range with rail
A	33 in Gauge Car	Used for powered precision travel along a fabricated Manipulator rail. Can be used for car travel welding and Manipulator postioning along rail length. Fabricated steel design sufficient to carry the weight of a manipulator, power source, automatic head, controls, flux recovery system, wire reel and supporting apparatus. Completely enclosed car is powered by a 1-½ HP Drive. Power is transmitted to the precision cut gear rack pinion for positive car travel. Car rides on track ways with six sets of adjustable cam follower rollers that grip the replaceable ways on top, bottom and sides to maintain constant alignment of the car. All controls for operating car are located in a pendant station. Car is equipped with track wipers.	3-150 ipm	16-¼ in
B	51-¼ in Gauge Car	Used for manual or powered travel with "V" wheels on inverted angle iron fabricated Manipulator rail. Primarily used for postioning Manipulator along rail length. Car is heavy-duty all welded steel fabrication. Axles rotate in heavy-duty self-aligning pillow block bearings. Car has sufficient strength to support and a Manipulator and automatic welding Equipment.	Manual	12-⅝ in
C	56-½ in Gauge Car	Used for manual or powered travel on 90# yard standard crane rail. Can be used for car travel welding and Manipulator postioning along rail length. Car is low-slung to keep the center of gravity at a minimum. Machined car wheels will operate on a 56-½ in gauge with one set of car wheels double flanged; the opposing set of wheels is flat.	Manual or 2.0 - 100 ipm	22 in
D	72 in Gauge Car	Used for powered travel on 90# yard standard crane rail. Can be used for car travel welding and Manipulator postioning along rail length. Car is low-slung to keep the center of gravity at a minimum and is gear driven with power transmitted to one set of opposing wheels by direct coupling to the drive shaft of the wheels. Machined car wheels will operate on a 72 in gauge with all single flanged wheels.	2.0-100 ipm	20 in
E	84 in Gauge Car	Used for powered travel on 90# yard standard crane rail. Can be used for car travel welding and Manipulator postioning along rail length. Car is low-slung to keep the center of gravity at a minimum and is gear driven with power transmitted to one set of opposing wheels by direct coupling to the drive shaft of the wheels. Machined car wheels will operate on a 84 in gauge with one set of car wheels double flanged; the opposing set of wheels is flat.	2.0-100 ipm	29-½ in
F	X-Base (self standing) 82-½ in	FREE STANDING 4-LEG BASE With leveling screws and pad on each leg.		10 in
G	X-Base (self standing) 120 in	FREE STANDING 4-LEG BASE With leveling screws and pad on each leg		10 in
H	X-Base (self standing) 144 in	FREE STANDING 4-LEG BASE With leveling screws and pad on each leg		10 in
I	X-Base (self standing) 159 in	FREE STANDING 4-LEG BASE With leveling screws and pad on each leg		10 in
J	Self Standing Base 85 in Square	FREE STANDING SQUARE BASE 85 in Square Base		14-¾ in
K	Self Standing Base 101 in Square	FREE STANDING SQUARE BASE 101 in Square Base		24-½ in

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

ARONSON Series

Locust I & II



Koike Aronson / Ransome gear elevated Locust series manipulators are designed for safety and a trouble free long life. All critical mechanisms are enclosed and load carrying gear cases are welded in place and lifetime lubricated. Both lift and reach axis are guided with concave wheels and roundways for precision movement.

For small to medium industrial applications which require a small to medium arc travel and load capacity without the location of the operator on the boom, the Locust series manipulators are the solution.

Self-standing bases, travel cars and welding equipment packages are just some of the options available.

Lift and reach ranging from 6 ft to 12 ft



KOIKE ARONSON, INC. / RANSOME

Features

- Load capacities up to 600 pounds
- NEMA 12 Electricals
- Floor-base or car-track options available
- Large variety of accessories and options for versatility
- Low voltage hand control pendants
- Variable speed drives
- Round rail guidance on lift and reach axis
- Rack and pinion lift
- Optional mast rotation



