

JOHN R. ROBINSON, INC.

*Condensers, Heat Exchanger, Chiller, and Boiler
Maintenance Tools and Service Products*



GC11 TUBE CLEANER AND PROJECTILES



FOAM GENERATOR LEAK DETECTOR MODEL 1-965-42



TUBE PLUGS



ROLL MOTORS AND TUBE EXPANDERS

R2GPS PUMP SYSTEM



www.johnrrobinsoninc.com jrrinc@earthlink.net
Toll Free: 800-726-1026 Tel: 718-786-6088 Fax: 718-786-6090

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JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

SURFACE CONDENSER CLEANING PUMP



(Includes push handle not shown)

ROBINSON R2GPS

The 2 Gun Pump System is designed to shoot tube cleaners through tubes ranging from 5/8" to 1-1/4" in main surface condensers, auxiliary condensers, and heat exchangers. With the right ROBINSON tube cleaner this pump system can clean even the toughest scale. It effectively increases the facilities low water pressure to 350-400 psi, necessary for proper operation to propel tube cleaners through the entire length of the tube.

Features

- Designed for optional one or two person operation.
- Alternating of water guns ensures a smooth two person operation.
- Pump comes mounted on a base with industrial wheels for easy mobility.
- Consistent performance on every job.

Specifications

- 10 HP electric motor; operates on 220/440 Volt, 3 phase electric.
- Adjustable pressure regulator allows the operator to raise or lower the pressure.
- Inlet port accepts 1-1/2" inlet hose.
- Outlet port accepts 3/4" outlet hose.
- Requires 20-70 psi of water at 35 GPM.

Accessories for R2GPS

WGI WATER GUN

WGI water gun for use with R2GPS pump system. The WGI cleaning gun is a water only tube cleaning gun designed to shoot projectiles with the R2GPS cleaning pump where only water is specified.

The water gun can be used to clean tubes with 1/2" to 1-1/4" OD tubes.

Cleaning gun comes complete with:

- Heavy Duty Swivel
- Gauge Adapter
- Gauge
- Splash Guard
- Nozzle



PSH RUGGED HEAVY DUTY HOSES

Heavy duty hoses with NPT fittings on each end.

PSH11250 1-1/2" x 50' Inlet hose
For water source to water pump connection

PSH3450 3/4" X 50' Outlet hose
For water pump to water gun connection



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ROBINSON

CONDENSER TUBE CLEANING GUN AND SYSTEM



GC11 Tube Cleaning Gun is **GUARANTEED** to Outlast Any Other Tube Cleaning Gun

Robinson combination Air and Water Cleaning Gun is light weight and easy to use. For 3/8" to 1-1/2" O.D. Tubes.

One squeeze of the trigger allows water to lubricate tube and brush. A further squeeze of the trigger propels the brush through the tube. Cleans Condenser or Heat Exchanger Tubes in seconds.

Robinson GC11 is the Personal Choice of many Contractors and Plants.

GC11 Gun comes complete with Tapered Nozzle and Safety Splash Shield.

Pressure varies according to the particular condition of the Condenser or Heat Exchanger: Tube OD, Gauge, Length and how badly fouled the unit is.

Air pressure should always be at least ten or twenty pounds greater than the water pressure, this reduces any backwash.

Care and Storage:

Wash thoroughly with freshwater then blow dry. Lubricate moving parts.

- **HEAVY DUTY GUN**
- **SIMPLE TO USE**
- **LIGHT WEIGHT**
- **ABLE TO REACH ALL TUBES**
- **HIGH WATER AND AIR FLOW**
- **EASY REPLACEMENT OF WORN PARTS**
- **PALM TRIGGER REDUCES OPERATOR FATIGUE**

System 1000	System 2000	System 3000
1 - Robinson Combination Air and Water Tube Cleaning Gun complete with Nozzle, Safety Splash Shield, and Adapter. Quick Couplers 2 - 3/8 x 15' Hoses 2 - 3/4 x 50' Hoses 1 - Extra Nozzle 1 - 18" Extension Nozzle 1 - 50' Flex Ram Rod 1 - Catch Net 12' x 12' Armor Net 1 - Gun repair Kit #957P	2 - Robinson Combination Air and Water Tube Cleaning Gun complete with Nozzle, Safety Splash Shield, and Adapter. Quick Couplers 4 - 3/8 x 15' Hoses 4 - 3/4 x 50' Hoses 2 - Extra Nozzle 1 - 1/2 x 50' Flex Ram Rod 1 - Catch Net 12' x 12', Armor Net 1 - Catch Net 12' x 12', 1-ply 2 - Gun repair Kit #957P	3 - Robinson Combination Air and Water Tube Cleaning Gun complete with Nozzle, Safety Splash Shield, and Adapter. Quick Couplers 6 - 3/8 x 15' Hoses 6 - 3/4 x 50' Hoses 3 - Extra Nozzle 1 - 1/2 x 50' Flex Ram Rod 1 - Catch Net 12' x 12', Armor Net 1 - Catch Net 12' x 12', 1-ply 3 - Gun repair Kit #957P

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ROBINSON

TUBE CLEANING ACCESSORIES



FLEX RAMROD fiberglass rod is used during condenser tube cleaning to ram debris out of blocked tubes. The Flex Ramrod is fed through the manway into each blocked tube. Manual ramming action is applied to dislodge blockages. Available in 3/8" and 1/2" diameters: FRR3850 - 3/8" x 50', FRR1250 - 1/2" x 50'.



CATCH NETS are easy to hang, protects cleaners and water box from damage. Armor Net with grommets around the perimeter will catch all types of cleaners.

Sizes: CN66 - 6' x 6', CN1212 - 12' x 12', and CN1620 - 16' x 20'. Also available in MESH.



NOZZLE EXTENSIONS install between the Gun and Nozzle, the increase length makes it possible to reach beyond shell casing.

Available in several lengths: NE12 - 12", NE18 - 18", NE24 - 24"



GC11 Gun Nozzle Available in Several Sizes

NOZZLE #	6	8	10	12	14	16	18
"A" DIA.	.355	.389	.498	.623	.713	.850	1.124
SIZES	3/8"	1/2"	5/8"	3/4"	7/8" & 1"	1-1/8"	1-1/4" & 1-3/8"



NOZZLE WITH RUBBER TIP

#120 For 5/8" and 3/4"

#140 For 7/8" to 1-1/2"

REPLACEMENT RUBBER TIPS

NRT0 For 5/8" OD

NRT2 For 3/4"

NRT3 For 7/8"

NRT4 For 1"

Supply OD and Gauge of tube



DELRIN NOZZLES

NOZDE 5834 For 5/8" and 3/4"

NOZDE 781 For 7/8" and 1"



GUN REPAIR KIT #957P

1. Cap Mounting Screws (3)
2. Trigger Pivot Shaft
3. Pivot Shaft Bushings (2)
4. Water Valve Spring

5. Air Valve Spring
6. Water Valve Push Rod "O" Ring
7. Air Valve with Stem "O" Ring



REGULATOR regulates water and air pressure to do more effective cleaning. This is particularly true when cleaning 3/8" to 3/4" O.D. tubes that are less than 18' long. Use Robinson water and air regulator with 0-160 gauge #WAR160.

HOSES rugged heavy duty hose with operating pressure of 300 PSI. 3/8" Dia. x 15', 3/4" & 1/2" Diameter hoses in 15, 25 & 50 foot lengths.

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ROBINSON

JET BRUSH (JRRWD1)

The world famous nylon bristle Jet Brush used in Fossil, Nuclear and Chemical Plants worldwide. **Now With More Coils!**

RAM BRUSH (JRRPD)

Nylon bristles, Polyurethane core, and bumpers. This bi-directional coil style brush can be shot from either end for less time loading brushes and can remove heavy debris.

JB BRUSH (JRRPD)

Coil style nylon bristle tube cleaning brush with piston. Color coded brushes.

RXL BRUSH

Nylon bristle, coil style cleaning brush. Longer brush to remove more deposits.

TORPEDO BRUSH (JRRB201)

Twisted in wire nylon bristles with rubber bumpers, also available with stainless steel bristles.

W22 BRUSH

Coil styled brush with rubber tips and nylon bristles. For Heat Exchangers with 5/8" and 3/4" tubes.

STAINLESS STEEL TUBE BRUSHES (SSTB)

A stainless steel brush for tough deposits. This brush is aggressive.



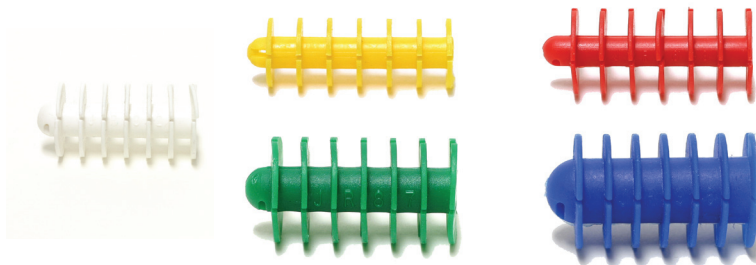
O.D. (mm)	GAUGE	I.D.	Part Number						
			JET BRUSH JRRWD1	RAM BRUSH JRRPD	JB BRUSH JRRJB	RXL BRUSH	Torpedo Brush JRRB201	W22 BRUSH JRRW22	SSTB BRUSH JRRBSSTB
5/8"	(15.8)	.495	JRRWD15816	JRRPD5816	JRRJB5816	RXL5816	JRRB2015816	JRRW225816	JRRBSSTB5816
		.509	JRRWD15817	JRRPD5817	JRRJB5817	RXL5817	JRRB2015817	JRRW225817	JRRBSSTB5817
		.527	JRRWD15818	JRRPD5818	JRRJB5818	RXL5818	JRRB2015818	JRRW225818	JRRBSSTB5818
		.541	JRRWD15819	JRRPD5819	JRRJB5819	RXL5819	JRRB2015819	JRRW225819	JRRBSSTB5819
		.555	JRRWD15820	JRRPD5820	JRRJB5820	RXL5820	JRRB2015820	JRRW225820	JRRBSSTB5820
		.561	JRRWD15821	JRRPD5821	JRRJB5821	RXL5821	JRRB2015821	JRRW225821	JRRBSSTB5821
		.569	JRRWD15822	JRRPD5822	JRRJB5822	RXL5822	JRRB2015822	JRRW225822	JRRBSSTB5822
3/4"	(19.0)	.620	JRRWD13416	JRRPD3416	JRRJB3416	RXL3416	JRRB2013416	JRRW223416	JRRBSSTB3416
		.634	JRRWD13417	JRRPD3417	JRRJB3417	RXL3417	JRRB2013417	JRRW223417	JRRBSSTB3417
		.652	JRRWD13418	JRRPD3418	JRRJB3418	RXL3418	JRRB2013418	JRRW223418	JRRBSSTB3418
		.666	JRRWD13419	JRRPD3419	JRRJB3419	RXL3419	JRRB2013419	JRRW223419	JRRBSSTB3419
		.680	JRRWD13420	JRRPD3420	JRRJB3420	RXL3420	JRRB2013420	JRRW223420	JRRBSSTB3420
		.686	JRRWD13421	JRRPD3421	JRRJB3421	RXL3421	JRRB2013421	JRRW223421	JRRBSSTB3421
		.694	JRRWD13422	JRRPD3422	JRRJB3422	RXL3422	JRRB2013422	JRRW223422	JRRBSSTB3422
7/8"	(22.2)	.745	JRRWD17816	JRRPD7816	JRRJB7816	RXL7816	JRRB2017516		JRRBSSTB7816
		.759	JRRWD17817	JRRPD7817	JRRJB7817	RXL7817	JRRB2017817		JRRBSSTB7817
		.777	JRRWD17818	JRRPD7818	JRRJB7818	RXL7818	JRRB2017818		JRRBSSTB7818
		.791	JRRWD17819	JRRPD7819	JRRJB7819	RXL7819	JRRB2017819		JRRBSSTB7819
		.805	JRRWD17820	JRRPD7820	JRRJB7820	RXL7820	JRRB2017820		JRRBSSTB7820
		.811	JRRWD17821	JRRPD7821	JRRJB7821	RXL7821	JRRB2017821		JRRBSSTB7821
		.819	JRRWD17822	JRRPD7822	JRRJB7822	RXL7822	JRRB2017822		JRRBSSTB7822
1"	(25.4)	.870	JRRWD1116	JRRPD116	JRRJB116	RXL116	JRRB201116		JRRBSSTB116
		.884	JRRWD1117	JRRPD117	JRRJB117	RXL117	JRRB201117		JRRBSSTB117
		.902	JRRWD1118	JRRPD118	JRRJB118	RXL118	JRRB201118		JRRBSSTB118
		.916	JRRWD1119	JRRPD119	JRRJB119	RXL119	JRRB201119		JRRBSSTB119
		.930	JRRWD1120	JRRPD120	JRRJB120	RXL120	JRRB201120		JRRBSSTB120
		.936	JRRWD1121	JRRPD121	JRRJB121	RXL121	JRRB201121		JRRBSSTB121
		.944	JRRWD1122	JRRPD122	JRRJB122	RXL122	JRRB201122		JRRBSSTB122
1-1/8"	(28.5)	.995	JRRWD111816	JRRPD11816	JRRJB11816	RXL11816	JRRB20111816		JRRBSSTB11816
		1.009	JRRWD111817	JRRPD11817	JRRJB11817	RXL11817	JRRB20111817		JRRBSSTB11817
		1.027	JRRWD111818	JRRPD11818	JRRJB11818	RXL11818	JRRB20111818		JRRBSSTB11818
		1.041	JRRWD111819	JRRPD11819	JRRJB11819	RXL11819	JRRB20111819		JRRBSSTB11819
		1.055	JRRWD111820	JRRPD11820	JRRJB11820	RXL11820	JRRB20111820		JRRBSSTB11820
		1.061	JRRWD111821	JRRPD11821	JRRJB11821	RXL11821	JRRB20111821		JRRBSSTB11821
		1.069	JRRWD111822	JRRPD11822	JRRJB11822	RXL11822	JRRB20111822		JRRBSSTB11822
1-1/4"	(31.7)	1.120	JRRWD111416	JRRPD11416	JRRJB11416	RXL11416	JRRB20111416		JRRBSSTB11416
		1.134	JRRWD111417	JRRPD11417	JRRJB11417	RXL11417	JRRB20111417		JRRBSSTB11417
		1.152	JRRWD111418	JRRPD11418	JRRJB11418	RXL11418	JRRB20111418		JRRBSSTB11418
		1.166	JRRWD111419	JRRPD11419	JRRJB11419	RXL11419	JRRB20111419		JRRBSSTB11419
		1.180	JRRWD111420	JRRPD11420	JRRJB11420	RXL11420	JRRB20111420		JRRBSSTB11420
		1.186	JRRWD111421	JRRPD11421	JRRJB11421	RXL11421	JRRB20111421		JRRBSSTB11421
		1.194	JRRWD111422	JRRPD11422	JRRJB11422	RXL11422	JRRB20111422		JRRBSSTB11422

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ROBINSON

ROBINSON PLASTIC TUBE SCRAPERS



ROBINSON plastic tube scrapers remove mud, slime, silt, algae, and shells from tubes fast! For the most time efficient cleaning jobs, use our plastic scrapers with the tube cleaning power of the GC11 cleaning gun. Plastic scrapers are available for cleaning condenser and heat exchanger tubes with 5/8" OD to 1-1/4" OD. Scrapers are color coded and stamped with the part number for easy identification.

SCRAPER PART #	COLOR	TYPE	TUBE ID RANGE (IN)	TUBE ID RANGE (mm)	SCRAPER OD (IN)
JR56-S JR56-H	YELLOW	SOFT	.495 - .541	12.57 - 13.74	0.560
		HARD	.527 - .555	13.39 - 14.10	
JR63-S JR63-H	BROWN	SOFT	.570 - .620	14.50 - 15.75	0.630
		HARD	.590 - .630	15.00 - 16.00	
JR69-S JR69-H	RED	SOFT	.620 - .675	15.75 - 17.15	0.695
		HARD	.652 - .694	15.56 - 17.63	
JR75-S JR75-H	PURPLE	SOFT	.660 - .730	16.76 - 18.54	0.750
		HARD	.710 - .750	13.03 - 19.05	
JR82-S JR82-H	WHITE	SOFT	.730 - .800	13.54 - 20.32	0.825
		HARD	.777 - .819	19.74 - 20.80	
JR87-S JR87-H	GREEN	SOFT	.780 - .850	19.81 - 21.59	0.870
		HARD	.825 - .870	20.96 - 22.10	
JR96-S JR96-M JR96-H	BLUE	SOFT	.870 - .944	22.10 - 23.98	0.960
		MEDIUM	.885 - .950	22.50 - 24.13	
		HARD	.902 - .956	22.91 - 24.28	
JR110-S JR110-H	BLACK	SOFT	1.000 - 1.080	25.40 - 27.55	1.100
		HARD	1.027 - 1.100	26.09 - 27.95	

- Cost effective
- Light weight
- Reusable
- Float for easy retrieval
- Fits a range of tube sizes
- No metal parts
- Fins will not damage tubes
- Tough one piece construction

ROBINSON RUBBER SPONGE BALLS



Standard Ball



Ring Coated Carborundum



Totally Coated Carborundum

Rubber sponge balls are engineered for the best efficiency possible for different condenser tube cleaning systems or use with U-tube cleaning in heat exchanger systems. Rubber sponge balls have many additional applications than these two common uses. **ROBINSON** offers a standard sponge ball, and two abrasive sponge balls; a ring coated carborundum ball, and a totally coated carborundum sponge ball.

- The standard sponge ball is for continual use in Condenser Tube Cleaning Systems where there is no specific problem. If the standard sponge balls are continuously used, hard scale deposits will not occur on the tubes internal diameter.
- The abrasive sponge balls are only for extremely fouled or difficult deposits in metal tubes. They are not to be used continuously in the tubes.

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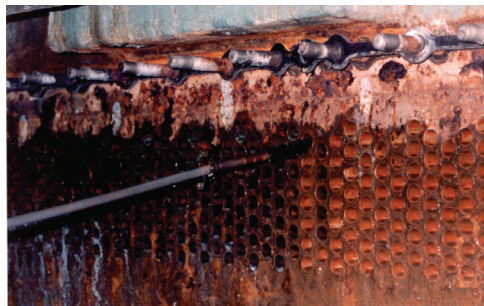
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ROBINSON

JR3800 SERIES TUBE CLEANER

The **JOHN R. ROBINSON, INC.** JR3800 Series Tube Cleaners makes tube cleaning a safe, and simple one man job. While a tool rotates through the tube, driven by a flexible shaft, water assists by flushing out loosened deposits. Tubes are left clean and free of energy robbing build-ups of scale, algae, mud etc.



HOW IT WORKS

The **ROBINSON** JR3800 SERIES TUBE CLEANERS was designed with a flexible shaft which rotates at speeds from 0 to 1800 RPM inside a watertight nylon casing. As the shaft is fed into the tube being cleaned, water from a garden hose is carried through the machine to the brush or cutting tool. The brush or cutting tool loosens deposits in the tube and water assists in flushing deposits out of the end of the tube. Operation of the machine is controlled by an air activated foot switch. Step on the switch – the shaft rotates and water flows through the casing. Lift foot off the switch – the shaft immediately stops rotating and water stops flowing. The machine operates and water flows only when the operator deliberately depresses the foot switch!

JR3800-1800 and JR3800-1800-50

Constant Speed with Foot Control

JR3800-1800, JR3800-1800-50 Tube Cleaner is designed for applications where variable speed and/or reverse rotation is not desired or budget restraints demand a more economical unit. The JR3800-1800 Tube Cleaner is the best Tube Cleaner for your money. JR3800-1800-50: 220V, 50Hz



Flexible Shaft Speed	1725 RPM
Motor Power (50 Hz) Motor Available	1/3 HP, 6 Amps, 60 Hz, 115 Volts
Input Water	Garden Hose
Unit Dimensions	17"L x 11"W x 9"H
Unit Weight (Excluding Shafts)	40 Lbs
Overall Shipping Dimensions	23"L x 12"W x 11"H
Overall Shipping Weight (Excluding Shafts)	44 Lbs

JR3800R and JR3800R-50

Constant Torque • Variable Speed • Reversible • Increased Safety

The carefully designed JR3800R Tube Cleaner is powered by a D.C. (Permanent Magnet) motor. The motor is combined with a solid state speed control. This combination allows the operator to select rotational speeds from 0 to 1800 RPM with a constant torque. This feature cannot be offered on units with A.C. motors and constant high RPM's.

JR3800R Tube Cleaner – Variable Speed & Reversible w/Reversible Foot Control. To permit clockwise rotation entering tubes and counter clock-wise rotation for existing. Cleaning internally enhanced tubes is made easier by this machine.

JR3800R-50: 220V, 50Hz

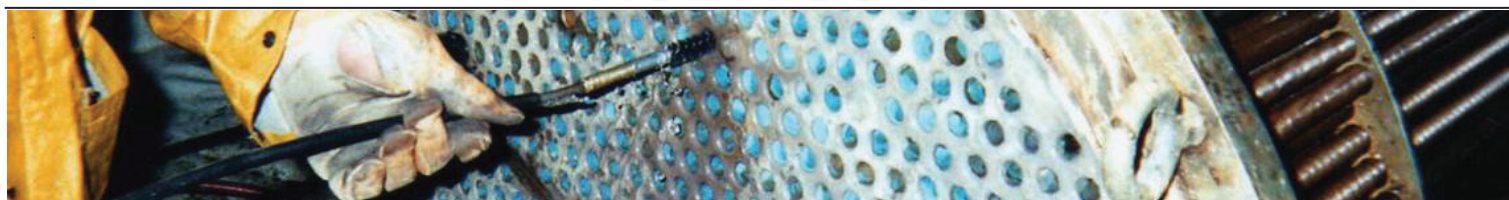


Flexible Shaft Speed	1725 RPM
Motor Power (50 Hz) Motor Available	1/3 HP, 6 Amps, 60 Hz, 115 Volts
Input Water	Garden Hose
Unit Dimensions	17"L x 11"W x 9"H
Unit Weight (Excluding Shafts)	40 Lbs
Overall Shipping Dimensions	23"L x 12"W x 11"H
Overall Shipping Weight (Excluding Shafts)	44 Lbs

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ROBINSON



ROBINSON FLEXIBLE SHAFTS

Important: When ordering flexible shafts and accessories: Please note that each item is specified for a particular tube size or size range. Determine tube I.D.(s) and length of longest tubes. Order flexible shaft(s) to correspond with I.D.(s) and lengths (Consult JOHN R. ROBINSON, INC. for custom length shafts). Common stock sizes and part numbers listed below.

ROBINSON Flexible Shafts can be used with other manufactures machines.

Part Number	Core O.D. (inches)	Core O.D. (mm)	Casing O.D. (inches)	Casing O.D. (mm)	Tool End Thread
JRRFS701	1/8"	3.2	1/4"	6.4	8-32 Female
JRRFS702	1/4"	6.4	3/8"	9.5	
JRRFS703	5/16"	7.9	1/2"	12.7	1/4-28 Female
JRRFS704	3/8"	9.5	9/16"	14.3	

Part Number	Shaft Length (Ft.)	Shaft Dia. (In.)	For Tube I.D.'s (In.)
JRRFS701-15	15	1/4	1/4 – 3/8
JRRFS701-25	25	1/4	1/4 – 3/8
JRRFS702-12	12	3/8	7/16 – 1/2
JRRFS702-15	15	3/8	7/16 – 1/2
JRRFS702-25	25	3/8	7/16 – 1/2
JRRFS702-35	35	3/8	7/16 – 1/2
JRRFS702-45	45	3/8	7/16 – 1/2
JRRFS702-60	60	3/8	7/16 – 1/2
JRRFS703-12	12	1/2	9/16 – 1
JRRFS703-15	15	1/2	9/16 – 1
JRRFS703-25	25	1/2	9/16 – 1
JRRFS703-35	35	1/2	9/16 – 1
JRRFS703-45	45	1/2	9/16 – 1
JRRFS703-60	60	1/2	9/16 – 1
JRRFS704-25	25	9/16	5/8 – 1
JRRFS704-35	35	9/16	5/8 – 1
JRRFS704-45	45	9/16	5/8 – 1
JRRFS704-60	60	9/16	5/8 – 1



JRRCT CRIMPING TOOL

Repairs Flexible Shafts
in the field.



