



## **RELIABILITY**

# **There is only one original!**

Situated in Sweden's principal sailing centre - Marstrand - Rutgerson has developed innovative high quality equipment for demanding yacht owners since the early '70s. In our line of sail hardware, you will recognise a range of market leading products.

For more details visit our web site at [www.rutgerson.se](http://www.rutgerson.se)

# **RUTGERSON**

*Best in action*

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## Rutgerson® Super Rings

The Rutgerson Super-Ring system leads the way in a new generation of sailmaking hardware.

The SR-rings are made of a high grade molybdenum stainless steel ( better than AISI 316 ). They are light, strong, thin and corrosion resistant. They are easy to install or remove, reliable and competitively priced. Rutgerson Super Rings are the benchmark for sailmaking rings and used by the majority of sailmakers in the world today.

The rings are made up of three parts : toothed washer, centre piece and plastic insert. Remember only Rutgerson rings have their own ingenious ring remover see page 48.



Description	Final inner Ø of ring in mm	Use hole punch Ø in mm	Patch weight in US oz	Press force on dies	Approx Max Load in kg	Box qty
SR10	10 mm	11 mm	25-35 oz	by hand	150-250	100
SR12	12 mm	13 mm	25-35 oz	by hand	300-350	100
SR14	14 mm	15 mm	25-40 oz	3-5 ton / by hand	350-500	100
SR14 Long	14 mm	15 mm	25-40 oz	3-5 ton / by hand	350-500	50
SR20	20 mm	22 mm	40-70 oz	11-13 ton	700-1500	100
SR20 Light Duty	20 mm	22 mm	30-70 oz	8-10 ton	600-1125	100
SR25	25 mm	28 mm	50-70 oz	15 ton	1000-1600	100
SR25 Light Duty	25 mm	28 mm	50-70 oz	11-13 ton	750-1300	100
SR35	35 mm	38 mm	70-90 oz	22 ton	1455-2045	50
SR45	45 mm	48 mm	80-100 oz	25 ton	2000-2500	20
SR55	55 mm	60 mm	80-100 oz	25 ton(1st press)	2800-3200	1

## Rutgerson® Titanium Super Rings

Rutgerson has taken the famous Super Ring concept to the next level by making the latest version out of titanium. The titanium rings weigh 50% less than the super rings made of stainless steel. Titanium is a non conductive material , so it is the best insurance against corrosion.

Description	Final inner Ø of ring in mm	Use hole punch Ø in mm	Patch weight in US oz	Press force on dies	Approx Max Load in kg	Box qty
SR14	14mm	15mm	25-40oz	3-5 ton by hand	350-500	30
SR20	20 mm	22 mm	40-70 oz	11-13 ton	700-1500	20
SR25	25 mm	28 mm	50-70 oz	15 ton	1000-1600	20
SR35	35 mm	38 mm	70-90 oz	22 ton	1455-2045	25
SR45	45 mm	48 mm	80-100 oz	25 ton	2000-2500	10

Part No	Description
R1000-10	SR10
R1000-12	SR12
R1000-14	SR14
R1000-14L	SR14 Long
R3000-14	SR14 Titanium Ring
R1000-20	SR20
R1000-20LD	SR20 Light Duty
R3000-20	SR 20 Titanium Ring
R1000-25	SR25
R1000-25LD	SR25 Light Duty
R3000-25	SR 25 Titanium Ring
R1000-35	SR35
R3000-35	SR 35 Titanium Ring
R1000-45	SR45
R3000-45	SR 45 Titanium Ring
R1000-55	SR55



Titanium Super Ring

## Stainless Steel Round Rings

Highly polished 316 stainless steel and TIG welded for 100% reliability.