Standard hand pendant provided with all models

Specifications

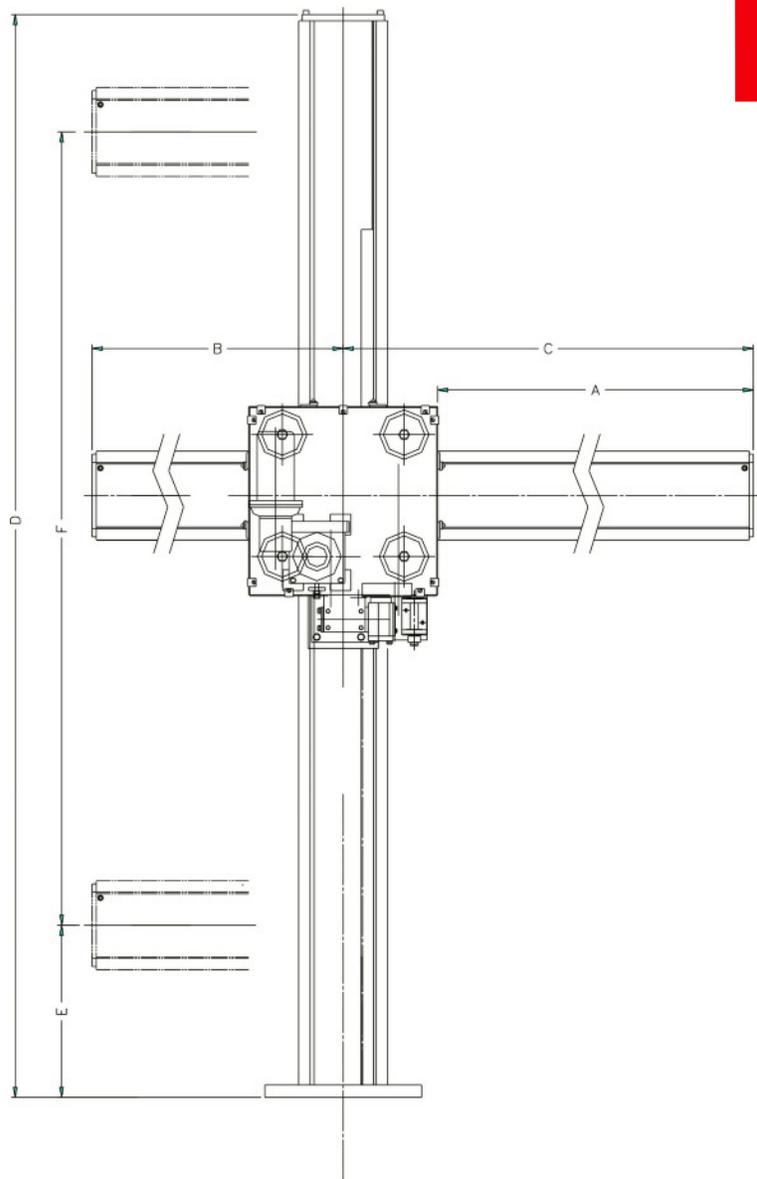
Locust

Model	Locust-I	Locust-II
Reach Travel Speed (IPM)	100 - 3.3 ipm	100 - 2.0 ipm
Reach motor HP	½ hp	½ hp
DIM A: Standard reach travel	6 ft	6 ft
Maximum reach travel	8 ft	12 ft
DIM B: Standard Min. reach distance from CL of Mast	13 in	15-½ in
DIM C: Standard Max. reach distance from CL of Mast	73 in	87-½ in
Boom mounting plate dimensions	½ x 4 x 10 in	¾ x 4-½ x 9 in
DIM D: Standard height overall (HOA) from floor to top of machine	107 in	114-¼ in
Lift speed	32 ipm	34 ipm
Lift motor HP	¾ hp	¾ hp
DIM E: Min. lift height from floor to CL of boom	24 in	28-¾ in
Max. lift travel	8 ft	12 ft
DIM F: Std. Lift travel distance from CL of boom	6 ft	6 ft
Base dimension	1 x 15-¼ in (diameter)	1-½ x 24 in (diameter)
Standard machine voltage	120/1/60	460/3/60

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

Model	Locust- I	Locust- II
6 ft x 6 ft	400 lb	600 lb
7 ft x 7 ft	350 lb	500 lb
8 ft x 8 ft	300 lb	500 lb
9 ft x 9 ft		400 lb
10 ft x 10 ft		400 lb
12 ft x 12 ft		300 lb

Maximum load in pounds on either or both ends of boom



See page 6 for car and base options
& page 22 for all machine options.

ARONSON Series

Scarab - I, II & III



Koike Aronson / Ransome gear elevated Scarab series Manipulators are designed for safety and a trouble free long life. All critical mechanisms are enclosed and load carrying gear cases are welded in place and lifetime lubricated. Both lift and reach axis are guided with concave wheels and roundways for precision movement.

For medium to large industrial applications which require a large arc travel and load capacities. Larger capacities allow the option of locating the operator on the boom with catwalks and chairs, providing an up close view of the arc and welding process.

Self-standing bases, travel cars and welding equipment packages are just some of the options available.

Lift and reach ranging from 6 ft to 30 ft



KOIKE ARONSON, INC. / RANSOME

Features

- **Load capacities up to 3,000 pounds**
- **NEMA 12 Electricals**
- **Floor-base or car-track options available**
- **Large variety of accessories and options for versatility**
- **Low voltage hand control pendants**
- **50:1 Variable speed drives**
- **Round rail guidance on lift and reach axis**
- **Rack and pinion lift**
- **Optional mast rotation**