JRRSL05 SHAFT LUBRICATOR

Lubricates Shafts prior
to storage



SL16 LUBRICANT
comes in 16 OZ. bottles

FLEXIBLE SHAFT REPAIR KITS

- Kit s Include:
- 4 Drive End Couplings
- 4 Tool End Couplings
- 4 Washers
- 1 Crimping Tool with Punch
- 1 Flexible Shaft Lubricator
- 2 Bottles of Lubricant (16 OZ)

KITS

- RKFS701KIT** for JRRFS701 Shafts
- RKFS702KIT** for JRRFS702 Shafts
- RKFS703KIT** for JRRFS703 Shafts
- RKFS704KIT** for JRRFS704 Shafts

REPAIR COUPLINGS

FLEXIBLE SHAFT TOOL END REPAIR COUPLINGS

- TE17-1 Tool End coupling for JRRFS701 Shafts
- TE17-2 Tool End Coupling for JRRFS702 Shafts
- TE17-3 Tool End Coupling for JRRFS703 Shafts
- TE17-4 Tool End Coupling for JRRFS704 Shafts



REPAIR COUPLINGS

FLEXIBLE SHAFT DRIVE END REPAIR COUPLINGS

- DE13-1 Drive End Coupling for JRRFS701 Shafts
- DE13-2 Drive End Coupling for JRRFS702 Shafts
- DE13-3 Drive End Coupling for JRRFS703 Shafts
- DE13-4 Drive End Coupling for JRRFS704 Shafts



JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

Toll Free: 1-800-726-1026 Tel: 718-786-6088 www.johnrrobinsoninc.com Email: jrrinc@earthlink.net

ROBINSON

CLEANING BRUSHES FOR SHAFTS

JRRB211N ROBINSON NYLON BRUSH

Recommended for removing soft deposits such as mud, silt, and algae in straight, non-ferrous tubes (Copper, Brass, Plastic, etc.). Brush should be equal to or 1/16" smaller than the tube ID. Sizes listed are actual OD of brushes. Available in blue or black nylon. Other colors upon request.

8-32 Male Thread: 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm)

1/4"- 28 Male Thread: 7/16" (11.1mm), 1/2" (12.7mm), 9/16" (14.3mm), 5/8" (15.9mm), 11/16" (17.5mm), 3/4" (19.1mm), 13/16" (20.6mm), 7/8" (22.2mm), 15/16" (23.8mm), 1" (25.4mm)

JRRB200B ROBINSON BRASS BRUSH

Recommended for removing soft and light scale deposits in straight, non-ferrous tubes. Sizes shown are actual O.D. of brush.

8-32 Male Thread: 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm)

1/4"- 28 Male Thread: 7/16" (11.1mm), 1/2" (12.7mm), 9/16" (14.3mm), 5/8" (15.9mm), 11/16" (17.5mm), 3/4" (19.1mm), 13/16" (20.6mm), 7/8" (22.2mm), 15/16" (23.8mm), 1" (25.4mm)

JRRB210SS ROBINSON STAINLESS STEEL BRUSH

Recommended for removing soft and light scale deposits in ferrous tubes (Carbon Steel, Stainless Steel, etc). Sizes shown are actual O.D. of brush.

8-32 Male Thread: 1/4" (6.4mm), 5/16" (7.9mm), 3/8" (9.5mm)

1/4"- 28 Male Thread: 7/16" (11.1mm), 1/2" (12.7mm), 9/16" (14.3mm), 5/8" (15.9mm), 11/16" (17.5mm), 3/4" (19.1mm), 13/16" (20.6mm), 7/8" (22.2mm), 15/16" (23.8mm), 1" (25.4mm)

JRRBSG ROBINSON SPIN GRIT BRUSH

Recommended for removing soft and light scale deposits in straight, ferrous and non-ferrous tubes. This brush's abrasive impregnated nylon bristles clean and polish tubes in one step. Unlike regular spiral brushes the Spin-Grit brush is designed to be oversized in the tube so the bristles lay over, putting the brush in contact with the tube wall. Breaking shafts or too much brush? [TRY OUR NEW SIZES](#)

JRRBSG50 1/2" DIA for 1/4"-3/8" tubes

JRRBSG375 3/8" DIA

JRRBSG562 9/16" DIA for HVAC tubes

JRRBSG625 5/8" DIA

JRRBSG750 3/4" DIA for 7/16"-5/8" tubes

JRRBSG687 11/16" DIA

JRRBSG1000 1" DIA for 11/16"-3/4" tubes

JRRBSG875 7/8" DIA

JRRBSG125 1-1/4" DIA for 13/16"-1" tubes

JRRBSG1125 1-1/8" DIA

JRRBTSG ROBINSON DUAL DIAMETER SPIN GRIT BRUSH

Recommended for removing soft and light scale deposits in straight enhanced condenser tubes. The smaller diameter stands stiff and cleans the grooves. The longer bristles lay flat to clean. The large areas between the grooves. The small diameter of the brush should match the tube diameter.

Part Number	Small End	Large End
JRRBTSG500	1/2" (12.7mm)	3/4" (19.1mm)
JRRBTSG625	5/8" (15.9mm)	1" (25.4mm)
JRRBTSG750	3/4" (19.1mm)	1-1/8" (28.6mm)
JRRBTSG1000	1" (25.4mm)	1-3/8" (34.9mm)

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ROBINSON



JRRABT ADJUSTABLE CUTTING & BUFFING TOOL

Recommended for removing light and medium scale deposits in straight, ferrous and non-ferrous tubes. The tool adjusts to fit specific ID's or for gradual cutting away of harder deposits. Can also be used for polishing tubes after removal of deposits.

Part Number	Adjustable Range	Thread	Replacement Blades
JRRABT203	5/16" - 3/8" (7.9 - 9.5mm)	8-32 Male	JRR-RB207
JRRABT204	3/8" - 1/2" (9.5 - 12.7mm)	8-32 Male	JRR-RB207
JRRABT205	1/2" - 5/8" (12.7 - 15.9mm)	1/4-28 Male	JRR-RB208
JRRABT206	5/8" - 1" (15.9 - 25.4mm)	1/4-28 Male	JRR-RB209
JRRABT13	1" - 3" (25.4 - 76.2mm)	1/4-28 Male	JRR-RB10



JRRABT-DT ADJUSTABLE CUTTING & BUFFING TOOL W/DRILL TIP

Part Number	Adjustable Range	Thread	Replacement Blades
JRRABT203DT	5/16" - 3/8" (7.9 - 9.5mm)	8-32 Male	JRR-RB207
JRRABT204DT	3/8" - 1/2" (9.5 - 12.7mm)	8-32 Male	JRR-RB207
JRRABT205DT	1/2" - 5/8" (12.7 - 15.9mm)	1/4-28 Male	JRR-RB208
JRRABT206DT	5/8" - 1" (15.9 - 25.4mm)	1/4-28 Male	JRR-RB209
JRRABT13DT	1" - 3" (25.4 - 76.2mm)	1/4-28 Male	JRR-RB10



JRRFH ABRASIVE TOOL

Recommended for cleaning straight, ferrous tubes. The abrasive tool is made up of silicone carbide balls that allow the tool to clean, de-burr, and polish the inside of tubes. This tool has a 1/4-28 male thread. OD of brush should correspond with the tube ID.

JRRFH500	1/2"	12.7mm	JRRFH750	3/4"	19.1mm
JRRFH562	9/16"	14.3mm	JRRFH875	7/8"	22.2mm
JRRFH625	5/8"	15.9mm	JRRFH1000	1"	25.4mm
JRRFH687	11/16"	17.5mm			



JRRHSD ROBINSON HIGH SPEED DRILL

Recommended for use on medium to hard scale when the ID of a tube is heavily choked with deposits. 3 fluted steel drill with 1/4-28 male thread. Sizes listed below are actual drill diameters.

JRRHSD38	3/8" Body Diameter
JRRHSD716	7/16" Body Diameter
JRRHSD12	1/2" Body Diameter
JRRHSD58	5/8" Body Diameter

NEW!



JRRCB ROBINSON COTTON BRUSH

Recommended for tubes containing dust, oil. Other sizes available upon request.

JRRCB38	3/8" OD brush with 8-32 MT
JRRCB913	9/16" OD brush with 1/4 - 28 MT
JRRCB58	5/8" OD brush with 1/4 - 28 MT
JRRCB34	3/4" OD brush with 1/4 - 28 MT

NEW!

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FOAM

METHOD OF CONDENSER LEAK DETECTION

THE FOAM METHOD OF LEAK DETECTION

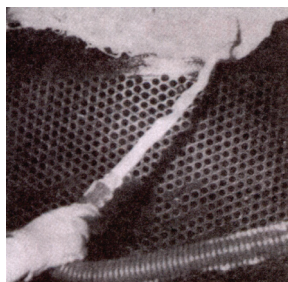
The Model 1-965-42 FOAM GENERATOR and FORMULA #65 FOAMING AGENT were originally designed to meet the needs of Utility Companies in the testing of their condensers for leakage. Wherever the use of Foam is applicable, the Model 1-965-42 FOAM GENERATORS and FOAMING AGENT FORMULA #65 are the answer to high volume, low cost, portable foam production.

We recommend using two foam generators. One on each end of the condenser this will reduce the chance of missing leaks as well as mismatching plugs.

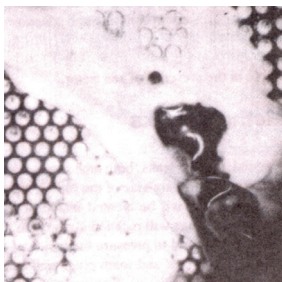
FOAMING AGENT

The Foaming Agent is of the highest quality, is perfectly safe, is designed for strong film strength and will foam in the presence of sea water. The foam generation method used provides a dry foam with equal distribution of the active materials throughout the entire foam-film.

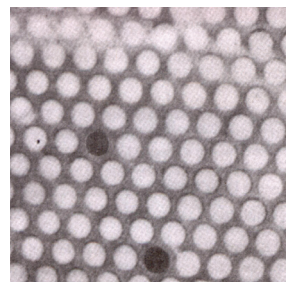
Shown below are some "on site" photos of "foam testing" a 200 MW condenser at a large Eastern Utility.



Tube sheets are sudsed in a few minutes. Suds are fed continuously from the 1-1/2" delivery hose.



Suds are smoothed out by operator and the entire tube ends are plugged as illustrated.



As the vacuum on the steam side causes the suds to recede into the leaking tube, two tubes show up as leakers.

SPECIFICATIONS:

The Model No. 1-965-42 (illustrated), 42 gallon tank capacity – 20 gallons of liquid, requires one gallon of Foaming Agent when charging. The 42 gallon model is for use on condensers over 50 MW capacity where large amounts of foam are required.

Model No. 1-965-42, consists of a heavily constructed glass-lined tank, which stores the liquid. It is fitted with a stainless steel agitating jet, level-valve, and drain valve. A separation and control tank unit is mounted at the tank's outlet connection. This unit is fitted with a separating baffle, pressure-gauge, safety-valve, fill connection control delivery hose, and remote-operated control-valve and air-regulator. All fittings are of high quality brass. The entire assembly is mounted on a sturdy dolly provided with large wheels for ease of mobility.

NOTE: All units operate with air pressure from 150 psig to 75 psig. Air consumption is not excessive as the 5/32" jet only requires 35 psig. All units are designed to operate at between 2-3 psig, for best results.

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ROBINSON

EXPERIENCE THE USE OF FOAM FOR CONDENSER LEAK DETECTION

Today's high temperature, high pressure steam generator requires water of the highest possible purity. One source of contamination has been and continues to be leaks from the condenser. Obviously condenser leakage should be held at a minimum and whenever leaks do develop they should be quickly located and plugged. Unfortunately leak detection on condensers has always been costly and time-consuming.

THE FOAM TESTING METHOD is far superior in sensitivity and time required than any of the methods mentioned. For example, both halves of a 200 MW condenser are effectively tested on-line or off-line in less than 3 hours.



Foam Generator Model 1-965-42

FOAM TESTING DEVELOPMENT

Foam testing of condensers was developed as it was necessary to find the means to produce a satisfactory foam quickly, in large quantities, and at a reasonable cost. The foam agent must have the following qualities:

- Must be absolutely safe to use, harmless to humans, animal life, marine life, fabrics and metals.
- Must have the ability to produce a stable dense foam of high film strength with excellent cohesive and adhesive properties.
- Must be stable in the presence of sea water.

HOW THE METHOD WORKS

When testing a condenser for leaks, both tube sheets are sealed with foam. When the steam side of the tube is exposed to vacuum, a vacuum will be created inside of a leaking tube and the foam will recede into the tube. When the steam side is exposed to pressure the inside of the tube will become pressurized and foam will be forced out.

PROCEDURE, CONDENSER LEAK TESTING, UNIT IN SERVICE ONE-HALF CONDENSER OUT OF SERVICE

- With an air hose, thoroughly blow water from tubes and tube sheets; this minimizes foam dilution.
- Foam both tube sheets generously, forcing the foam into the tubes. Brush down sheets using a soft broom or a rubber squeegee. Next, apply a second foam coating, directing the foam toward the tip of the sheet, allowing it to flow over the entire sheet. Brush sheets from top to bottom and observe for leaks.
- When a leak is detected, jet the tube with air to identify it to the worker at the other end. Place temporary plugs in each end of the tube. A vacuum will be observed when plugs withdraw. The leaking tube may be verified by plugging one end and inserting a sensitive water manometer (gauge) into the other end.

FORMULA #65 FOAM AGENT

Specially formulated to produce long lasting stable Foam, with excellent adhesive and cohesive properties, it is absolutely safe to use, harmless to Humans, Animals, Packings, Fabrics, Metals and Metal Alloys. Will foam with fresh or salt water. One gallon of foaming agent combined with 20 gallons of water produces over 175 cubic feet of foam. Foam may be used in all sorts of leak detection, such as:

- Large Industrial Castings • Tanks • Heat Exchangers • Piping Systems • Atomic Reactor Vessels •

1-965-42 Foam Generator, 25' Foam, 25' Air hose* (We recommend one on each end of the condenser.)

#65 Foam Agent, packed 4 gallons per case. 12 gallon minimum order

*50' hoses available upon request

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ROBINSON

VLD3 VACUUM LEAK DETECTOR



The VLD3 Vacuum Leak Detector is a simple, quick, and accurate test for finding leaking tubes. The instrument is currently used by manufacturers and repairmen of condensers, heat exchangers, and any other tubular apparatus.

HOW IT WORKS

Seal the far end of each tube with a rubber tube plug. Push the rubber nozzle into the near end of the tube and press the trigger. Compressed air flows through a chamber on the leak detector creating a vacuum in the tube. When the vacuum reaches a specified level, if the tube does not hold a vacuum, the tube is defective. Using approximately 90 PSI of dry, clean air, a typical tube (1" OD x 20 GA x 20' long) can be tested in less than 10 seconds. Vacuum Test 15" – 18" Hg. @ 90 PSI

This VLD3 tester is suitable for use in all instances where a vacuum supply of 18" Hg or less is required. The tool operates on an air supply of 70-140 PSI. optimum is 90 PSI. Leaks are detected by a drop in vacuum as shown by the gauge. Large leaks will show up as larger decreases in vacuum.

VLD3 Tube Leak Detector Consists of: (VLD3)

VLD3 Leak Detector, Vacuum Gauge, Filter, Nozzle, 12" Extension, 6 Snap Plugs, 20 Tapered Rubber Plugs, and a Carrying Case.

NEW!

VLD3K Tube Leak Detector Kit Consists of: (VLD3K)

VLD3 Leak Detector, Vacuum Gauge, Filter, Nozzle, 12" Extension, T-Handle with Plug, 3 Additional Sized T-Handle Plugs, 3 Additional Sized Nozzles, 6 Snap Plugs, 250 Tapered Rubber Plugs, and Carrying Case

Additional Nozzles Available:

VLDN14118 Nozzle for 1/4" to 1-1/8" Tubes
VLDN58114 Nozzle for 5/8" to 1-1/4" Tubes
VLDN1182 Nozzle for 1-1/8" to 2" Tubes
VLDN23 Nozzle for 2" to 3" Tubes

Additional T-Handle Plugs Available:

VLDNWOH1434 Plug for 1/4" to 3/4" Tubes
VLDNWOH58114 Plug for 5/8" to 1-1/4" Tubes
VLDNWOH1182 Plug for 1-1/8" to 2" Tubes
VLDNWOH23 Plug for 2" to 3" Tubes

VLD-TEE Replacement T-Handle
VLD-VG#17 Replacement Vacuum Gauge
VLD3-#12 Replacement Damper

Replacement filter and other spare parts available. Refer to spec sheet or inquire when ordering.

SNAP PLUG



TAPERED RUBBER PLUG



Part No.	Tube I.D.
JRRT1238	3/8"
JRRT12716	7/16"
JRRT12	1/2"
JRRT12916	9/16"
JRRT1258	5/8"
JRRT121116	11/16"
JRRT1234	3/4"
JRRT121316	13/16"
JRRT1278	7/8"
JRRT121516	15/16"
JRRT123132	31/32"
JRRT121	1"
JRRT12118	1-1/8"
JRRT12114	1-1/4"
JRRT12138	1-3/8"
JRRT12112	1-1/2"
JRRT12158	1-5/8"
JRRT12134	1-3/4"
JRRT12178	1-7/8"
JRRT122	2"

Part No.	Top DIA.	Bottom DIA	Length
R 0001	0.187	0.062	1"
R 0002	0.250	0.125	1"
R 0003	0.343	0.187	1"
R 0004	0.437	0.250	1"
R 000	0.500	0.312	1"
R 00	0.562	0.375	1"
R 0	0.687	0.500	1"
R 1	0.750	0.562	1"
R 2	0.812	0.625	1"
R 3	0.937	0.687	1"
R 4	1.000	0.781	1"
R 5	1.062	0.875	1"
R 55	1.125	0.937	1"
R 6	1.250	1.000	1"
R 66	1.343	1.062	1"
R 7	1.437	1.187	1"
R 8	1.625	1.312	1"
R 88	1.687	1.406	1"
R 9	1.750	1.437	1"
R 99	1.812	1.500	1"
R 10	1.937	1.625	1"
R 1010	2.062	1.750	1"
R 11	2.187	1.875	1"
R 1111	2.468	1.937	1"
R 12	2.500	2.125	1"
R 13	2.656	2.250	1"
R 1313	2.937	2.406	1.375"
R 14	3.500	2.937	1.500"
R 15	4.000	3.250	1.500"

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ROBINSON



PROKIT 30 PACKING TOOLS

The PROKIT 30 is a complete line of packing tools to handle all your packing maintenance; with flex and rigid holders, removable tips, corkscrews, woodscrews for hardened packing brushes, and pullers. Picks over 30 tools.

Comes complete with tool box.



ARCH PUNCHES

Sizes range from 1/4" to 4". Sold individually or in sets.

R14-1 7 piece set 1/4" – 1"

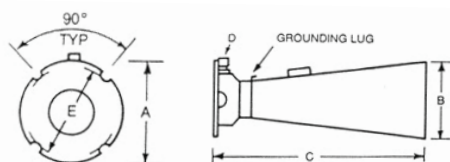
R14-34 7 piece set 1/4" – 3/4"

R116-134 5 piece set 1-1/16" – 1-3/4"

AIR HORNS

Galvanized construction for long life. Keeps mechanics comfortable while working in condenser water boxes.

5 models available to meet your needs. –RENTALS AVAILABLE–



MODEL (PART NO.)	A	B	C	AIR INLET	MOUNTING FACE			
				D	E	NO.	WIDTH	WEIGHT
MODEL 3P	8"	6"	17"	1/2" NPTF	7.25"	4	.63"	7 lbs
MODEL 3P	8"	8"	36"	1/2" NPTF	7.25"	4	.63"	9 lbs
MODEL 6	11.5"	12"	45"	1" NPTF	10.75"	4	.63"	26 lbs
MODEL 8	14.5"	14"	48"	1" NPTF	13.5"	4	.63"	38 lbs
MODEL 10	17.5"	15.75"	48"	1" NPTF	15.5"	6	.63"	42 lbs

ZINC ANODE PLUG

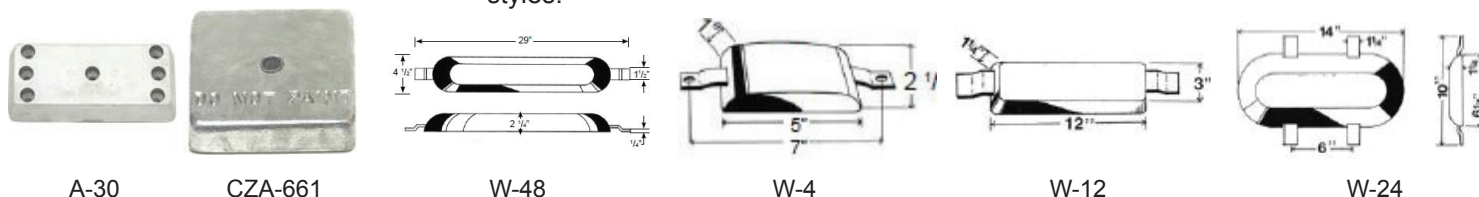


ZAP14x	1/4" NPT	3" or 6" long zinc
ZAP38x	3/8" NPT	3" or 6" long zinc
ZAP12x	1/2" NPT	3" or 6" long zinc
ZAP34x	3/4" NPT	3-1/2" or 7" long zinc
ZAP1x	1/4" NPT	4", 6", 8", 12", or 14" long zinc

x denotes the length of the zinc

ZINC PLATES AND LARGE ZINC ANODES

Contact us for zinc anode sizing & specifications. Contact us for other sizes and styles.



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ROBINSON

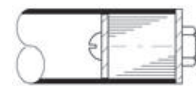
ROBINSON CONDENSER TUBE PLUGS

How to Use **ROBINSON** Condenser Tube Plugs

To insert a **ROBINSON** Condenser Tube Plug use a **ROBINSON** Inside Setting Tool, this is a 7/16" Hex with depth gauge. For the best seal insert plugs into clean, dry tubes.

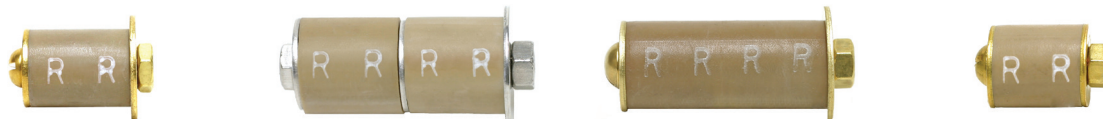
1. Tighten nut until plug is over expanded to a diameter too large to slip into the tube.
 2. Place plug in tube end.
 3. Turn nut counter-clockwise, allowing plug to become smaller in diameter, while pushing plug flush to the end of tube or until depth gauge touches.
 4. Reverse nut by turning clockwise to tighten plug and to secure in condenser tube.
 5. This plug cannot be inserted with a flat blade screwdriver. Nut must be on the outside
- Plug hardware is recommended to match the tube material and comes in brass, bronze, stainless steel, titanium, or monel. Other materials are available upon request and specification.

