

# Jefa Steering Systems Auto Pilot Drives



## Direct Drive type I 1082 ft/lb autopilot drive unit

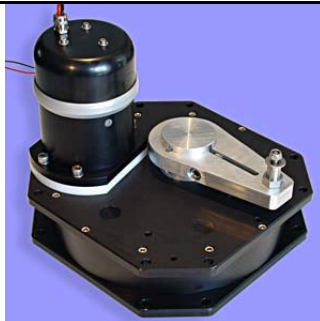
The Jefa direct drive type I is an extremely compact autopilot drive. The max. output torque is 1082 ft/lbs. with a total weight of only 12 Kgs. The combination of the flat wound (pancake) electric motor with the ultra efficient planetary and spur gearbox results in an extremely efficient drive unit. The drive can be used on boats up to 45' LOA. with a mechanical steering system that can be back driven. The direct drive drives the rudder via a draglink and the existing tiller arm or quadrant or via an independent tiller arm.

## Sprocket Drive 110 & 184 ft/lb autopilot drive unit

The Jefa sprocket drive is the most compact sprocket autopilot drive available. The max. output torque is 184 ft/lbs at 9 RPM. The combination of the specially designed electric motor with the ultra efficient 3 stage planetary gearbox results in an extremely efficient drive unit. The drive can be used on boats from 35 to 65 foot (or with a rudder torque up to 2887 ft/lbs) equipped with a cable or rod steering system.



## Direct Drive type II 2706ft/lb. autopilot drive unit.



The Jefa direct drive is a very compact autopilot drive unit for larger boats. The maximum output is 2706 ft/lbs. Total weight of only 19 Kgs. . The drive can be used on boats from 45 to 55 foot equipped with a mechanical steering system that can be back driven. The direct drive drives the rudder via a draglink and the existing tiller arm or quadrant or via an independent tiller arm.

## Jefa Auto Pilot Drive prices 2009

DU-LD-12	Linear drive 100 KgM - 400 Kg thrust, 12 volts	\$2,435.00
DU-TS150-12	Transmission autopilot drive unit 150 Nm 12 Volts	\$2,672.00
DU-TS250-12	Transmission autopilot drive unit 250 Nm 12 Volts	\$3,606.00
DU-TS250-24	Transmission autopilot drive unit 250 Nm 24 Volts	\$3,796.00
DU-TS-LEW	Adapter for Lewmar autopilot flange	\$ 194.00
DU-DD1-12	Direct drive 150 KgM type 1 12 Volts	\$3,044.00
DU-DD1-FB	Rudder feedback mounting bracket for DD1	\$ 89.00
DU-DD2-12	Direct drive 375 KgM type 2 12 Volts	\$5,053.00
DU-DD2-24	Direct drive 375 KgM type 2 24 Volts	\$5,244.00
DU-DD3-12	Direct drive 525 KgM type 3 12 Volts	\$5,549.00
DU-DD3-24	Direct drive 525 KgM type 3 24 Volts	\$5,738.00
DU-DD4-12	Direct drive 735 KgM type 4 12 Volts	\$7,353.00
DU-DD4-24	Direct drive 735 KgM type 4 24 Volts	\$7,545.00
DU-WS150-12	Sprocket autopilot drive unit 150 Nm 12 Volts	\$2,976.00
DU-WS250-12	Sprocket autopilot drive unit 250 Nm 12 Volts	\$3,911.00
DU-WS250-24	Sprocket autopilot drive unit 250 Nm 24 Volts	\$4,100.00
DU-WS-BR	Bracket for sprocket drive	\$ 200.00

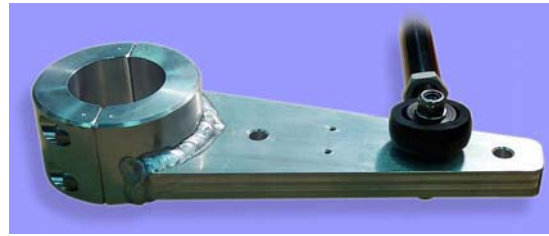


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# Jefa Steering Systems Tiller levers & Drag links

The Jefa tiller levers are made from high strength aluminium AlMgSi1. The Jefa tiller levers are available in four boss sizes depending on the rudder stock diameter. All Jefa tiller levers are standard equipped with an autopilot pick up hole at 250 mm centres and tap holes for the rudder feedback unit.



The Jefa tiller levers are not casted but made from high strength aluminium AlMgSi1. All Jefa tiller levers are standard equipped with an autopilot pick up hole at 250 mm centres and tap holes for the rudder feedback unit.

A “drag link will be needed for when a direct Drive is installed. The 100 series draglink from Jefa Steering offers a new draglink design. The use of high strength aluminium AlMgSi1 creates a lighter and stronger solution over the common stainless steel solutions (proof stress of 280 N/mm<sup>2</sup> compared to 200 N/mm<sup>2</sup> for stainless steel). The fully articulated rose joints on the draglink is designed by Jefa Steering and made from



high strength anodised aluminium with an easy removable delrin ball inside. The long threaded part of the rose joint offers total adjustment of 110 mm. This adjustment eliminates the necessity to weld the draglink to length. The delrin ball can easily be removed by rotating it 90° for service exchange in the future. The Jefa rose joints standard have a 16 mm hole, but they are also available in imperial sizes for replacement on other steering systems. The Jefa draglinks up until 600 mm centres have 25 mm thick wall tubing, from 700 mm to 1400 mm centres 30 mm thick wall tubing is used. Both tubes have an inside diameter of 18 mm.

Part #	Description	List Price
TLJ050AP	Auto pilot Tiller lever L=255 mm, bored to <50 mm w/pin	\$381.00
TLJ075AP	Auto pilot Tiller lever L=255 mm, bored to <75 mm w/pin	\$446.00
TLJ100AP	Auto pilot Tiller lever L=255 mm, bored to <100 mm w/pin	\$498.00
TLJ125AP	Auto pilot Tiller lever L=255 mm, bored to <125 mm w/pin	\$598.00
DL2030	100 series draglink, 200 to 300 mm centres	\$328.00
DL3040	100 series draglink, 300 to 400 mm centres	\$328.00
DL4050	100 series draglink, 400 to 500 mm centres	\$328.00
DL5060	100 series draglink, 500 to 600 mm centres	\$328.00
DL6070	100 series draglink, 600 to 700 mm centres	\$348.00
DL60070-30	300 series draglink, 600 to 700 mm centres	\$438.00
DL70080-30	300 series draglink, 700 to 800 mm centres	\$459.00
DL80090-30	300 series draglink, 800 to 900 mm centres	\$482.00



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2008 pricing. Subject to change without notice