

Captive Reel Winches

Harken Captive Reel Winches represent a significant leap forward in captive winch design. The result of four years of intense development at Harken Italy's dedicated facility, each winch is tested under real load conditions for a full range of travel on the drum. Harken captives are noted for their lightweight, reliability, clean lines, and powerful sail control.

Harken captive winches are designed with varying drum lengths to fit individual project requirements. They are driven by a sealed-inner motor gearbox that is also used by industrial equipment operating in extreme outdoor environments. The modular construction makes these winches easy to service and maintain without removing the winch assembly.

One-Side Access

All parts connected to hydraulic or electrical circuitry are positioned on the same side for maintenance. The screw bearings and gear transmission are also located on this side for easy inspection.

Twin Feeder Screws

Harken's innovative feeder transmission drastically reduces the size of the winch and balances the load on the feeder sheave. The feeder screws and sheave allow line to lie smoothly on the drum, even when slack. Feeder screws are bench-tested for endurance and lubrication-free.

Synchronized Transmission

Using a simple synchronized transmission, four gears drive the twin feeder screws. A double rail holds the feeder. A simple change of two of the gears allows you to use a different line diameter.

Double-Feeder Sensors

Two inner magnetic switches are factory set at the feeder's active stroke limits to prevent over-travel. Two outer fail-safe limit switches automatically dump oil back into the tank or cut electricity to the winch.

Maintenance

All bearings are sealed and lubricated with grease. The main gearbox is sealed and lubricated with oil. The feeder screw nut and feeder skate are made of a self-lubricating composite.

Manifolds

Optional manifolds come with a small, efficient hand pump for brake release. Strong, space-saving counterbalance valves provide controlled sheet easing. Manifolds can be mounted on the winch or in a remote location.



Precise gearing provides even line take-up and release

Automatic disc brake between motor and gearbox is always locked unless system is activated



Redundant proximity switches prevent over-travel



Lead screw and sheave allow line to lie smoothly on the drum—even when slack



Choice of port or starboard lead exits

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Esense, Tripp Design, WallyEurope — Giles Martin-Raget photo



Flush-deck mounting



Belowdeck mounting

Line tensioner removes slack when loading and unloading line on the spool

Power/Sheet Size Guide

Part No.	Maximum Dynamic Pull		Maximum Holding Load		Line Ø				Max pressure		Flow rate		Line speed			
	lb	kg	lb	kg	Min	Max	Min	Max	PSI	Bar	gal/min	L/min	1st	2nd	1st	2nd
					in	mm	in	mm					ft/min	m/min	ft/min	m/min
6T	13230	6000	19846	9000	⁹ / ₁₆	14	⁷ / ₈	22	3478	240	13	50	188.7	57.0	56.3	17.0
9T	19846	9000	26461	12000	⁵ / ₈	16	1	26	3623	250	16	60	165.5	50.0	43.0	13.0
12T	26461	12000	33076	15000	³ / ₄	20	1 ¹ / ₈	28	3623	250	21	80	65.5	50.0	43.0	13.0

Loads and converted sizes are guides only. Winches are customized to application. Line speeds can vary with each winch and power configuration

Active Line Storage

Captive Length Size	Line Ø 14 mm		Line Ø 16 mm		Line Ø 18 mm		Line Ø 20 mm		Line Ø 22 mm		Line Ø 24 mm		Line Ø 26 mm		Line Ø 28 mm	
	mm	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	
6T																
810	85	26	75	23	69	21	61	19	56	17	—	—	—	—	—	—
1010	128	39	112	34	102	31	89	27	82	25	—	—	—	—	—	—
1210	167	51	148	45	135	41	118	36	112	34	—	—	—	—	—	—
1410	210	64	184	56	167	51	148	45	138	42	—	—	—	—	—	—
9T																
1130	—	—	154	47	138	42	126	38	114	35	105	32	95	29	—	—
1330	—	—	202	62	181	55	165	50	148	45	138	42	126	38	—	—
1530	—	—	250	76	223	68	203	62	183	56	170	52	156	48	—	—
1730	—	—	297	91	266	81	242	74	218	67	202	62	185	57	—	—
12T																
1130	—	—	—	—	129	39	116	36	105	32	97	30	90	27	81	25
1330	—	—	—	—	171	52	155	47	139	42	129	39	119	36	108	33
1530	—	—	—	—	213	65	193	59	174	53	161	49	148	45	135	41
1730	—	—	—	—	255	78	231	70	208	63	193	59	178	54	161	49

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