

RESCUE SWIVELS



The importance of swivels in modern rigging can be gauged by the fact that not only do all major manufacturers have them in their range but even DMM have opted to join the swivel family with a brand new design, the ergonomically pleasing Axis models (above right). Rock Exotica has long led the field with the first commercial rescue swivels and these days it still has by far the largest range. In fact Rock Exotica have taken things a few steps further by incorporating swivels into pulleys and carabiners thus eliminating one of the drawbacks with a swivel - increased system/component lengths. An average swivel is 3 or 4 inches long and this adds unwanted length to something we would generally like to be as compact as possible. Take a look at the picture comparison (right). The introduction of Rock's Swivabiner range with either a swivel eye or an entire second carabiner incorporating a swivel was genius but surprisingly didn't set the world alight, at least not as much as it deserved. This was probably due to cost and because the humble swivel, by itself, is a compact and versatile item that is easily stowed, easily carried and is easily added to a harness D-ring, rig plate, anchor sling or stretcher rig.

Rescue swivels are disproportionately tough, stronger in breaking strength than most of the carabiners they accommodate and some are considerably tougher in terms of taking abuse especially where machined from a solid block of alloy. All except one are aluminium alloy with a stainless steel axle on which the two halves 'swivel' effortlessly with the help of a sealed set of ball bearings. Actually there was one model with bushings but this is the exception. Rock Exotica has

recently introduced an all-stainless steel model which withstands the kind of steel-on-steel abuse that some industrial rigging can inflict but is unlikely to occur in normal rescue. Stainless steel swivels are not actually that unusual since the yachting world has been using them for years and some readily available industrial models like the cigar-shaped model shown opposite can take loads of 5 to 15 tons but they lack the certified load rating (CE and/or NFPA) of the rescue models in this guide and the ability to clip one or more large carabiners as per the inset image above left where its less obvious multi-directional rigging capability becomes apparent. Indeed you can also pass the collar/locking sleeve through most of the larger eyes in this Guide. The triangular shaped swivels are more suited to single carabiners since they tend to load into the apex and additional carabiners tend to jam that apex carabiner. Some designs like the SMC model above and the R.E. Nano Swivel are more obviously



designed to take a single carabiner in one eye and multiples at the other end while the rounded profile of the Petzl and DMM models enable them to be attached directly to textile slings. Rock Exotica has two swivel-shackle combinations (above left) that we haven't included but can be attached to items without a carabiner and taking this concept a little further is Edelrid's Conecto which has eyes on each end that open like a clam-shell to accept tape, rope or hardware and are secured with a bolt.

A swivel's key advantage is in taking the twist out of ropes so they are particularly useful for long rope operations. On a stretcher rig plate they provide excellent freedom of movement to the attendant allowing easier rotational movement in tending to the casualty without the constant counter-rotation battle against the rope/sling and carabiner - for this reason swivels have become a standard harness fitting for many arborists and for tactical use where operators may need to rotate into a firing position without the risk of being 'torqued' back to forward-facing at an inopportune moment. Haul systems are an obvious application where the ability of the whole pulley system to rotate on the anchor can prevent twisted strands from increasing your input effort. Swivels aren't quite a must-have option for all rescue rigging but almost.....don't leave home without one.

SAR PRODUCTS

Technical Access & Rescue Equipment



SAR Products
You may hate gravity, but gravity doesn't care!

A+B DESCENDER

Fully compliant for
two person loads
as in EN12841-C



SAR MERLIN

NEW
Merlin tech range
Interchangeable and
adjustable sternum
strap!



