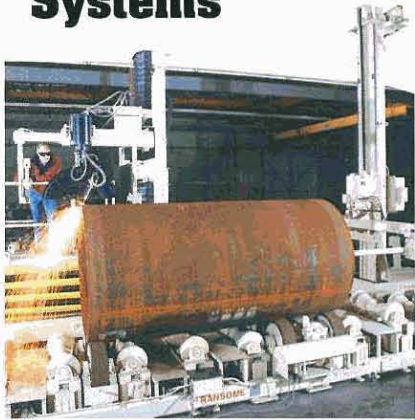




Engineered Systems

Engineered Systems



Ransome Benefits:

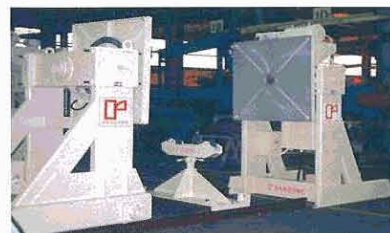
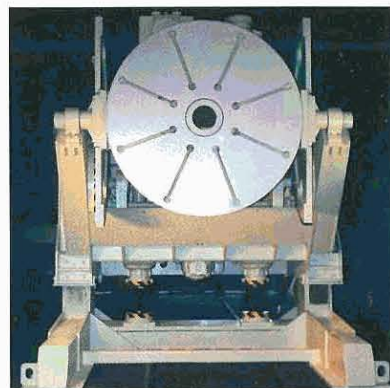
- Improved productivity
- Increased efficiency
- Consistent deposition resulting in x-ray quality welds
- Minimized rejections
- Precise repeatability

Automated Welding Positioners

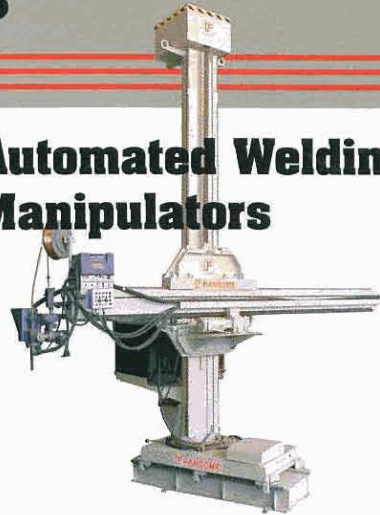


Ransome Features:

- Free standing with rated load applied...it won't tip over
- Dynamic braking
- Jam proof switching
- Fully remote control
- Rapid travel index
- Totally enclosed D.C. variable speed drive rotation motor
- 135° of powered tilt
- Spur gear final stage on tilt and rotation



Automated Welding Manipulators

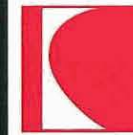


Ransome Benefits:

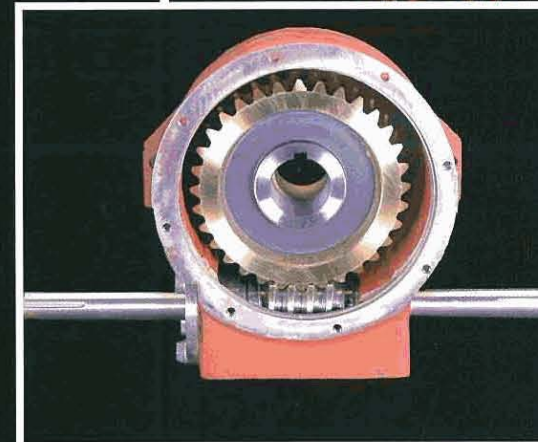
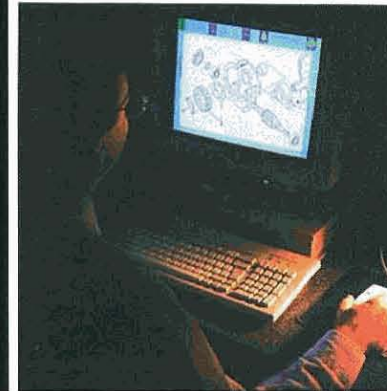
- Ideal for fabrication and maintenance applications
- Speeds welding operation
- Eliminates fatigue of hand operations
- Easy to operate
- Remote control for operator safety
- Cost efficient
- Precise x-ray quality welds free from undercut and slag inclusion



Power & Idler Turning Rolls



KOIKE ARONSON, INC. RANSOME



KOIKE ARONSON, INC. / RANSOME



Main Office:

