

R_x DRILLERS[®]



Hex Washer Head, Zinc

Applications

- Frame assembly for carport industry.
- Retrofit framing.
- Roof clip to steel framing.
- Accessories to steel framing.

Product Features

- Specialized point design to improve drilling performance with less effort.
- Long point design maximizes pullout performance and allows for extra drilling capacity.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
12-14 x 3/4"	#3	12X.75RX	.035 - .210	2,500
12-14 x 1"	#3	12X1RX	.035 - .210	2,500
12-14 x 1-1/4"	#3	12X1.25RX	.035 - .210	2,500
12-14 x 1-1/2"	#3	12X1.5RX	.035 - .210	2,500
12-14 x 2"	#3	12X2RX	.035 - .210	2,500

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	142	211	289	341	551	757	1063	1631	2998

		Shear Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge (lapped)								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	-	-	-	769	1358	1620	1970	1986	-

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Driller. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

		Fastener Strength Values		
Fastener		Steel		
Size		Tensile	Shear	Torque
12-14		2778	2000	92

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

R_x DRILLERS[®]



Hex Washer Head w/Washer, Zinc Applications

- Mansard panel to structure.
- Wall panels to girder.
- Roof panels to purlin or joist.
- Steel roofing & sheeting to metal frame structure.

Product Features

- High tensile steel with vulcanized EPDM rubber bonded washer eliminates ozone breakdown and washer leaks.
- Dual seal washer design helps prevent leaks.
- Specialized point design to improve drilling performance with less effort.
- Long point design maximizes pullout performance and allows for extra drilling capacity.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
12-14 x 3/4"	#3	12X.75RXWW	.035 - .210	2,500
12-14 x 1"	#3	12X1RXWW	.035 - .210	2,500
12-14 x 1-1/4"	#3	12X1.25RXWW	.035 - .210	2,500
12-14 x 1-1/2"	#3	12X1.5RXWW	.035 - .210	2,500
12-14 x 2"	#3	12X2RXWW	.035 - .210	2,500
1/4-14 x 7/8	#1	LAPRX	.018 - .090	2,500

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	142	211	289	341	551	757	1063	1631	2998
1/4-14	#1	208	329	428	562	800	1151	-	-	-

		Shear Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge (lapped)								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	-	-	-	769	1358	1620	1970	1986	-
1/4-14	#1	511	849	885	1244	1764	-	-	-	-

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Rx Driller. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

		Fastener Strength Values		
Fastener		Steel		
Size		Tensile	Shear	Torque
12-14		2778	2000	92
1/4-14		4060	2600	150

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

R_xI DRILLER™



Hex Washer Head w/Washer, Coated Applications

- Mansard panel to structure.
- Wall panels to girder.
- Roof panels to purlin or joist.
- Steel roofing & sheeting to metal frame structure.

Product Features

- Specialized point design to improve drilling performance with less effort.
- Long point design maximizes pullout performance and allows for extra drilling capacity.
- EPDM rubber washer for increased washer life.
- Positive seal when driven at odd angles.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
12-14 x 3/4"	#3	.75RXISD	.035 - .210	2,500
12-14 x 1"	#3	1RXISD	.035 - .210	2,500
12-14 x 1-1/4"	#3	1.25RXISD	.035 - .210	2,500
1/4-14 x 7/8"	#1	LAPRXISD	.018 - .090	2,500

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	142	211	289	341	551	757	1063	1631	2998
1/4-14	#1	208	329	428	562	800	1151	-	-	-

		Shear Values (Avg. Lbs. Ultimate)								
Fastener		Steel Gauge (lapped)								
Size	Pt.	26	24	22	20	18	16	14	12	3/16
12-14	#3	-	-	-	769	1358	1620	1970	1986	-
1/4-14	#1	511	849	885	1244	1764	-	-	-	-

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Rxi Driller. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

		Fastener Strength Values		
Fastener		Steel		
Size		Tensile	Shear	Torque
12-14		2778	2000	92
1/4-14		4060	2600	150

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

SELF DRILLERS



Hex Washer Head, Zinc

Applications

- Roof deck to steel framing.
- Accessories to steel framing.
- Attach clips to steel framing.

