

Clutches

V-Grip Plus

V-Grip Maxi

Cam 611

Cam 611/V

V-Cam 814

V-Cam 814/S

V-Grip

Jammers

V-Grip Jammer

V-Grip Handle

On this page you will find the entire clutches series, including general information for the choice of a clutch. For more information, see our catalogue:

www.antal.it

Antal produces marine equipment for sailing boats. We are skilful engineers and designers. The equipment we show in this short guide is continuously tested to keep pace with the advances in rope manufacturing. We recommend the use of Dyneema® core and Kevlar/Polyester cover lines, which give the best results in strength tests; while traditional pure Polyester cover over a Dyneema® core prove to have poor resistance. Also "all-Polyester" core/cover versions give excellent results.

Our clutches ensure that a high load exerted on a line is paired with minimum wear of it. Except for one model (Cam 611) all our clutches are fitted with the V-Cam system, which is an Antal internationally recognized Antal patent.

In this guide you can find all necessary and useful information on your clutch choice.

For all information concerning installation, maintenance and performance of the clutch, or for a complete survey of our products, and download of our complete catalog, visit our website: www.antal.it

Antal is made in Italy.

Selection Guide

Model	Code	ø Line	Max Load (kg) *	Weight (kg)	Fasteners		
Clutches	Cam 611	6	250	0.37	2 x ø 6		
		8	380				
		10	500				
	Cam 611/V	500.110	6	400	0.37	2 x ø 6	
		501.110	8	600			
	V-Cam 814 & V-Cam 814/S	509.111 & 549.111 509.112 & 549.112 509.113 & 549.113	8 - 10	850	0.60	2 x ø 6 2 x ø 8	
			10 - 12	1200			
			12 - 14	1500			
	V-Grip	507.111 507.112 507.113	8 - 12	1000	0.55	2 x ø 6 2 x ø 8	
			10 - 14	1300			
12 - 16			1600				
V-Grip Plus	508.121 508.141 508.161	10 - 12	1400	1.10	2 x ø 10		
		12 - 14	1700				
		14 - 16	2100				
Jammers	V-Grip Maxi	12 - 14	1700	1.40	2 x ø 10		
		14 - 16	2100				
		16 - 18	2600				
		18 - 20	3000				
		20 - 22	3400				
Jammers	V-Grip Jammer & V-Grip Handle Small	VJ1208 & VH1208 VJ1210 & VH1210 VJ1212 & VH1212	D-K**		2 x ø 10		
			1300	1200			
			1900	1800			
	V-Grip Jammer Medium	VJ1412 VJ1414 VJ1416	12	2800	1.50	2 x ø 10 2 x ø 12	
			14	3800			
			16	4600			
	V-Grip Jammer Large	VJ1416 VJ1418	16	4800	2.40	2 x ø 14	
			18	5800			
			P-P*				
			3800	3600			

** Test results on lines with a Dyneema® core and Kevlar/Polyester cover; * Test results on lines with an 'all-Polyester', core/cover

Clutches and Jammers

A complete range with 9 different models is offered in single, double and triple versions.

- **Line retrieval** can be achieved with the lever closed, the line stops automatically in the new position with no slippage.

- The Antal clutch mechanism guarantees that a line can be **released under load** without the use of a winch, it easily opens even under heavy load conditions.

- **Extensive tests** have been carried out to obtain the best functioning of our V-Cam system. We recommend the use of Kevlar-Polyester cover lines with Dyneema® core. Also an 'all-Polyester' core/cover combination give excellent results.

See the table 'Rope Tests', on the back of this guide - tested on model VJ.

- Check the 'Selection Guide' table above, where you can choose your clutch and jammer, according to Max Load values. **'Max Load' is an average test result value above which the line may get damaged.** Load values higher than the Max Load may damage the line cover, not the clutch. Cover failure depends also on the age of the line. The above values were achieved using new lines during our tests, and serve merely as a guide for the choice of a clutch.