Standard hand pendant provided with all models

Specifications

Scarab

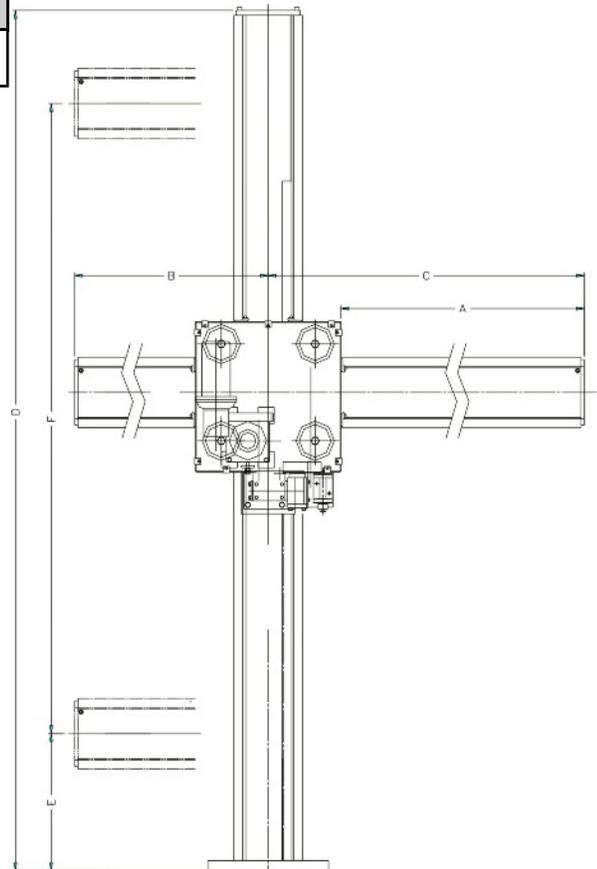
Model	Scarab-I	Scarab-II	Scarab-III
Reach Travel Speed (IPM)	100 - 2.0 ipm	100 -2.0 ipm	180 - 2.0 ipm
Reach motor HP	½ hp	½ hp	1 hp
Dim A: Standard reach travel	6 ft	12 ft	20 ft
Maximum reach travel	14 ft	20 ft	30 ft
DIM B: Std. Minimum reach distance From CL of Mast	18 in	21in	28-½ in
DIM C: Std. Max. reach distance From CL of Mast	90 in	165 in	268-½ in
Boom mounting plate dimensions	½ x 10 x 16-¾ in	¾ x 10 x 16-¾ in	1 x 11-7/8 x 23-½ in
DIM D: Std. height overall (HOA) from floor to top of machine	120 in	199 in	322 in
Lift speed	32 ipm	30 ipm	27 ipm
Lift motor HP	1 hp	1 hp	10 hp
DIM E: Minimum lift height from floor to CL of boom	28 in	33-½ in	53-½ in
Maximum lift travel	14 ft	20 ft	30 ft
DIM F: Std. Lift travel distance from CL of boom	6 ft	12 ft	20 ft
Base dimension	1-½ x 24 in diameters	2 x 32 in diameter	2-¾ x 38 in diameter
Standard machine voltage	460/3/60	460/3/60	460/3/60

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

Model	Scarab-I	Scarab-II	Scarab-III
6 ft x 6 ft	1700 lb		
7 ft x 7 ft	1500 lb		
8 ft x 8 ft	1500 lb		
9 ft x 9 ft	1300 lb		
10 ft x 10 ft	1300 lb		
12 ft x 12 ft	1100 lb	2200 lb	
14 ft x 14 ft	900 lb	1900 lb	
16 ft x 16 ft		1600 lb	
18 ft x 18 ft		1300 lb	
20 ft x 20 ft		1000 lb	3000 lb
22 ft x 22 ft			2600 lb
24 ft x 24 ft			2200 lb
26 ft x 26 ft			1800 lb
28 ft x 28 ft			1400 lb
30 ft x 30 ft			1000 lb

Maximum load in pounds on either or both ends of boom

See page 6 for car and base options & page 22 for all machine options



RANSOME Series

Model 44



Koike Aronson / Ransome model 44 manipulator is perfect for small open arc welding applications. A manual rack and pinion reach gives the operator precise control for positioning the arc. The powered reach axis allows for quick height adjustment and for carrying to a maximum of a 300 lb load that the ram can carry. Manual mast rotation allows the entire machine to be rotated and repositioned over multiple stations.

The manual car provided can run on the floor or a 24-inch gauge inverted v-rail track for better long-seam alignment.

Economic 4 ft x 4 ft Manipulator

Features

- Manual rack and pinion reach
- Powered vertical lift
- Manual car included with 24 inch rail gauge
- Manual mast rotation included
- Low voltage hand control pendants
- 115/1/60 voltage
- 150 lb load capacity

