ZipGrip®

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U.S. Pat. No. 9,616,579
Canada Patent No. 2,965,100 CN
UK Patent No. 3216031

ZipGrip® is a system allowing the installation of a pulling or holdback eye on various cylindrical or nearly cylindrical substrates. These units were primarily developed for use in the offshore pipe lay and umbilical installation and maintenance arena.

Yale Cordage started manufacturing our line of YaleGrips synthetic pulling and stopping grips more than 20 years ago, and they have been used successfully worldwide for the deployment of umbilicals, hard pipes, flex cables and armored cables.

Our ZipGrip® design is based on the same successful platform, and it utilizes the Aramid grip stock in a new design, which not only decreases the overall grip length by approximately 75%, but also significantly increases the working load and distributes the compressive forces, preventing damage to the pipe's outer layers.

ZipGrip® lengths when installed are approximately 1/3 of the installed length of our time-tested YaleGrips product. As a guideline, the installed length is 19 times the pipe diameter. Example pipe: 170 mm = 3,230 mm installed length.

ZipGrips® are very fast to install and even faster to remove. Install times are generally 10%–20% of a similar working load and diameter YaleGrips. They also require less application space because you are not dealing with extremely long tails. The installation zone needed is only about 10% longer than the installed length.

ZipGrips® can be installed on a coiled pipe or umbilical. No need to fully straighten it prior to installation.

Units are custom designed to the specific pipe or umbilical diameter and load requirements.

Construction: Standard product is made with Technora®. Technora® Aramid fiber is high strength, low stretch, heat resistant and lightweight.

Installation/Removal: Quick and easy to install and remove; temporary or permanent; install at any point along the pipeline.

Uses: Pipe lay install or holdback; umbilical install or holdback; pipeline catenary float attachment.

Technora®
The power of Aramid

Specifications

ZipGrip® Properties for a Selection of Diameters: This table represents various examples of what we can manufacture based on different diameters at a specific load. **Options are not limited to the loads shown. Please contact Yale to discuss your specific application for custom designs.**

ZipGrip Model	Min. Cable Diameter	Max. Working Load (5:1)		Color	Eye Size	Example Cable Diameter	Example Installed Length		Example Unit Weight		Estimated Installation Time	Estimated Removal Time
	(mm)	Lbs	Kg		Inches	(mm)	Inches	(mm)	Lbs	Kg	(min)	(min)
7/16	64	6,800	3,070	Red	6	100	75	1,910	2.0	0.9	6	2
9/16	71	10,400	4,700	Blue	6	150	113	2,870	4.6	2.1	8	2
11/16	79	14,400	6,530	Green	6	200	151	3,820	8.1	3.7	9	2
7/8	102	19,800	9,000	Orange	8	250	188	4,780	18	8.2	11	3
1	119	31,000	14,070	Yellow	8	300	226	5,740	34	15	13	3
1-1/4	145	43,200	19,610	Black	12	350	263	6,690	59	27	16	4
1-1/2	168	67,600	30,670	Red	16	400	301	7,650	112	51	19	5
1-3/4	241	84,000	38,090	Blue	18	450	339	8,600	192	87	23	6
2	277	111,500	50,570	Green	18	500	376	9,560	299	136	26	7
2-1/4	343	159,000	72,140	Orange	20	600	452	11,470	539	244	34	9
2-1/2	384	192,000	87,110	Yellow	24	630	474	12,050	731	332	37	9

Additional Product Details: The primary closure system is a hybrid consisting of a Daisy Chain Loop and Lace System. A pure Daisy Chain closure is recommended if the ZipGrip® is to be removed by ROV.