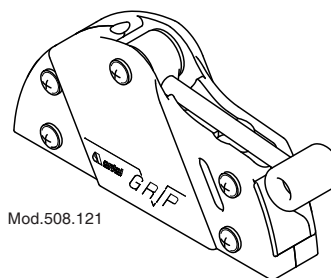
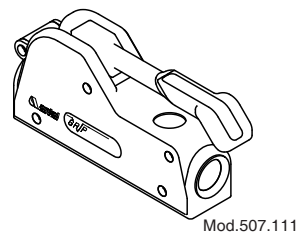
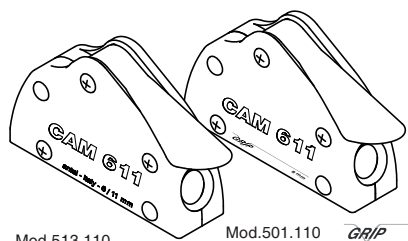
- **Maintenance:** all Antal clutches (with the exception of V-Grip) and jammers can be disassembled, for simple maintenance and servicing.

Antal offers its customers professional advice and will respond immediately to any issue concerning its products. For customers' support, contact Antal at the following address:

Antal s.r.l., Via del Progresso, 10, 35127 Padova, Italy. Tel. +39 049 8701265, Fax. +39 049 760906, or e-mail to: antal@antal.it

A digital catalog, in four languages, featuring our complete 2013/14 range of products, as well as manuals in .pdf format and a CAD library are available at our website:

Clutches



Mod.513.110

Mod.501.110 GRIP

Mod.507.111

Mod.508.121

Cam 611 - for lines from 6 to 10 mm is available in a single, double, triple and horizontal version. It has a box structure in UV-resistant resin with steel reinforcements, an extruded aluminium base, a wear-resistant bronze cam mechanism, and stainless steel alignment bushings.

Installation: 2 ea. 6 mm flat head screws, hole spacing is 79 mm.

Cam 611/V - is a version of the CAM 611 with a V-CAM for 6 and 8 mm lines. This new model supports much higher loads: 400 kg on a 6 mm line and 600 kg on an 8 mm. line. All other features are the same as for a CAM 611.

V-GRIP: Three models are available for 8-12, 10-14, and 12-16 mm lines, in single, double and triple versions.

AISI316 stainless steel clutch mechanism and lever, bronze "V" shaped cam and black anodized aluminium structure.

This is the best solution when minimum space is available, the height is only 68mm.

Installation: 2 ea. 6 mm flat head screws, hole spacing is 87 mm.

V-GRIP PLUS: Three models for lines from 10 to 16 mm. available in single, double and triple versions.

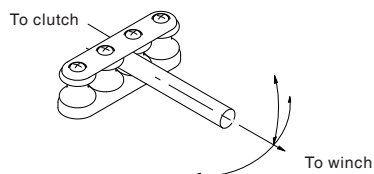
It has a hard black anodized aluminium structure, a AISI316 stainless steel clutch mechanism, and a "V" shaped cam and lever.

It can easily be opened to release a line under load, without the use of a winch. Line retrieval can be done with the lever closed, the line stops automatically in the new position with no slippage.

Installation: 2 ea. 10 mm flat head screws, hole spacing is 128 mm. Height: 93 mm. Length: 192 mm.

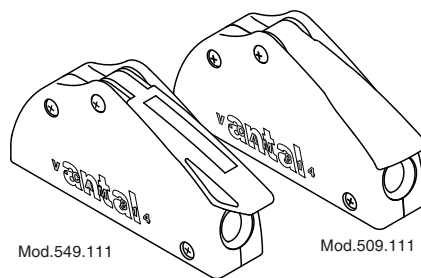
Organizers

A tensioned line should be aligned with a clutch as much as possible. Our clutches are designed to allow a safe working deflection angle of a line of up to 10°, in any direction. In case the clutch is not aligned with the winch, it is recommended to use an organizer to correct the mis-alignment.



