



AMS Flat Plate



AMS E-Gear



Golden Sea-Gear

		Points of Interest										
GEAR TYPE	GEAR RATIO	ORIGIN of MANUFACTURE	WARRANTY	FIELD EXPERIENCE	HOUSING	SPEED	AVAILABLE CAPACITIES	BACKDRIFT POTENTIAL	SS Wear Sleeve	SEALS	MAINTENANCE	COST
Belt Worm Open	96:1 Ductile Bull Gear Intermittent Duty	USA	25 Yrs	59 Yrs	Available in SS Galv Alum	5-Diff Speeds 2.5-5 ft/min	2000 Lbs 3000 Lbs 4000 Lbs 6500 Lbs 8500 Lbs	NO	Not Appli- cable	No Seals	Ability to maintain & repair in field	6.9 cents Per lb of Lift 40-60% Less Than Other Options
Double Reduction Enclosed Worm Gear	120:1 Bronze Bull Gear Continuous Duty	USA	5 Yrs	13 Yrs	ALUM	384 37 in/min 480 29 in/min 600 48 in/min w/3450 rpm	384:1 3000 4000 Lbs 480:1 4000-6000 Lbs 600:1 7000 10000 Lbs	NO	YES	Yes Proprietary 4-Lip Spring Loaded	Maintenance Free Means replace when broken	10.7 Cents Per lb of Lift
Double Reduction Enclosed Worm Gear	96:1 Gray Iron Intermittent Duty	China	5 Yrs	5 Yrs	ALUM	480 29 in/min 480 w/3450rpm 57 in/min Noisy @high speed	480:1 8000 Lbs As Advertised	YES	NO	Yes Generic Double Lip	Maintenance Free Means replace when broken	10.7 Cents Per lb of Lift

The boat lift industry offers many types of gears to create power for lifting. Many of these gears use a small 4 or 5 inch gear to create speed; however, small gears mechanically have low lifting capacity. These gears work fine except when forced to lift heavy weights at a faster speed. The life of these applications is very short. There are three gears on the market that offer a 12-inch main bull gear which is rated to lift heavier loads. The above points of interest are relative to these three gears. All three work very well; however, they do have differences. After reviewing the differences, the buyer should decide which type best meets his/her needs, just like choosing a Ford, Chevy or a foreign car.

After reviewing the points of interest you will see that these three gears have differences; however, they all operate under the same principle of a large bull gear. All Three are reliable and have a good track record. The Flat Plate, the E-Gear and the Sea-Gear are all good choices. Your decision should be combined with structure design, electrical motor choice and your confidence in the Dealer/Manufacturer. Be very cautious about doing business with anyone who runs another gear, motor or lift into the ground with claims that they are inferior.

Aqua Marine Supply (AMS) manufactures two models of gears that use 12-inch bull gears (The Flat Plate & E-Gears) and one model that uses a 5-inch gear (The EBD) similar to other products like IPT, Electro-Gear, SMC and Montivarior. The Flat Plate stands statistically above all other systems with 59 yrs and over 900,000 units either in service or sold. The Flat Plate can be made or adjusted to operate at five speeds from 2 1/2 to 5 feet per min. It is easily maintained and repaired in the field and very reliable under all conditions with extremely low liability. The best part is the Flat Plate is 40-60 percent less costly to purchase and repairs are extremely low cost as opposed to replacing maintenance free enclosed gears. AMS offers open gears, enclosed gears and small dia. gears because each has an application and becomes the customer's personal choice.