

**DONLY TRANSMISSION**



# 东力齿轮箱

潜水泵行星减速器

PLANETARY GEAR UNITS FOR SUBMERSIBLE PUMP

型号 Type DLQSB

版本 Edition 2021

**DONLY**

驱动无限可能

概述

General Introduction

1.1 产品特点

产品广泛应用于城市排涝、农田灌溉、江水抽调、南水北调工程、街道冲洗等与水利相关行业里的各类机械设备。

潜水泵行星减速器按照类型大致可分为卧式贯流泵和立式轴流泵两种。

该类行星齿轮箱结构紧凑、重量轻、体积小、承载能力高、冷却效果好、低噪声、低振动。

齿轮箱的行星轮、太阳轮采用优质低碳合金钢，精度等级 5~6 级 (GB10095-2001)。

齿轮箱润滑采用飞溅润滑，实现对齿轮和轴承的充分润滑。

潜水泵的工作原理是潜水电机驱动行星齿轮箱，齿轮箱上输出行星架的内花键连接上水泵轴，从而带动叶轮转动以达到相应的水利性能。大多数潜水泵都是整个设备潜在水中，安装维修相对麻烦，这就要求机构有很高的安全系数，同时进行防水设计，密封性能较好，行星齿轮箱的前后端面会设置电阻型渗漏检测传感器和温度传感器，实现地面对水下设备的远程监测。

1.1 Features

It's widely used in urban drainage, farmland irrigation, river water diversion, South-to-North Water Transfer Project, street washing and other water conservancy-related industries in various mechanical equipment.

Planetary gear units for submersible pump are roughly divided into horizontal cross-flow pumps and vertical axial-flow pumps according to their types.

The planetary gearbox features compact structure, light weight, small volume, high ability of load, low noise and vibration.

The planetary gear and sun gear is manufactured by high-quality alloy steel with carburizing and quenching. The class of precision is level 5-6(GB10095-2001).

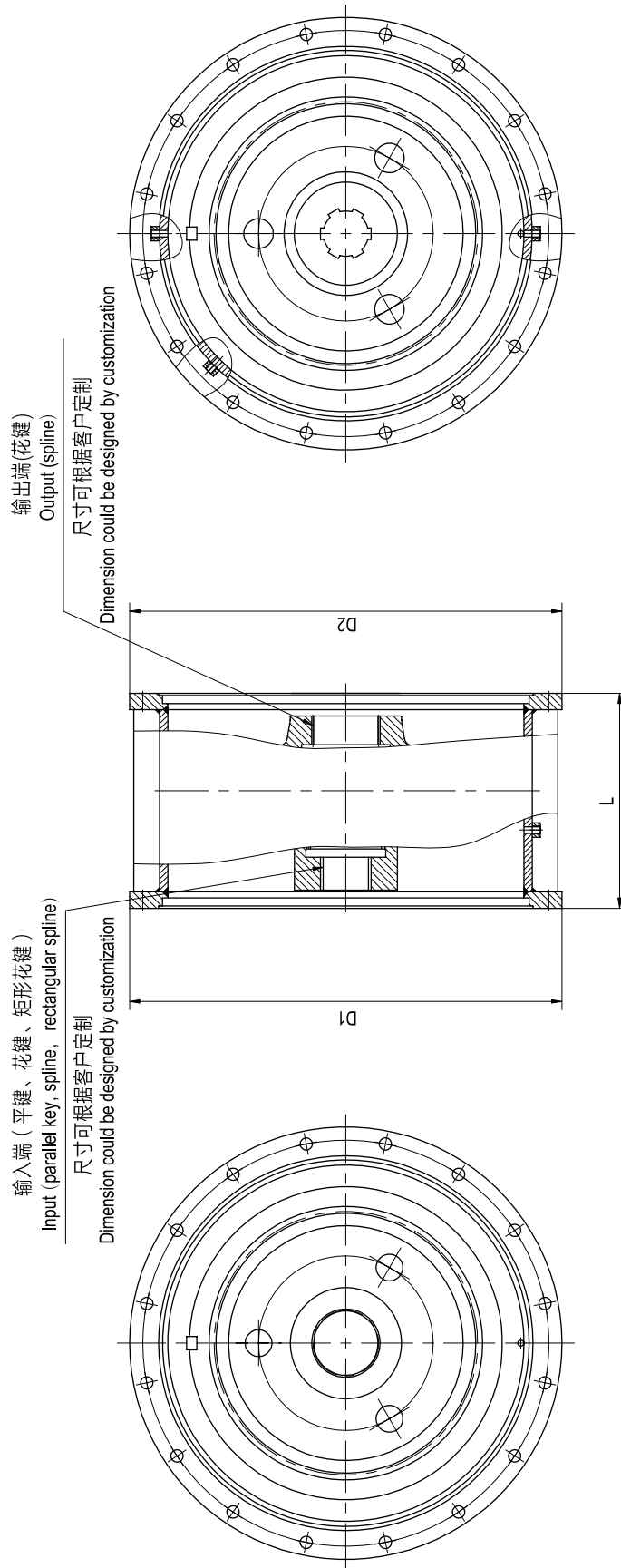
The gearbox adopts splash lubrication, which can lubricate the gear and bearing sufficiently.

The working principle of submersible pump is that the submersible motor drives the planetary gearbox, and the internal spline of the output planet carrier on the gearbox is connected with the water pump shaft, thus driving the impeller to rotate to achieve the corresponding hydraulic performance. Most submersible pumps are in the potential water of the whole equipment, so installation and maintenance are relatively troublesome, which requires the mechanism to have a high safety factor, waterproof design and good sealing performance. The front and rear end faces of the planetary gearbox will be equipped with resistive leakage detection sensors to realize remote monitoring of underwater equipment.

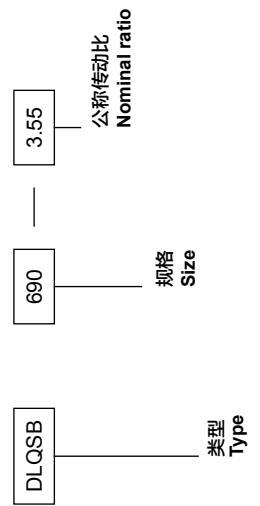
1.2 主要技术参数

1.2 Technical data

型号 Model	电机功率 Power kW	电机额定转速 Nominal speed r/min	常用速比 Ratio	润滑方式 Lubrication	输入法兰外径 Input flange outer diameter D1	输出法兰外径 Output flange outer diameter D2	两法兰面间距 Distance between two flange faces L	输入端尺寸 Input terminal size	输出端尺寸 Output terminal size
DLQSB690	132~400	750 1000 1500	3.15、3.55 4、4.5、5 5.6、6.3 6.7	飞溅润滑 Splash lubrication	690	690	450 (可定制) (customizable)	可定制 customizable	
DLQSB930	250~630				900~930	900~930	465 (可定制) (customizable)		
DLQSB1050	280~1000				1050	1050	655 (可定制) (customizable)		
DLQSB1150	355~1600				1060~1150	1150	860 (可定制) (customizable)		
DLQSB1465	600~2800				1465	1465	1070 (可定制) (customizable)		



型号示例 Model example



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