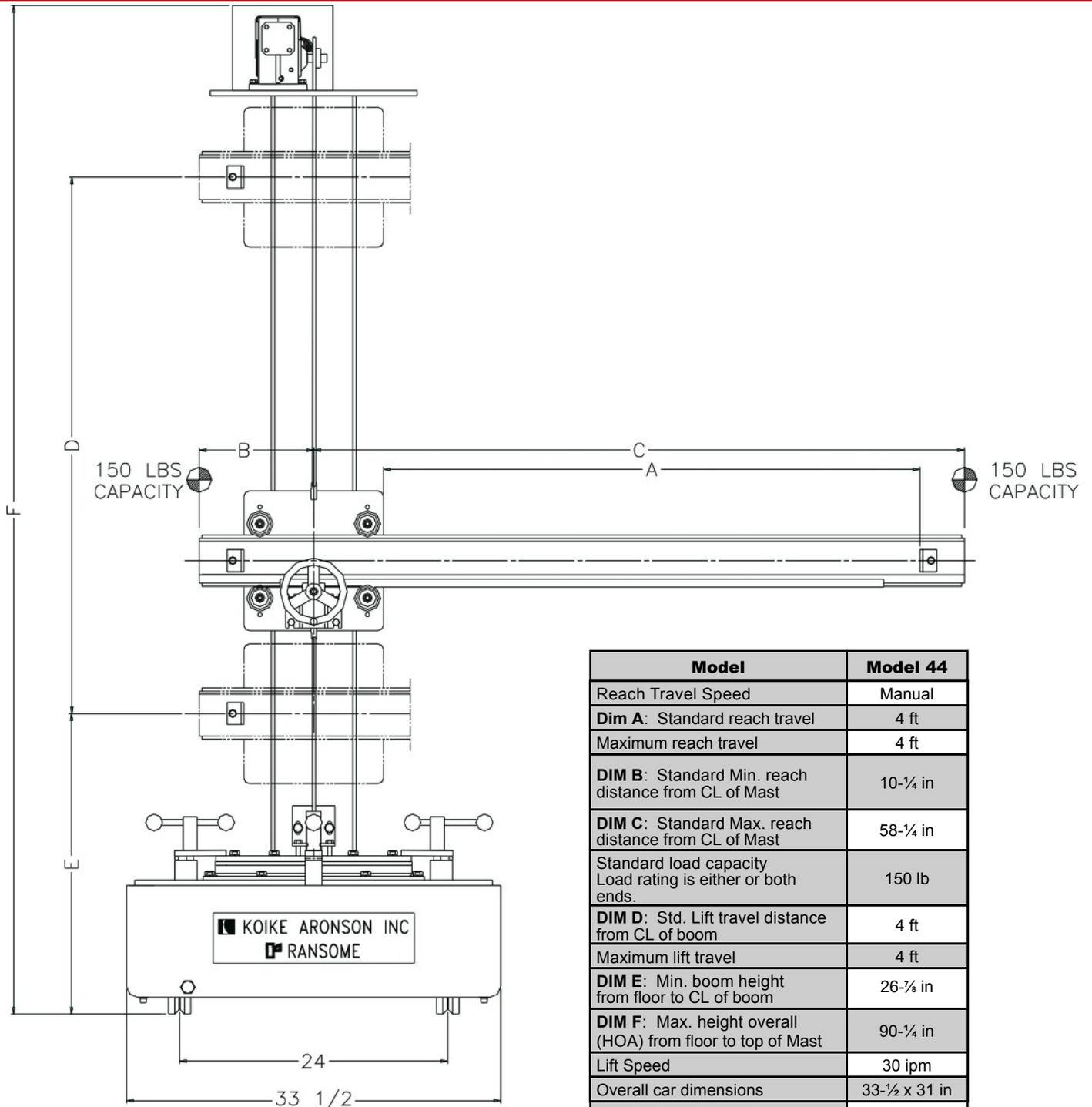


Standard hand pendant provided



Specifications

Model 44



VEE-GROOVED WHEELS WITH LOCKS FOR MANUAL MOVEMENT ON FLOOR OR TRACK

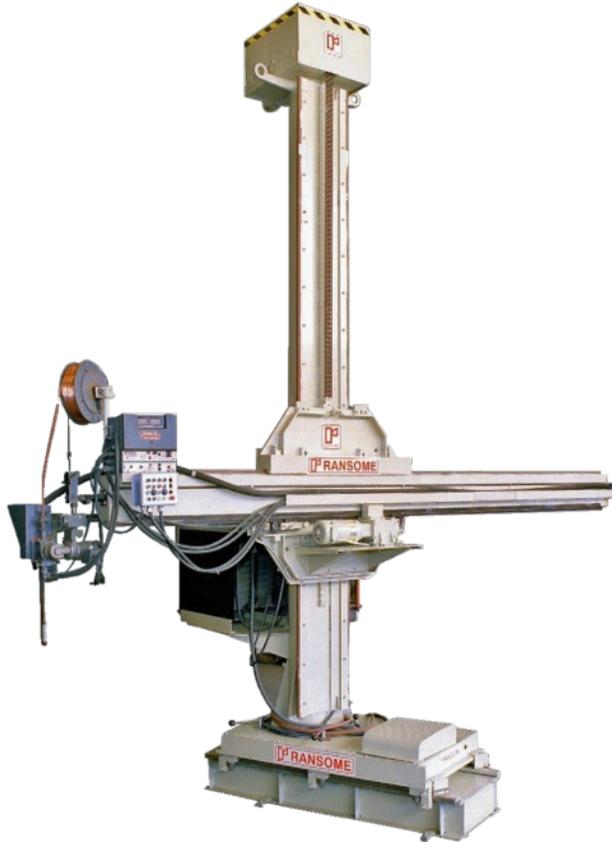
Model	Model 44
Reach Travel Speed	Manual
DIM A: Standard reach travel	4 ft
Maximum reach travel	4 ft
DIM B: Standard Min. reach distance from CL of Mast	10- ¹ / ₄ in
DIM C: Standard Max. reach distance from CL of Mast	58- ¹ / ₄ in
Standard load capacity Load rating is either or both ends.	150 lb
DIM D: Std. Lift travel distance from CL of boom	4 ft
Maximum lift travel	4 ft
DIM E: Min. boom height from floor to CL of boom	26- ³ / ₄ in
DIM F: Max. height overall (HOA) from floor to top of Mast	90- ¹ / ₄ in
Lift Speed	30 ipm
Overall car dimensions	33- ¹ / ₂ x 31 in
Standard machine voltage	115/1/60

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

Basic Machine Options
Powered Variable Speed Reach
10 ft Rail sections

RANSOME Series

Model 66 to 1212



The Koike Aronson/Ransome mid-range chain lift manipulators can be customized for specific applications, such as simple straight-line to circumferential welding. The Ram ends can be outfitted with small I.D. single or multiple arc welding heads for long seam and circumferential welding procedures. We have custom designs that can handle extra heavy, and extra long reach applications.

All manipulators come standard as a pedestal mount, and with a manual mast rotation, the option of powered rotation, self standing bases, and manual or powered travel cars. Complete welding packages can be Koike supplied and Koike mounted, customer supplied and Koike Mounted, or customer supplied and mounted.

Self-standing bases, travel cars, and welding equipment packages are just some of the options available.