OUTSIDE TUBE PLUG



INSIDE TUBE PLUG

SETTING TOOL



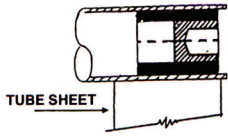
O.D. (mm)	GAUGE	I.D.	JRRT1		JRRT2		JRRT3		JRRT4	
			Brass	Stainless Steel	Brass	Stainless Steel	Brass	Stainless Steel	Brass	Stainless Steel
5/8" (15.8)	16	.495	JRRT1B5816	JRRT1SS5816	JRRT2B5816	JRRT2SS5816	JRRT3B5816	JRRT3SS5816	JRRT4B5816	JRRT4SS5816
	17	.509	JRRT1B5817	JRRT1SS5817	JRRT2B5817	JRRT2SS5817	JRRT3B5817	JRRT3SS5817	JRRT4B5817	JRRT4SS5817
	18	.527	JRRT1B5818	JRRT1SS5818	JRRT2B5818	JRRT2SS5818	JRRT3B5818	JRRT3SS5818	JRRT4B5818	JRRT4SS5818
	19	.541	JRRT1B5819	JRRT1SS5819	JRRT2B5819	JRRT2SS5819	JRRT3B5819	JRRT3SS5819	JRRT4B5819	JRRT4SS5819
	20	.555	JRRT1B5820	JRRT1SS5820	JRRT2B5820	JRRT2SS5820	JRRT3B5820	JRRT3SS5820	JRRT4B5820	JRRT4SS5820
	21	.561	JRRT1B5821	JRRT1SS5821	JRRT2B5821	JRRT2SS5821	JRRT3B5821	JRRT3SS5821	JRRT4B5821	JRRT4SS5821
	22	.569	JRRT1B5822	JRRT1SS5822	JRRT2B5822	JRRT2SS5822	JRRT3B5822	JRRT3SS5822	JRRT4B5822	JRRT4SS5822
3/4" (19.0)	16	.620	JRRT1B3416	JRRT1SS3416	JRRT2B3416	JRRT2SS3416	JRRT3B3416	JRRT3SS3416	JRRT4B3416	JRRT4SS3416
	17	.634	JRRT1B3417	JRRT1SS3417	JRRT2B3417	JRRT2SS3417	JRRT3B3417	JRRT3SS3417	JRRT4B3417	JRRT4SS3417
	18	.652	JRRT1B3418	JRRT1SS3418	JRRT2B3418	JRRT2SS3418	JRRT3B3418	JRRT3SS3418	JRRT4B3418	JRRT4SS3418
	19	.666	JRRT1B3419	JRRT1SS3419	JRRT2B3419	JRRT2SS3419	JRRT3B3419	JRRT3SS3419	JRRT4B3419	JRRT4SS3419
	20	.680	JRRT1B3420	JRRT1SS3420	JRRT2B3420	JRRT2SS3420	JRRT3B3420	JRRT3SS3420	JRRT4B3420	JRRT4SS3420
	21	.686	JRRT1B3421	JRRT1SS3421	JRRT2B3421	JRRT2SS3421	JRRT3B3421	JRRT3SS3421	JRRT4B3421	JRRT4SS3421
	22	.694	JRRT1B3422	JRRT1SS3422	JRRT2B3422	JRRT2SS3422	JRRT3B3422	JRRT3SS3422	JRRT4B3422	JRRT4SS3422
7/8" (22.2)	16	.745	JRRT1B7816	JRRT1SS7816	JRRT2B7816	JRRT2SS7816	JRRT3B7816	JRRT3SS7816	JRRT4B7816	JRRT4SS7816
	17	.759	JRRT1B7817	JRRT1SS7817	JRRT2B7817	JRRT2SS7817	JRRT3B7817	JRRT3SS7817	JRRT4B7817	JRRT4SS7817
	18	.777	JRRT1B7818	JRRT1SS7818	JRRT2B7818	JRRT2SS7818	JRRT3B7818	JRRT3SS7818	JRRT4B7818	JRRT4SS7818
	19	.791	JRRT1B7819	JRRT1SS7819	JRRT2B7819	JRRT2SS7819	JRRT3B7819	JRRT3SS7819	JRRT4B7819	JRRT4SS7819
	20	.805	JRRT1B7820	JRRT1SS7820	JRRT2B7820	JRRT2SS7820	JRRT3B7820	JRRT3SS7820	JRRT4B7820	JRRT4SS7820
	21	.811	JRRT1B7821	JRRT1SS7821	JRRT2B7821	JRRT2SS7821	JRRT3B7821	JRRT3SS7821	JRRT4B7821	JRRT4SS7821
	22	.819	JRRT1B7822	JRRT1SS7822	JRRT2B7822	JRRT2SS7822	JRRT3B7822	JRRT3SS7822	JRRT4B7822	JRRT4SS7822
1" (25.4)	16	.870	JRRT1B116	JRRT1SS116	JRRT2B116	JRRT2SS116	JRRT3B116	JRRT3SS116	JRRT4B116	JRRT4SS116
	17	.884	JRRT1B117	JRRT1SS117	JRRT2B117	JRRT2SS117	JRRT3B117	JRRT3SS117	JRRT4B117	JRRT4SS117
	18	.902	JRRT1B118	JRRT1SS118	JRRT2B118	JRRT2SS118	JRRT3B118	JRRT3SS118	JRRT4B118	JRRT4SS118
	19	.916	JRRT1B119	JRRT1SS119	JRRT2B119	JRRT2SS119	JRRT3B119	JRRT3SS119	JRRT4B119	JRRT4SS119
	20	.930	JRRT1B120	JRRT1SS120	JRRT2B120	JRRT2SS120	JRRT3B120	JRRT3SS120	JRRT4B120	JRRT4SS120
	21	.936	JRRT1B121	JRRT1SS121	JRRT2B121	JRRT2SS121	JRRT3B121	JRRT3SS121	JRRT4B121	JRRT4SS121
	22	.944	JRRT1B122	JRRT1SS122	JRRT2B122	JRRT2SS122	JRRT3B122	JRRT3SS122	JRRT4B122	JRRT4SS122
1-1/8" (28.5)	16	.995	JRRT1B11816	JRRT1SS11816	JRRT2B11816	JRRT2SS11816	JRRT3B11816	JRRT3SS11816	JRRT4B11816	JRRT4SS11816
	17	1.009	JRRT1B11817	JRRT1SS11817	JRRT2B11817	JRRT2SS11817	JRRT3B11817	JRRT3SS11817	JRRT4B11817	JRRT4SS11817
	18	1.027	JRRT1B11718	JRRT1SS11718	JRRT2B11718	JRRT2SS11718	JRRT3B11718	JRRT3SS11718	JRRT4B11718	JRRT4SS11718
	19	1.041	JRRT1B11819	JRRT1SS11819	JRRT2B11819	JRRT2SS11819	JRRT3B11819	JRRT3SS11819	JRRT4B11819	JRRT4SS11819
	20	1.055	JRRT1B11820	JRRT1SS11820	JRRT2B11820	JRRT2SS11820	JRRT3B11820	JRRT3SS11820	JRRT4B11820	JRRT4SS11820
	21	1.061	JRRT1B11821	JRRT1SS11821	JRRT2B11821	JRRT2SS11821	JRRT3B11821	JRRT3SS11821	JRRT4B11821	JRRT4SS11821
	22	1.069	JRRT1B11822	JRRT1SS11822	JRRT2B11822	JRRT2SS11822	JRRT3B11822	JRRT3SS11822	JRRT4B11822	JRRT4SS11822
1-1/4" (31.7)	16	1.120	JRRT1B11416	JRRT1SS11416	JRRT2B11416	JRRT2SS11416	JRRT3B11416	JRRT3SS11416	JRRT4B11416	JRRT4SS11416
	17	1.134	JRRT1B11417	JRRT1SS11417	JRRT2B11417	JRRT2SS11417	JRRT3B11417	JRRT3SS11417	JRRT4B11417	JRRT4SS11417
	18	1.152	JRRT1B11418	JRRT1SS11418	JRRT2B11418	JRRT2SS11418	JRRT3B11418	JRRT3SS11418	JRRT4B11418	JRRT4SS11418
	19	1.166	JRRT1B11419	JRRT1SS11419	JRRT2B11419	JRRT2SS11419	JRRT3B11419	JRRT3SS11419	JRRT4B11419	JRRT4SS11419
	20	1.180	JRRT1B11420	JRRT1SS11420	JRRT2B11420	JRRT2SS11420	JRRT3B11420	JRRT3SS11420	JRRT4B11420	JRRT4SS11420
	21	1.186	JRRT1B11421	JRRT1SS11421	JRRT2B11421	JRRT2SS11421	JRRT3B11421	JRRT3SS11421	JRRT4B11421	JRRT4SS11421
	22	1.194	JRRT1B11422	JRRT1SS11422	JRRT2B11422	JRRT2SS11422	JRRT3B11422	JRRT3SS11422	JRRT4B11422	JRRT4SS11422

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

ROBINSON CONDENSER TUBE PLUGS



JRRT13FB FIBRE WITH BRASS INSERT PLUG

Drive plug into position using round stock such as a wooden dowel slightly smaller than the tube I.D.. This will ensure that the fiber and brass are driven in together sealing the tube. Do not drive the brass insert alone. Only minimal force is required. For best seal insert plugs into clean dry tubes



O.D. (mm)	GAUGE	I.D.	JRRT5		JRRT6		JRRT13FB	JRRT14	JRRT29
			Brass	Stainless Steel	Brass	Stainless Steel	Fibre with Brass	Silicone Seal	Silicone Seal
5/8" (15.8)	16	.495	JRRT5B5816	JRRT5SS5816	JRRT6B5816	JRRT6SS5816	JRRT13FB5816	JRRT145816	JRRT295816
	17	.509	JRRT5B5817	JRRT5SS5817	JRRT6B5817	JRRT6SS5817	JRRT13FB5817	JRRT145817	JRRT295817
	18	.527	JRRT5B5818	JRRT5SS5818	JRRT6B5818	JRRT6SS5818	JRRT13FB5818	JRRT145818	JRRT295818
	19	.541	JRRT5B5819	JRRT5SS5819	JRRT6B5819	JRRT6SS5819	JRRT13FB5819	JRRT145819	JRRT295819
	20	.555	JRRT5B5820	JRRT5SS5820	JRRT6B5820	JRRT6SS5820	JRRT13FB5820	JRRT145820	JRRT295820
	21	.561	JRRT5B5821	JRRT5SS5821	JRRT6B5821	JRRT6SS5821	JRRT13FB5821	JRRT145821	JRRT295821
	22	.569	JRRT5B5822	JRRT5SS5822	JRRT6B5822	JRRT6SS5822	JRRT13FB5822	JRRT145822	JRRT295822
3/4" (19.0)	16	.620	JRRT5B3416	JRRT5SS3416	JRRT6B3416	JRRT6SS3416	JRRT13FB3416	JRRT143416	JRRT293416
	17	.634	JRRT5B3417	JRRT5SS3417	JRRT6B3417	JRRT6SS3417	JRRT13FB3417	JRRT143417	JRRT293417
	18	.652	JRRT5B3418	JRRT5SS3418	JRRT6B3418	JRRT6SS3418	JRRT13FB3418	JRRT143418	JRRT293418
	19	.666	JRRT5B3419	JRRT5SS3419	JRRT6B3419	JRRT6SS3419	JRRT13FB3419	JRRT143419	JRRT293419
	20	.680	JRRT5B3420	JRRT5SS3420	JRRT6B3420	JRRT6SS3420	JRRT13FB3420	JRRT143420	JRRT293420
	21	.686	JRRT5B3421	JRRT5SS3421	JRRT6B3421	JRRT6SS3421	JRRT13FB3421	JRRT143421	JRRT293421
	22	.694	JRRT5B3522	JRRT5SS3522	JRRT6B3522	JRRT6SS3522	JRRT13FB3522	JRRT143522	JRRT293522
7/8" (22.2)	16	.745	JRRT5B7816	JRRT5SS7816	JRRT6B7816	JRRT6SS7816	JRRT13FB7816	JRRT147816	JRRT297816
	17	.759	JRRT5B7817	JRRT5SS7817	JRRT6B7817	JRRT6SS7817	JRRT13FB7817	JRRT147817	JRRT297817
	18	.777	JRRT5B7818	JRRT5SS7818	JRRT6B7818	JRRT6SS7818	JRRT13FB7818	JRRT147818	JRRT297818
	19	.791	JRRT5B7819	JRRT5SS7819	JRRT6B7819	JRRT6SS7819	JRRT13FB7819	JRRT147819	JRRT297819
	20	.805	JRRT5B7820	JRRT5SS7820	JRRT6B7820	JRRT6SS7820	JRRT13FB7820	JRRT147820	JRRT297820
	21	.811	JRRT5B7821	JRRT5SS7821	JRRT6B7821	JRRT6SS7821	JRRT13FB7821	JRRT147821	JRRT297821
	22	.819	JRRT5B7822	JRRT5SS7822	JRRT6B7822	JRRT6SS7822	JRRT13FB7822	JRRT147822	JRRT297822
1" (25.4)	16	.870	JRRT5B116	JRRT5SS116	JRRT6B116	JRRT6SS116	JRRT13FB116	JRRT14116	JRRT29116
	17	.884	JRRT5B117	JRRT5SS117	JRRT6B117	JRRT6SS117	JRRT13FB117	JRRT14117	JRRT29117
	18	.902	JRRT5B118	JRRT5SS118	JRRT6B118	JRRT6SS118	JRRT13FB118	JRRT14118	JRRT29118
	19	.916	JRRT5B119	JRRT5SS119	JRRT6B119	JRRT6SS119	JRRT13FB119	JRRT14119	JRRT29119
	20	.930	JRRT5B120	JRRT5SS120	JRRT6B120	JRRT6SS120	JRRT13FB120	JRRT14120	JRRT29120
	21	.936	JRRT5B121	JRRT5SS121	JRRT6B121	JRRT6SS121	JRRT13FB121	JRRT14121	JRRT29121
	22	.944	JRRT5B122	JRRT5SS122	JRRT6B122	JRRT6SS122	JRRT13FB122	JRRT14122	JRRT29122
1-1/8" (28.5)	16	.995	JRRT5B11816	JRRT5SS11816	JRRT6B11816	JRRT6SS11816	JRRT13FB11816	JRRT1411816	JRRT2911816
	17	1.009	JRRT5B11817	JRRT5SS11817	JRRT6B11817	JRRT6SS11817	JRRT13FB11817	JRRT1411817	JRRT2911817
	18	1.027	JRRT5B11818	JRRT5SS11818	JRRT6B11818	JRRT6SS11818	JRRT13FB11818	JRRT1411818	JRRT2911818
	19	1.041	JRRT5B11819	JRRT5SS11819	JRRT6B11819	JRRT6SS11819	JRRT13FB11819	JRRT1411819	JRRT2911819
	20	1.055	JRRT5B11820	JRRT5SS11820	JRRT6B11820	JRRT6SS11820	JRRT13FB11820	JRRT1411820	JRRT2911820
	21	1.061	JRRT5B11821	JRRT5SS11821	JRRT6B11821	JRRT6SS11821	JRRT13FB11821	JRRT1411821	JRRT2911821
	22	1.069	JRRT5B11822	JRRT5SS11822	JRRT6B11822	JRRT6SS11822	JRRT13FB11822	JRRT1411822	JRRT2911822
1-1/4" (31.7)	16	1.120	JRRT5B11416	JRRT5SS11416	JRRT6B11416	JRRT6SS11416	JRRT13FB11416	JRRT1411416	JRRT2911416
	17	1.134	JRRT5B11417	JRRT5SS11417	JRRT6B11417	JRRT6SS11417	JRRT13FB11417	JRRT1411417	JRRT2911417
	18	1.152	JRRT5B11418	JRRT5SS11418	JRRT6B11418	JRRT6SS11418	JRRT13FB11418	JRRT1411418	JRRT2911418
	19	1.166	JRRT5B11419	JRRT5SS11419	JRRT6B11419	JRRT6SS11419	JRRT13FB11419	JRRT1411419	JRRT2911419
	20	1.180	JRRT5B11420	JRRT5SS11420	JRRT6B11420	JRRT6SS11420	JRRT13FB11420	JRRT1411420	JRRT2911420
	21	1.186	JRRT5B11421	JRRT5SS11421	JRRT6B11421	JRRT6SS11421	JRRT13FB11421	JRRT1411421	JRRT2911421
	22	1.194	JRRT5B11422	JRRT5SS11422	JRRT6B11422	JRRT6SS11422	JRRT13FB11422	JRRT1411422	JRRT2911422

Plug hardware is recommended to match the tube material and comes in brass, stainless steel, bronze (JRRT_BZ_), titanium (JRRT_TI_), or monel (JRRT_M_). Other materials are available upon request and specification.

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

Toll Free: 1-800-726-1026 Tel: 718-786-6088 www.johnrrobinsoninc.com Email: jrrinc@earthlink.net

ROBINSON

ROBINSON RING & PIN TWO PIECE PLUG

JRRT8 & PIN

Ideal for sealing leaking tubes in condensers or heat exchangers. The two piece design has more sealing area and can be used to plug tube sheet holes with minimal or no damage to the tube sheet. Please be sure to place the correct size plug in the tube, and keep in mind that the tube plug and the tube metal should always match.

Order tube plugs by tube Outer Diameter and Gauge or Inside Diameter of tube, and tube metal.

AVAILABLE IN: Aluminum, Brass, Steel, Chrome Moly, Monel, Titanium, Stainless Steel 304, 316, 416, Alloy 20, Cupro Nickel 70/30 & 90/10, Hastelloy, Duplex and 800H.

O.D. (MM)	GAUGE	I.D.		BRASS		STEEL	
		DEC	MM	RING	PIN	RING	PIN
5/8" (15.8)	13	.435	11.05	JRRT8B445	3BP	JRRT8S445	3SP
	14	.459	11.66	JRRT8B469	3BP	JRRT8S469	3SP
	15	.481	12.22	JRRT8B488	3BP	JRRT8S488	3SP
	16	.495	12.57	JRRT8B502	4BP	JRRT8S502	4SP
	17	.509	12.93	JRRT8B517	4BP	JRRT8S517	4SP
	18	.527	13.39	JRRT8B532	4BP	JRRT8S532	4SP
	19	.541	13.74	JRRT8B550	4BP	JRRT8S550	4SP
	20	.555	14.10	JRRT8B559	4BP	JRRT8S559	4SP
	21	.561	14.25	JRRT8B564	4BP	JRRT8S564	4SP
3/4" (19.0)	22	.569	14.45	JRRT8B570	4BP	JRRT8S570	4SP
	12	.532	13.51	JRRT8B542	4BP	JRRT8S542	4SP
	13	.560	14.22	JRRT8B570	4BP	JRRT8S570	4SP
	14	.584	14.83	JRRT8B591	5BP	JRRT8S591	5SP
	15	.606	15.39	JRRT8B614	5BP	JRRT8S614	5SP
	16	.620	15.75	JRRT8B630	5BP	JRRT8S630	5SP
	17	.634	16.10	JRRT8B642	5BP	JRRT8S642	5SP
	18	.652	16.56	JRRT8B657	5BP	JRRT8S657	5SP
	19	.666	16.92	JRRT8B672	5BP	JRRT8S672	5SP
7/8" (22.2)	20	.680	17.27	JRRT8B685	5BP	JRRT8S685	5SP
	21	.686	17.42	JRRT8B690	6BP	JRRT8S690	6SP
	22	.694	17.63	JRRT8B695	6BP	JRRT8S695	6SP
	12	.657	16.69	JRRT8B670	5BP	JRRT8S670	5SP
	13	.685	17.40	JRRT8B695	6BP	JRRT8S695	6SP
	14	.709	18.01	JRRT8B719	6BP	JRRT8S719	6SP
	15	.731	18.57	JRRT8B740	6BP	JRRT8S740	6SP
	16	.745	18.92	JRRT8B752	6BP	JRRT8S752	6SP
	17	.759	19.28	JRRT8B765	6BP	JRRT8S765	6SP
1" (25.4)	18	.777	19.74	JRRT8B782	7BP	JRRT8S782	7SP
	19	.791	20.09	JRRT8B793	7BP	JRRT8S793	7SP
	20	.805	20.45	JRRT8B809	7BP	JRRT8S809	7SP
	21	.811	20.60	JRRT8B809	7BP	JRRT8S809	7SP
	22	.819	20.80	JRRT8B820	7BP	JRRT8S820	7SP
	12	.782	19.86	JRRT8B790	7BP	JRRT8S790	7SP
	13	.810	20.57	JRRT8B820	7BP	JRRT8S820	7SP
	14	.834	21.18	JRRT8B844	7BP	JRRT8S844	7SP
	15	.856	21.74	JRRT8B863	7BP	JRRT8S863	7SP
1-1/8" (28.5)	16	.870	22.10	JRRT8B880	8BP	JRRT8S880	8SP
	17	.884	22.45	JRRT8B890	8BP	JRRT8S890	8SP
	18	.902	22.91	JRRT8B907	8BP	JRRT8S907	8SP
	19	.916	23.27	JRRT8B918	8BP	JRRT8S918	8SP
	20	.930	23.62	JRRT8B934	8BP	JRRT8S934	8SP
	21	.936	23.77	JRRT8B937	8BP	JRRT8S937	8SP
	22	.944	23.98	JRRT8B945	8BP	JRRT8S945	8SP
	14	.959	24.36	JRRT8B967	9BP	JRRT8S967	9SP
	15	.981	24.92	JRRT8B987	9BP	JRRT8S987	9SP
1-1/2" (38.1)	16	.995	25.27	JRRT8B1004	9BP	JRRT8S1004	9SP
	17	1.009	25.63	JRRT8B1015	9BP	JRRT8S1015	9SP
	18	1.027	26.09	JRRT8B1032	9BP	JRRT8S1032	9SP
	19	1.041	26.44	JRRT8B1045	9BP	JRRT8S1045	9SP
	20	1.055	26.80	JRRT8B1060	10BP	JRRT8S1060	10SP
	21	1.061	26.95	JRRT8B1065	10BP	JRRT8S1065	10SP
	22	1.069	27.15	JRRT8B1070	10BP	JRRT8S1070	10SP



Also available: **LOCTITE**
To help set and keep plugs in place.

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

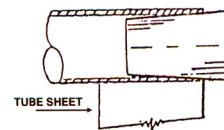
ROBINSON

ROBINSON TAPERED TUBE PLUGS

Tapered Tube Plugs are ideal for sealing leaky tubes in condensers, heat exchangers, and chillers. For best seal insert plugs into clean, dry tubes. Simply drive a plug into each end of the leaking tube with light hammer blows. ROBINSON recommends the tube plug and tube material be the same or compatible.

JRRT16PH PHENOLIC TAPERED TUBE PLUGS

The phenolic material is safe, corrosion, and erosion resistant. The softer material will not damage tube sheets or interact with the metal makeup of the exchanger.



JRRT9 & JRRT26 METAL TAPERED TUBE PLUGS

Also available in: Naval Brass (C464), Alumina, Chrome Moly, Monel, Titanium, Alloy 20, Stainless Steel 304, 316, 416, Cupro Nickel 70/30 & 90/10, Duplex, Hastelloy, 800H, & Tantalum.

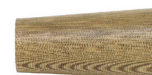
ROBINSON now stocks tapered plugs in SA105 material.



1.860" Long



2.750" Long



1.750" Long

O.D.	GAUGE	JRRT9		JRRT26		JRRT16
		BRASS	STAINLESS STEEL	BRASS	STAINLESS STEEL	PHENOLIC
1/4"	15 - 22	JRRT9B250	JRRT9SS250	JRRT26B250	JRRT26SS250	JRRT16PH250
3/8"	11 - 14	JRRT9B375	JRRT9SS375	JRRT26B375	JRRT26SS375	JRRT16PH375
3/8"	15 - 22	JRRT9B500	JRRT9SS500	JRRT26B500	JRRT26SS500	JRRT16PH500
1/2"	11 - 14	JRRT9B625	JRRT9SS625	JRRT26B625	JRRT26SS625	JRRT16PH625
1/2"	15 - 22	JRRT9B750	JRRT9SS750	JRRT26B750	JRRT26SS750	JRRT16PH750
5/8"	11 - 14	JRRT9B875	JRRT9SS875	JRRT26B875	JRRT26SS875	JRRT16PH875
3/4"	15 - 22	JRRT9B1000	JRRT9SS1000	JRRT26B1000	JRRT26SS1000	JRRT16PH1000
7/8"	11 - 14	JRRT9B1062	JRRT9SS1062	-	-	-
7/8"	15 - 22	JRRT9B1125	JRRT9SS1125	JRRT26B1125	JRRT26SS1125	JRRT16PH1125
1"	11 - 14	JRRT9B1250	JRRT9SS1250	JRRT26B1250	JRRT26SS1250	JRRT16PH1250
1-1/8"	15 - 22	JRRT9B1375	JRRT9SS1375	JRRT26B1375	JRRT26SS1375	JRRT16PH1375
1-1/8"	11 - 14	JRRT9B1500	JRRT9SS1500	JRRT26B1500	JRRT26SS1500	JRRT16PH1500
1-1/2"	15 - 22					

TAPERED TUBE PLUG REPAIR KITS

Kits include a variety of different size plugs in a plastic container that keep plugs separated so not to confuse sizes. With different sizes in one spot it is quick to figure out the correct size plug needed. No more guessing the size or gauge of the tube or trying to find a "spec" sheet you don't have. **LOCTITE** also available to help set and keep plugs in place.

RPK50B 50 piece brass kit from 1/4" to 1"
RPK50S 50 piece steel kit from 1/4" to 1"
RPK50SS 50 piece stainless steel kit from 1/4" to 1"

RPK120B 120 piece brass plug kit from 1/4" to 1"
RPK120S 120 piece steel plug kit from 1/4" to 1"
RPK120SS 120 piece stainless steel plug kit from 1/4" to 1"

*Custom plug kits available in other materials, sizes, and quantities upon request.

JOHN R. ROBINSON, INC.

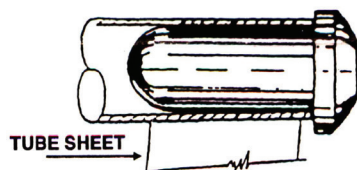
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ROBINSON

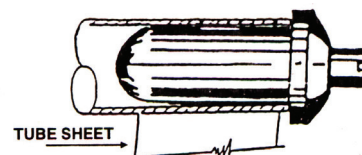
JRRT10QP QUICK PUSH PLUG

Can be inserted by pushing against the inside cavity wall using setting tool. Length increases reducing the O.D. allowing plug to enter the tube. Remove the setting tool and tube is sealed. Use JR9PST1 Setting Tool for best results.



JRRT11QPA QUICK PUSH ADJUSTABLE PLUG (WITH BRASS SCREW AND CAP)

Remove cap using screwdriver. Increase body length by turning adjustable screw. Place plug in tube end, turn adjusting screw until plug is tight in the tube, replace cap.



