



飞机刹车轮毂液压测试台 Aircraft brake hub hydrostatic test bench HSMU-3S-100-H

一、设备应用/Application

随着刹车送修量的增加,要求维修能力也相应提升,并能满足多种机型刹车测试。

“特力得”飞机刹车轮毂液压测试台是我司根据用户的实际需求,针对飞机刹车轮毂蓝油测试的高低压力差大,测试精度要求高,介质为航空蓝油等特点而研制的一种新型试压装置。

本测试台是以气体作为动力源,以气驱泵为压力源,输出液体压力与驱动气体压力成比例。通过对驱动气压的调整,便能得到相应的输出液体压力。当驱动气压与输出液体压力平衡时,气驱泵便停止充压,输出液体压力也就稳定在预调的压力上。通过控制进气量,可以控制液体流量,从而控制升压速度。因而具有防爆、输出压力可调、升压速度可控、体积小、重量轻、操作简单、性能可靠、适用范围广等特点,它特别适用于刹车液压综合测试。

本测试台由控制柜和工件存放平台两部分构成。

With the increase in the number of brakes sent for repair, the maintenance capability is required to be correspondingly improved, and to be able to meet a variety of models of brake testing.

TELIDE aircraft brake hub hydrostatic test bench is a new type of pressure testing device developed by TELIDE according to the actual needs of users, targeting at the big difference between high and low pressure when test, high test precision requirements.

This test bench uses compressed air as power source and air-driven pump as pressure source, and the output liquid pressure is proportional to the air driven pressure. By adjusting the air driven pressure, the corresponding output fluid pressure can be obtained. When the air driven pressure is balanced with the output liquid pressure, the air-driven booster stops charging, and the output liquid pressure stabilizes at the pre-set pressure. By controlling the air intake, it is possible to control the



fluid flow and thus the rate of pressurization. Thus, it has the characteristics of explosion-proof, adjustable output pressure, controllable rate of pressurization, small volume, light weight, simple operation, reliable performance, wide range of application, etc. It is especially suitable for brake hydraulic comprehensive test.

This test bench consists of two parts: control cabinet and workpiece storage platform.

二、主要特点/Features

1. 压力测试功能: 高压渗漏测试、低压渗漏测试、保压测试;
 2. 操作方式: 通过调压阀等手动控制系统工作压力和快速卸压;
 3. 系统配有 5 μ 精密过滤器, 对系统和刹车毂进行有效保护;
 4. 配有油液污染度检测仪, 检测精准度高, 可准确监控油液污染;
 5. 控制柜采用封闭式不锈钢制作, 底部配带可调节支撑脚, 前后门可开;
 6. 工件存放平台初始高度 900mm, 平台可以升高到 1200mm, 方便测试时观察工件, 平台四周采用不锈钢骨架嵌入防护板, 可 180° 翻转。
1. Pressure test function: high pressure leakage test, low pressure leakage test, holding pressure test.
 2. Operation: Manual control of system working pressure and quick unloading by means of a regulator or the like.
 3. The system is equipped with a 5 μ precision oil filter for effective protection of the system and the brake hub.
 4. Equipped with an Laser Online Oil Particle Counter, which is highly accurate and can accurately monitor oil contamination.
 5. The control cabinet is made of closed stainless steel, with adjustable support feet at the bottom, and the front and back doors can be opened.
 6. The initial height of the workpiece storage platform is 900mm, using air-driven motor drive screw nut lifting, the platform can be raised to 1200mm, convenient for observing the workpiece during the test, and the platform is surrounded by stainless steel skeleton embedded in the PC board, which can be turned over by 180°.

三、技术参数/Technical Parameters

1. 测试介质: 蓝油(磷酸酯液压油);
 2. 测试压力范围: 5psi~4500psi, 最大输出压力: 6000psi;
 3. 系统配有六个不同压力等级精密压力表, 可对各种压力进行精确测试;
 4. 动力要求: 洁净干燥的压缩空气, 最高气压 100psi, 最低供气量 1.0 NM³/Min @100psi。
1. Test medium: Skydrol hydraulic fluid (Phosphate Ester Base)
 2. Test pressure range: 5psi ~ 4500psi. Maximum output pressure: 6000psi.
 3. The system is equipped with six precision pressure gauges of different ranges, which can accurately test various pressures.
 4. Power Requirements: Clean, dry compressed air with a maximum air pressure of 100 psi and a minimum air supply of 1.0 NM³/Min @100psi.