Lift and reach ranging from 6 ft to 18 ft

Features

- Load capacities up to 750 pounds
- NEMA 12 Electricals
- Floor-base or car-track options available
- Large variety of accessories and options for versatility
- Manual mast rotation included
- 50:1 Variable speed drives
- Rack and pinion reach drive
- Cam roller guidance on lift and reach axis
- Chain lift



Standard hand pendant provided with all models



KOIKE ARONSON, INC. / RANSOME

Specifications

66 to 1212

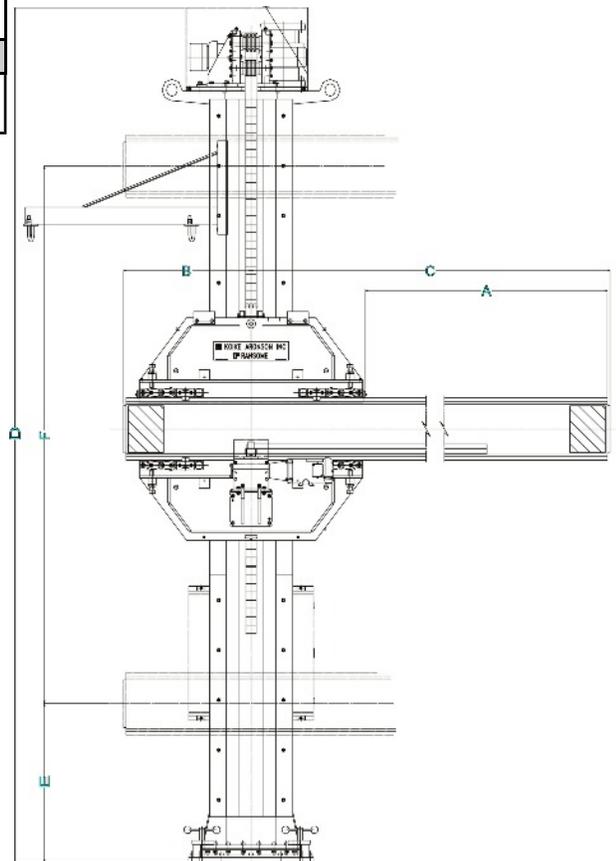
Model	66	99	1212
Reach Travel Speed (IPM)	150 - 3.0 ipm	150 - 3.0 ipm	130 - 2.6 ipm
Reach motor HP	½ hp	½ hp	¾ hp
Dim A: Standard reach travel	6 ft	9 ft	12 ft
Max.reach travel	10 ft	12 ft	18 ft
DIM B: Standard Min. reach distance From CL of Mast	16-¾ in	24 in	30-¾ in
DIM C: Standard Max. reach distance From CL of Mast	88-¾ in	132 in	174-¾ in
Boom mounting plate dimensions	¾ x 2-¾ x 4-¾ in	½ x 3-½ x 6-½ in	¾ x 5-½ x 11-½ in
DIM D: Standard height overall (HOA) from floor to top of machine	128 in	172-½ in	234 in
Lift speed	35 ipm	40 ipm	36 ipm
Lift motor HP	½ hp	½ hp	1hp
DIM E: Min. lift height from floor to CL of boom	24 in	30-½ in	39-½ in
Max.lift travel	10 ft	12 ft	18 ft
DIM F: Standard Lift travel distance from CL of boom	6 ft	9 ft	12 ft
Base dimension	1-¼ x 30 x 30 in	1-¼ x 30 x 30 in	1-¼ x 30 x 30 in
Standard machine voltage	460/3/60	460/3/60	460/3/60

See page 6 for car and base options & page 22 for all machine options.

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

Model	66	99	1212
6 ft x 6 ft	400 lb		
7 ft x 7 ft	375 lb		
8 ft x 8 ft	350 lb	725 lb	
9 ft x 9 ft	310 lb	650 lb	
10 ft x 10 ft	250 lb	575 lb	
12 ft x 12 ft		500 lb	1000 lb
14 ft x 14 ft			950 lb
16 ft x 16 ft			850 lb
18 ft x 18 ft			750 lb

Maximum load in pounds on either or both ends of boom



RANSOME Series

Model SHD to XXHD



The Koike Aronson/Ransome large range chain lift manipulators can be customized for specific applications, such as simple straight-line to circumferential welding. The Ram ends can be outfitted with small I.D. single or multiple arc welding heads for long seam and circumferential welding procedures. We have custom designs that can handle extra heavy, and extra long reach applications.

All manipulators come standard as a pedestal mount, with manual mast rotation, the option of powered rotation, self-standing bases, and manual or powered travel cars. Complete welding packages can be Koike supplied and Koike mounted, Customer supplied and Koike Mounted, or Customer supplied and mounted.

Self-standing bases, travel cars, and welding equipment packages are just some of the options available.

Lift and reach ranging from 14 ft to 30 ft



KOIKE ARONSON, INC. / RANSOME

Features

- Load capacities up to 2,000 lb
- NEMA 12 Electricals
- Floor-base or car-track options available
- Large variety of accessories and options for versatility
- Manual mast rotation included
- 50:1 Variable speed drives
- Rack and pinion reach drive
- Cam roller guidance on lift and reach axis
- Chain lift