O.D. (mm)	GAUGE	I.D.	Part Number
5/8" (15.8)	18	.527	JRRT10QP5818
	19	.541	JRRT10QP5819
	20	.555	JRRT10QP5820
	21	.561	JRRT10QP5821
	22	.569	JRRT10QP5822
3/4" (19.0)	18	.652	JRRT10QP3418
	19	.666	JRRT10QP3419
	20	.680	JRRT10QP3420
	21	.686	JRRT10QP3421
	22	.694	JRRT10QP3422
7/8" (22.2)	18	.777	JRRT10QP7818
	19	.791	JRRT10QP7819
	20	.805	JRRT10QP7820
	21	.811	JRRT10QP7821
	22	.819	JRRT10QP7822
1" (25.4)	18	.902	JRRT10QP118
	19	.916	JRRT10QP119
	20	.930	JRRT10QP120
	21	.936	JRRT10QP121
	22	.944	JRRT10QP122
1-1/8" (28.5)	18	1.027	JRRT10QP11718
	19	1.041	JRRT10QP11819
	20	1.055	JRRT10QP11820
	21	1.061	JRRT10QP11821
	22	1.069	JRRT10QP11822
1-1/4" (31.7)	18	1.152	JRRT10QP11418
	19	1.166	JRRT10QP11419
	20	1.180	JRRT10QP11420
	21	1.186	JRRT10QP11421
	22	1.194	JRRT10QP11422

O.D. (mm)	GAUGE	I.D.	Part Number
5/8" (15.8)	18	.527	JRRT11QPA5818
	19	.541	JRRT11QPA5819
	20	.555	JRRT11QPA5820
	21	.561	JRRT11QPA5821
	22	.569	JRRT11QPA5822
3/4" (19.0)	18	.652	JRRT11QPA3418
	19	.666	JRRT11QPA3419
	20	.680	JRRT11QPA3420
	21	.686	JRRT11QPA3421
	22	.694	JRRT11QPA3422
7/8" (22.2)	18	.777	JRRT11QPA7818
	19	.791	JRRT11QPA7819
	20	.805	JRRT11QPA7820
	21	.811	JRRT11QPA7821
	22	.819	JRRT11QPA7822
1" (25.4)	18	.902	JRRT11QPA118
	19	.916	JRRT11QPA119
	20	.930	JRRT11QPA120
	21	.936	JRRT11QPA121
	22	.944	JRRT11QPA122
1-1/8" (28.5)	18	1.027	JRRT11QPA11718
	19	1.041	JRRT11QPA11819
	20	1.055	JRRT11QPA11820
	21	1.061	JRRT11QPA11821
	22	1.069	JRRT11QPA11822
1-1/4" (31.7)	18	1.152	JRRT11QPA11418
	19	1.166	JRRT11QPA11419
	20	1.180	JRRT11QPA11420
	21	1.186	JRRT11QPA11421
	22	1.194	JRRT11QPA11422

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

ROBINSON TUBE PLUGS



JRMP Mini Rubber Expandable Plug

I.D.	PART NUMBER
1/4"	JRRMP14
3/16"	JRRMP316
5/16"	JRRMP516
3/8"	JRRMP38



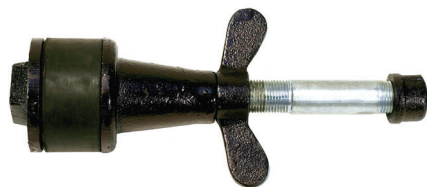
JRRT18 Large Rubber Expandable

I.D.	PART NUMBER
1-1/2"	JRRT181500
2"	JRRT182000
2-1/2"	JRRT182500
3"	JRRT183000
4"	JRRT184000



Cork Plug

TOP DIA	BOTTOM DIA	LENGTH
0.187	0.093	0.500
0.250	0.156	0.500
0.312	0.218	0.500
0.375	0.281	0.500
0.437	0.328	0.625
0.500	0.375	0.657
0.562	0.422	0.750
0.625	0.469	0.812
0.687	0.531	0.875
0.750	0.578	0.937
0.812	0.625	1
0.875	0.672	1.062
0.937	0.734	1.125
1	0.766	1.250
1.082	0.828	1.250
1.125	0.891	1.250
1.187	0.953	1.250
1.250	1.016	1.250
1.312	1.078	1.250
1.375	1.094	1.500
1.437	1.156	1.500
1.500	1.219	1.500



JRRT33 Large Test Plug W/Bypass

PART NUMBER	DESCRIPTION
JRRT33LRG2	Made to fit tube I.D. 2"
JRRT33LRG3	Made to fit tube I.D. 3"
JRRT33LRG4	Made to fit tube I.D. 4"
JRRT33LRG5	Made to fit tube I.D. 5"
JRRT33LRG6	Made to fit tube I.D. 6"



JRRT22PTP Low Pressure Test Plug

Part Number	Description
JRRT22PTP	Made to fit tube I.D. 1/2"
JRRT22PTP	Made to fit tube I.D. 5/8"
JRRT22PTP	Made to fit tube I.D. 3/4"
JRRT22PTP	Made to fit tube I.D. 7/8"
JRRT22PTP	Made to fit tube I.D. 1"
JRRT22PTP	Made to fit tube I.D. 1-1/8"
JRRT22PTP	Made to fit tube I.D. 1-1/4"
JRRT22PTP	Made to fit tube I.D. 1-3/8"
JRRT22PTP	Made to fit tube I.D. 1-1/2"
JRRT22PTP	Made to fit tube I.D. 1-5/8"
JRRT22PTP	Made to fit tube I.D. 1-3/4"
JRRT22PTP	Made to fit tube I.D. 1-7/8"
JRRT22PTP	Made to fit tube I.D. 2"



JRRT17RFP

For 5/8" – 1-1/4", all BWG tubes



JRRT25WDP Wooden Plug

Other sizes available

Part Number	Tube
JRRT25WDP1250	1-1/4"
JRRT25WDP1500	1-1/2"
JRRT25WDP2000	2"
JRRT25WDP2500	2-1/2"
JRRT25WDP3000	3"



JRRT7MIL MIL Spec Plug

Material Spec. per MIL-1-24768/13
IN STOCK



JRRT23TP Plumber Valve Plug

For 5/8" – 1-1/4", all BWG tubes



JRRT21WN Wing Nut Plug

For 5/8" – 1-1/4", all BWG tubes



JRRT15 Thimble Plug

For 5/8" – 1-1/4", all BWG tubes



JRRT20TEE

For 5/8" – 1-1/4", all BWG tubes



JRRT24SR

Small Rubber Plug

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

Toll Free: 1-800-726-1026 Tel: 718-786-6088 www.johnrrobinsoninc.com Email: jrrinc@earthlink.net

ROBINSON

SHOULDER / HEADER PLUGS (FIN FAN PLUGS)



Shoulder plugs or header plugs are made for plug type header boxes in air cooled heat exchangers/ fin fan air coolers. A shoulder plug and gasket are located opposite each tube which allows access for inspection and cleaning of individual tubes. Spare plugs and gaskets may be needed to replace originals during routine maintenance or used to plug leaking tubes.

Shoulder plugs are made of SA105, a material allowed by the pressure design code; however, we can manufacture plugs of other materials upon request such as titanium, stainless steel and brass. Shoulder plugs are typically zinc plated, but plugs can be supplied unplated by request. Gaskets are made of soft iron and typically 1/16" thick. Special materials and thicknesses available upon request.

When ordering please specify:

Plug diameter

UNF – threads per inch

Length under head

Quantity needed

Special requests

Length Under Head offered (L):

5/8" 1-1/4" 2"

3/4" 1-3/8" 2-1/4"

7/8" 1-1/2" 2-1/2"

1" 1-5/8" 2-3/4"

1-1/8" 1-3/4" 3"

To the right is a chart of our common sizes. Other varying sizes are available, do not hesitate to contact us.

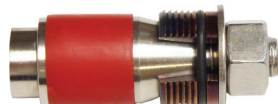
Plug Diameter	Standard UNF	Length Under Head	Hex Size	Part Number	Gasket Number
3/4"	16	5/8"	1"	JRRT27FFP3458	T27-G6
		3/4"		JRRT27FFP3434	
		7/8"		JRRT27FFP3478	
		1"		JRRT27FFP341	
		1-1/4"		JRRT27FFP34114	
7/8"	14	7/8"	1-1/8"	JRRT27FFP7878	T27-G7
		1"		JRRT27FFP781	
1-1/8"	12	3/4"	1-3/8"	JRRT27FFP11834	T27-G9
		7/8"		JRRT27FFP11878	
		1"		JRRT27FFP1181	
		1-1/8"		JRRT27FFP118118	
		1-1/4"		JRRT27FFP118114	
		1-3/8"		JRRT27FFP118138	
		1-1/2"		JRRT27FFP118112	
		1-5/8"		JRRT27FFP118158	
		1-3/4"		JRRT27FFP118134	
		2"		JRRT27FFP1182	
1-3/8"	12	3/4"	1-5/8"	JRRT27FFP13834	T27-G11
		7/8"		JRRT27FFP13878	
		1"		JRRT27FFP1381	
		1-1/8"		JRRT27FFP138118	
1-5/8"	12	7/8"	1-7/8"	JRRT27FFP15878	T27-G13
		1"		JRRT27FFP1581	

ROBINSON GRIPPING PLUGS

The long silicone rubber ring creates a leak tight seal as it strongly adheres to the metal tubes. The serrations on the end of the plug allow it to grip the ID of a tube and prevent the plug from possibly blowing out of the tube under high pressures, eliminates the need to weld plugs into place. Plug material and tube material should be compatible. Contact us for sizing and material.



T010B



T010SS



T011SS



Gripping Plug with Bypass
T03WBP

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

BREAK AWAY PLUGS

Break Away plugs are a serrated expanding three piece plug designed to expand to a predetermined diameter when applied with a specified load for installation.

The Break Away plugs are for safe plugging of corroded or leaking tubes in condensers, heat exchangers, chillers, and boilers. In addition to plugging leaking tubes, these permanent plugs can be used to plug tubesheet holes after tubes have been removed. The benefit to the Break Away plug: the tube plug will not damage the tubesheet, tubesheet hole, or neighboring tubesheet holes.

Benefits to using Break Away plugs:

- No welding needed; no sparks, flames, or risk of explosion
- Faster outages and turn-around times
- Preservation of the tubesheet
- Plugs and tooling are compatible with competitor's tooling and systems



T01 Break Away Plug
(1,000 psi)



T07 Break Away Plug
(7,000 psi)

What you'll need:

Break Away Plugs

We offer two Break Away plugs; the T01 rated up to 1,000 psi, and the T07 rated up to 7,000 psi. Plugs are recommended to be the same or of similar material as the tubes being plugged.

Installation System

This lightweight, small, hydraulic system will install Break Away plugs fast and efficiently. The installation tool can also be used for through the tube plugging when using the channel head pull rod assembly.

Pull Rod Assembly

Used for near end tube plugging, the pull rod assembly in conjunction with the installation system securely installs tube plugs. Replacement parts are available.

Channel Head Pull Rod Assembly

Use this assembly to install plugs when channel heads are present or for through the tube plugging when combined with the appropriate extension rods.

Removal Tool

Plugs can be removed for re-tubing or re-plugging purposes. The process is fast, safe, and easy with the plug removal tool.

Brush Kit

Brush kits contain several brushes to clean tube ID's before plug installation. Aggressiveness of the brush depends on the tube material. It is important that the Inside Diameter of the tubes are clear of any scale or debris before the plugs are installed to assure proper installation of plugs.

View the following pages for plug sizing and installation equipment.

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

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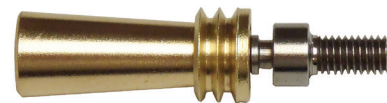
ROBINSON

BREAK AWAY PLUG

T01 LOW PRESSURE BREAK AWAY PLUG

Rated up to 1,000 psi

Plugs can be manufactured out of various materials such as Brass, Carbon Steel, Stainless Steel 316 & 304, Titanium, Chrome Moly, Cu/Ni 70/30 & 90/10, Monel, Duplex, Incoloy, Inconel, and others.



Part Number	Plug Size	Tube ID/Plug Range	
		In	MM
T01-471-X	0.471	.472 - .515	11.99 - 13.08
T01-491-X	0.491	.492 - .540	12.50 - 13.72
T01-512-X	0.512	.513 - .562	13.03 - 14.27
T01-524-X	0.524	.525 - .585	13.34 - 14.86
T01-555-X	0.555	.556 - .616	14.12 - 15.65
T01-584-X	0.584	.585 - .649	14.85 - 16.48
T01-621-X	0.621	.622 - .689	15.80 - 17.50
T01-649-X	0.649	.650 - .713	16.51 - 18.11
T01-670-X	0.670	.671 - .740	17.04 - 18.80
T01-712-X	0.712	.713 - .777	18.11 - 19.74
T01-735-X	0.735	.736 - .810	18.69 - 20.57
T01-774-X	0.774	.775 - .838	19.69 - 21.29
T01-804-X	0.804	.805 - .890	20.45 - 22.61
T01-837-X	0.837	.838 - .902	21.29 - 22.91
T01-853-X	0.853	.854 - .949	21.69 - 24.10
T01-899-X	0.899	.900 - .963	22.86 - 24.46
T01-919-X	0.919	.920 - 1.019	23.37 - 25.88
T01-962-X	0.962	.963 - 1.027	24.46 - 26.09
T01-979-X	0.979	.980 - 1.079	24.89 - 27.41
T01-1024-X	1.024	1.025 - 1.088	26.04 - 27.64
T01-1054-X	1.054	1.055 - 1.154	26.80 - 29.31
T01-1087-X	1.087	1.088 - 1.152	27.64 - 29.26
T01-1103-X	1.103	1.104 - 1.203	28.04 - 30.56
T01-1149-X	1.149	1.150 - 1.213	29.21 - 30.81
T01-1171-X	1.171	1.172 - 1.270	29.77 - 32.26
T01-1212-X	1.212	1.213 - 1.336	30.81 - 33.93
T01-1334-X	1.334	1.335 - 1.458	33.91 - 37.03
T01-1456-X	1.456	1.457 - 1.579	37.01 - 40.11
T01-1578-X	1.578	1.579 - 1.701	40.11 - 43.21
T01-1700-X	1.700	1.701 - 1.823	43.21 - 46.30
T01-1822-X	1.822	1.823 - 1.945	46.30 - 49.40
T01-1944-X	1.944	1.945 - 2.067	49.40 - 52.50

X = Material

A = Aggressive Brushes for carbon steel & stainless steel

Plug Positioner	Pull Rod Assembly	Channel Head Pull Rod Assembly	Tube Preparation Brush Kit
PPA471	PRAA471	CH-471-YY	BBK-471-(A)
PPA491	PRAA491	CH-491-YY	BBK-491-(A)
PPA512	PRAA512	CH-512-YY	BBK-512-(A)
PPA524	PRAA524	CH-524-YY	BBK-524-(A)
PPA555	PRAA555	CH-555-YY	BBK-555-(A)
PPA584	PRAA584	CH-584-YY	BBK-584-(A)
PPA621	PRAA621	CH-621-YY	BBK-621-(A)
PPA649	PRAA649	CH-649-YY	BBK-649-(A)
PPA670	PRAA670	CH-670-YY	BBK-670-(A)
PPA712	PRAA712	CH-712-YY	BBK-712-(A)
PPA735	PRAA735	CH-735-YY	BBK-735-(A)
PPA774	PRAA774	CH-774-YY	BBK-774-(A)
PPA804	PRAA804	CH-804-YY	BBK-804-(A)
PPA837	PRAA837	CH-837-YY	BBK-837-(A)
PPA853	PRAA853	CH-853-YY	BBK-853-(A)
PPA899	PRAA899	CH-899-YY	BBK-899-(A)
PPA919	PRAA919	CH-919-YY	BBK-919-(A)
PPA962	PRAA962	CH-962-YY	BBK-962-(A)
PPA979	PRAA979	CH-979-YY	BBK-979-(A)
PPA1024	PRAA1024	CH-1024-YY	BBK-1024-(N)
PPA1054	PRAA1054	CH-1054-YY	BBK-1054-(N)
PPA1087	PRAA1087	CH-1087-YY	BBK-1087-(N)
PPA1103	PRAA1103	CH-1103-YY	BBK-1103-(N)
PPA1149	PRAA1149	CH-1149-YY	BBK-1149-(N)
PPA1171	PRAA1171	CH-1171-YY	BBK-1171-(N)
PPA1212	PRAA1212	CH-1212-YY	BBK-1212-(N)
PPA1334	PRAA1334	CH-1334-YY	BBK-1334-(N)
PPA1456	PRAA1456	CH-1456-YY	BBK-1456-(N)
PPA1578	PRAA1578	CH-1578-YY	BBK-1578-(N)
PPA1700	PRAA1700	CH-1700-YY	BBK-1700-(N)
PPA1822	PRAA1822	CH-1822-YY	BBK-1822-(N)
PPA1944	PRAA1944	CH-1944-YY	BBK-1944-(N)

YY = Length

N = Nylon coated brushes

No suffix for brass

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

BREAK AWAY PLUG

T07 HIGH PRESSURE BREAK AWAY PLUG

Rated up to 7,000 psi

Plugs can be manufactured out of various materials such as Brass, Carbon Steel, Stainless Steel 316 & 304, Titanium, Chrome Moly, Cu/Ni 70/30 & 90/10, Monel, Duplex, Incoloy, Inconel, and others. Other materials and larger sizes available.



Part Number	Plug Size	Tube ID/Plug Range	
		IN	MM
T07-400-X	0.40	.401 - .420	10.19 - 10.68
T07-420-X	0.42	.421 - .440	10.69 - 11.19
T07-440-X	0.44	.441 - .460	11.20 - 11.70
T07-460-X	0.46	.461 - .480	11.71 - 12.21
T07-480-X	0.48	.481 - .500	12.22 - 12.72
T07-500-X	0.50	.501 - .520	12.73 - 13.22
T07-520-X	0.52	.521 - .540	13.23 - 13.73
T07-540-X	0.54	.541 - .560	13.74 - 14.24
T07-560-X	0.56	.561 - .580	14.25 - 14.75
T07-580-X	0.58	.581 - .600	14.76 - 15.26
T07-600-X	0.60	.601 - .620	15.27 - 15.76
T07-620-X	0.62	.621 - .640	15.77 - 16.27
T07-640-X	0.64	.641 - .660	16.28 - 16.78
T07-660-X	0.66	.661 - .680	16.79 - 17.29
T07-680-X	0.68	.681 - .700	17.30 - 17.80
T07-700-X	0.70	.701 - .720	17.81 - 18.30
T07-720-X	0.72	.721 - .740	18.31 - 18.81
T07-740-X	0.74	.741 - .760	18.82 - 19.32
T07-760-X	0.76	.761 - .780	19.33 - 19.83
T07-780-X	0.78	.781 - .800	19.84 - 20.34
T07-800-X	0.80	.801 - .820	20.35 - 20.84
T07-820-X	0.82	.821 - .840	20.84 - 21.35
T07-840-X	0.84	.841 - .860	21.36 - 21.86
T07-860-X	0.86	.861 - .880	21.87 - 22.37
T07-880-X	0.88	.881 - .900	22.38 - 22.88
T07-900-X	0.90	.901 - .920	22.89 - 23.38
T07-920-X	0.92	.921 - .940	23.39 - 23.89
T07-940-X	0.94	.941 - .960	23.90 - 24.40
T07-960-X	0.96	.961 - .980	24.41 - 24.91
T07-980-X	0.98	.981 - 1.00	24.92 - 25.42
T07-1000-X	1.00	1.001 - 1.020	25.43 - 25.92
T07-1020-X	1.02	1.021 - 1.040	25.93 - 26.43
T07-1040-X	1.04	1.041 - 1.060	26.44 - 26.94
T07-1060-X	1.06	1.061 - 1.080	26.95 - 27.45
T07-1080-X	1.08	1.081 - 1.100	27.46 - 27.96
T07-1100-X	1.10	1.101 - 1.120	27.97 - 28.46
T07-1120-X	1.12	1.121 - 1.140	28.47 - 28.97
T07-1140-X	1.14	1.141 - 1.160	28.98 - 29.48
T07-1160-X	1.16	1.161 - 1.180	29.49 - 29.99

X = Material

PLUG POSITIONER	PULL ROD ASSEMBLY	CHANNEL HEAD PULL ROD
PPA-400-440	PRAA-400-580	CH-400-580-YY
PPA-460-500		CH-400-580-YY
PPA-520-580		CH-400-580-YY
PPA-600-680	PRAA-600-860	CH-600-860-YY
PPA-700-780		CH-600-860-YY
PPA-800-860		CH-600-860-YY
PPA-880-960	PRAA-880-1160	CH-880-1160-YY
PPA-980-1060		CH-880-1160-YY
PPA-1080-1160		CH-880-1160-YY

YY = Length

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ROBINSON

TUBE INSERTS (FERRULES) FOR CONDENSERS & HEAT EXCHANGERS



Prevent tube end erosion and costly re-tubing of Condenser and Heat Exchangers.

METAL TUBE INSERTS are manufactured to order. They are manufactured to fit closely to the I.D. of the existing tube. The inserts can be provided in different lengths and materials, with or without a flare end. The inserts should be of similar material to the existing tube material. The inserts are installed by expanding into the tube sheet.

Materials: CU/NI 90/10, CU/NI 70/30, Stainless Steel, AL-6XN, Duplex, Monel, Titanium, Brass, and others upon request.

PLASTIC TUBE INSERTS offer permanent protection for new tubes or extended life for old tubes already pitted or thinned at the insert section. Flared end of the insert is designed to give a smooth venture entrance for the fluid to flow. Nylon inserts are resistant to chemical and are not affected by oils or greases. They will withstand temperatures to 250 °F.

PART NO.	CONDENSER TUBE SIZE				INSERT LENGTH
	O.D.	GAUGE	WALL	I.D.	
JRRNTI58186	5/8"	18	0.049	0.527	6
JRRNTI58206		20	0.035	0.555	6
JRRNTI34166	3/4"	16	0.065	0.62	6
JRRNTI34186		18	0.049	0.652	6
JRRNTI78166	7/8"	16	0.065	0.745	6
JRRNTI78186		18	0.049	0.777	6
JRRNTI1166	1"	16	0.065	0.87	6
JRRNTI1186		18	0.049	0.902	6
JRRNTI1206		20	0.035	0.93	6



Estimated Tube Cement Needed

One 1/2 Pint can will cement:

450 Inserts for 5/8" tubes

250 Inserts for 3/4" tubes

200 Inserts for 7/8" tubes

150 Inserts for 1" tubes

VALVE PLUG, VALVE REPLACEMENT TOOL

NEW!

VP100 VALVE PLUG, WATER SHUT OFF TOOL

Solder with water in lines! Solder without draining the entire system. Change out a valve, solder or glue on fittings, make line repairs and test lines while under pressure. There's no need to shut off water to the rest of the building or drain lines. For refrigeration and boiler applications, the valve plug withstands temperatures from -20°F to 225°F. The VP100 water shut off tool works on copper, steel, or C/PVC lines and is pressure rated to 65 psi. Sold separately or in kits.

Available in sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", & 4"

VP100K Plug kit with heavy duty case.

Contains 6 plugs from 1/2" to 2"

VP100SK Small plug kit contains 1/2", 3/4", and 1" plugs in a tube for easy storage.

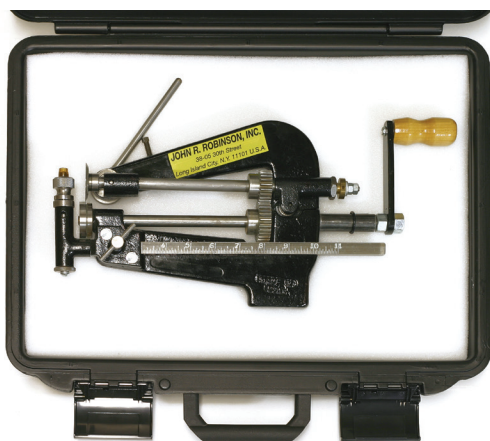


JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

ROBINSON GASKET CUTTING MACHINES



JRCM Rotary Gasket Cutter

The JRCM is a low cost precision gasket cutting machine that cuts gaskets with speed, ease, and accuracy in all standard gasket material from 1/32" to 3/16" thick. It cuts gasket sizes from 2" inside diameter to 22" outside diameter. The gasket cutter comes complete with a carrying case.

All parts are replaceable. Motorized version is available.

Extra center bars may be purchased for gasket cutting:

- #25 2" to 22" in diameter
- #26A 22" to 42" in diameter
- #26B 42" to 62" in diameter
- #34 Set of Cutters – one top & one bottom cutter

JRHDG Heavy Duty Gasket Cutting Machine

A heavy duty machine designed specifically for cutting metallic gaskets, hard fiber, and thick Teflon. In addition, this machine cuts gaskets from rubber, cork, and wire insert packing. JRHDG will cut gaskets 3" inside diameter to 28" outside diameter. Extra center bars can be purchased to cut gaskets 28" to 54" and 54" to 80".

Maximum thickness that can be cut:

Soft steel, Zinc, Brass, Tin, Galvanized Iron	.04"
Stainless Steel & Monel Metal	.03"
Copper	.0625"
Lead & Fiber, Rubber, Teflon	.125"
Cork	.25"

Extra center bars and parts:

- #13 3" to 28"
- #13A 28" to 54" Medium bar
- #13B 54" to 80" Long bar
- #28 Set of cutters One top & one bottom cutter for Metal
- #29 Set of cutters One too & one bottom cutter for Non-metal



JRCGK Circular Gasket Cutter

Circular extension gasket cutters are available in five convenient kits to meet a broad range of cutting requirements. The brass cutting block slides easily over a variety of gasket materials as the modular extension design allows you to quickly adjust your cutting size from 1/4" to 61". Cuts material up to 3/4" in depth.

Gasket Cutter comes complete with carrying case and all parts are replaceable.



- JRCGK10 Cuts 1/4" ID to 13" OD
- JRCGK20 Cuts 1/4" ID to 25" OD
- JRCGK30 Cuts 1/4" ID to 37" OD
- JRCGK40 Cuts 1/4" ID to 49" OD
- JRCGK50 Cuts 1/4" ID to 61" OD

NEW!