SAR Rocker

Rescue
back-up
device!



perfection
4 years in the
making



SAR ALPINE LITE

www.sar-products.com
Tel: +44 (0) 161 621 0309
email: sales@sar-products.com

Images NOT to scale.	MODEL	COMPANY	ORIGIN	COST	Material	Standards	Length
	Rotor Swivel	Black Diamond		£34.99 \$39.95	Alumium	CE	85mm 3.3"
	Swivel	CAMP		€35.00 \$40.00	Aluminium	CE	110mm 4.3"
	Twist	Climbing Technology		n/a	Forged Aluminium	CE	84mm 3.3"
	Twirl	Climbing Technology		£55.00 A\$95.00 €57.95	Forged Aluminium	CE	112mm 4.4"
	Swivel	Climb X		\$29.95	7075 Aluminium	CE	110mm 4.3"
	Rescue Swivel	CMC/ ROCK EXOTICA		\$58.00	Aluminium	NFPA -G	95mm 3.75"
	ProSeries Swivel	CMC/ ROCK EXOTICA		\$85.00	Aluminium	NFPA-G	114mm 4.5"
	Rescue Swivel	CMI		\$80.90	Aluminium	NFPA	114mm 4.5"
	Axis-L	DMM		£45.99	7075 T6 Alumimium	CE	96mm 3.77"
	Axis - S	DMM		£55.99	7075 T6 Alumimium	CE	79mm 3.1"
	Connecto Swivel	Edelrid		\$45.95 €49.95	Aluminium	CE	100mm 3.9"
	Dancer	Kong		€50.00	Forged Aluminium	CE	113.5mm 4.5"
	Swivel L	Mad Rock		\$29.90	Forged Aluminium	n/a	110mm 4.3"
	Swivel S P58S	Petzl		£41.65 \$69.95 €54.95	Forged Aluminium	CE	85mm 3.75"
	Swivel L P58L	Petzl		£48.45 \$74.95	Forged Alumium	CE NFPA-G	105mm 4.25"
	S1 - Rotator Triangular Swivel Small	Rock Exotica		\$56.95	Machined Alloy	n/a	97mm 3.82"
	S1L - Rotator Triangular Swivel Large	Rock Exotica		\$57.95	Machined Alloy	n/a	108mm 4.24"

Width	Max Eye Diam	Weight	Bearing/ Bushing	Strength	Colours	NOTES	www.
40mm 1.57"	25mm 1"	83g 2.9oz	Bearing	26kN 5845 lbf	Black/Copper		blackdiamondequipment.com
55mm 2.1"	23mm 0.9"	160g 5.6oz	Bearing	35kN 7868 lbf	Black		camp.it
43mm 1.7"	25mm 1"	80g 2.8oz	Bearing	24kN 5450 lbf	Grey/Orange		climbingtechnology.it
57mm 2.2"	31mm 1.22"	170g 6oz	Bearing	40kN 8992 lbf	Red/Blue		climbingtechnology.it
35mm 1.4"	33mm 1.29"	160g 5.6oz	Bearing	40kN 8992 lbf	Black/Grey	Once Blue/Red versions sell out colour will be Black and grey only	climbxgear.com
50mm 1.98"	31mm 1.22"	125g 4.4oz	Bearing	36kN 8093 lbf	Sand/Slate		cmcrescue.com
61mm 2.43"	36mm 1.4"	184g 6.5oz	Bearing	45kN 10116 lbf	Red/Slate		cmcrescue.com
45mm 1.75"	28.4mm 1.12"	158g 5.6oz	Bearing	40kN 8992 lbf	Blue/red		cmi-gear.com
60mm 2.3"	35.9mm 1.4"	184g 6.5 oz	Bearing	50kN 11240 lbf	Red/Black, Black, Olive Sand		dmmwales.com
50mm 1.98"	30mm 1.18"	115g 4 oz	Bearing	36kN 8093 lbf	Green/Black, Black, Olive Sand		dmmwales.com
52mm 2"	28mm 1.1"	155g 5.4oz	Bearing	15kN 3372 lbf	Oasis/Slate	Each eye can be opened to attach items without a carabiner	edelrid.de
55mm 2.1"	23mm 0.9"	160g 5.6 oz	Bearing	42kN 9441 lbf	Orange/Black		kong.it
50mm 1.98"	n/a	159g 5.6 oz	Bearing	30kN 6744 lbf	Black/Silver		madrockclimbing.com
38mm 1.5"	25mm 1"	95g 3.4oz	Bearing	23kN 5170 lbf	Black		petzl.fr
49mm 1.85"	33mm 1.25"	150g 5.3oz	Bearing	36kN 8093 lbf	Red/Black		petzl.fr
50.8mm 2"	31mm 1.22"	119g 4.2oz	Bearing	36kN 8093 lbf	Black		rockexotica.com
50.8mm 2"	31mm 1.22"	144g 5.1oz	Bearing	36kN 8093 lbf	Black		rockexotica.com