Standard hand pendant provided with all models

Specifications

SHD to XXHD

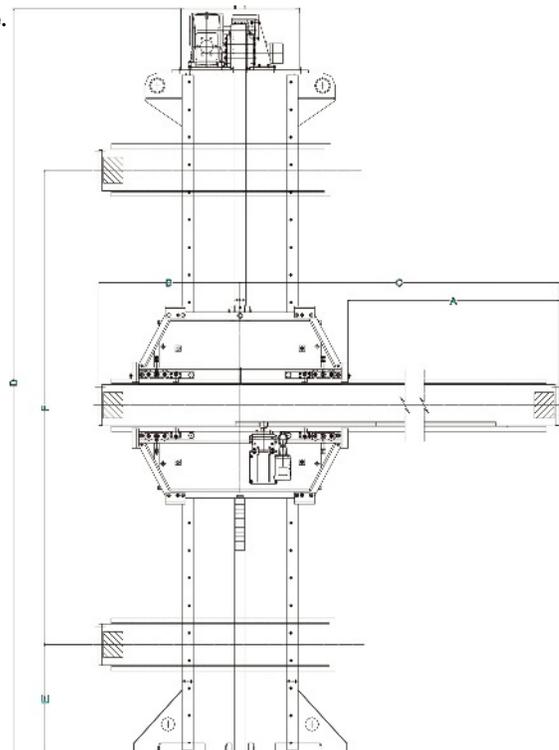
Model	SHD	XHD	XXHD
Reach Travel Speed (IPM)	134 - 2.7 ipm	128 - 2.6 ipm	98 - 1.9 ipm
Reach motor HP	¾ hp	2 hp	2 hp
DIM A: Standard reach travel	14 ft	20 ft	20 ft
Max. reach travel	20 ft	26 ft	30 ft
DIM B: Standard Min. reach distance From CL of Mast	38-¾ in	40-¾ in	60-½ in
DIM C: Standard Max. reach distance From CL of Mast	254-¾ in	280-¾ in	300-½ in
Boom mounting plate dimensions	¾ x 6 x 12 in	1-½ x 7-½ x 17-½ in	1-½ x 7-½ x 17-½ in
DIM D: Standard height overall (HOA) from floor to top of machine	325 in	360 in	373 in
Lift speed	41 ipm	45 ipm	48 ipm
Lift motor HP	1-½ hp	3 hp	7-½ hp
DIM E: Min. lift height from floor to CL of boom	45 in	50 in	56-¾ in
Max. lift travel	20 ft	26 ft	30 ft
DIM F: Standard Lift travel distance from CL of boom	14 ft	20 ft	20 ft
Base dimension	1-½ x 55-½ sq in	4 x 68 sq in	1-½ x 96 sq in
Standard machine voltage	460/3/60	460/3/60	460/3/60

See page 6 for car and base options & page 22 for all machine options.

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

MODEL	SHD	XHD	XXHD
14 ft x 14 ft	1400 lb		
16 ft x 16 ft	1300 lb		
18 ft x 18 ft	1150 lb		
20 ft x 20 ft	1000 lb	2100 lb	2900 lb
22 ft x 22 ft		1900 lb	2600 lb
24 ft x 24 ft		1700 lb	2300 lb
26 ft x 26 ft		1500 lb	2000 lb
28 ft x 28 ft			1500 lb
30 ft x 30 ft			1000 lb

Maximum load in pounds on either or both ends of boom



Seam Welders



The fixed height mandrel is incorporated into the machine base with provision to attach gas purge and water cooling capability if necessary, water cooling requires an in-house water supply or water chiller with pump. A replaceable copper backing bar is attached to the top of the mandrel. Retractable alignment mechanisms are provided for aligning the plate.

Machine equipped with aluminum clamping fingers for maximum conduction of heat away from weld and to prevent arc blow caused by magnetization of the ram (optional replaceable copper tipped fingers tips are available). A stainless steel pressure support plate is provided at the loading end of the machine to guard against machine magnetization.

Full-length precision custom side beam runs the full length of the machine. Side beam assembly is adjustable for aligning and leveling with mandrel and weld joint. The travel carriage is a rack and pinion design to provide positive travel. A cable carrier with supporting shelf is provided on rear of side beam to support and capture incoming cables and hoses to welding head.

Carriage over-travel limit switches and adjustable weld length limit switches are standard. The side beam with rack and pinion driven carriage and optional welding equipment can be arranged to allow for specified travel lengths.

Machine is freestanding and all controls are built into rear frame. Nema 4/12 enclosure, with circuit breakers. A remote pendant control is provided for operator convenience with 1-turn potentiometer, start/stop, forward/reverse, and auto/manual selector switch. Operation of pressure finger banks is individual and controlled by foot treadle. A microprocessor is used to control many welding wire functions, including speed control, start/stop delays, and wire retract distance. Standard controls include air pressure regulator. Primary voltage: 115/1/60

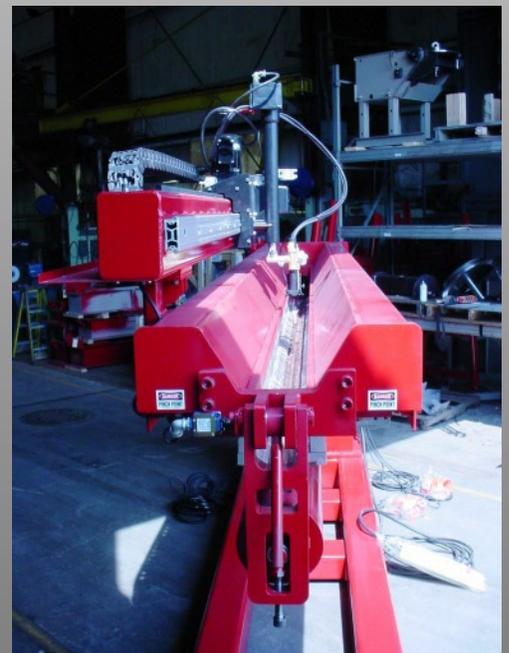
Internal, External and Flat Plate Models



KOIKE ARONSON, INC. / RANSOME

Features

- Rack and pinion powered carriage
- Optional Copper tipped hold down fingers
- Water cooled back-up bar
- Gas purge back-up bar
- Standard plate thickness up to 3/8 inch
- Welding equipment can be provided or customer supplied