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

Toll Free: 1-800-726-1026 Tel: 718-786-6088 www.johnrrobinsoninc.com Email: jrrinc@earthlink.net

ROBINSON

ROBINSON INSTALLATION & REMOVAL TOOLS



TEF TUBE END FACER

Tube End Facer for facing ends of tubes in condensers & heat exchangers. It has one replaceable tool bit and a set of three rotating pilots (bushings) which guide cutters. Adjustable depth gauge. Tool may be driven by standard electric or air powered motor

TUBE O.D.		GAUGE	PART NO.	EXTRA BITS	
INCH	MM			NON-FERROUS CARBON	STAINLESS STEEL
1/2"	12.70	15 - 20	TEF500	RTEF506	RTEF506SS
5/8"	15.87	14 - 22	TEF625	RTEF626	RTEF626SS
3/4"	19.05	10 - 22	TEF750	RTEF756	RTEF756SS
7/8"	22.22	13 - 18	TEF875	RTEF876	RTEF876SS
1"	25.40	11 - 18	TEF1000	RTEF1006	RTEF1006SS



ROR ONE REVOLUTION TUBE CUTTER

"One Revolution" Internal Tube Cutter cuts off tubes in one revolution (in Condensers, Heat Exchangers and Boilers). This "One Revolution" Internal Tube Cutter is designed for hand operation using a Ratchet handle. The Cutter Tool Bit operates on eccentric principle. The Tube Cutter is placed in the tube with the Tool Bit in closed position, Ratchet is applied and turned in clockwise direction. The Tool Bit contracts the tube during the One Revolution and pierces the tube wall and as turning is continued the Tool Bit shears through the tube along its circumference. This Cutter is fitted with an adjustable collar enabling it to reach into tubes up to various distances.

TUBE O.D.		TUBE GAUGES					EXTRA BITS
INCH	MM	12 & 13	14 & 15	16 & 17	18 & 19	20 - 25	
1/2"	12.70				ROR50018	ROR50020	ORB500
5/8"	15.88		ROR62514	ROR62516	ROR62518	ROR62520	ORB625
3/4"	19.05		ROR75014	ROR75016	ROR75018	ROR75020	ORB750
7/8"	22.22		ROR87514	ROR87516	ROR87518	ROR87520	ORB875
1"	25.40	ROR100012	ROR100014	ROR100016	ROR100018	ROR100020	ORB1000
1 1/4"	31.75	ROR125012	ROR125014	ROR125016	ROR125018	ROR125020	ORB1250
1 1/2"	38.10	ROR150012	ROR150014	ROR150016	ROR150018	ROR150020	ORB1500
2"	50.80	ROR200012	ROR200014	ROR200016	ROR200018	ROR200020	ORB2000
2 1/2"	36.50	ROR250012	ROR250014	ROR250016	ROR250018	ROR250020	ORB2500



RPTC PUSH TYPE TUBE CUTTER

ROBINSON "Push Type" Internal Tube Cutter quickly cuts the walls of tubes in Condensers and Heat Exchangers. This sturdy "Push Type" Internal Tube Cutter can be used with an Electric or Air Drill. "Push Type" Cutter is simple to operate. Insert cutter into the tube, apply power, press inward and the tube can be cut in a few seconds. Releasing of inward pressure automatically retracts the Cutter Bits. This Cutter is equipped with an adjustable collar suitable for reaching into tubes of various distances. The tool is furnished with 3 Pilots and Extra Cutter Bits.

TUBE O.D.		GAUGE	PART NUMBER	REPLACEMENT BITS PART NO.
INCH	MM			
5/8"	15.88 mm	16 - 22	RPTC625	PTC625-2
3/4"	19.05 mm	14 - 22	RPTC750	PTC750-2
7/8"	22.22 mm	16 - 22	RPTC875	PTC875-2
1"	25.4 mm	12 - 22	RPTC1000	PTC1000-2
1-1/4"	31.75 mm	14 - 22	RPTC1250	PTC1250-2

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ROBINSON

RGRT GROOVING TOOL

For serrating tube sheet holes



Part Number	Tube OD	
	In.	MM
RGRT38	3/8"	9.53
RGRT12	1/2"	12.7
RGRT58	5/8"	15.87
RGRT34	3/4"	19.05
RGRT78	7/8"	22.22
RGRT1	1"	25.4
RGRT114	1-1/4"	31.75
RGRT112	1-1/2"	38.1
RGRT2	2"	50.8
RGRT212	2-1/2"	63.5

Bits: 1/8" x 3/8" x 1/8"

1/8" x 1/4" x 1/8"

AR- ADJUSTABLE REAMER



Min Max Min Max

AR-A - .468" - .531" AR-B - .531" - .593"

AR-C - .593" - .656" AR-D - .656" - .718"

AR-E - .718" - .781" AR-F - .781" - .843"

AR-G - .843" - .937" AR-H - .937" - 1.062"

REAMERS

Tube sheet hole reamers for 3/8" to 1-1/4" tube sheet holes. Morse taper shank or straight shank



RCH CHIPPING HAMMER

With chisel retainer is used as a drive for tube drifts and collapsing tools.



RCT COLLAPSING TOOL

For easy and quick removal of tube stubs. Collapses thin wall tubes to ease removal from tube sheets. Sizes range from 1/4" through 3"; gauges from 12 through 30; shanks 01 and 06.

Other sizes, gauges, and shanks available upon request.

TUBE O.D.		GAUGE	PART NUMBER
3/8"	9.53 mm	16 - 22	RCT375 06
1/2"	12.70 mm	16 - 22	RCT500 06
5/8"	15.88 mm	16 - 22	RCT625 06
3/4"	19.05 mm	16 - 22	RCT750 06
7/8"	22.22 mm	16 - 22	RCT875 06
1"	25.4 mm	16 - 22	RCT1000 06



TSHB TUBE SHEET HOLE BRUSH

Tube Sheet Hole Brushes are used to clean, deburr, and polish tube sheet holes before new tubes are installed. Available for tube sheets 3/8" - 4".

Can supply brush in steel or stainless steel, single or double spiral brush.

TUBE O.D.		PART NO.	
INCH	MM	STEEL BRUSH	STAINLESS STEEL BRUSH
1/2"	12.70	TSHB-500	TSHB-500-SS
5/8"	15.87	TSHB-625	TSHB-625-SS
3/4"	19.05	TSHB-750	TSHB-750-SS
7/8"	22.22	TSHB-875	TSHB-875-SS
1"	25.40	TSHB-1000	TSHB-1000-SS



JRTG TUBE GUIDES

Tube Guides are designed for easy insertion of tubes required to pass through tube sheet and baffle plate holes. The use of a Tube Guide prevents tube end damage during assembly. The Tube Guide fits easily into the tube end. The tube guides are made of aluminum tapered pilot with replaceable nylon brush. The special nylon brush not only holds the guide firmly inside the tube but also cleans the inside of the tube prior to expanding. The tube guide is easily removed from the tube end by a slight twist while pulling out of the tube end.

TUBE O.D.		GAUGE	PART NO.
INCH	MM		
1/2"	12.70	16 - 18	JRTG1
		19 - 20	JRTG2
		21 - 23	JRTG25
5/8"	15.87	12 - 13	JRTG3
		14 - 16	JRTG4
		17 - 20	JRTG5
		22 - 24	JRTG55
3/4"	19.05	10 - 12	JRTG6
		13 - 16	JRTG7
		17 - 20	JRTG8
		22 - 24	JRTG85
7/8"	22.22	10 - 12	JRTG9
		13 - 16	JRTG10
		17 - 20	JRTG11
		21 - 22	JRTG115
1"	25.40	8 - 9	JRTG125
		10 - 12	JRTG12
		13 - 16	JRTG13
		17 - 20	JRTG14
		21 - 23	JRTG145

TUBE INSTALLATION & REMOVAL KITS

A must have for Heat Exchanger MFG.s when sending out new units. Kits include all you need for removing and installing tubes. Kits can be customized to your needs.

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TWR TUBE WALL REDUCER

Used to reduce tube wall to ease removal from tube sheets. Sizes range from 1/4" to 3"; gauge from 8 through 24. Other sizes and gauges are available upon request.

TUBE O.D.	TUBE GAUGE		PART NUMBER
	BWG	MM	
3/5" (9.53 mm)	16	1.65	TWR375-16
	17	1.47	TWR375-17
	18	1.25	TWR375-18
	20	0.89	TWR375-20
	21	0.81	TWR375-21
1/2" (12.70 mm)	22	0.71	TWR375-22
	17	1.47	TWR500-17
	18	1.24	TWR500-18
	19	1.07	TWR500-19
	20	0.89	TWR500-20
5/8" (15.88 mm)	21	0.81	TWR500-21
	22	0.71	TWR500-22
	12	2.77	TWR625-12
	13	2.41	TWR625-13
	14	2.11	TWR625-14
	15	1.83	TWR625-15
	16	1.65	TWR625-16
	17	1.47	TWR625-17
	18	1.24	TWR625-18
	19	1.07	TWR625-19
3/4" (19.05 mm)	20	0.89	TWR625-20
	21	0.81	TWR625-21
	22	0.71	TWR625-22
	10	3.40	TWR750-10
	11	3.05	TWR750-11
	12	2.77	TWR750-12
	13	2.41	TWR750-13
	14	2.11	TWR750-14
	15	1.83	TWR750-15
	16	1.65	TWR750-16
7/8" (22.22 mm)	17	1.47	TWR750-17
	18	1.24	TWR750-18
	19	1.07	TWR750-19
	20	0.89	TWR750-20
	21	0.81	TWR750-21
	22	0.71	TWR750-22
	10	3.40	TWR875-10
	11	3.05	TWR875-11
	12	2.77	TWR875-12
	13	2.41	TWR875-13
1" (25.4 mm)	14	2.11	TWR875-14
	15	1.83	TWR875-15
	16	1.65	TWR875-16
	17	1.47	TWR875-17
	18	1.24	TWR875-18
	19	1.07	TWR875-19
	20	0.89	TWR875-20
	21	0.81	TWR875-21
	22	0.71	TWR875-22
	10	3.40	TWR1000-10
	11	3.05	TWR1000-11
	12	2.77	TWR1000-12
	13	2.41	TWR1000-13
	14	2.11	TWR1000-14
	15	1.83	TWR1000-15
	16	1.65	TWR1000-16
	17	1.47	TWR1000-17
	18	1.24	TWR1000-18
	19	1.07	TWR1000-19
	20	0.89	TWR1000-20
	21	0.81	TWR1000-21
	22	0.71	TWR1000-22



RTD TUBE DRIFTS

Tube Drifts are used to knock out left over tube stubs from tube sheets. Sizes range from 3/8" to 2"; gauges 8 through 28; shanks 01, 06, 12, and 15. Other sizes, gauges, and shanks are available upon request.

TUBE O.D.	TUBE GAUGE		PART NUMBER
	BWG	MM	
1/2" (12.70 mm)	12	2.77	TD500 12 06
	14	2.11	TD500 14 06
	16	1.65	TD500 16 06
	18	1.24	TD500 18 06
5/8" (15.88 mm)	20	0.89	TD500 20 06
	12	2.77	TD625 12 06
	13	2.41	TD625 13 06
	14	2.11	TD625 14 06
	15	1.83	TD625 15 06
	16	1.65	TD625 16 06
	17	1.47	TD625 17 06
	18	1.24	TD625 18 06
	19	1.07	TD625 19 06
	20	0.89	TD625 20 06
3/4" (19.05 mm)	10	3.4	TD750 10 06
	12	2.77	TD750 12 06
	13	2.41	TD750 13 06
	14	2.11	TD750 14 06
	15	1.83	TD750 15 06
	16	1.65	TD750 16 06
	17	1.47	TD750 17 06
	18	1.24	TD750 18 06
	19	1.07	TD750 19 06
	20	0.89	TD750 20 06
7/8" (22.22 mm)	12	2.77	TD875 12 06
	14	2.11	TD875 14 06
	15	1.83	TD875 15 06
	16	1.65	TD875 16 06
1" (25.4 mm)	20	1.24	TD875 20 06
	8	4.19	TD1000 8 06
	9	3.76	TD1000 9 06
	10	3.4	TD1000 10 06
	11	3.05	TD1000 11 06
	12	2.77	TD1000 12 06
	13	2.41	TD1000 13 06
	14	2.11	TD1000 14 06
	15	1.83	TD1000 15 06
	16	1.65	TD1000 16 06
	17	1.47	TD1000 17 06
	18	1.24	TD1000 18 06
	19	1.07	TD1000 19 06
	20	0.89	TD1000 20 06

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ROBINSON



JRRMPT1 MANUAL SLIDE HAMMER TUBE PULLER

Great for pulling tube samples or re-tubing small Heat Exchangers. Interchangeable tube spears allow for use with many sizes of tubes. The Manual Slide Hammer Consists of: Tube Spear, Single Pull Adapter #3055-3, Adapter Extension M-F #3055-10, Horse Shoe Lock #3055-4, Slide Hammer

Accessories for Ram Tube Puller



Tube Spear



Single Pull Adapter #3055-3



Double Pull Adapter #3055-6



Adapter Extension M-F #3055-10



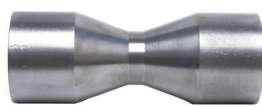
Adapter Extension M-M #3055-5



Extension Chair

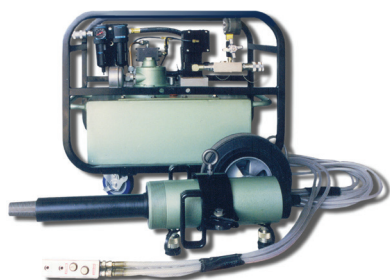


Horse Shoe Lock #3055-4



Slide Hammer

RHR RAM TUBE PULLER



Complete with ram, pump, and hoses to pull tubes 1/2" to 2" tubes



EXTENSION CHAIR

The extension chair is sized to allow the tube being pulled to enter ID of the chair, spears, adapters, MxM extension, horse shoe lock.

TUBE O.D.	PART NO.
1-1/4" - 1-1/2"	3055-7
1-3/4"	36307
2" - 2-1/4"	36308
2-1/2"	36309
2-3/4" - 3"	36310

TUBE CHOPPER



Turns scrap handling from a chore to an easily manageable task!

A heavy duty, self-feeding tube chopper that quickly chops scrap tubes, allowing for easier removal from the work area while increasing scrap value.



TUBE SPEARS

Available For other sizes of HDT Pine Jenny spears. All items are compatible for use with Tube Pulling System of other manufactures.

TUBE O.D.	TUBE GAUGE	PART NUMBER
1/2" (12.70 mm)	20	TS-500-20
5/8" (15.88 mm)	12 - 13	TS625-12-13
	14 - 15	TS625-14-15
	16 - 17	TS625-16-17
	18 - 19	TS625-18-19
	20	TS625-20
3/4" (19.05 mm)	21 - 22	TS625-21-22
	10	TS750-10
	11 - 13	TS750-11-13
	14 - 15	TS750-14-15
	16 - 17	TS750-16-17
7/8" (22.22 mm)	18 - 19	TS750-18-19
	20	TS750-20
	21 - 22	TS750-21-22
	14 - 15	TS875-14-15
	16 - 18	TS875-16-18
1" (25.4 mm)	19 - 20	TS875-19-20
	21 - 22	TS875-21-22
	9 - 10	TS1000-9-10
	11 - 12	TS1000-11-12
	12 - 13	TS1000-12-13
1 - 1/4" (31.75 mm)	14 - 15	TS1000-14-15
	16 - 17	TS1000-16-17
	18 - 20	TS1000-18-20
	21 - 22	TS1000-21-22
	7 - 8	TS1250-7-8
1 - 1/2" (38.1 mm)	10 - 11	TS1250-10-11
	12 - 13	TS1250-12-13
	14 - 15	TS1250-14-15
	16 - 18	TS1250-16-18
	19 - 20	TS1250-19-20
	21 - 22	TS1250-21-22
	10 - 11	TS1500-10-11
	12 - 13	TS1500-12-13
	14	TS1500-14

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ROBINSON ROLL MOTORS

CONDENSER & HEAT EXCHANGERS



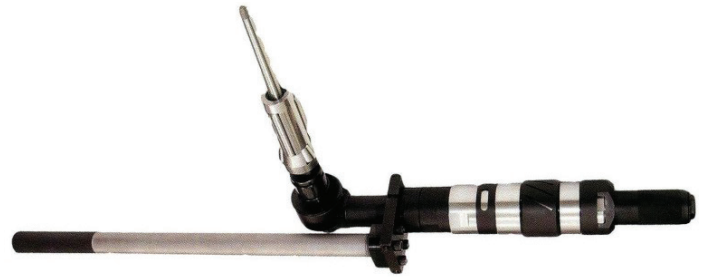
E50 Pneumatic Rolling Motor

Push Pull Type. Automatically stops tube expansion at predefined settings. With precise and repeatable torque control, we avoid both under and over expansion of the tube. Strong, lightweight aluminum housings.

E50-1250	1250 RPM
E50-600	600 RPM
E50-400	400 RPM

		E50-1250	E50-600	E50-400
FREE SPEED	RPM	1250	600	400
	Nm	1.58	2.49	5
MINIMUM TORQUE	in.Lbs	44	22	44.15
	Nm	12.2	21.81	36
MAXIMUM TORQUE	in.Lbs	108	193	318
	KG	4.76	4.76	4.76
WEIGHT	LBS	10.5	10.5	10.5
	MM	311	311	311
LENGTH	INCH	12-1/4	12-1/4	12-1/4
	l/min	1700	1700	1700
AIR CONSUMPTION	cfm	60	60	60
	INCH	3/4	1	1-1/4
TUBE CAPACITY	MM	19	25.4	31.7
	INCH	3/8	3/8	3/8
SQUARE SIZE	INCH	3/8	3/8	3/8
CHUCKS OPT	INCH	3/8	3/8	3/8
	Opt. INCH	opt. 1/2"	opt. 1/2"	opt. 1/2"

BOILERS



750 Right Angle Torque Controlled Boiler Tube Roll Motor with Roll throttle or Lever throttle

Right Angle Torque Control for Rolling Tubes into drums of package and stationary boilers

72-RT-90	90 RPM	73-RT-190	190 RPM
72-LT-90	90 RPM	73-LT-190	190 RPM

		72-RT-90	72-LT-90	73-RT-190	73-LT-190
FREE SPEED	RPM	90	90	190	190
TORQUE CONTROLLED		YES	YES	YES	YES
MAXIMUM TORQUE	NM	410	410	200	200
	FT. LBS	305	305	140	140
MINIMUM TORQUE	NM	200	200	95	95
	FT. LBS	150	150	70	70
WEIGHT	KG	6.7	6.7	5.8	5.8
	LBS	14.75	14.75	13	13
OVERALL LENGTH	MM	550	550	530	530
	INCH	21.7	21.7	20.1	20.1
HEIGHT WITHOUT SQUARE DRIVE	MM	70	70	65	65
	INCH	2.75	2.75	2.6	2.6
SIDE TO CENTER	MM	37	37	28	28
	INCH	1.5	1.5	1.1	1.1
SQUARE DRIVE	MM	19	19	15.8	15.8
	INCH	3/4	3/4	5/8	5/8
THROTTLE TYPE	TYPE	ROLL	LEVER	ROLL	LEVER
TUBE CAPACITY	MM	101.6	101.6	63.5	63.5
	INCH	4	4	2.5	2.5
CHUCK SIZE	MM	25.4 & 19.0	25.4 & 19.0	19	19
	INCH	1" & 3/4"	1" & 3/4"	3/4"	3/4"
CHUCK SIZE OPTIONAL	MM			12.7 QCC	12.7 QCC
	INCH			1/2" QCC	1/2" QCC
AIR INLET	INCH	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT

ERL22 ELECTRIC ROLL MOTOR & TCB20 DIGITAL TORQUE

Control Box – Rental –

LED digital display eliminates over/under rolled tubes and assures uniformly rolled tubes. Available in manual or auto reverse, 115V or 220V.



BRM22 ELECTRIC TORQUE CONTROL ROLL MOTOR

Dual speed rolling motor is light weight, yet powerful enough to roll 2 1/2" on 3" tube.

For Boiler Tubes 1" - 3" DIA.

Adjustable Torque

Dual Speed: 60 – 140 RPM

200 - 470 RPM

Reversible

3/4" Square Drive

115V

14 Lbs.



JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON EXPANDERS

HEAT EXCHANGER AND CONDENSER EXPANDERS

5 roll expanders are recommended for work on thin walled tubes of Stainless Steel, Titanium, Incoloy, Copper Nickel (Cupronickel), and other exotic materials. The 5 roll expander has more contact with the tube, creating a more concentric and even expansion. More contact on a tubes' Internal Diameter also reduces spring back effect that is common with these tube materials.

R800 TUBE EXPANDER

3 roll expander for 1/2" to 1-1/2" OD tubes
Offered with 1-1/2" long rolls or 2-1/4" long rolls.



R800-5 TUBE EXPANDER

5 roll expander for 1/2" to 1-1/2" OD tubes.
Offered with 1-1/2" long rolls or 2-1/4" long rolls.



R1200 TUBE EXPANDER

Long reach, 3 roll expander
Standard reach of 6-3/4"
For 1/2" to 1-1/2" OD tubes with
roll lengths of 1-1/2" or 2-1/4"



R1200-5 TUBE EXPANDER

Long reach, 5 roll expander
Standard reach of 6-3/4"
For 1/2" to 1-1/2" OD tubes
with 1-1/2" or 2-1/4" long rolls



R900 TUBE EXPANDER

3 roll expander
1/4" OD tubes with 1/4" to 3/4" thick tube sheet
3/8" OD tubes with 3/4" to 1-1/4" thick tube sheet
with 3/4" or 1-1/4" long rolls



R1300 TUBE EXPANDER

3 roll expander
Expanders for 3/8" OD tubes with 3/4" to 3" thick
tube sheets have 3/4" long rolls
Expanders for 3/8" OD tubes with 1-1/4" to 3-1/2"
thick tube sheets have 1-1/4" long rolls



R-AN TUBE EXPANDER

3 roll expanders with 1" long rolls
For 1/4" & 3/8" OD tubes with 1/4" to 1" thick
tube sheets



Contact us for sizing, part numbers, and additional information for expander charts not shown on the following pages.