Images NOT to scale.	MODEL	COMPANY	ORIGIN	COST	Material	Standards	Length
	S2 - Rotator Round Swivel Small	Rock Exotica		\$56.95	Machined Alloy	n/a	94mm 3.7"
	S2L - Rotator Round Swivel Large	Rock Exotica		\$57.95 €45.00	Machined Alloy	CE 0120 EN354	96.5mm 3.8"
	S3 - Orbiter-swivel /ProTech Swivel	Rock Exotica /CMC		\$55.95 €45.00	Machined Alloy	CE 0120 EN354 / NFPA-L	81mm 3.2"
	S11 - Nano-swivel	Rock Exotica		\$52.95	Machined Alloy	n/a	71mm 2.8"
	S2S / S2S-B Stainless Steel Swivel	Rock Exotica		\$160 \$175 (blk)	All Stainless Steel	n/a	71mm 2.8"
	Rescue Swivel	SMC		\$89.20	Aluminium Stainless Steel Axis	NFPA-G	89.5mm 3.5"
	Swivel H067	SRTe /Capital Safety		n/a	Forged Aluminium	EN 354 NFPA - G	108mm 4.25"
	SR Swivel	Sterling Rope		\$52.45	2024 Aluminium Stainless Steel Axis	NFPA-G	94mm 3.7"



NEW ENGLAND ROPES

SAFETY AND RESCUE

NEW ENGLAND ROPES KNOWS THE RISKS OUR CUSTOMERS TAKE EVERYDAY.

THAT IS WHY WE USE THE HIGHEST QUALITY MATERIALS AND TEST OUR ROPES TO ENSURE THEIR SAFETY 100% OF TIME.

WE KNOW EXACTLY WHAT'S ON THE LINE... WHICH IS WHY YOU CAN TRUST OURS!



KM-III

NEW ENGLAND ROPES • 848 AIRPORT ROAD • FALL RIVER, MA 02720
 • 800-333-6679 • NEROPES@NEROPES.COM • WWW.NEROPES.COM



Width	Max Eye Diam	Weight	Bearing/Bushing	Strength	Colours	NOTES	www.
50mm 1.98"	31mm 1.22"	110g 3.9oz	Bearing	36kN 8093 lbf	Black	 also available: Small Shackle version	rockexotica.com
50mm 1.98"	31mm 1.22"	124g 4.4oz	Bearing	36kN 8093 lbf	Black	 also available: Large Shackle version	rockexotica.com
38.1mm 1.5"	27mm 1.08"	99g 3.52oz	Bearing	26kN 6370 lbf	Black		rockexotica.com / cmcrescue.com
37mm 1.44"	21mm 0.81"	57g 2oz	Bearing	23kN 5635 lbf	Black		rockexotica.com
37mm 1.44"	31mm 1.22"	227g 8oz	Bearing	36kN 8093 lbf	Polished. Black		rockexotica.com
50mm 2"	n/a	129g 4.5oz	Bearing	44kN 9891 lbf	Blue/Charcoal. Black	rating shown on swivel is 36kN as the NFPA requirement but is actually 44kN	smcgear.net
61mm 2.4"	34mm	158g 5.5oz	Bearing	40kN 8992 lbf	Gold	New model designed for rescue and access	capitalsafety.com.au
50.3mm 2"	31mm 1.22"	110g 3.9oz	Bearing	36kN 8093 lbf	Black		sterlingrope.com

SECURE_{11mm}





When using this rope, you will significantly increase your safety. Thanks to the unique sandwich-type construction of braided layers and the use of specially developed staple fibres, the rope is able to hold the suspended person or load even in case of considerably damaged sheath or core without the rope failing completely.



Planet Earth is for us people still the only place for living. We all can contribute to the preservation of this unique place for the next generations with our choice every day. Send your old or destroyed rope to our place at Bolatice and we will provide for its recycling free of charge. Some decisions are so easy.



www.mytendon.com