Specifications

Longitudinal Seam Welders

Model	LS-48	LS-60	LS-72	LS-96	LS-120	LS-144
Effective weld seam length	48 in	60 in	72 in	96 in	120 in	144 in
Maximum plate thickness	¾ in					
Mandrel diameter	4 in	5 in	6 in	6 in	8 in	10 in
Minimum part diameter	4-½ in	5-½ in	6-½ in	6-½ in	8-½ in	10-½ in
Maximum part diameter	36 in					
Standard working height	45 in					
Shop air required	100 psi					
Standard voltage	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60

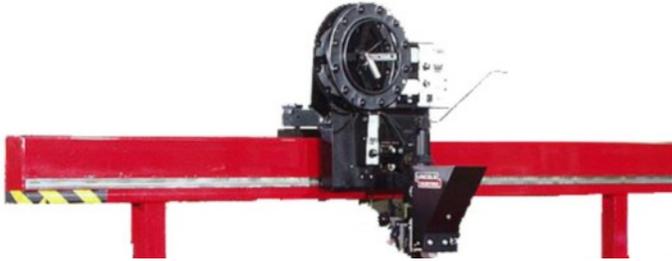
All dimensions are for reference only and subject to change without notice.

**Specifications shown for standard external longitudinal seamers.
Please consult factory for internal, flat plate or any other special requirements.**



SB Series

Side Beams



Koike Aronson/Ransome manufactures a wide variety of side beam designs and configurations. Both fixed height and elevating models can be utilized to fit your specific application. Manual and powered carriages provide great versatility and allow the operator to have precise control over the welding process.

All side beam welders are designed to meet the customer's specific needs. Beam and travel length, number and style of carriages, and beam configuration are just a few of the available options for Koike's side beam Positioner line.

Welding equipment can be completely provided, installed and integrated by Koike Aronson Inc. or the customer can order the side beam carriages with blank carriage plates to install their existing equipment.

Fixed, elevating and pantograph styles

Features

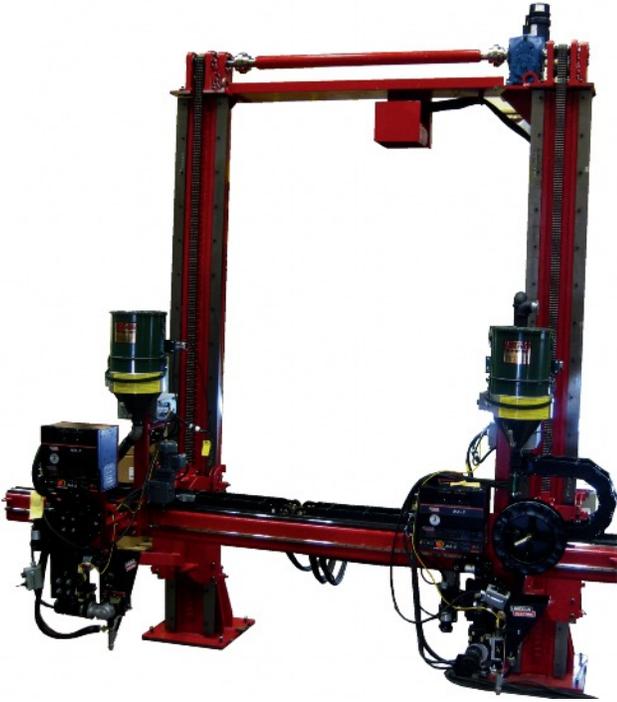
- Elevating models available
- Controls for overlay stations
- Pantograph linkage style optional
- Powered and manual carriages



Standard hand pendant provided with all models



Side Beams



OPTIONS

By nature of design and function, the majority of optional equipment for Koike Aronson / Ransome positioners should be installed at the time of manufacture. When ordering positioners it is important to consider all optional features and equipment.



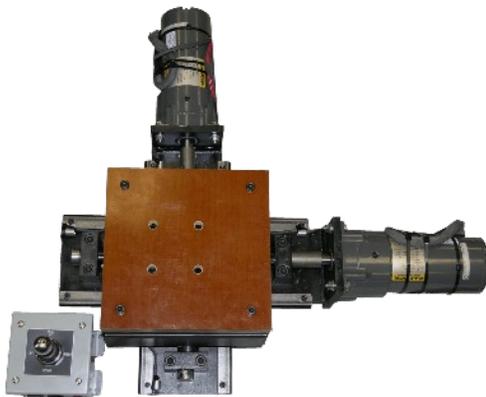
Radio Remote Controlled Pendant

The Koike Aronson/Ransome hand-held radio remote controlled pendant is user-friendly and adaptable to any positioner. The weather-proof and lightweight pendant includes a resettable E-Stop and speed potentiometer for complete, safe machine control. A magnetic holder allows operator to keep remote out of harms way when not in use.



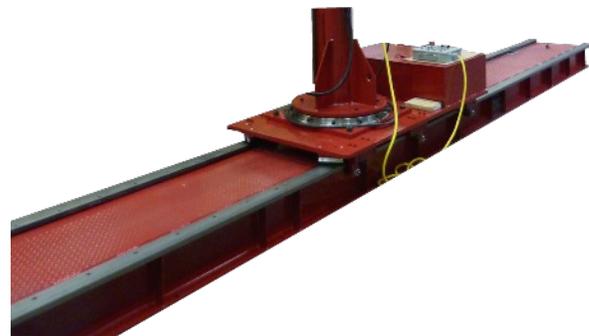
Catwalks / Ladders / Operator Chairs

Allows operator direct access to the welding process without the need for external platforms, ladders, or man lifts. Railings, safety cages and seat-belted chairs are just some of the safety features available.