Product Features

- Engineered for faster drilling and tapping with less effort.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
12-14 x 2-1/2	#3	12X2.5HSD	.035 - .210	1,500
12-14 x 3	#3	12X3HSD	.035 - .210	1,000
12-14 x 4	#3	12X4HSD	.035 - .210	500
14-14 x 3/4	#3	14X.75HSD	.060 - .220	2,500
14-14 x 1	#3	14X1HSD	.060 - .220	2,500
14-14 x 1-1/4	#3	14X1.25HSD	.060 - .220	2,000
14-14 x 1-1/2	#3	14X1.5HSD	.060 - .220	2,000
14-14 x 2	#3	14X2HSD	.060 - .220	2,000
14-14 x 2-1/2	#3	14X2.5HSD	.060 - .220	1,000
14-14 x 3	#3	14X3HSD	.060 - .220	1,000
14-14 x 4	#3	14X4HSD	.060 - .220	500

Other configurations of this product are available upon request.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Self Drillers. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)						Shear Values (Avg. Lbs. Ultimate)						Fastener Values		
Fastener		Steel Gauge						Steel Gauge (lapped)						Steel		
Size	Pt.	18	16	14	12	1/8	3/16	20	18	16	14	12	1/8	Tensile	Shear	Torque
12-14	3	537	737	1034	1585	2349	2911	749	1320	1574	1914	1929	-	2874	2089	94
14-14	3	595	856	1114	1805	2337	4416	905	1401	2040	2509	2573	2738	4146	2875	145

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

SELF DRILLERS



Hex Washer Head w/Washer, Zinc Applications

- Roof panels to purlin or bar joist.
- Wall panels to girt.
- Longer lengths for thick insulation or retrofit applications.
- Stitch roof and wall panels.

Product Features

- High tensile steel with vulcanized EPDM rubber bonded washer eliminates ozone breakdown and washer leaks.
- Dual seal washer design helps prevent leaks.
- Engineered for faster drilling and tapping with less effort.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
12-14 x 2-1/2	#3	12X2.5HSDWW	.035 - .210	1,000
12-14 x 3	#3	12X3HSDWW	.035 - .210	1,000
12-14 x 4	#3	12X4HSDWW	.035 - .210	500
14-14 x 3/4	#3	14X.75HSDWW	.060 - .220	2,500
14-14 x 1	#3	14X1HSDWW	.060 - .220	2,500
14-14 x 1-1/4	#3	14X1.25HSDWW	.060 - .220	2,500
14-14 x 1-1/2	#3	14X1.5HSDWW	.060 - .220	2,000
14-14 x 2	#3	14X2HSDWW	.060 - .220	1,500
14-14 x 2-1/2	#3	14X2.5HSDWW	.060 - .220	1,000
14-14 x 3	#3	14X3HSDWW	.060 - .220	1,000
14-14 x 4	#3	14X4HSDWW	.060 - .220	500

Other configurations of this product are available upon request.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Self Drillers. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Performance Data

Fastener		Pullout Values (Avg. Lbs. Ultimate)							Shear Values (Avg. Lbs. Ultimate)							Fastener Values		
		Steel Gauge							Steel Gauge (lapped)							Steel		
Size	Pt.	18	16	14	12	1/8	3/16	20	18	16	14	12	1/8	Tensile	Shear	Torque		
12-14	3	537	737	1034	1585	2349	2911	749	1320	1574	1914	1929	-	2874	2089	94		
14-14	3	595	856	1114	1805	2337	4416	905	1401	2040	2509	2573	2738	4146	2875	145		

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

HEAVY DUTY DRILLERS

Hex Washer Head, Coated

Applications

- Clips to structural steel or bar joist.
- Panels to bar joist or structural steel.
- Metal decking to structural steel or bar joist.
- Longer lengths for retrofit applications into bar joist or structural steel.

Product Features

- Engineered for faster drilling and tapping with less effort.
- Specially designed point will drill and tap in steel up to 1/2”.



Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Max. Material Attachment	Box Quantity
12-24 x 1-1/4"	#5	1.25#5HSDC	.125 - .500	.375	2,500
12-24 x 1-1/2"	#5	1.5#5HSDC	.125 - .500	.625	2,500
12-24 x 2"	#5	2#5HSDC	.125 - .500	1.125	2,500

Other configurations of this product are available upon request.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Heavy Duty Drillers. For optimal fastener performance, the screw gun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)					Shear Values (Avg. Lbs. Ultimate)					Fastener Values		
Fastener		Steel Gauge					Steel Gauge (lapped)					Steel		
Size	Pt.	16	14	12	3/16	1/4	16	14	12	3/16	1/4	Tensile	Shear	Torque
12-24	5	-	-	1527	3701	3999	-	-	1527	3701	3999	3020	2100	100

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Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

HEAVY DUTY DRILLERS



Hex Washer Head w/Washer, Coated Applications

- Clips to structural steel or bar joist.
- Panels to bar joist or structural steel.
- Metal decking to structural steel or bar joist.
- Longer lengths for retrofit applications into bar joist or structural steel.

Product Features

- Engineered for faster drilling and tapping with less effort.
- Specially designed point will drill and tap in steel up to 1/2".
- High tensile steel with vulcanized EPDM rubber bonded washers. eliminates ozone breakdown and water leaks.
- Dual seal washer design helps prevent leaks.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Max. Material Attachment	Box Quantity
12-24 x 1-1/4"	#5	1.25#5HSDCWW	.125 - .500	.375	2,500
12-24 x 1-1/2"	#5	1.5#5HSDCWW	.125 - .500	.625	2,500
12-24 x 2"	#5	2#5HSDCWW	.125 - .500	1.125	2,000

Other configurations of this product are available upon request.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Heavy Duty Drillers. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)					Shear Values (Avg. Lbs. Ultimate)					Fastener Values		
Fastener		Steel Gauge					Steel Gauge (lapped)					Steel		
Size	Pt.	16	14	12	3/16	1/4	16	14	12	3/16	1/4	Tensile	Shear	Torque
12-24	5	-	-	1527	3701	3999	-	-	1527	3701	3999	3020	2100	100

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.

SMALL DIAMETER SELF DRILLERS



Hex Washer Head, Zinc

Applications

- HVAC, electrical and accessories to steel framing.
- Commercial and residential steel framing.
- Hat channel to stud.
- Track to studs.

Product Features

- Engineered for faster drilling and tapping with less effort.

Selector Guide

Description	Drill Point	Part Number	Drill & Tap Capacity	Box Quantity
8-18 x 1/2	#2	8X.5HSD	.035 - .100	5,000
8-18 x 5/8	#2	8X.625HSD	.035 - .100	5,000
8-18 x 3/4	#2	8X.75XHSD	.035 - .100	5,000
10-16 x 1/2	#2	10X.5HSD	.035 - .110	5,000
10-16 x 5/8	#2	10X.625HSD	.035 - .110	5,000
10-16 x 3/4	#3	10X.75HSD	.035 - .176	5,000

Other configurations of this product are available upon request.

Installation Guidelines

- A standard screwgun with a depth sensitive nosepiece should be used to install Self Drillers. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
- Adjust the screwgun nosepiece to properly seat the fastener.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

Performance Data

		Pullout Values (Avg. Lbs. Ultimate)						Shear Values (Avg. Lbs. Ultimate)						Fastener Values		
Fastener		Steel Gauge						Steel Gauge (lapped)						Steel		
Size	Pt.	22	20	18	16	14	12	22	20	18	16	14	12	Tensile	Shear	Torque
8-18	2	260	292	479	685	933	1533	546	721	1031	1049	-	-	2051	1523	45
10-16	2	267	360	534	763	1005	1606	574	808	1173	1233	-	-	3102	1934	64
10-16	3	261	293	487	690	941	1432	-	709	1231	1497	1508	-	3115	1946	65

The values listed are ultimate averages achieved under laboratory conditions and apply to Rosko Fasteners only. Appropriate safety factors should be applied to these values for design purposes.

Note: Rosko Fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application.