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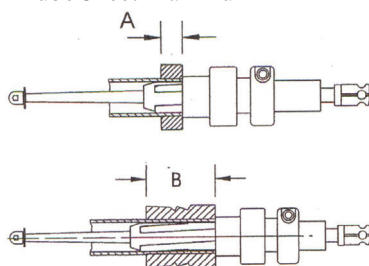
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ROBINSON EXPANDERS

800 Series

A Tube Sheet Minimum

B Tube Sheet Maximum



FOR TUBES WITH INTERNAL DIAMETER
FROM 0.334" (8.4 mm) TO 1.43" (36.3 mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH	FOR TUBE SHEET ADJUSTABLE RANGE	
	MINIMUM A	MAXIMUM B
1-1/2" (38.1 mm)	1/2" (12.7 mm)	1-1/2" (38.1 mm)
2-1/4" (57.1 mm)	1-1/4" (31.7 mm)	2-1/4" (57.1 mm)

Tube O.D. In. mm	Tube Thickness bwg. in. mm.		Tube I.D. in. Mm		Tube I.D. in. Mm		Maximum Expansion of Tool in. mm.	Expander with 1-1/2” (38.10 mm) Long Rollers			Expander with 2-1/4” (57.15 mm) Long Rollers			SQ. DR.
								Complete Tool No.	Mandrel No.	Roller No.	Complete Tool No.	Mandrel No.	Roller No.	
1/2”	14	.083 (2.10)	.334 (8.4)	.324 (8.2)	.374 (9.5)	R797	797	797						
	15	.072 (1.82)	.356 (9.0)	.348 (8.8)	.398 (10.1)	R799	799	R-1						
	16	.065 (1.65)	.370 (9.4)	.360 (9.1)	.410 (10.4)	R801	M-1	R-1						
12.7	17	.058 (1.47)	.384 (9.7)	.374 (9.5)	.424 (10.7)	R803	M-1	R-2						
	18	.049 (1.24)	.402 (10.2)	.392 (9.9)	.447 (11.3)	R805	M-2	R-3						
	20	.035 (0.88)	.430 (10.9)	.406 (10.3)	.461 (11.7)	R805 S	M-3	R-3						
5/8” 15.88	12	.109 (2.76)	.407 (10.3)	.392 (9.9)	.447 (11.3)	R805	M-2	R-3						
	13	.095 (2.41)	.435 (11.0)	.425 (10.8)	.480 (12.1)	R807	M-3	R-4						
	14	.083 (2.10)	.459 (11.6)	.449 (11.4)	.509 (12.9)	R809	M-4	R-4	R810	M-4	R-4-A			
	15	.072 (1.82)	.481 (12.2)	.471 (11.9)	.536 (13.6)	R811	M-5	R-5	R812	M-5	R-5-A			
	16	.065 (1.65)	.495 (12.5)	.485 (12.3)	.550 (13.9)	R813	M-5	R-6	R814	M-5	R-6-A			
	17	.058 (1.47)	.509 (12.9)	.499 (12.6)	.564 (14.3)	R815	M-6	R-6	R816	M-6	R-6-A			
	18	.049 (1.24)	.527 (13.3)	.517 (13.1)	.572 (14.5)	R817	M-7	R-7	R818	M-7	R-7-A			
	19	.042 (1.06)	.541 (13.7)	.522 (13.2)	.582 (14.7)	R819	M-6	R-7	R820	M-6	R-7-A			
	20	.035 (0.88)	.555 (14.1)	.536 (13.6)	.596 (15.1)	R819 S	M-8	R-7	R820-S	M-8	R-7-A			
	21	.032 (0.81)	.561 (14.2)	.536 (13.6)	.596 (15.1)	R819 S	M-8	R-7	R820-S	M-8	R-7-A			
	22	.028 (0.71)	.569 (14.4)	.536 (13.6)	.596 (15.1)	R819 S	M-8	R-7	R820-S	M-8	R-7-A			
3/4” 19.05	10	.134 (3.40)	.482 (12.2)	.471 (11.9)	.536 (13.6)	R811	M-5	R-5	R812	M-5	R-5-A			
	11	.120 (3.04)	.510 (12.9)	.499 (12.6)	.564 (14.3)	R815	M-6	R-6	R816	M-6	R-6-A			
	12	.109 (2.76)	.532 (13.5)	.522 (13.2)	.582 (14.7)	R819	M-6	R-7	R820	M-6	R-7-A			
	13	.095 (2.41)	.560 (14.2)	.550 (13.9)	.615 (15.6)	R821	M-8	R-8	R822	M-8	R-8-A			
	14	.083 (2.10)	.584 (14.8)	.574 (14.5)	.639 (16.2)	R823	M-8	R-9	R824	M-8	R-9-A			
	15	.072 (1.82)	.606 (15.3)	.596 (15.1)	.661 (16.7)	R825	M-8	R-10	R826	M-8	R-10-A			
	16	.065 (1.65)	.620 (15.7)	.605 (15.3)	.685 (17.4)	R827	M-9	R-10	R828	M-9	R-10-A			
	17	.058 (1.47)	.634 (16.1)	.619 (15.7)	.699 (17.7)	R829	M-9	R-11	R830	M-9	R-11-A			
	18	.049 (1.24)	.652 (16.5)	.619 (15.7)	.699 (17.7)	R829	M-9	R-11	R830	M-9	R-11-A			
	19	.042 (1.06)	.666 (16.9)	.642 (16.3)	.722 (18.3)	R831	M-9	R-12	R832	M-9	R-12-A			
	20	.035 (0.88)	.680 (17.2)	.642 (16.3)	.722 (18.3)	R831	M-9	R-12	R832	M-9	R-12-A			
	21	.032 (0.81)	.686 (17.4)	.642 (16.3)	.722 (18.3)	R831	M-9	R-12	R832	M-9	R-12-A			
	22	.028 (0.71)	.694 (17.6)	.642 (16.3)	.722 (18.3)	R831	M-9	R-12	R832	M-9	R-12-A			
7/8” 22.22	10	.134 (3.40)	.607 (15.4)	.596 (15.1)	.661 (16.7)	R825	M-8	R-10	R826	M-8	R-10-A			
	11	.120 (3.04)	.635 (16.1)	.619 (15.7)	.699 (17.7)	R829	M-9	R-11	R830	M-9	R-11-A			
	12	.109 (2.76)	.657 (16.6)	.642 (16.3)	.722 (18.3)	R831	M-9	R-12	R832	M-9	R-12-A			
	13	.095 (2.41)	.685 (17.4)	.670 (17.0)	.750 (19.0)	R833	M-10	R-13	R834	M-10	R-13-A			
	14	.083 (2.10)	.709 (18.0)	.685 (17.4)	.774 (19.6)	R835	M-11	R-14	R836	M-11	R-14-A			
	15	.072 (1.82)	.731 (18.5)	.712 (18.0)	.801 (20.3)	R837	M-11	R-15	R838	M-11	R-15-A			
	16	.065 (1.65)	.745 (18.9)	.726 (18.4)	.815 (20.7)	R839	M-12	R-15	R840	M-12	R-15-A			
	17	.058 (1.47)	.759 (19.2)	.740 (18.8)	.829 (21.0)	R843	M-12	R-16	R844	M-12	R-16-A			
	18	.049 (1.24)	.777 (19.7)	.740 (18.8)	.829 (21.0)	R843	M-12	R-16	R844	M-12	R-16-A			

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON EXPANDERS R800 Series

Tube OD	Tube Thickness		Tube ID		Min. ID		Max Expansion		Expanders with 1-1/2" Long Roll			Expanders with 2-1/4" Long Roll			SQ
	bwg	in mm	in mm	in mm	in mm	in mm	in mm	in mm	Tool	Mandrel	Rolls	Tool	Mandrel	Rolls	DR
1"	8	.165 (4.19)	.670 (17.0)	.655 (16.6)	.735 (18.6)	.735 (18.6)	.735 (18.6)	.735 (18.6)	R841	M-9	R-13	R842	M-9	R-13-A	in 3/8
	9	.148 (3.75)	.704 (17.8)	.685 (17.4)	.774 (19.6)	.774 (19.6)	.774 (19.6)	.774 (19.6)	R835	M-11	R-14	R836	M-11	R-14-A	
	10	.134 (3.40)	.732 (18.5)	.712 (18.0)	.801 (20.3)	.801 (20.3)	.801 (20.3)	.801 (20.3)	R837	M-11	R-15	R838	M-11	R-15-A	
	11	.120 (3.04)	.760 (19.3)	.740 (18.8)	.829 (21.0)	.829 (21.0)	.829 (21.0)	.829 (21.0)	R843	M-12	R-16	R844	M-12	R-16-A	
	12	.109 (2.76)	.782 (19.8)	.763 (19.3)	.852 (21.6)	.852 (21.6)	.852 (21.6)	.852 (21.6)	R845	M-12	R-17	R846	M-12	R-17-A	
	13	.095 (2.41)	.810 (20.5)	.791 (20.0)	.880 (22.3)	.880 (22.3)	.880 (22.3)	.880 (22.3)	R847	M-12	R-18	R848	M-12	R-18-A	
	14	.083 (2.10)	.834 (21.1)	.810 (20.5)	.909 (23.0)	.909 (23.0)	.909 (23.0)	.909 (23.0)	R849	M-13	R-18	R850	M-13	R-18-A	mm 9.5
	15	.072 (1.82)	.856 (21.7)	.837 (21.2)	.936 (23.7)	.936 (23.7)	.936 (23.7)	.936 (23.7)	R851	M-13	R-19	R852	M-13	R-19-A	
	16	.065 (1.65)	.870 (22.1)	.837 (21.2)	.936 (23.7)	.936 (23.7)	.936 (23.7)	.936 (23.7)	R851	M-13	R-19	R852	M-13	R-19-A	
	17	.058 (1.47)	.884 (22.4)	.865 (21.9)	.964 (24.4)	.964 (24.4)	.964 (24.4)	.964 (24.4)	R855	M-13	R-21	R856	M-13	R-21-A	
	18	.049 (1.24)	.902 (22.9)	.865 (21.9)	.964 (24.4)	.964 (24.4)	.964 (24.4)	.964 (24.4)	R855	M-13	R-21	R856	M-13	R-21-A	
1-1/8"	8	.165 (4.19)	.795 (20.1)	.776 (19.7)	.875 (22.2)	.875 (22.2)	.875 (22.2)	.875 (22.2)	R853	M-13	R-20	R854	M-13	R-20-A	in 1/2
	9	.148 (3.75)	.829 (21.0)	.810 (20.5)	.909 (23.0)	.909 (23.0)	.909 (23.0)	.909 (23.0)	R849	M-13	R-18	R850	M-13	R-18-A	
	10	.134 (3.40)	.857 (21.7)	.837 (21.2)	.936 (23.7)	.936 (23.7)	.936 (23.7)	.936 (23.7)	R851	M-13	R-19	R852	M-13	R-19-A	
	11	.120 (3.04)	.885 (22.4)	.865 (21.9)	.964 (24.4)	.964 (24.4)	.964 (24.4)	.964 (24.4)	R855	M-13	R-21	R856	M-13	R-21-A	
	12	.109 (2.76)	.907 (23.0)	.883 (22.4)	.982 (24.9)	.982 (24.9)	.982 (24.9)	.982 (24.9)	R857	M-14	R-21	R858	M-14	R-21-A	
	13	.095 (2.41)	.935 (23.7)	.916 (23.2)	1.015 (25.7)	1.015 (25.7)	1.015 (25.7)	1.015 (25.7)	R859	M-14	R-22	R860	M-14	R-22-A	
	14	.083 (2.10)	.959 (24.3)	.935 (23.7)	1.044 (26.5)	1.044 (26.5)	1.044 (26.5)	1.044 (26.5)	R861	M-15	R-23	R862	M-15	R-23-A	
	15	.072 (1.82)	.981 (24.9)	.962 (24.4)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	R863	M-15	R-24	R864	M-15	R-24-A	
	16	.065 (1.65)	.995 (25.2)	.962 (24.4)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	R863	M-15	R-24	R864	M-15	R-24-A	
	17	.058 (1.47)	1.010 (25.6)	.990 (25.1)	1.009 (27.9)	1.009 (27.9)	1.009 (27.9)	1.009 (27.9)	R867	M-16	R-26	R868	M-16	R-26-A	
1-1/4"	8	.165 (4.19)	.920 (23.3)	.901 (22.8)	1.010 (25.6)	1.010 (25.6)	1.010 (25.6)	1.010 (25.6)	R865	M-15	R-25	R866	M-15	R-25-A	in 1/2
	9	.148 (3.75)	.954 (24.2)	.935 (23.7)	1.044 (26.5)	1.044 (26.5)	1.044 (26.5)	1.044 (26.5)	R861	M-15	R-23	R862	M-15	R-23-A	
	10	.134 (3.40)	.982 (24.9)	.962 (24.4)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	1.071 (27.2)	R863	M-15	R-24	R864	M-15	R-24-A	
	11	.120 (3.04)	1.010 (25.6)	.990 (25.1)	1.099 (27.9)	1.099 (27.9)	1.099 (27.9)	1.099 (27.9)	R867	M-16	R-26	R868	M-16	R-26-A	
	12	.109 (2.76)	1.032 (26.2)	1.013 (25.7)	1.122 (28.5)	1.122 (28.5)	1.122 (28.5)	1.122 (28.5)	R869	M-16	R-27	R870	M-16	R-27-A	
	13	.095 (2.41)	1.060 (26.9)	1.039 (26.4)	1.150 (29.2)	1.150 (29.2)	1.150 (29.2)	1.150 (29.2)	R871	M-17	R-28	R872	M-17	R-28-A	
	14	.083 (2.10)	1.084 (27.5)	1.060 (26.9)	1.169 (29.6)	1.169 (29.6)	1.169 (29.6)	1.169 (29.6)	R873	M-17	R-29	R874	M-17	R-29-A	
	15	.072 (1.82)	1.106 (28.0)	1.087 (27.6)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	R875	M-17	R-30	R876	M-17	R-30-A	
	16	.065 (1.65)	1.120 (28.4)	1.087 (27.6)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	R875	M-17	R-30	R876	M-17	R-30-A	
	17	.058 (1.47)	1.134 (28.8)	1.115 (28.3)	1.224 (31.0)	1.224 (31.0)	1.224 (31.0)	1.224 (31.0)	R879	M-18	R-30	R880	M-18	R-30-A	
1-3/8"	8	.165 (4.19)	1.045 (26.5)	1.026 (26.0)	1.135 (28.8)	1.135 (28.8)	1.135 (28.8)	1.135 (28.8)	R877	M-17	R-31	R878	M-17	R-31-A	mm 12.7
	9	.148 (3.75)	1.079 (27.4)	1.060 (26.9)	1.169 (29.6)	1.169 (29.6)	1.169 (29.6)	1.169 (29.6)	R873	M-17	R-29	R874	M-17	R-29-A	
	10	.134 (3.40)	1.107 (28.1)	1.087 (27.6)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	1.196 (30.3)	R875	M-17	R-30	R876	M-17	R-30-A	
	11	.120 (3.04)	1.135 (28.8)	1.115 (28.3)	1.224 (31.0)	1.224 (31.0)	1.224 (31.0)	1.224 (31.0)	R879	M-18	R-30	R880	M-18	R-30-A	
	12	.109 (2.76)	1.157 (29.3)	1.133 (28.7)	1.242 (31.5)	1.242 (31.5)	1.242 (31.5)	1.242 (31.5)	R881	M-18	R-32	R882	M-18	R-32-A	
	13	.095 (2.41)	1.185 (30.1)	1.160 (29.4)	1.275 (32.3)	1.275 (32.3)	1.275 (32.3)	1.275 (32.3)	R883	M-19	R-33	R884	M-19	R-33-A	
	14	.083 (2.10)	1.209 (30.7)	1.179 (29.9)	1.294 (32.8)	1.294 (32.8)	1.294 (32.8)	1.294 (32.8)	R885	M-20	R-34	R886	M-20	R-34-A	
	15	.072 (1.82)	1.231 (31.2)	1.206 (30.6)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	R887	M-20	R-35	R888	M-20	R-35-A	
	16	.065 (1.65)	1.245 (31.6)	1.206 (30.6)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	R887	M-20	R-35	R888	M-20	R-35-A	
	17	.058 (1.47)	1.260 (32.0)	1.235 (31.3)	1.350 (34.2)	1.350 (34.2)	1.350 (34.2)	1.350 (34.2)	R891	M-20	R-36	R892	M-20	R-36-A	
1-1/2"	8	.165 (4.19)	1.170 (29.7)	1.145 (29.0)	1.260 (32.0)	1.260 (32.0)	1.260 (32.0)	1.260 (32.0)	R889	M-19	R-34	R890	M-19	R-34-A	mm 12.7
	9	.148 (3.75)	1.204 (30.5)	1.177 (29.9)	1.294 (32.8)	1.294 (32.8)	1.294 (32.8)	1.294 (32.8)	R885	M-20	R-34	R886	M-20	R-34-A	
	10	.134 (3.40)	1.232 (31.2)	1.206 (30.6)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	1.321 (33.5)	R887	M-20	R-35	R888	M-20	R-35-A	
	11	.120 (3.04)	1.260 (32.0)	1.235 (31.3)	1.350 (34.2)	1.350 (34.2)	1.350 (34.2)	1.350 (34.2)	R891	M-20	R-36	R892	M-20	R-36-A	
	12	.109 (2.76)	1.282 (32.5)	1.257 (31.9)	1.372 (34.8)	1.372 (34.8)	1.372 (34.8)	1.372 (34.8)	R893	M-20	R-37	R894	M-20	R-37-A	
	13	.095 (2.41)	1.310 (33.2)	1.285 (32.6)	1.400 (35.5)	1.400 (35.5)	1.400 (35.5)	1.400 (35.5)	R895	M-21	R-37	R896	M-20	R-37-A	
	14	.083 (2.10)	1.334 (33.8)	1.285 (32.6)	1.400 (35.5)	1.400 (35.5)	1.400 (35.5)	1.400 (35.5)	R895	M-21	R-37	R896	M-21	R-37-A	
	15	.072 (1.82)	1.356 (34.4)	1.331 (33.8)	1.446 (36.7)	1.446 (36.7)	1.446 (36.7)	1.446 (36.7)	R897	M-21	R-38	R898	M-21	R-38-A	
	16	.065 (1.65)	1.370 (34.8)	1.331 (33.8)	1.446 (36.7)	1.446 (36.7)	1.446 (36.7)	1.446 (36.7)	R897	M-21	R-38	R898	M-21	R-38-A	
	17	.058 (1.47)	1.384 (35.1)	1.331 (33.8)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	R899	M-22	R-38	R900	M-22	R-38-A	
38.1	18	.049 (1.24)	1.402 (35.6)	1.331 (33.8)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	R899	M-22	R-38	R900	M-22	R-38-A	
	19	.042 (1.06)	1.416 (35.9)	1.331 (33.8)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	R899	M-22	R-38	R900	M-22	R-38-A	
	20	.035 (0.88)	1.430 (36.3)	1.331 (33.8)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	1.472 (37.3)	R899	M-22	R-38	R900	M-22	R-38-A	

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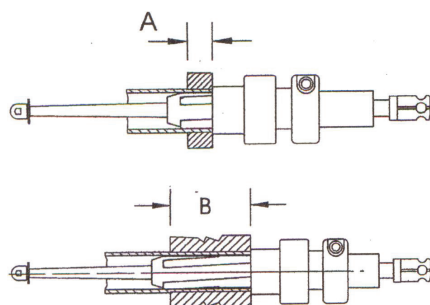
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ROBINSON EXPANDERS

800-5 Series



A Tube Sheet Minimum
B Tube Sheet Maximum



FOR TUBES WITH INTERNAL DIAMETER
FROM 0.509" (12.9 mm) TO 1.44" (36.7 mm)

TUBE EXPANDERS FITTED WITH ROLLER LENGTH	FOR TUBE SHEET ADJUSTABLE RANGE	
	MINIMUM A	MAXIMUM B
1-1/2" (38.1 mm)	1/2" (12.7 mm)	1-1/2" (38.1 mm)
2-1/4" (57.1 mm)	1-1/4" (31.7 mm)	2-1/4" (57.1 mm)

5 Roll Expanders for stainless steel and titanium tubes

Tube O.D. In. mm	Tube Thickness bwg. in. mm.	Tube I.D. in. Mm	Tube I.D. in. Mm	Maximum Expansion of Tool in. mm.	Expander with 1-1/2" (38.10 mm) Long Rollers			Expander with 2-1/4" (57.15 mm) Long Rollers			SQ. DR.
					Complete Tool No.	Mandrel No.	Roller No.	Complete Tool No.	Mandrel No.	Roller No.	
5/8"	17 .058 (1.47)	.509 (12.9)	.499 (12.6)	.564 (14.3)	R815-5	816-5	R-4-5	R 816-5	816-5	R-4-A-5	
	18 .049 (1.24)	.527 (13.4)	.517 (13.1)	.576 (14.6)	R817-5	M-9	R-4-5				
	19 .042 (1.06)	.541 (13.7)	.522 (13.3)	.582 (14.8)	R819-5	820-5	R-4-5	R820-5	820-5	R-4-A-5	
15.88	20 .035 (0.88)	.555 (14.1)	.536 (13.6)	.596 (15.1)	R819-5-S	820-5-S	R-4-5	R820-5-S	820-5-S	R-4-A-5	
	21 .032 (0.81)	.561 (14.2)	.536 (13.6)	.596 (15.1)	R819-5-S	820-5-S	R-4-5	R820-5-S	820-5-S	R-4-A-5	
	22 .028 (0.71)	.569 (14.5)	.536 (13.6)	.596 (15.1)	R819-5-S	820-5-S	R-4-5	R820-5-S	820-5-S	R-4-A-5	
3/4"	13 .095 (2.41)	.560 (14.2)	.550 (13.9)	.615 (15.6)	R821-5	822-5	R-5-5	R822-5	822-5	R-5-A-5	in 3/8
	14 .083 (2.10)	.584 (14.8)	.574 (14.5)	.629 (15.9)	R823-5	824-5	R-6-5	R824-5	824-5	R-6-A-5	
	15 .072 (1.82)	.606 (15.3)	.590 (14.9)	.661 (16.8)	R825-5	826-5	R-7-5	R826-5	826-5	R-7-A-5	
	16 .065 (1.65)	.620 (15.7)	.605 (15.3)	.680 (17.2)	R827-5	M-13	R-7-5	R828-5	M-13	R-7-A-5	
	17 .058 (1.47)	.634 (16.1)	.619 (15.7)	.699 (17.8)	R829-5	830-5	R-7-5	R830-5	830-5	R-7-A-5	
	18 .049 (1.24)	.652 (16.5)	.619 (15.7)	.699 (17.8)	R829-5	830-5	R-7-5	R830-5	830-5	R-7-A-5	
	19 .042 (1.06)	.666 (16.9)	.642 (16.3)	.729 (18.5)	R831-5	M-13	R-9-5	R832-5	M-13	R-9-A-5	
	20 .035 (0.88)	.680 (17.2)	.642 (16.3)	.729 (18.5)	R831-5	M-13	R-9-5	R832-5	M-13	R-9-A-5	
	21 .032 (0.81)	.686 (17.4)	.642 (16.3)	.729 (18.5)	R831-5	M-13	R-9-5	R832-5	M-13	R-9-A-5	
	22 .028 (0.71)	.694 (17.6)	.642 (16.3)	.729 (18.5)	R831-5	M-13	R-9-5	R832-5	M-13	R-9-A-5	
	23 .025 (0.64)	.700 (17.8)	.670 (17.0)	.747 (18.9)	R833-5	M-14-3/8	R-9-5	R834-5	M-14-3/8	R-9-A-5	
	24 .022 (0.56)	.706 (17.9)	.670 (17.0)	.747 (18.9)	R833-5	M-14-3/8	R-9-5	R834-5	M-14-3/8	R-9-A-5	
19.05	25 .020 (0.51)	.710 (18.0)	.685 (17.4)	.750 (19.0)	R833-5	M-14-3/8	R-10-5	R836-5	M-14-3/8	R-10-A-5	mm 9.5
	13 .095 (2.41)	.685 (17.4)	.670 (17.0)	.747 (18.9)	R833-5	M-14-3/8	R-9-5	R834-5	M-14-3/8	R-9-A-5	
	14 .083 (2.10)	.709 (18.0)	.685 (17.4)	.750 (19.0)	R835-5	M-15-3/8	R-10-5	R836-5	M-15-3/8	R-10-A-5	
	16 .065 (1.65)	.745 (18.9)	.726 (18.4)	.800 (20.3)	R839-5	840-5	R-11-5	R840-5	840-5	R-11-A-5	
	17 .058 (1.47)	.759 (19.2)	.740 (18.8)	.824 (20.9)	R843-5	M-17-3/8	R-11-5	R844-5	M-17-3/8	R-11-A-5	
	18 .049 (1.24)	.777 (19.7)	.740 (18.8)	.824 (20.9)	R843-5	M-17-3/8	R-11-5	R844-5	M-17-3/8	R-11-A-5	
	19 .042 (1.07)	.791 (20.1)	.763 (19.4)	.851 (21.6)	R845-5	M-18-3/8	R-11-5	R846-5	M-18-3/8	R-11-A-5	
	20 .035 (0.89)	.805 (20.4)	.763 (19.4)	.851 (21.6)	R845-5	M-18-3/8	R-11-5	R846-5	M-18-3/8	R-11-A-5	
	21 .032 (0.81)	.811 (20.6)	.763 (19.4)	.851 (21.6)	R845-5	M-18-3/8	R-11-5	R846-5	M-18-3/8	R-11-A-5	
	22 .028 (0.71)	.819 (20.8)	.763 (19.4)	.851 (21.6)	R845-5	M-18-3/8	R-11-5	R846-5	M-18-3/8	R-11-A-5	
	23 .025 (0.64)	.825 (20.9)	.791 (20.1)	.880 (22.4)	R847-5	M-18-3/8	R-13-5	R848-5	M-18-3/8	R-13-A-5	
	24 .022 (0.56)	.831 (21.1)	.791 (20.1)	.880 (22.4)	R847-5	M-18-3/8	R-13-5	R848-5	M-18-3/8	R-13-A-5	



