AZIMUTH THRUSTERS

L-Drive Azimuth Thruster

ISO9001 Supplier

Class Certificate

Export Supply

An L-drive is a type of azimuth thruster where the electric motor is mounted vertically, removing the second bevel gear from the drivetrain. Azimuth thruster pods can be rotated through a full 360 degrees, allowing fo...



Key Highlights

Category	Azimuth Thrusters
Standard	DIN
Weight / Size	Sizes range from 45kW to 2200kW with a wide selection of reduction ratio...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Azimuth Thrusters	**Model / SKU**	L-Drive-Azimuth-Thruster
Standard	DIN	**Weight / Size**	Sizes range from 45kW to 2200kW with a wide selection of reduction ratios and propeller/nozzle diameters to suit the application requirements.
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS	**Warranty**	12 Months unless specified otherwise
Origin	China		

CONTENTS

- China L-Drive Azimuth Thruster:
- Specification

China L-Drive Azimuth Thruster:

An L-drive is a type of azimuth thruster where the electric motor is mounted vertically, removing the second bevel gear from the drivetrain. Azimuth thruster pods can be rotated through a full 360 degrees, allowing for rapid changes in thrust direction and eliminating the need for a conventional rudder. This form of power transmission is called an L-drive

because the rotary motion has to make one right angle turn, thus looking a bit like the letter "L". This name is used to make clear the arrangement of drive is different from Z-drive.

Jinbo marine's L-Drives fixed pitch propeller, thru-hull, azimuth thrusters are configured for vertical variable speed electric motor input. Sizes range from 45kW to 2200kW with a wide selection of reduction ratios and propeller/nozzle diameters to suit the application requirements. Thrusters can be supplied complete with electric motors and variable frequency drives or they can be made to fit flange and shaft end of a customer supplied or shipyard supplied electric motor. They are available with open wheel or with nozzle.

Specification

Type		CRP20	CRP42	CRP85	CRP168
Input power max.(KW)		45	100	210	300
HP		61	135	285	400
Input torque max. (Sf=1)		200	420	850	1675
Input speed max.		2300	2500	2350	2000
Reduction Rate i	I	1.93	2.5	2.68	3.46
	I up	1.7	1.64	1.65	1.53
	I down	1.13	1.52	1.62	2.26
propeller diameter	Max.	500	800	950	1150
	Min.	700	900		
PAL length*	Max.	2250	2800	2800	4250
	Min.	350	875	980	1400
Weight (including blades, lubricating oil, and the minimum PAL)		65	190	300	1370
PAL increase the weight of kg per 100mm		8	9	20.4	40

Type		CRP280	CRP330	CRP550	CRP1470	CRP1950
Input power max.(KW)		480	620	920	1250	1650
HP		650	843	1250	1700	2244
Input torque max. (Sf=1)		2800	3300	5423	14740	19500
Input speed max.		1800	1800	1800	1000	1000
Reduction Rate i	I	3.96	4.04	5.059	3.257	3.58
	I up	1.63	1.53	1.647	1.286	1.286
	I down	2.43	2.64	3.071	2.533	2.79
propeller diameter	Max.	1550	1500	1800	2100	2300
	Min.	1250				
PAL length*	Max.	4750	5000			
	Min.	1750	1700	2600	2800	3000

Weight (including blades, lubricating oil, and the minimum PAL)	2100	2800	5820	11000	16500
PAL increase the weight of kg per 100mm	40	45			