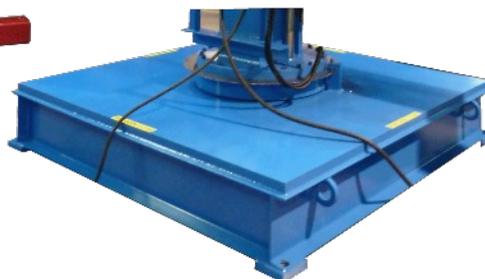
Cross Slides

Manual and powered cross slides available with 250 lb capacity. Allows the operator to drive weld head up/down or left/right with hand wheels or powered joystick control. Standard 6 in x 6 in and 12 in x 12 in versions available.



Travel Cars

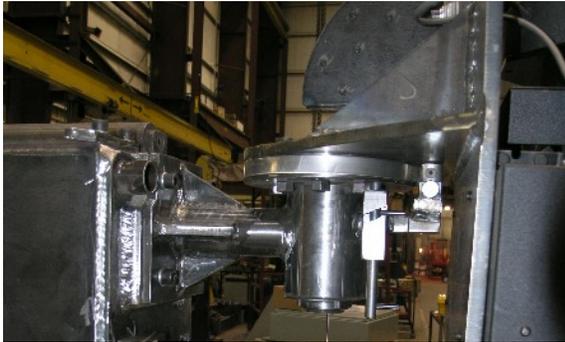
Powered and manual travel cars can be used for long seam welding or moving a manipulator from seam to seam.



Bases

Free standing x-frame and square bases available for easily moving and repositioning manipulator location. Size and style based on manipulator size and design. See page 6 for selection guide.

OPTIONS



180 Degree Head Orientator

Allows head to be manually positioned at 0 degrees, +90 degrees and -90 degrees to switch between girth and long seams, or weld direction without switching flux pick-up and drop nozzle locations.



Wire Drum Turntables

Allows large drums of wire to be mounted to the rear of the machine boom. Conduit runs the length of boom to deliver wire to the welding head. Single and dual head versions available.



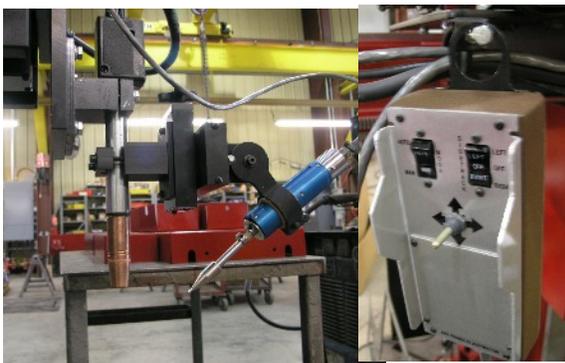
Cable Management

Optional cable carriers for the lift and reach and car axis is available. Welding leads, control and power cables can all be neatly run and protected. Enclosed and steel versions available upon request.



Welding Equipment

Multiple configurations and manufacturers can be custom mounted and integrated to a welding manipulator. Controls can be mounted to customer specifications which will provide the best access for the operator by improving visibility and safety.



Seam Trackers

Tactile or laser guided weld seam trackers are an automated method for accurately tracking the weld seam. Various modes allow for the tracking a many different joint designs and situations.



Vision Systems

Allows operator to view weld through a remote mounted camera system. This increases safety by keeping operator at floor level and increases quality. Standard SAW and open arc versions are available.

OPTIONS



IPM Meters and Displays

IPM travel speeds can be displayed or programmed with various types of displays or a touch screen HMI.



Variable Speed Lift Axis

Optional variable speed lift allows the operator to vary the speed of the lift axis. Please specify the speed range required when ordering.



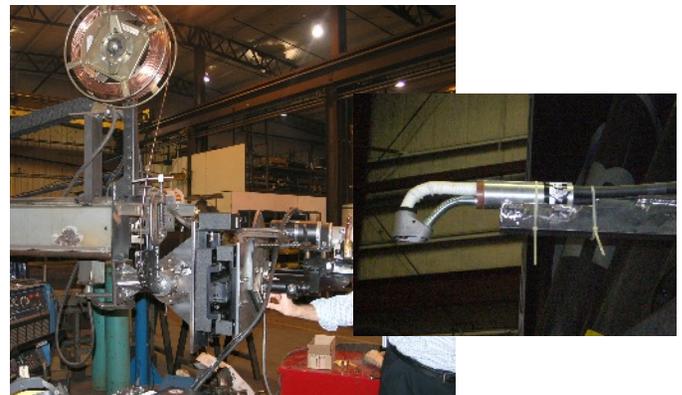
Powered Mast Rotation

Provides powered mast rotation allowing the operator to swing the boom out of the work area or work between two stations with one manipulator.



Equipment Tower/Mounting Platforms

Mast mounted power sources and flux recovery systems, rotate with mast to avoid cable wind up and provide ease in cable routing.



Special Designed Welding Heads

Small diameter, 90 degrees and other specially designed welding heads for specific customer solutions.



Operator stands and controls

Floor mounted integrated controls for manipulator and all options in one stand for operator convenience.

How to Order/Request a Quote

Contact your local distributor

 To find your local distributor, please visit
www.koike.com/distributor-locator

Contact a Manufacturers' Sales Representative

 To find a representative nearest to you, please visit
www.koike.com/find-a-sales-rep

Contact our Positioner Sales Business Unit

 Call toll-free: (800) 252-5232, ext. 480

 International: (585) 492-2400

 Email: positioners@koike.com

 Submit a form via our website @
www.koike.com/welding-machine-contact-form

**Thank you for your interest in Koike Aronson, Inc. /Ransome,
we look forward to helping you build your business!**

NOTES

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CUTTING, POSITIONING & WELDING EQUIPMENT



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