LUBE-A-TUBE

A water soluble lubricant designed for use with Tube Expanders

Available in: ELQT1 – Quart ELG1 – Gallon ELG5 – 5 Gallon

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON EXPANDERS

800-5 Series



5 Roll Expanders for stainless steel and titanium tubes

Tube	Tube Thickness		Tube ID		Min. ID		Max Expansion		Expanders with 1-1/2" Long Roll			Expanders with 2-1/4" Long Roll			SQ		
OD	bwg	in mm	in mm		in mm		in mm		Tool	Mandrel	Rolls	Tool	Mandrel	Rolls	DR		
1"	12	.109 (2.76)	.782 (19.8)		.763 (19.4)		.852 (21.6)		R845-5	M-18-3/8	R-11-5	R846-5	M-18-3/8	R-11-A-5	in 3/8		
	13	.095 (2.41)	.810 (20.5)		.791 (20.1)		.880 (22.4)		R847-5	M-18-3/8	R-13-5	R848-5	M-18-3/8	R-13-A-5			
	14	.083 (2.10)	.834 (21.2)		.810 (20.5)		.879 (22.3)		R849-5	850-5	R-12-5	R850-5	850-5	R-12-A-5			
	15	.072 (1.82)	.856 (21.7)		.837 (21.3)		.936 (23.8)		R851-5	852-5	R-13-5	R852-5	852-5	R-13-A-5			
	16	.065 (1.65)	.870 (22.0)		.837 (21.3)		.936 (23.8)		R851-5	852-5	R-13-5	R852-5	852-5	R-13-A-5			
	17	.058 (1.47)	.884 (22.4)		.865 (22.0)		.965 (24.5)		R855-5	856-5	R-13-5	R856-5	856-5	R-13-A-5			
	25.4	18	.049 (1.24)	.902 (22.9)		.865 (22.0)		.965 (24.5)		R855-5	856-5	R-13-5	R856-5	856-5	R-13-A-5	mm 9.5	
		19	.042 (1.06)	.916 (23.2)		.865 (22.0)		.965 (24.5)		R855-5	856-5	R-13-5	R856-5	856-5	R-13-A-5		
		20	.035 (0.88)	.930 (23.6)		.865 (22.0)		.965 (24.5)		R855-5	856-5	R-13-5	R856-5	856-5	R-13-A-5		
		21	.032 (0.81)	.936 (23.8)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5		
22		.028 (0.71)	.944 (24.0)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5			
23		.025 (0.64)	.950 (22.4)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5			
24		.022 (0.56)	.956 (24.3)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5			
25		.020 (0.51)	.960 (24.4)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5			
1-1/8"		12	.109 (2.76)	.907 (23.0)		.883 (22.4)		.997 (25.3)		R857-5	M-21-3/8	R-15-5	R858-5	M-21-3/8	R-15-A-5		in 1/2
		13	.095 (2.41)	.935 (23.7)		.916 (23.2)		1.000 (25.4)		R859-5	860-5	R-16-5	R860-5	860-5	R-16-A-5		
	14	.083 (2.11)	.959 (24.3)		.935 (23.7)		1.039 (26.4)		R861-5	862-5	R-17-5	R862-5	862-5	R-17-A-5			
	28.58	22	.028 (0.71)	1.069 (27.2)		1.039 (26.4)		1.157 (29.4)		R871-5	872-5	R-19-5	R872-5	872-5	R-19-A-5		
24		.022 (0.56)	1.081 (26.4)		1.039 (26.4)		1.157 (29.4)		R871-5	872-5	R-19-5	R872-5	872-5	R-19-A-5			
1-1/4"	15	.072 (1.82)	1.106 (28.1)		1.087 (27.6)		1.196 (30.4)		R875-5	876-5	R-21-5	R876-5	876-5	R-21-A-5	mm 12.7		
	16	.065 (1.65)	1.120 (28.4)		1.087 (27.6)		1.196 (30.4)		R875-5	876-5	R-21-5	R876-5	876-5	R-21-A-5			
	17	.058 (1.47)	1.134 (28.8)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5	R-21-A-5			
	31.75	18	.049 (1.24)	1.152 (29.3)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5		R-21-A-5	
		19	.042 (1.07)	1.166 (29.6)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5		R-21-A-5	
		20	.035 (0.88)	1.180 (30.0)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5		R-21-A-5	
		21	.032 (0.81)	1.186 (30.1)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5		R-21-A-5	
		22	.028 (0.71)	1.194 (30.3)		1.115 (28.3)		1.231 (31.3)		R879-5	880-5	R-21-5	R880-5	880-5		R-21-A-5	
		23	.025 (0.64)	1.200 (30.5)		1.133 (28.8)		1.242 (31.5)		R881-5	882-5	R-21-5	R882-5	882-5		R-21-A-5	
		24	.022 (0.56)	1.206 (30.6)		1.133 (28.8)		1.242 (31.5)		R881-5	882-5	R-21-5	R882-5	882-5		R-21-A-5	
1-3/8"		12	.109 (2.76)	1.154 (29.3)		1.133 (28.8)		1.242 (31.5)		R881-5	882-5	R-21-5	R882-5	882-5	R-21-A-5		
	14	.083 (2.11)	1.209 (30.7)		1.179 (29.9)		1.296 (32.9)		R885-5	882-5	R-23-5	R886-5	882-5	R-23-A-5			
	34.92	20	.035 (0.88)	1.305 (33.2)		1.257 (31.9)		1.385 (35.2)		R893-5	894-5	R-26-5	R894-5	894-5	R-26-A-5		
		22	.028 (0.71)	1.319 (33.5)		1.285 (32.6)		1.417 (36.0)		R895-5	896-5	R-26-5	R896-5	896-5	R-26-A-5		
24		.022 (0.56)	1.331 (33.8)		1.285 (32.6)		1.417 (36.0)		R895-5	896-5	R-26-5	R896-5	896-5	R-26-A-5			
1-1/2"		17	.058 (1.47)	1.384 (35.1)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5		
	18	.049 (1.24)	1.402 (35.6)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			
	19	.042 (1.06)	1.416 (36.0)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			
	38.10	20	.035 (.089)	1.430 (36.3)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5		
21		.032 (0.81)	1.436 (36.5)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			
22		.028 (0.71)	1.444 (36.7)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			
23		.025 (0.64)	1.450 (36.8)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			
	24	.022 (0.56)	1.456 (37.0)		1.331 (33.8)		1.489 (37.8)		R899-5	900-5	R-29-5	R900-5	900-5	R-29-A-5			

LUBE-A-TUBE

A water soluble lubricant designed for use with Tube Expanders

Available in: ELQT1 – Quart ELG1 – Gallon ELG5 – 5 Gallon



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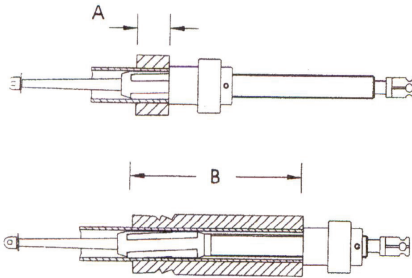
ROBINSON EXPANDERS

R1300 Series



A Tube Sheet Minimum

B Tube Sheet Maximum



TUBE EXPANDERS FITTED WITH ROLLER LENGTH	FOR TUBE SHEET ADJUSTABLE RANGE	
	MINIMUM A	MAXIMUM B
3/4" (19.05 mm)	3/4" (19.05 mm)	3" (76.20 mm)
1-1/4" (31.75 mm)	1-1/4" (31.75 mm)	3-1/2" (88.90 mm)

Tube O.D. In. mm	Tube Thickness bwg. in. mm.		Tube I.D. in. Mm		Maximum Expansion of Tool in. mm.	Expander with 1-1/2" (38.10 mm) Long Rollers			Expander with 2-1/4" (57.15 mm) Long Rollers			SQ. DR.
						Complete Tool No.	Mandrel No.	Roller No.	Complete Tool No.	Mandrel No.	Roller No.	
3/8"	15	.072 (1.82)	.231 (5.8)	.230 (5.8)	.265 (6.7)	R1315	M-86	1315	R1316	M-86	1316	in 1/4
	16	.065 (1.65)	.245 (6.2)	.240 (6.1)	.275 (6.9)	R1319	M-86	916	R1319 L	M-86	916L	
	17	.058 (1.47)	.259 (6.5)	.255 (6.4)	.289 (7.3)	R1317	M-88	903	R1318	M-88	904	
	18	.049 (1.24)	.277 (7.0)	.272 (6.9)	.307 (7.8)	R1301	M-80	903	R1302	M-80	904	
	19	.042 (1.06)	.291 (7.3)	.286 (7.2)	.320 (8.1)	R1303	M-81	903	R1304	M-81	904	
9.53	20	.035 (0.88)	.305 (7.7)	.300 (7.6)	.334 (8.4)	R1305	M-82	907	R1306	M-82	908	mm 6.3
	21	.032 (0.81)	.311 (7.9)	.306 (7.7)	.340 (8.6)	R1307	M-83	907	R1308	M-83	908	
	22	.028 (0.71)	.319 (8.1)	.314 (7.9)	.349 (8.8)	R1309	M-84	909	R1310	M-84	910	
	23	.025 (0.63)	.325 (8.2)	.320 (8.1)	.357 (9.0)	R1311	M-84	911	R1312	M-84	912	
	24	.022 (0.55)	.331 (8.4)	.320 (8.1)	.357 (9.0)	R1311	M-84	911	R1312	M-84	912	

E-20 Pneumatic Rolling Motor

The E-20 Roll Motor is designed for fast and effortless torque controlled rolling of tubes from 1/4" – 1/2" OD. The tool expands tubes to a preset torque. When the preset torque is reached the tool is designed to trigger its reverse rotation; backing itself out of the tube.



		E20-550	E20-1800	E20-2500
FREE SPEED	RPM	550	1800	2500
MINIMUM TORQUE	NM	0.226	0.226	0.226
MAXIMUM TORQUE	NM	8.47	3.05	0.9
WEIGHT	KG	1.2	1.1	1.1
	LBS	2.65	2.43	2.43
LENGTH	MM	219	205	205
	INCH	8.62	8.07	8.07
AIR CONSUMPTION	L/M	480	480	480
	INCH	1/2	3/8	1/4
TUBE CAPACITY (OD)	MM	12.7	9.5	6.3
	MM	6.35	6.35	6.35
CHUCKS	INCH	1/4	1/4	1/4
	MM	9.5	9.5	9.5
CHUCKS OPT	INCH	3/8	3/8	3/8

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON EXPANDERS

BOILER EXPANDERS

JR114 TUBE EXPANDER

For easy expanding and flaring tubes.
4 expanding rolls (2 long & 2 short) and 2 flaring rolls.
For 2" through 4-1/2" OD tubes with 1/2" to 2-5/8" tube sheet thickness



JRRBTE33 BOILER TUBE EXPANDER

The best expander when flaring tube ends is needed.
The overlapping flare rolls prevent ridging of tubes.
3 flare rolls and 3 straight rolls
For 7/8" – 4-1/2" OD tubes with 1/2" to 2-5/8" thick tube sheets.



A1 BOILER TUBE EXPANDER

3 straight rolls for parallel rolling tubes
Expander for 7/8" through 4-1/2" OD tubes
with tube sheet thicknesses of 1/2" to 2-5/8"



CBEI BEADER BOILER TUBE EXPANDER

Expands and beads tubes in a single operation.
Available for 2", 2-1/2", and 3" OD tubes.

(Not all gauges supported.)

JR41633 - 2" OD x 10-13 BWG

JR41634 - 2-1/2" OD x 10-13 BWG

JR41359 - 3" OD x 10-12 BWG



R8012 TUBE EXPANDER

3 Roll Tube Expander
For Condenser & Heat Exchanger Tubes
For use on 1-3/4" to 4" OD tubes with up to 4" tube sheet thickness. (Available with 6" or 8" reach)
Expanders have 2-1/4" long rolls.



FURNACE CEMENT

Furnace/refractory/retort & stove cement
Cement for setting and cementing furnaces, stoves, boilers, and chimney collars. Use it for bedding and cementing firebrick and specially shaped combustion chambers. 3000°F and it won't shrink! Not harmed by freezing and thawing.

FC1004 4 – 1 Gallon containers per case

Special formula that does not freeze:

FC1014 4 – 1 Gallon containers per case



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ROBINSON EXPANDERS

JR114 Series Boiler Expanders



TUBE SIZE						MIN ID TOOL ENTERS		MAX EXPANSION OF TOOL		TUBE EXPANDER MODEL NUMBER				
TUBE OD INCH	TUBE THK. (BWG)	TUBE THICK. (INCH)	TUBE OD INCH	TUBE THK. (BWG)	TUBE THK. (INCH)	INCH	MM	INCH	MM	TUBE SHEET THICKNESS RANGE				
										1/2" TO 7/8"	3/4" TO 1-1/8"	1-1/8" TO 1-5/8"	1-5/8" TO 2-1/8"	2-1/8" TO 2-5/8"
TUBE SHEET THICKNESS >>>										2	3	4	5	6
2	4 & 5	.238 & .220	1-3/4	11 - 13	.120 - .095	1.444	36.7	1.696	43.1		14172	14174	14176	14178
2	6 & 7	.203 & .180	1-3/4	14 - 16	.480 - .065	1.507	38.3	1.755	44.6		14182	14184	14186	14188
2	7 & 8	.180 & .165				1.570	39.9	1.826	46.4	14191	14192	14194	14196	14198
2	9 & 10	.148 & .134	2-1/4	13	0.095	1.633	41.5	1.889	48.0	14201	14202	14204	14206	14208
2	11 - 13	.120 - .095	2-1/4	4 & 5	.238 & .220	1.696	43.1	1.952	49.6	14211	14212	14214	14216	14218
2-1/2	2	0.284	2-1/4	6 - 8	.203 - .165	1.791	45.5	2.07	52.6		14222	14224	14226	14228
2-1/2	3 & 4	.259 & .238	2-1/4	9 - 11	.148 - .120	1.856	47.1	2.133	54.2		14232	14234	14236	14238
2-1/2	4 - 6	.238 - .203	2-1/4	12 - 15	.109 - .072	1.929	49.0	2.255	57.3		14242	14244	14246	14248
2-1/2	7 - 10	.180 - .134	2-3/4	2 & 3	.284 & .259	2.043	51.9	2.381	60.5		14252	14254	14256	14258
2-1/2	11 - 13	.120 - .095	2-3/4	4 & 5	.238 & .220	2.169	55.1	2.507	63.7	14261	14262	14264	14266	14268
3	1 - 3	.300 - .259	2-3/4	6 - 10	.203 - .134	2.259	57.4	2.622	66.6		14272	14274	14276	14278
3	4 - 6	.238 - .203	2-3/4	11 - 15	.120 - .072	2.385	60.6	2.755	70.0		14282	14284	14286	14288
3	7 - 11	.180 - .120	3-1/4	1 - 4	.300 - .238	2.511	63.8	2.909	73.9		14292	14294	14296	14298
3	10 - 12	.134 - .109	3-1/4	4 - 7	.238 - .180	2.635	66.9	3.043	77.3	14301	14302	14304	14306	14308
3-1/2	1 - 4	.300 - .238	3-1/4	7 - 11	.180 - .120	2.759	70.1	3.153	80.1		14312	14314	14316	14318
3-1/2	4 - 7	.238 - .180	3-1/4	10 - 15	.134 - .072	2.874	73.0	3.283	83.4		14322	14324	14326	14328
3-1/2	7 - 11	.180 - .120	3-3/4	2 & 3	.284 & .259	3.000	76.2	3.417	86.8		14332	14334	14336	14338
3-1/2	10 - 12	.134 - .109	3-3/4	4 & 5	.238 & .220	3.122	79.3	3.535	89.8		14342	14344	14346	14348
4	1 - 4	.300 - .238	3-3/4	6 - 10	.203 - .134	3.248	82.5	3.661	93.0		14352	14354	14356	14358
4	4 - 7	.238 - .180	3-3/4	11 - 15	.120 - .072	3.374	85.7	3.779	96.0		14362	14364	14366	14368
4	7 - 11	.180 - .120	4-1/4	2 & 3	.284 & .259	3.500	88.9	3.881	98.6		14372	14374	14376	14378
4	8 - 12	.165 - .109	4-1/4	3 & 5	.259 & .220	3.562	90.5	4.027	102.3		14382	14384	14386	14388
4-1/2	1 - 4	.300 - .238	4-1/4	6 - 9	.203 - .148	3.748	95.2	4.122	104.7		14392	14394	14396	14398
4-1/2	3 - 8	.238 - .165	4-1/4	10 - 13		3.874	98.4	4.342	110.3		14402	14404	14406	14408
4-1/2	6 - 12	.203 - .109				4.000	101.6	4.468	113.5		14412	14414	14416	14418

JOHN R. ROBINSON, INC.

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ROBINSON EXPANDERS

JR114 Series Boiler Expanders



SPARE ROLLERS SET MODEL NUMBER TUBESHEET THICKNESS RANGE					MANDREL SQUARE DRIVE SIZE (INCH)	SPARE MANDREL MODEL NUMBER										
1/2" TO 7/8"	3/4" TO 1-1/8"	1-1/8" TO 1-5/8"	1-5/8" TO 2-1/8"	2-1/8" TO 2-5/8"		DRUM TYPE	HEADER TYPE	SHORT SERIES 5-1/8"					SHORT SERIES 7-1/8"			
	34872	34874	34878	34948	3/4	32269	32289	32308	32309	32310	32311		34876	34948		
	34879	34881	34883	34949	3/4	32269	32289	32309	32310	32311						
34878	34879	34881	34883	34949	3/4	32270	32290	32309	32310	32311	32312					
34878	34879	34881	34883	34949	3/4	32271	32291	32311	32312	32313			32346			
34885	34886	34888	34890	34950	3/4	32270	32290	32310	32311	32312			32345			
	34893	34895	34897	34951	3/4	32270	32290	32310	32311	32312	32313					
	34893	34895	34897	34951	3/4	32271	32291	32311	32312	32313	32314					
	34893	34895	34897	34951	3/4	32272	32292	32312	32313	21214	32315	32316				
	34900	34902	34904	34952	3/4	32272	32292	32312	32313	32314	32315	32316	32347	32348	32349	
34899	34900	34902	34904	34952	3/4	32273	32293	32315	32316	32317			33630	33631		
	34907	34909	34911	34953	3/4	32273	32293	32315	32316	32317	32318	32319				
	34907	34909	34911	34953	1	32274	32294	32317	32318	32319	32320	32321				
	34914	34916	34918	34954	1	32274	32294	32318	32319	32320	32321	32322	33632	33633	33634	33635
34913	34914	34916	34918	34954	1	32275	32295	32320	32321	32322			33634	33635		
	34921	34923	34925	34955	1	32274	32294	32318	32319	32320	32321	32322				
	34921	34923	34925	34955	1	32275	32295	32321	32322	32323	32324	32325				
	34921	34923	34925	34955	1	32276	32296	32323	32324	32325	32326	32327				
	34921	34923	34925	34955	1	32277	32297	32324	32325	32326	32327	32328				
	34928	34930	34932	34956	1	32276	32296	32324	32325	32326	32327	32328				
	34928	34930	34932	34956	1	32277	32297	32326	32327	32328	32329	32330				
	34928	34930	34932	34956	1	32278	32298	32328	32329	32330	32331	32332				
	34935	34937	34939	34957	1	32277	32297	32324	32325	32326	32327	32328				
	34935	34937	34939	34957	1	32278	32298	32329	32330	32331	32332	32350				
	34935	34937	34939	34957	1	32279	32299	32331	32332	32350	32337	32338				
	34942	34944	34946	34958	1	32278	32298	32326	32327	32328	32329	32330				

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ROBINSON EXPANDERS

JRRBTE33 Series Boiler Expanders



For other sizes not shown (smaller and larger), please contact us.

TUBE SIZE						MIN ID TOOL ENTERS		MAX EXPANSION OF TOOL		TUBE EXPANDER MODEL NUMBER TUBE SHEET THICKNESS RANGE				
TUBE OD INCH	TUBE THK. (BWG)	TUBE THICK. (INCH)	TUBE OD INCH	TUBE THK. (BWG)	TUBE THK. (INCH)	INCH	MM	INCH	MM	1/2" TO 7/8"	3/4" TO 1-1/8"	1-1/8" TO 1-5/8"	1-5/8" TO 2-1/8"	2-1/8" TO 2-5/8"
1-1/2	13	0.095	1-3/4	5	0.22	1.236	31.4	1.401	35.6	33-55/2	33-55/3	33-55/4	33-55/5	33-55/6
1-1/2	14 & 15	.083 & .072	1-3/4	6	0.203	1.283	32.6	1.448	36.8	33-56/2	33-56/3	33-56/4	33-56/5	33-56/6
			1-3/4	7	0.18	1.314	33.4	1.500	38.1	33-57/2	33-57/3	33-57/4	33-57/5	33-57/6
			1-3/4	8	0.165	1.346	34.2	1.523	38.7	33-58/2	33-58/3	33-58/4	33-58/5	33-58/6
2	3	0.259	1-3/4	9 & 10	.148 & .134	1.377	35.0	1.598	40.6	33-59/2	33-59/3	33-59/4	33-59/5	33-59/6
2	4	0.238	1-3/4	11 & 12	.120 & .109	1.440	36.6	1.661	42.2	33-60/2	33-60/3	33-60/4	33-60/5	33-60/6
2	5 & 6	.220 & .203	1-3/4	13 & 14	.095 & .083	1.503	38.2	1.712	43.8	33-61/2	33-61/3	33-61/4	33-61/5	33-61/6
2	7 & 8	.180 & .165	1-3/4	15 & 16	.072 & .065	1.566	39.8	1.787	45.4	33-62/2	33-62/3	33-62/4	33-62/5	33-62/6
2	9 & 10	.148 & .134	2-1/4	3	0.259	1.629	41.4	1.850	47.0	33-63/2	33-63/3	33-63/4	33-63/5	33-63/6
2	11 - 13	.120 - .095	2-1/4	4	0.238	1.688	42.9	1.948	49.5	33-64/2	33-64/3	33-64/4	33-64/5	33-64/6
2	14 - 16	.083 - .065	2-1/4	6 & 7	.203 & .180	1.751	44.5	2.011	51.1	33-65/2	33-65/3	33-65/4	33-65/5	33-65/6
2	17 & 18	.058 - .049	2-1/4	8 & 9	.165 & .148	1.814	46.1	2.074	52.7	33-66/2	33-66/3	33-66/4	33-66/5	33-66/6
2-1/2	3	0.259	2-1/4	10 & 11	.134 & .120	1.877	47.7	2.137	54.3	33-67/2	33-67/3	33-67/4	33-67/5	33-67/6
2-1/2	4 & 5	.238 & .220	2-1/4	12 & 13	.109 & .095	1.940	49.3	2.200	55.9	33-68/2	33-68/3	33-68/4	33-68/5	33-68/6
2-1/2	6 & 7	.203 & .180	2-1/4	14 - 16	.083 - .065	2.000	50.8	2.275	57.8	33-69/2	33-69/3	33-69/4	33-69/5	33-69/6
2-1/2	8 & 9	.165 & .148	2-3/4	3	0.259	2.062	52.4	2.338	59.4	33-70/2	33-70/3	33-70/4	33-70/5	33-70/6
2-1/2	10 & 11	.134 & .120	2-3/4	4	0.238	2.125	54.0	2.401	61.0	33-71/2	33-71/3	33-71/4	33-71/5	33-71/6
2-1/2	12 - 14	.109 - .083	2-3/4	5 & 6	.220 & .203	2.188	55.6	2.519	64.0	33-72/2	33-72/3	33-72/4	33-72/5	33-72/6
2-1/2	15 & 16	.072 & .065	2-3/4	7 & 8	.180 & .165	2.251	57.2	2.582	65.6	33-73/2	33-73/3	33-73/4	33-73/5	33-73/6
3	3	0.259	2-3/4	9 & 10	.148 & .134	2.307	58.6	2.637	67.0	33-74/2	33-74/3	33-74/4	33-74/5	33-74/6
3	4	0.238	2-3/4	11 - 13	.120 & .095	2.377	60.4	2.708	68.8	33-75/2	33-75/3	33-75/4	33-75/5	33-75/6
3	5 & 6	.220 & .203	2-3/4	14 - 16	.083 - .065	2.448	62.2	2.771	70.4	33-76/2	33-76/3	33-76/4	33-76/5	33-76/6
3	7 & 8	.180 & .165				2.503	63.6	2.834	72.0	33-77/2	33-77/3	33-77/4	33-77/5	33-77/6
3	9 & 10	.148 & .134	3-1/4	3	0.259	2.559	65.0	2.889	73.4	33-78/2	33-78/3	33-78/4	33-78/5	33-78/6
3	11 - 13	.120 & .095	3-1/4	4	0.238	2.622	66.6	2.952	75.0	33-79/2	33-79/3	33-79/4	33-79/5	33-79/6
3	14 - 16	.083 - .065	3-1/4	5 & 6	.220 & .203	2.688	68.3	3.027	76.9	33-80/2	33-80/3	33-80/4	33-80/5	33-80/6
3-1/2	2	0.284	3-1/4	7 & 8	.180 & .165	2.751	69.9	3.090	78.5	33-81/2	33-81/3	33-81/4	33-81/5	33-81/6
3-1/2	3	0.259	3-1/4	9 & 10	.148 & .134	2.814	71.5	3.153	80.1	33-82/2	33-82/3	33-82/4	33-82/5	33-82/6
3-1/2	4	0.238	3-1/4	11 - 13	.120 - .095	2.877	73.1	3.216	81.7	33-83/2	33-83/3	33-83/4	33-83/5	33-83/6
3-1/2	5 & 6	.220 & .203	3-1/4	14 - 16	.083 - .065	2.937	74.6	3.314	84.2	33-84/2	33-84/3	33-84/4	33-84/5	33-84/6
3-1/2	7 & 8	.180 & .165	3-3/4	2	0.084	3.000	76.2	3.366	85.5	33-85/2	33-85/3	33-85/4	33-85/5	33-85/6
3-1/2	9 - 11	.148 - .120	3-3/4	3	0.259	3.062	77.8	3.440	87.4	33-86/2	33-86/3	33-86/4	33-86/5	33-86/6
3-1/2	12 - 16	.109 - .065	3-3/4	4	0.238	3.125	79.4	3.503	89.0	33-87/2	33-87/3	33-87/4	33-87/5	33-87/6

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38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON EXPANDERS

JRRBTE33 Series Boiler Expanders



For other sizes not shown (smaller and larger), please contact us.

