HARKEN®
INNOVATIVE SAILING SOLUTIONS

990 Winches

AMERICA'S CUP TECHNOLOGY

The 990 line's STAC version received a full engineering review for the 2007 America's Cup. The refined 990STAC design is three kilograms (6.6 lb) lighter and is built with even more precision for enhanced reliability. Highly efficient 990 winches continue to be a favorite of America's Cup teams as well as VO70s and the new Mini-Maxi yachts.

Adding a free-spinning aluminum base sheave enables cross-sheeting

USES

The 990 frequently serves as a primary, mainsheet, runner, or utility winch.

FEATURES

The winch can be trimmed by motor or pedestal for power, or with a standard winch handle for fine-tune control.

First gear ratios include 1:1 direct drive or optional 2.7:1.

The 990 winch can be set to engage only the first and second gears.

990 winches have a low profile and mount flush with the deck to minimize windage and lower the center of gravity.

MATERIALS

Aerospace prepreg lamination techniques and autoclave curing maximize the stiffness and strength of carbon components.

The drum is made with Hardkote-anodized 6061-T6 aluminum for maximum strength and reliability.

990STAC America's Cup versions feature treated titanium gears and components that are extremely lightweight and provide superior free-spinning performance.

OPTIONS

A left-handed configuration is available.

A 2.7:1 first gear configuration in place of the 1:1 accomodates applications that require more power.

INSTALLATION

Harken recommends professional installation.

MAINTENANCE

Clean and grease racing winches regularly as described in the product manual.

Part No.	Gear ratio			Power ratio			Fastener circle		Fasteners	
	1	2	3	1	2	3	in	mm	in	mm
B990.3STR	1:1	9.9:1	40:1	2.5:1	24.8:1	**100:1**	12	305	8 x 5/16 FH	8 x 8 FH
B990.3STAC	1:1	9.9:1	40:1	2.5:1	24.8:1	**100:1**	12	305	8 x 5/16 FH	8 x 8 FH
B990.3TCR	1:1	9.9:1	32:1	2.5:1	24.8:1	**80:1**	12	305	8 x 5/16 FH	8 x 8 FH

Part No.	Ø Drum (D)		Ø Base (B)		Height (H)		Weight		Line Ø Min		Line Ø Max		Line entry height (LE)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	in	mm
B990.3STR	8	203	10 13/16	274	9 1/2	241	44.8	20.3	7/16	11	3/4	19	3 27/32	98
B990.3STAC	8	203	12 3/8	314	9 7/16	240	—	—	7/16	11	3/4	19	3 27/32	98
B990.3TCR	8	203	10 13/16	274	9 7/16	240	41.5	18.8	—	—	—	—	3 27/32	98

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