635 W. Main Street, P.O. Box 307, Arcade, NY 14009
Phone: (585) 492-2400 Fax: (585) 457-3517 (585) 492-5209

Houston Sales Office:

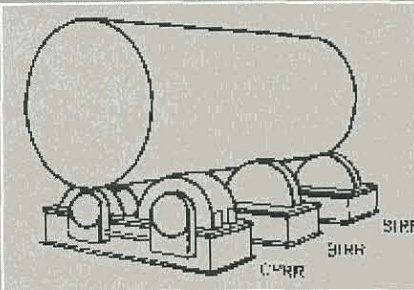
1285 North Post Oak, Suite 150, Houston, TX 77055
Phone: (713) 682-9645 Fax: (713) 957-4852



Power & Idler Turning Rolls



Elevating turning rolls for brace rack welding line.



Ransome Power and Idler Roll diameters, centers and heights are designed for interchangeability among Models A, AA, AAA and among Models B, C, D and E.



All inquiries for Ransome equipment are subject to design calculations using our CAD System. This is to ensure the proper selection and arrangement of equipment for our customer's application is within anticipated load stresses.

Ransome Turning Rolls are used throughout all industries worldwide to ease the fabrication and assembly of tanks, drums, pressure and cylindrical vessels of all types and sizes.

Ransome Turning Rolls improve the efficiency of either automatic or manual welding by increasing productivity, minimizing extra handling and need for



crane service. They allow operators complete control of forward or reverse rotation and infinitely smooth variable speed to produce x-ray quality welds every time.

Ransome's standard line of Turning Rolls offer capacities from 1 to 300 tons with special designs for handling up to 1,200 tons.



Features and Benefits

Rollers - Ransome rubber-tired rollers absorb shock and cushion seams during automatic welding.

Our 85 durometer tires, 20 points higher than standard, provide greater load carrying capacity, along with greater heat and tear resistance.

For high temperature and heavy load applications, specify Ransome's hardened high strength machined steel rollers.

Roller Spacing - Rollers are adjustable to handle small or large diameters or large weldments.

Roller Drive Gears - Bronze Gears specially designed for Ransome's Turning Rolls feature steel center hubs to absorb shock loads.

Anti-Friction Bearings - Result in smoother, longer running Power and Idler rolls.

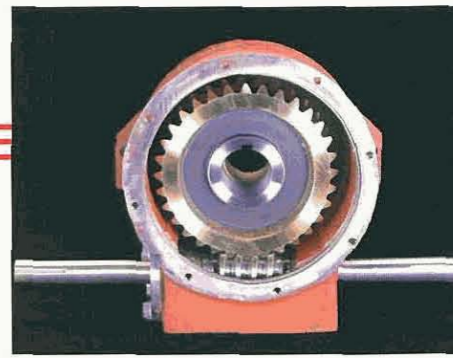
Self Aligning Bearings - Support Ransome's exclusive machined roller and shaft assemblies to assure smooth operation from no load to full load.

Simple to Operate - The remote control handles forward, reverse, rapid travel and speed variation over it's entire speed range.

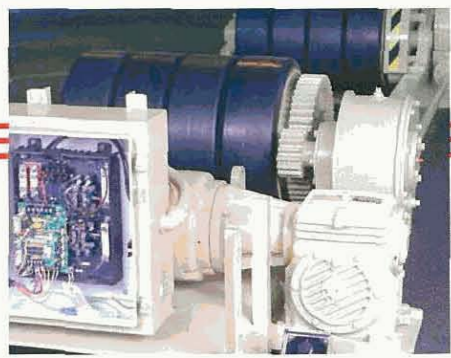
Ransome's Turning Rolls are supported by our excellent service center and distributor network.



Available with rubber-tired rollers that absorb shock and cushion seams or hardened machined steel rollers that can handle high temperature and heavy load applications. Capacities range to 600 tons with custom designs rated as high as 1,200 tons.



Ransome's drive train provides efficient constant speed regardless of load conditions. The exclusive steel hub and bronze worm wheel combination absorbs additional stress and assures long service life.



Ransome's Turning Rolls feature simple electronic controls that include precise direction and speed control to assure high quality bead deposition and x-ray quality welds.