Part No	Internal Diameter ID in mm	Bar Thickness T in mm	Breaking Load in kg
HLCT 0713	25mm	5mm	1750Kg
HLCT 0716	30mm	5mm	1750Kg
HLCT 0717	35mm	6mm	3000Kg
HLCT 0718	30mm	6mm	3000Kg
HCGRE (EX USA)	32mm	8mm	5137Kg
HLCT 0720	40mm	6mm	3000Kg
HLCT 0721	40mm	8mm	4750Kg
HCGRH (EX USA)	38mm	9.5mm	7386Kg
HLCT 0723	45mm	8mm	3000Kg
HLCT 0725	50mm	8mm	4750Kg
HLCT 0728	60mm	8mm	4750Kg
HLCT 0729	75mm	8mm	4750Kg
HLCT 0916 (D Ring)	35mm	4mm	



## Stainless Steel Maxi Rings ex USA

Highly polished 316 stainless steel and TIG welded for 100% reliability.

Part No	Internal Width for webbing in mm	Bar Thickness T in mm	Breaking Load in kg
HCGRW	38mm	9.5mm	8164
HCGRX	51mm	11.1mm	11500
HCGRY	63mm	12.7mm	13607
HCGRZ	75mm	15.9mm	22226



## Stimpson® Spur Toothed Grommets Nickel Plated

Top quality American made Stimpson grommets. The preferred choice where a substantial grommet is required for strength and reliability.

Part No	Grommet Size	Inner Diameter in mm	Boxed Qty
HCGN0	No 0	6.3mm	144
HCGN1	No 1	7.9mm	144
HCGN2	No 2	9.4mm	144
HCGN3	No 3	11.1mm	144
HCGN4	No 4	12.7mm	144
HCGN5	No 5	15.8mm	144



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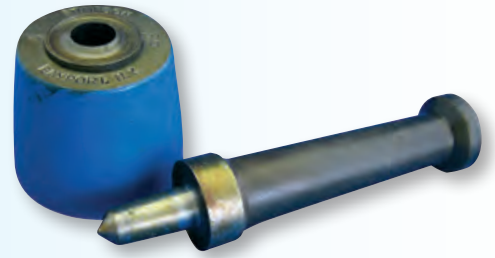
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## Closing Tool For Stimpson® Grommets

Top quality hardened tools to compliment the Stimpson grommets range. Use plastic faced hammers (see page 55) and when using hardened tools always wear appropriate protective eye covering in case of the tool shattering.

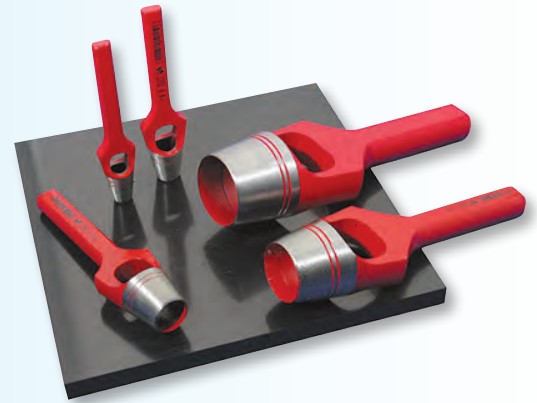
Part No	Grommet Size
HCGC0	No 0
HCGC1	No 1
HCGC2	No 2
HCGC3	No 3
HCGC4	No 4
HCGC5	No 5



## Hole Punches

These hole punches are produced from high quality tool steel to an exact specification. They are long lasting and trouble free. Use a plastic faced hammer (see page 55).

Part No	Hole Diameter in mm	Use for Ring or Grommet
R1060-09	9mm	No 0
R1060-11	11mm	No 1 & SR10
R1060-13	13mm	No 2-No 3 & SR12
R1060-15	15mm	No 4 & SR14
R1060-19	19mm	No 5
R1060-22	22mm	No 6 & SR20
R1060-28	28mm	SR25
R1060-38	38mm	SR35
R1060-48	48mm	SR45
R1060-60	60mm	SR55
HCTGCP	Vinyl Cutting Pad	



## Rutgerson® Wire Support Thimble Fitting

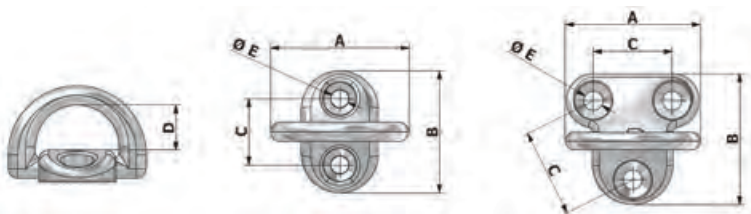
Part No	Max Wire Ø in mm	For SR-Ring
R1020-14	5	SR14L - Box =100
R1020-20	6	SR20 - Box =100
R1020-45	8	SR45 - Box = 25



## Symmetrical Padeyes

The padeyes are made of high quality stainless steel and available in three different sizes. These are excellent for mounting blocks on deck or as attachment points for safety lines, staysails, reefing blocks, jibe preventors and many other applications. The rings change angle and fold down when not under load to minimise risk of hurting the crew and equipment.