Organizers are especially useful to allow lines to be guided away from a battery of clutches towards a winch, they prevent damage to a clutch due to mis-alignment.

Antal offers a complete range of organizers; available with 2, 3, 4, 5 and 6 sheaves and fitting lines from 8 to 20 mm. Features: Resin sheaves with double ball bearings and a black aluminium cover.

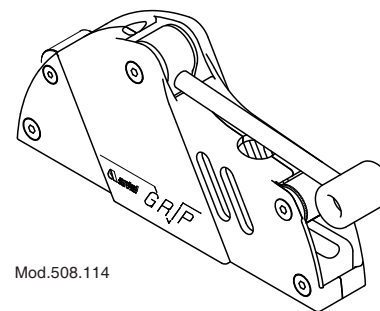


Mod.549.111

Mod.509.111

V-CAM 814 & V-CAM 814/S: Three models for 8-10 mm, 10-12 mm and 12-14 mm lines are available in single, double, triple and quadruple versions. A V-CAM814 has a box-structure in UV-resistant resin with stainless steel reinforcements, an aluminium base, a V-Cam and aligning bushing in AISI316. This model is fitted with a large "V" shaped cam that offers a higher holding power than a standard V-Grip and a new mechanism that guarantees easy opening even under high loads.

Installation: 2 ea. 6 mm flat head screws, hole spacing is 105 mm. Height: 78 mm; length: 154.5 mm.



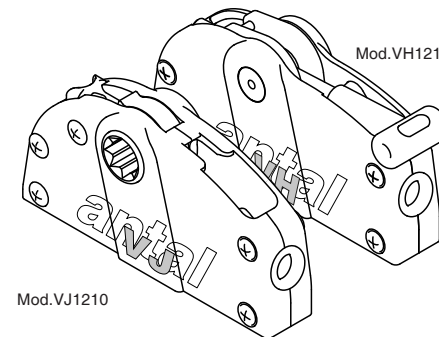
Mod.508.114

V-GRIP MAXI: Five models for lines up to 22 mm, only a single version is available.

Hard black anodized aluminium structure, a AISI 316 stainless steel clutch mechanism, and a "V" shaped cam and lever.

Installation: 2 ea.10 mm screws, hole spacing is 137 mm. Height: 102 mm. Length: 223 mm

Jammers



Mod.VJ1210

Mod.VH1210

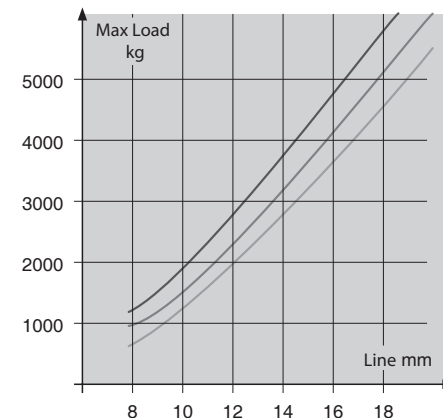
VJ: Three models for lines ranging from 8 to 18 mm and loads over 5000 kg.

This Maxi Jammer offers a very high grip, while reducing compression on the line it allows the line to keep its shape without crushing it, this results in reduced cover damage and an increase of the Work Load as well. The cam is operated by inserting any standard winch handle.

The **VH** Jammer is the new 'lever version' of the antal VJ (which cam is operated by a winch handle as a lever), for 8, 10 and 12 mm lines. These new "handle versions" V jammers are available as single, double and triple.

Installation: 2 ea. 10 mm screws, hole spacing is 128 mm. Height: 88 mm; length: 183 mm.

Rope Tests mod.VJ



Kevlar/Polyester cover Dyneema core Polyester cover Polyester core Polyester cover Dyneema core