SPARE ROLLERS SET MODEL NUMBER TUBESHEET THICKNESS RANGE					MANDREL SQUARE DRIVE SIZE (INCH)	SPARE MANDREL MODEL NUMBER		
1/2" TO 7/8"	3/4" TO 1-1/8"	1-1/8" TO 1-5/8"	1-5/8" TO 2-1/8"	2-1/8" TO 2-5/8"		DRUM TYPE	HEADER TYPE	SHORT SERIES MANDREL SET
33-2-F3S	33-3-F3S	33-4-F3S	33-5-F3S	33-6-F3S	1/2	DM-20	HM-20	SM-20 (2)
32-2-F3S	32-3-F3S	32-4-F3S	32-5-F3S	32-6-F3S	1/2	DM-21	HM-21	SM-21 (2)
36-2-F3S	36-3-F3S	36-4-F3S	36-5-F3S	36-6-F3S	1/2	DM-21	HM-21	SM-21 (2)
37-2-F3S	37-3-F3S	37-4-F3S	37-5-F3S	37-6-F3S	1/2	DM-21	HM-21	SM-21 (2)
33-2-F3S	33-3-F3S	33-4-F3S	33-5-F3S	33-6-F3S	3/4	DM-22	HM-22	SM-22 (3)
37-2-F3S	37-3-F3S	37-4-F3S	37-5-F3S	37-6-F3S	3/4	DM-22	HM-22	SM-22 (3)
38-2-F3S	38-3-F3S	38-4-F3S	38-5-F3S	38-6-F3S	3/4	DM-22	HM-22	SM-22 (3)
39-2-F3S	39-3-F3S	39-4-F3S	39-5-F3S	39-6-F3S	3/4	DM-22	HM-22	SM-22 (3)
40-2-F3S	40-3-F3S	40-4-F3S	40-5-F3S	40-6-F3S	3/4	DM-22	HM-22	SM-22 (3)
40-2-F3S	40-3-F3S	40-4-F3S	40-5-F3S	40-6-F3S	3/4	DM-23	HM-23	SM-23 (3)
41-2-F3S	41-3-F3S	41-4-F3S	41-5-F3S	41-6-F3S	3/4	DM-23	HM-23	SM-23 (3)
42-2-F3S	42-3-F3S	42-4-F3S	42-5-F3S	42-6-F3S	3/4	DM-23	HM-23	SM-23 (3)
43-2-F3S	43-3-F3S	43-4-F3S	43-5-F3S	43-6-F3S	3/4	DM-23	HM-23	SM-23 (3)
44-2-F3S	44-3-F3S	44-4-F3S	44-5-F3S	44-6-F3S	3/4	DM-23	HM-23	SM-23 (3)
43-2-F3S	43-3-F3S	43-4-F3S	43-5-F3S	43-6-F3S	3/4	DM-24	HM-24	SM-24 (3)
44-2-F3S	44-3-F3S	44-4-F3S	44-5-F3S	44-6-F3S	3/4	DM-24	HM-24	SM-24 (3)
45-2-F3S	45-3-F3S	45-4-F3S	45-5-F3S	45-6-F3S	3/4	DM-24	HM-24	SM-24 (3)
47-2-F3S	47-3-F3S	47-4-F3S	47-5-F3S	47-6-F3S	3/4	DM-24	HM-24	SM-24 (3)
46-2-F3S	46-3-F3S	46-4-F3S	46-5-F3S	46-6-F3S	1	DM-25	HM-25	SM-25 (3)
47-2-F3S	47-3-F3S	47-4-F3S	47-5-F3S	47-6-F3S	1	DM-25	HM-25	SM-25 (3)
48-2-F3S	48-3-F3S	48-4-F3S	48-5-F3S	48-6-F3S	1	DM-25	HM-25	SM-25 (3)
49-2-F3S	49-3-F3S	49-4-F3S	49-5-F3S	49-6-F3S	1	DM-25	HM-25	SM-25 (3)
50-2-F3S	50-3-F3S	50-4-F3S	50-5-F3S	50-6-F3S	1	DM-25	HM-25	SM-25 (3)
51-2-F3S	51-3-F3S	51-4-F3S	51-5-F3S	51-6-F3S	1	DM-25	HM-25	SM-25 (3)
52-2-F3S	52-3-F3S	52-4-F3S	52-5-F3S	52-6-F3S	1	DM-25	HM-25	SM-25 (3)
51-2-F3S	51-3-F3S	51-4-F3S	51-5-F3S	51-6-F3S	1	DM-26	HM-26	SM-26 (4)
52-2-F3S	52-3-F3S	52-4-F3S	52-5-F3S	52-6-F3S	1	DM-26	HM-26	SM-26 (4)
53-2-F3S	53-3-F3S	53-4-F3S	53-5-F3S	53-6-F3S	1	DM-26	HM-26	SM-26 (4)
54-2-F3S	54-3-F3S	54-4-F3S	54-5-F3S	54-6-F3S	1	DM-26	HM-26	SM-26 (4)
54-2-F3S	54-3-F3S	54-4-F3S	54-5-F3S	54-6-F3S	1	DM-27	HM-27	SM-27 (4)
55-2-F3S	55-3-F3S	55-4-F3S	55-5-F3S	55-6-F3S	1	DM-27	HM-27	SM-27 (4)
56-2-F3S	56-3-F3S	56-4-F3S	56-5-F3S	56-6-F3S	1	DM-27	HM-27	SM-27 (4)
57-2-F3S	57-3-F3S	57-4-F3S	57-5-F3S	57-6-F3S	1	DM-27	HM-27	SM-27 (4)

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ROBINSON

ROBINSON BOILER BRUSHES

Large diameter, single spiral wire brushes or cleaning light scale deposits in boiler tubes. Brushes are available in sizes from 1-1/4" to 5" diameter with 1/4" NPT. Additional sizes are available upon request. Also available in Stainless Steel (TBSS)



Nylon Boiler Brush **TBN**



Brass Boiler Brush **TBB**



Steel Boiler Brush **TBS**



Fiber Boiler Brush **TBF**

FTS

ROBINSON FIRE TUBE SCRAPER

Fire tube scrapers are for when steel brushes just won't do the job. This spring loaded scraper removes light scale deposits in fire side boilers. Below are scraper diameters, order tube scraper 1/4" smaller than the flue size.

1/4" Female Pipe Thread: 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"

1/2" Female Pipe Thread: 2-3/4", 3", 3-1/4", 3-1/2", 3-3/4"



JRRFH

BOILER ABRASIVE TOOL

The abrasive tool is made up of silicone carbide balls that allow the tool to clean, de-burr, and polish the inside of tubes.



JRRFH2

2"

JRRFH325

3-1/4"

JRRFH450

4-1/2"

JRRFH225

2-1/4"

JRRFH350

3-1/2"

JRRFH475

4-3/4"

JRRFH250

2-1/2"

JRRFH375

3-3/4"

JRRFH5

5"

JRRFH275

2-3/4"

JRRFH4

4"

JRRFH3

3"

JRRFH425

4-1/4"

ROBINSON BRUSH RODS AND KITS

BR1438-24 Brush rod with M x F thread. 24" long rod for 1/4", 5/16", and 3/8" tubes.

BR7161-36 Brush rod with M x F thread. 36" long rod for 7/16" to 1" tubes.

BR4-4 Brush rod with M x F thread. 4' long rod for 1-1/4" to 14" tubes.



Brush Kits for Condensers & Heat Exchangers

BR1438-24-AB27

5 ea 24" long brush rods

27 ea Brushes in 3 sizes (8-32 MT)

BR1438-24-AB27**N** = Nylon brushes

BR1438-24-AB27**B** = Brass brushes

BR1438-24-AB27**SS** = Stainless Steel
Brushes

BR1438-24-AB27**MIX** = 3 brushes
of each size in each material (nylon,
brass, and stainless steel)

BR1438-24-AB6

5 ea 24" long brush rods

6 ea Brushes; 2 ea 1/4", 5/16", 3/8"

BR7161-36-AB7

7 ea 36" long rods

7 ea Mixed brushes: 3 nylon, 2 brass,
and 2 stainless steel. Sizes: 7/16" – 1"
brushes with 1/4-28MT

BR7161-36-AB70

5 ea 36" long brush rods

70 ea Mixed brushes: 3 nylon brushes,
2 brass brushes, and 2 stainless steel
brushes in 10 different sizes for a total of
70 brushes.

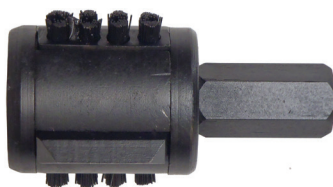
Sizes: 7/16" – 1" brushes with 1/4-28MT

JOHN R. ROBINSON, INC.

38-05 30th Street, Long Island City, NY 11101 U.S.A.

ROBINSON

ROBINSON BOILER TOOLS



REXS ROBINSON EXPANDING SCRAPER AND BRUSH

With two scrapers and two brushes, this tool is great for thin scale, or soot. Available for tubes 1-1/4" to 4"



FT5 ROBINSON FLARING TOOL

Flaring tools are designed to flare tube OD's from 1/2" to 1-1/2". Equipped with an 06 shank for use with a ROBINSON chipping hammer or manual use.



BT ROBINSON BEADING TOOL

BT532 5/32" Radius
BT14 1/2" Radius

DE DRIVE EXTENSION MALE x MALE

(contact us for other lengths)



Square Sizes	Part Number	OAL	Dia.
3/8"	DE38-6	6"	1/2"
	DE38-12	12"	
1/2"	DE12-6	6"	5/8"
	DE12-12	12"	
3/4"	DE34-6	6"	1"
	DE34-12	12"	
1"	DE1-6	6"	1-1/4"



EC EXTENSION COUPLING FEMALE x FEMALE

Square Size	Part Number
3/8" x 3/8"	EC3838
1/2" x 1/2"	EC1212
1/2" x 1"	EC121
3/4" x 3/4"	EC3434
3/4" x 1"	EC341
1" x 1"	EC11



DUJ DOUBLE UNIVERSAL JOINT FEMALE x FEMALE

Square Size	Part Number
3/8"	DUJ38
1/2"	DUJ12
3/4"	DUJ34
1"	DUJ1

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Toll Free: 1-800-726-1026 Tel: 718-786-6088 www.johnrrobinsoninc.com Email: jrrinc@earthlink.net

ROBINSON

NEW!

ROBINSON COIL CLEANER

JR700S Coiler Cleaner is ideal for all commercial and industrial applications. Equipped with a siphon feature, the JR700S makes cleaning coils, walls, floors, machinery, equipment, and cleaning from remote locations a breeze. The siphon feature allows the unit to siphon from a container for operator ease while allowing the system to vent trapped air.



By simply turning a knob on the machine, the operator can select the desired operating pressure from 0 to 700 PSI. An injector allows the operator to control the addition of soap or chemicals during cleanings by a simple push-pull motion on the barrel of the nozzle. The injector is adjustable so that the ratio of soap to water can be changed from 0 to approximately a 10% mix depending on the viscosity of the soap or chemical used. Chemicals do not pass through the pump, lengthening the pumps life.

JR700S	
Electric Operation	110 V
Motor Power	3/4 HP, 1725 RPM, 115 VAC 60Hz (220 Volt 50 Hz Motor Available)
Amps	7.5 Amps
PSI	0 - 700 Variable Pressure
GPM	1.5 GPM
Hose	15' x 1/4" ID
Connection	Recessed Male Power Receptacle
Siphon Water	Yes
Wand	24" Insulated Wand
Nozzle	Hi-Lo Adjustable Angle Nozzle w/Chemical Injector Control
Weight	40 lbs

The JR700S is equipped with a "Hi-Lo" nozzle which offers maximum versatility. The operator can apply cleaners at low pressure or rinse at high pressure, by a simple push-pull adjustment of the nozzle. By rotating the barrel of the nozzle, the spray pattern can be changed from 0 degrees (for maximum penetration and power) to any desired fan shaped pattern.

CD III CLEANER & DEGREASER

This all-purpose cleaner is biodegradable. The CD III is the perfect match for JR700S pressure washer.

Case of 4 – 1 gallon bottles



6520 COIL CLEANER & BRIGHTENER

The 6520 is an industrial strength non-acid and non-fuming cleaner and brightener. Foaming action clings to surfaces and penetrates down to inaccessible areas. Renews condenser coils, evaporator coils, and mechanical equipment.

Case of 4 – 1 gallon bottles



JOHN R. ROBINSON, INC.

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ROBINSON

EASY CONVERSION CHART

MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction	MM	Decimal	Fraction
0.1	.0039		5.2	.2047		10.319	.4063	13/32	15.5	.6102		20.638	.8125	13/16
0.2	.0079		5.3	.2087		10.4	.4094		15.6	.6142		20.7	.8150	
0.3	.0118		5.4	.2126		10.5	.4134		15.7	.6181		20.8	.8189	
0.397	.0156	1/64	5.5	.2165		10.6	.4173		15.8	.6220		20.9	.8228	
0.4	.0157		5.556	.2188	7/32	10.7	.4213		15.875	.6250	5/8	21.0	.8268	
0.5	.0197		5.6	.2205		10.716	.4219	27/64	15.9	.6260		21.034	.8281	53/64
0.6	.0236		5.7	.2244		10.8	.4252		16.0	.6299		21.1	.8307	
0.7	.0276		5.8	.2283		10.9	.4291		16.1	.6339		21.2	.8346	
0.794	.0313	1/32	5.9	.2323		11.0	.4331		16.2	.6378		21.3	.8386	
0.8	.0315		5.953	.2344	15/64	11.1	.4370		16.272	.6406	41/64	21.4	.8425	
0.9	.0354		6.0	.2362		11.113	.4375	7/16	16.3	.6417		21.431	.8438	27/32
1.0	.0394		6.1	.2402		11.2	.4409		16.4	.6457		21.5	.8465	
1.1	.0433		6.2	.2441		11.3	.4449		16.5	.6496		21.6	.8504	
1.191	.0469	3/64	6.3	.2480		11.4	.4488		16.6	.6535		21.7	.8543	
1.2	.0472		6.350	.2500	1/4	11.5	.4528		16.669	.6563	21/32	21.8	.8583	
1.3	.0512		6.4	.2520		11.509	.4531	29/64	16.7	.6575		21.828	.8594	55/64
1.4	.0551		6.5	.2559		11.6	.4567		16.8	.6614		21.9	.8622	
1.5	.0591		6.6	.2598		11.7	.4606		16.9	.6654		22.0	.8661	
1.588	.0625	1/16	6.7	.2638		11.8	.4646		17.0	.6693		22.1	.8701	
1.6	.0630		6.747	.2656	17/64	11.9	.4685		17.066	.6719	43/64	22.2	.8740	
1.7	.0669		6.8	.2677		11.906	.4688	15/32	17.1	.6732		22.225	.8750	7/8
1.8	.0709		6.9	.2717		12.0	.4724		17.2	.6772		22.3	.8780	
1.9	.0748		7.0	.2756		12.1	.4764		17.3	.6811		22.4	.8819	
1.984	.0781	5/64	7.1	.2795		12.2	.4803		17.4	.6850		22.5	.8858	
2.0	.0787		7.144	.2813	9/32	12.3	.4843		17.463	.6875	11/16	22.6	.8898	
2.1	.0827		7.2	.2835		12.303	.4844	31/64	17.5	.6890		22.622	.8906	57/64
2.2	.0866		7.3	.2874		12.4	.4882		17.6	.6929		22.7	.8937	
2.3	.0906		7.4	.2913		12.5	.4921		17.7	.6968		22.8	.8976	
2.381	.0938	3/32	7.5	.2953		12.6	.4961		17.8	.7008		22.9	.9016	
2.4	.0945		7.541	.2969	19/64	12.700	.5000	1/2	17.859	.7031	45/64	23.0	.9055	
2.5	.0984		7.6	.2992		12.8	.5039		17.9	.7047		23.019	.9063	29/32
2.6	.1024		7.7	.3031		12.9	.5079		18.0	.7087		23.1	.9094	
2.7	.1063		7.8	.3071		13.0	.5118		18.1	.7126		23.2	.9134	
2.778	.1094	7/64	7.9	.3110		13.097	.5156	33/64	18.2	.7165		23.3	.9173	
2.8	.1102		7.938	.3125	5/16	13.1	.5157		18.256	.7188	23/32	23.4	.9213	
2.9	.1142		8.0	.3150		13.2	.5197		18.3	.7205		23.416	.9219	59/64
3.0	.1181		8.1	.3189		13.3	.5236		18.4	.7244		23.5	.9252	
3.1	.1220		8.2	.3228		13.4	.5276		18.5	.7283		23.6	.9291	
3.175	.1250	1/8	8.3	.3268		13.494	.5313	17/32	18.6	.7323		23.7	.9331	
3.2	.1260		8.334	.3281	21/64	13.5	.5315		18.653	.7344	47/64	23.8	.9370	
3.3	.1299		8.4	.3307		13.6	.5354		18.7	.7362		23.813	.9375	15/16
3.4	.1339		8.5	.3346		13.7	.5394		18.8	.7402		23.9	.9409	
3.5	.1378		8.6	.3386		13.8	.5433		18.9	.7441		24.0	.9449	
3.572	.1406	9/64	8.7	.3425		13.891	.5469	35/64	19.0	.7480		24.1	.9488	
3.6	.1417		8.731	.3438	11/32	13.9	.5472		19.050	.7500	3/4	24.2	.9528	
3.7	.1457		8.8	.3465		14.0	.5512		19.1	.7520		24.209	.9531	61/64
3.8	.1496		8.9	.3504		14.1	.5551		19.2	.7559		24.3	.9567	
3.9	.1535		9.0	.3543		14.2	.5591		19.3	.7598		24.4	.9606	
3.969	.1563	5/32	9.1	.3583		14.288	.5625	9/16	19.4	.7638		24.5	.9646	
4.0	.1575		9.128	.3594	23/64	14.3	.5630		19.447	.7656	49/64	24.6	.9685	
4.1	.1614		9.2	.3622		14.4	.5669		19.5	.7677		24.606	.9688	31/32
4.2	.1654		9.3	.3661		14.5	.5709		19.6	.7717		24.7	.9724	
4.3	.1693		9.4	.3701		14.6	.5748		19.7	.7756		24.8	.9764	
4.366	.1719	11/64	9.5	.3740		14.684	.5781	37/64	19.8	.7795		24.9	.9803	
4.4	.1732		9.525	.3750	3/8	14.7	.5787		19.844	.7813	25/32	25.0	.9843	
4.5	.1772		9.6	.3780		14.8	.5827		19.9	.7835		25.003	.9844	63/64
4.6	.1811		9.7	.3819		14.9	.5866		20.0	.7874		25.1	.9882	
4.7	.1850		9.8	.3858		15.0	.5906		20.1	.7913		25.2	.9921	
4.763	.1875	3/16	9.9	.3898		15.081	.5938	19/32	20.2	.7953		25.3	.9961	
4.8	.1890		9.922	.3906	25/64	15.1	.5945		20.241	.7969	51/64	25.400	1.0000	1
4.9	.1929		10.0	.3937		15.2	.5984		20.3	.7992				
5.0	.1969		10.1	.3976		15.3	.6024		20.4	.8031				
5.1	.2008		10.2	.4016		15.4	.6063		20.5	.8071				
5.159	.2031	13/64	10.3	.4055		15.478	.6094	39/64	20.6	.8110				

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TO DETERMINE TUBE *INSIDE* DIAMETER

Thickness of wall in Birmingham Wire Gauge (BWG)

B.W.G. Wall Thickness	0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	0.380	0.340	0.300	0.284	0.259	0.238	0.220	0.203	0.180	0.165	0.148	0.134	0.120	0.109	0.095	0.083	0.072	0.065	0.058	0.049	0.042	0.035	0.032	0.028	0.025	0.022	
Inside Tube Diameter																											
1/4"														0.320	0.060	0.084	0.106	0.120	0.134	0.152	0.166	0.180	0.186	0.194	0.200	0.206	
3/8"										0.045	0.079	0.107	0.135	0.157	0.185	0.209	0.231	0.245	0.259	0.277	0.291	0.305	0.311	0.319	0.335	0.331	
1/2"						0.024	0.060	0.094	0.140	0.170	0.204	0.232	0.260	0.282	0.310	0.334	0.356	0.370	0.384	0.402	0.416	0.430	0.436	0.444	0.450	0.456	
5/8"			0.025	0.057	0.107	0.149	0.185	0.219	0.265	0.295	0.329	0.357	0.385	0.407	0.435	0.459	0.481	0.495	0.509	0.527	0.541	0.555	0.561	0.569	0.575	0.581	
3/4"		0.070	0.150	0.182	0.232	0.274	0.310	0.344	0.390	0.420	0.454	0.482	0.510	0.532	0.560	0.584	0.606	0.620	0.634	0.652	0.666	0.680	0.686	0.694	0.700	0.706	
7/8"	0.115	0.195	0.275	0.307	0.357	0.399	0.435	0.469	0.515	0.545	0.579	0.607	0.635	0.657	0.685	0.709	0.731	0.745	0.759	0.777	0.791	0.805	0.811	0.819	0.825	0.831	
1"	0.240	0.320	0.400	0.432	0.482	0.524	0.560	0.594	0.640	0.670	0.704	0.732	0.760	0.782	0.810	0.834	0.856	0.870	0.884	0.902	0.916	0.930	0.936	0.944	0.950	0.956	
1-1/4"	0.490	0.570	0.650	0.682	0.732	0.744	0.810	0.844	0.890	0.920	0.954	0.982	1.010	1.032	1.060	1.084	1.106	1.120	1.134	1.152	1.166	1.180	1.186	1.194	1.200	1.206	
1-1/2"	0.740	0.820	0.900	0.932	0.982	1.024	1.060	1.094	1.140	1.170	1.204	1.232	1.260	1.282	1.310	1.334	1.356	1.370	1.384	1.402	1.416	1.430	1.436	1.444	1.450	1.456	
1-3/4"	0.990	1.070	1.150	1.182	1.232	1.274	1.310	1.344	1.390	1.420	1.454	1.482	1.510	1.532	1.560	1.584	1.606	1.620	1.634	1.652	1.666	1.680	1.686	1.694	1.700	1.706	
2"	1.240	1.320	1.400	1.432	1.482	1.524	1.560	1.594	1.640	1.670	1.704	1.732	1.760	1.782	1.810	1.834	1.856	1.870	1.884	1.902	1.916	1.930	1.935	1.944	1.950	1.956	
2-1/4"	1.490	1.570	1.650	1.682	1.732	1.774	1.810	1.844	1.890	1.920	1.954	1.982	2.010	2.032	2.060	2.084	2.106	2.120	2.134	2.152							
2-1/2"	1.740	1.820	1.900	1.932	1.982	2.024	2.050	2.094	2.140	2.170	2.204	2.232	2.260	2.282	2.310	2.334	2.356	2.370	2.384	2.402							
2-3/4"	1.990	2.070	2.150	2.182	2.232	2.274	2.310	2.344	2.390	2.420	2.454	2.482	2.510	2.532	2.560	2.584	2.606	2.620	2.634	2.652							
3'	2.240	2.320	2.400	2.432	2.482	2.524	2.560	2.594	2.640	2.670	2.704	2.732	2.760	2.782	2.810	2.834	2.856	2.870	2.884	2.902							
3-1/4"	2.490	2.570	2.650	2.682	2.732	2.774	2.810	2.844	2.890	2.920	2.954	2.982	3.010	3.032	3.060	3.084	3.106	3.120	3.134	3.152							
3-1/2"	2.470	2.820	2.900	2.932	2.982	3.024	3.060	3.094	3.140	3.170	3.204	3.232	3.260	3.282	3.310	3.334	3.356	3.370	3.384	3.402							
3-3/4"	2.990	3.070	3.150	3.182	3.232	3.274	3.310	3.344	3.390	3.420	3.454	3.482	3.510	3.532	3.560	3.584	3.606	3.620	3.634	3.652							
4"	3.240	3.320	3.400	3.432	3.482	3.524	3.560	3.594	3.640	3.670	3.704	3.732	3.760	3.782	3.810	3.834	3.856	3.870	3.884	3.902							
4-1/4"	3.490	3.570	3.650	3.682	3.732	3.744	3.810	3.844	3.890	3.920	3.954	3.982	4.010	4.032	4.060	4.084	4.106	4.120	4.134	4.152							
4-1/2"	3.740	3.820	3.900	3.932	3.982	4.024	4.060	4.094	4.140	4.170	4.204	4.232	4.260	4.282	4.310	4.344	4.356	4.370	4.384	4.402							

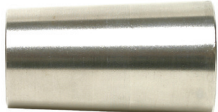
Additional Birmingham Wire Gauges

BWG	25	26	27	28	29	30	31	32
Thickness	.020	.018	.016	.014	.013	.012	.010	.009

ROBINSON BOILER PLUGS

JRRT28S SOLID STEEL BOILER PLUGS

Tapered drive-in style plug that offer great weld-ability to the boiler tubes. Although fusing the plug to the tube is optional, as hammering the plug into the tube creates a tight seal. Material certs provided upon request.



O.D.	GAUGE	PART NUMBER
2"	10 - 13	JRRT28S21013
2-1/2"	10 - 13	JRRT28S251013
3"	10 - 13	JRRT28S31013

JRRT19CI Cast Iron Boiler Plugs

Tapered durable hollow plugs used to seal leaky boiler tubes. Size stamped on the large end for quick identification on the job site



O.D.	GAUGE	PART NUMBER
2"	10 - 13	JRRT19CI21013
2-1/2"	10 - 13	JRRT19CI251013
3"	10 - 13	JRRT19CI31013
3-1/2"	10 - 13	JRRT19CI351013
4"	10 - 13	JRRT19CI41013