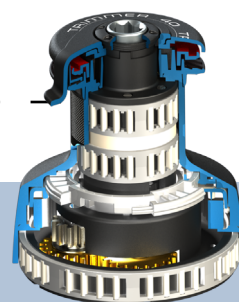


TRIMMER 4 SPEED POWER WINCH



- **3 TIMES MORE POWER**
- Available in 3 sizes (40, 46, 52)
- Sized to retrofit most standard winches
- Easy to install and maintain
- 5 year warranty

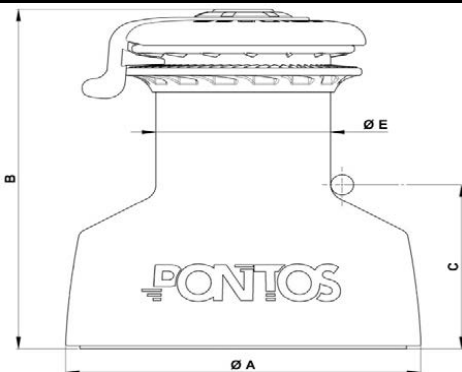


DESIGNED IN FRANCE AND BUILT TO LAST

Drum in hard anodized aluminium, gears and clutch in 17.4 PH stainless steel and copper aluminium alloy, needle bearings in polyoxymethylene

TECHNICAL DATA

PERFORMANCE : TRIMMER 4 SPEED WINCHES						
SIZE	MWL		Std Gear 1	Std Gear 2	Ultra-Power	Pump Gear
40	850 kg	Power Ratio	11.6	40	112,9	32,7
		Line Recovery per rotation	14 cm.	4 cm.	1.4 cm.	5 cm.
46	1300 kg	Power Ratio	11.7	46,6	131,3	33
		Line Recovery per rotation	14 cm.	3.5 cm.	1.2 cm.	5 cm.
52	1500 kg	Power Ratio	11.6	52,8	148,7	32,7
		Line Recovery per rotation	14 cm.	3 cm.	1.1 cm.	5 cm.

METRIC				DIMENSIONS TRIMMER WINCH		IMPERIAL			
SIZE	40	46	52			SIZE	40	46	52
Weight Kg.	4.9	7.1	8.6			Weight lbs.	10.8	15.7	18.9
MWL Kg.	850	1 300	1 500			MWL lbs.	1 870	2 860	3 300
Base Ø mm (A)	171	206	220			Base Ø inches (A)	6 6/8	8 1/8	8 5/8
Height mm. (B)	189	203	203			Height inches (B)	7 1/2	8	8
Line Entry mm. (C)	87	97	97			Line Entry inches (C)	3 3/8	3 7/8	3 7/8
Line Size min. Ø	8	8	8			Line Size min Ø inches	3/8	3/8	3/8
Line Size max. Ø	12	14	14			Line Size max. Ø inches	1/2	5/8	5/8
Drum Ø mm. (E)	84	100	100			Drum Ø inches (E)	3 1/4	3 15/16	3 15/16

SETTING NEW STANDARDS ...

Pontos winches have been successfully tested and tried in extreme conditions and in some of sailing's toughest races including the prestigious Route du Rhum.

Our growing network of Trade Partners stretches from Los Angeles through to Istanbul and from Helsinki down to Sydney.

"What delights users of the Trimmers.....is the gearing that converts minimal effort on the handle to such vast pulling power." *Practical Boat Owner: September 2015 David Harding*

TRANSFORM YOUR SAILING - UPGRADE TO PONTOS 4 SPEED WINCHES

The Trimmer's automatic four-speed gearing mechanism provides additional winching power when you need it most. Changing gear is simple. When too much pressure builds up on the winch handle, just reverse the direction and the next gear is engaged. Once the line pressure is off, the winch reverts to the most suitable gearing for the next time you winch. It's fast and very effective. The ultra-power gear reduces effort by more than 50% whilst doubling the torque. This means that with a Pontos Trimmer anyone can trim and fine-tune even the largest sails aboard.



The first two gears are the same speed as a conventional 2 speed winch so you still sheet in by hand before locking it onto the self tailer. The real benefit is how you then continue to wind-in a heavily loaded sheet with so little effort- almost with your fingertips ! On conventional winches this would require two hands,

your shoulders and back and any other available leverage you can get in what is usually an awkward position.

The table below shows the effort required in the winch handle when trimming a 40m² genoa in different wind speeds when using the Trimmer or a standard 2 speed winch.

Wind speed	Load on sheet (Kg.)	Effort in Kg. TRIMMER	Effort in Kg. 2 speed winch
10 Kts	81.0	1.1	3.0
15 Kts	189.0	2.4	6.8
20 Kts	337.0	4.3	12.0
25 Kts	526.0	6.7	18.8

NOTE

A "comfortable" effort on the winch handle is approximately :

- ~ 7 kg. for family,
- ~ 15 kg. for a regular sailor,
- ~ 30 kg. for a competition level sailor.

MAKING LIFE EASIER

On a 38"boat, with a 40m² genoa in 25 knots upwind and using conventional two speed winches, you would need to apply **18,8 Kg.** of force to the winch handle in order to trim the 526 Kg. of load on the genoa sheet.

It is probable that no one on board a family cruiser is capable of doing this.

However, with the Trimmer the amount of effort required is only **6,7Kg.** which means that everyone on board should be able to get the job done.

Such huge pulling power produced with so little effort makes the Trimmer an obvious choice for couples who are increasingly finding it difficult to handle their sails and for family cruising. Now everyone can lend a hand,

a huge gain in safety at sea.

Customer feedback is unanimous. One couple on a Jeanneau 45 told us *"the Pontos Trimmer works as advertised: we were in 20 – 25 knots on Sunday and my wife could easily trim the main"*.

After fitting Pontos Trimmers on his 1980's Ginn Fizz, S.Brummer from Finland, remarked *"The era of the 2 speed winch is over; it is only with extra gears that a family crew can safely operate a boat over 30"*.

This ability to trim even very large sails in strong winds makes the Trimmer a powerful tool for racing sailors too, and can prove to be a determining factor as testified by Mike Kern on board his C&C 115.



C&C 115 - TRANSMISSION

"Great news ! Carolyn and I won our class (Double Handed PHRF-1) in the Lake Ontario 300. We were in the lead pack the entire way around the lake and were 7th in line honours against larger and fully-crewed boats. The Pontos Winches played a key role in the victory by decreasing physical effort and reducing fatigue when trimming the Code 0 and A3 spinnakers."

Mike Kern