

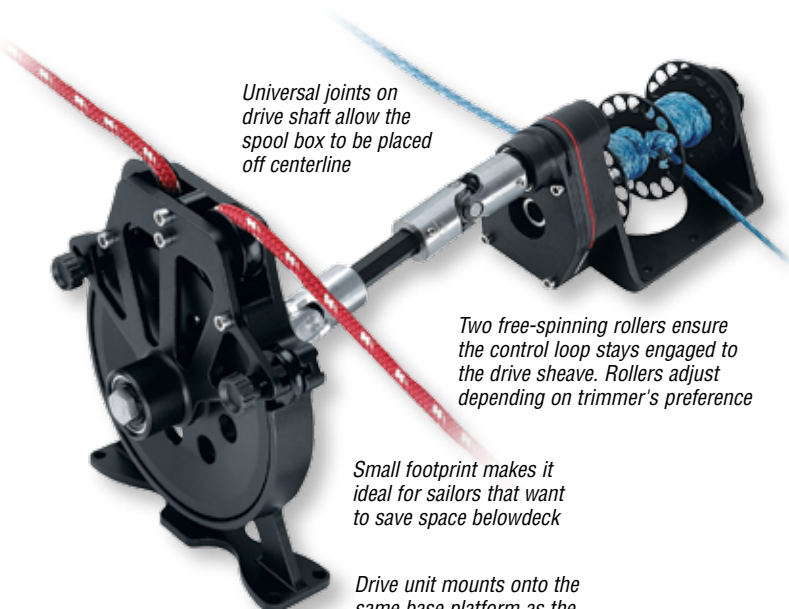
Pro-Trim Control Systems

The Harken Pro-Trim (HPT) traveler system is the first of many applications of the award-winning Pro-Trim series. Compact and clean, this belowdeck system provides the trimmer with increased mechanical advantage and fingertip responsiveness simply by pulling the control line. The traveler system's small footprint takes up far less space than other multiple purchase belowdeck systems and eliminates the need for heavy winches on deck.

A drive shaft connects a large diameter drive sheave to the take-up spools via a gear set that increases mechanical advantage and gives the trimmer an increased power ratio, making traveler control easier and smoother. The lines on the take-up spools pull the traveler car on the track with minimal friction, while the continuous loop on the control line creates a slack-free traveler system.

Major components of the Harken Pro-Trim, including the drive sheave, base box and one larger gear, are CNC machined 6061-T6 aluminum, constructed for strength and durability. Spool shaft, small gears and spool shaft bearings are precision cut stainless steel. Plastic roller bearings from Harken's racing winches support the drive shafts, while high-strength Torlon® ball bearings handle thrust loads.

Expect to see Pro-Trim systems used for other control line applications such as backstays, athwartship jib systems and fore and aft genoa car systems.



Universal joints on drive shaft allow the spool box to be placed off centerline

Two free-spinning rollers ensure the control loop stays engaged to the drive sheave. Rollers adjust depending on trimmer's preference

Small footprint makes it ideal for sailors that want to save space belowdeck

Drive sheave can be located at a distance from the traveler and optimized to the main trimmer's position

Drive unit mounts onto the same base platform as the spool unit for simplified installation and maintenance



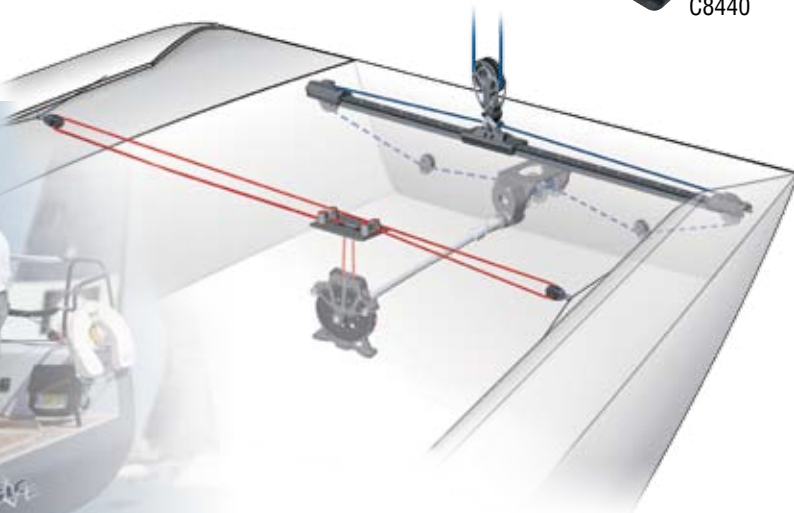
C8986



C8440



Magic Glove, Ker 50, Ker Associates Limited Design, Latitude Yachting Builder — J.H. Peterson Photo



Pro-Trim systems are custom designed to fit specific applications. For questions, or to place an order, please contact Harken®.

Part No.	Description	Sheave/spool		Dimensions (L x W x H)		Weight		Maximum working load		Breaking load	
		in	mm	in	mm	oz	g	lb	kg	lb	kg
C8986	Drive sheave	6	150	3.232 x 6.84 x 8.559	82 x 174 x 217	39.47	1119	500	227	1500	680
C8440	Dual spool assembly	1	25.4	9.203 x 5.5 x 4.799	234 x 140 x 122	70.864	2009	1500	680	3000	1361

Contact Harken to request quote and lead time. For full product line, visit www.harkencustom.com