Part No	A MM	B MM	C MM	D MM	E MM	Safe Work Load KG	Break Load KG	Price Each
RE030010	43	40	23	14	5.5	850	150	\$13.90
RE030020	45	39	27	16	6.5	1100	2200	\$25.70
RE030030	60	58	35	21	8.5	1750	3500	\$36.85



## Rutgerson® Super Ring Press Tools

Replacement parts are no longer available. For best results lubricate. Do not over press as this will damage your tools. The press tools for the SR10 and SR12 are suitable for hand hammering or hydraulic press operation.

The SR55 requires a two step pressing and is done using a three part closing tool. Do not try to press in Super Rings with any other tools other than original Rutgerson press tools.

Part No	Ring size	Description	Force
R1030-10	SR10	Press tool	by hand
R1030-12	SR12	Press tool	by hand
R1030-14	SR14	Press tool	3-5 ton / by hand
R1030-25	SR25	Press tool	15 tons
R1030-35	SR35	Press tool	22 tons
R1030-45	SR45	Press tool	25 tons
R1030-55	SR55	Press tool	25 tons

To avoid corrosion on Carbon sails, pre-clean tools before proceeding with Titanium Rings.



## Rutgerson® Super Ring Removing Tools

Rutgerson is the only ring manufacturer that can offer a Ring Removing Tool for their rings.

This is a simple yet well engineered tool that quickly presses rings from the sail without damaging or weakening the structural integrity of the sailcloth. The hydraulic press operated tool has reduced a two hour operation to one that takes less than 30 seconds.

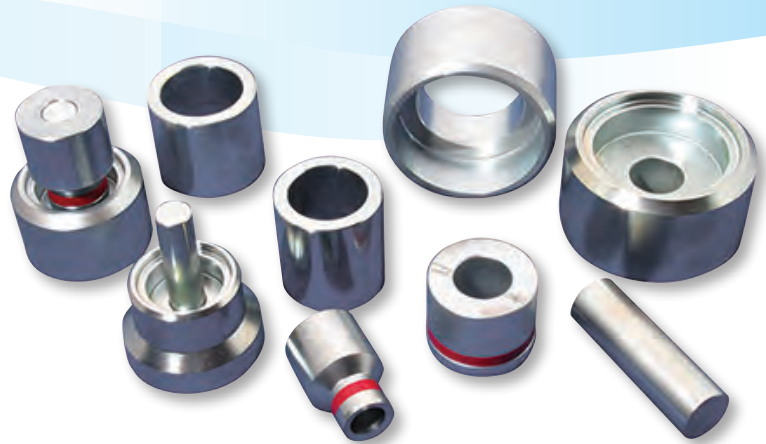
New rings may be pressed into the sail immediately, using the same holes in the cloth for the new toothed ring.

Place the pressed ring on the lower die with the teeth washer on top and the rolled liner on the bottom, seated in the lower die. Place the top punch over the guide post with cutting edge down on top of the ring.

The cutting edge is recognised by its "concave" shape. Press until bottom of the ring has sheared completely free of the toothed ring, or until bottom of red band on punch. To remove the remaining toothed washer, place the patch on top of the support cup. Use a screwdriver or similar to punch out the toothed washer.

These tools can be hired for cost effective occasional use.

**Please ensure lubricants are used when using these tools.**



Part No	Ring size
R1040-14	For SR14 ring
R1040-20	For SR20 ring
R1040-25	For SR25 ring
R1040-35	For SR35 ring
R1040-45	For SR45 ring
R1040-55	For SR55 ring