	MODEL A		MODEL AA		MODEL AAA	MODEL B		MODEL B-OD	MODEL C		MODEL D		MODEL E		
	METAL ROLLERS	RUBBER ROLLERS	METAL ROLLERS	RUBBER ROLLERS	RUBBER ROLLERS	METAL ROLLERS	RUBBER ROLLERS	RUBBER ROLLERS	METAL ROLLERS	RUBBER ROLLERS	METAL ROLLERS	RUBBER ROLLERS	METAL ROLLERS	RUBBER ROLLERS	
SIZE OF ROLL															
TURNING CAPACITY (CONCENTRIC LOAD)	7-1/2 TONS	7-1/2 TONS	15 TONS	15 TONS	30 TONS	45 TONS	45 TONS	60 TONS	90 TONS	90 TONS	135 TONS	135 TONS	240 TONS	240 TONS	
ONE POWER AND ONE IDLER ROLL	5 TONS	5 TONS	10 TONS	10 TONS	20 TONS	30 TONS	30 TONS	60 TONS	60 TONS	60 TONS	90 TONS	90 TONS	120 TONS	120 TONS	
ONE POWER AND TWO OR MORE IDLERS	7-1/2 TONS	7-1/2 TONS	15 TONS	15 TONS	30 TONS	45 TONS	45 TONS	60 TONS	90 TONS	90 TONS	135 TONS	135 TONS	240 TONS	240 TONS	
ELECTRONIC SCR DRIVE, PENDANT CONTROL ON 20 FT. CORD	1/2 H.P. OUTPUT HORSEPOWER		3/4 H.P. OUTPUT HORSEPOWER		1-1/2 H.P. OUTPUT HORSEPOWER	2 H.P. OUTPUT HORSEPOWER		3 H.P. OUTPUT HORSEPOWER	3 H.P. OUTPUT HORSEPOWER		3 H.P. OUTPUT HORSEPOWER		5 H.P. OUTPUT HORSEPOWER		
ROLLERS	A	7'-2-7/8"		7'-2-7/8"		7'-11"	10'-4-3/4"		10'-4-3/4"		10'-4-3/4"		13'-1-3/16"		
	B	1'-11"		1'-11"		2'-10"	3'-2"		3'-2"		3'-2"		4'-4-1/2"		
	C	18-5/8"		18-5/8"		19-11/16"	2-3"		2-3"		2-3"		2-3"		
	D	16"	16"	16"	16"	16"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"
	E	2-1/2"	2-1/2"	5"	5"	10"	5"	7"	7"	5"	14"	5"	21"	5"	28"
	F	17-1/2', 29-1/2', 41-1/2' & 53-1/2'		17-1/2', 29-1/2', 41-1/2' & 53-1/2'		17-1/2', 29-1/2', 41-1/2' & 53-1/2'	23', 44', 65' & 86"		23', 44', 65' & 86"		23', 44', 65' & 86"		23', 44', 65' & 86"		
G	1'-5"		1'-5"		1'-5"	1'-11"		1'-11"		1'-11"		1'-11"			
H	8"		8"		8"	12"		12"		12"		12"			
I	2-5/8"		2-5/8"		3-11/16"	4-3/4"		4-3/4"		4-3/4"		4-3/4"			
J	20-1/4"		20-1/4"		30-1/2"	25"		25"		25"		29-1/4"			
SURFACE SPEED IN. PER MIN.	1.45-58 IPM		1.45-58		1.5-60	1.1-43		1.4-43		1.1-43		1-40		9-36	
VARIABLE SPEED DRIVE	DC MOTOR		DC MOTOR		DC MOTOR	DC MOTOR		DC MOTOR		DC MOTOR		DC MOTOR		DC MOTOR	
K MAX.	12'-0"		12'-0"		12'-0"	20'-0"		20'-0"		20'-0"		20'-0"		20'-0"	
L MIN.	5"		5"		5"	7"		7"		7"		7"		7"	
* M	10"		10"		18-5/8"	13-1/2"		13-1/2"		12"		21"		15-1/4"	
N	6'-1-7/8"		6'-1-7/8"		6'-3"	9'-4-1/2"		9'-4-1/2"		9'-4-1/2"		9'-4-1/2"		10'-4"	
APPROX. SHIPPING WEIGHT, LB.	800		1050		1250	2100		2775		3400		4400		5400	
POWER ROLL	400		500		700	1080		1755		2200		2300		3400	

* FOR LARGER WORK DIAMETERS CONSULT RANSOME

