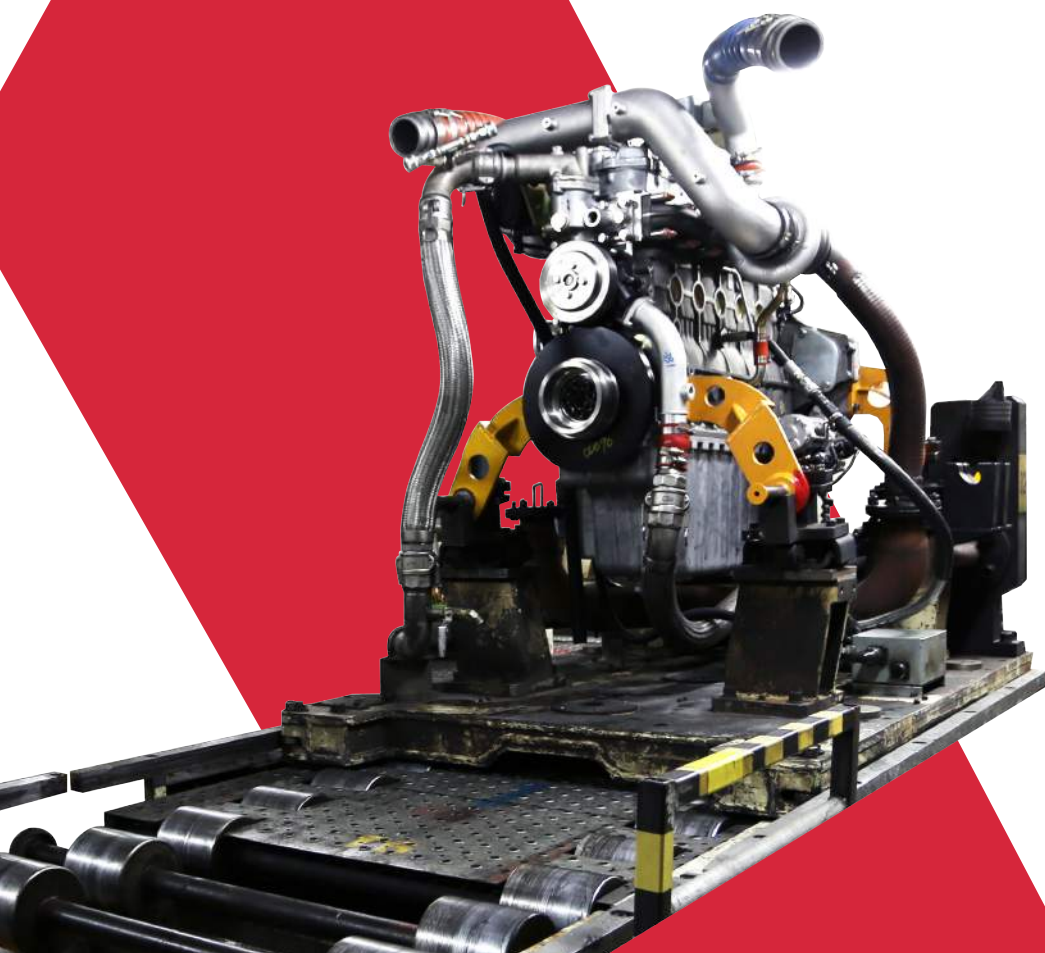




URE**Tac**

UREATac CO., LTD.

**TEST EQUIPMENT FOR
ENGINE AND DRIVING MACHINE**



The Creation of Future-oriented Value! World Standard Competitive Company, UREATac!



MAIN BUSINESS ITEM

主业务领域



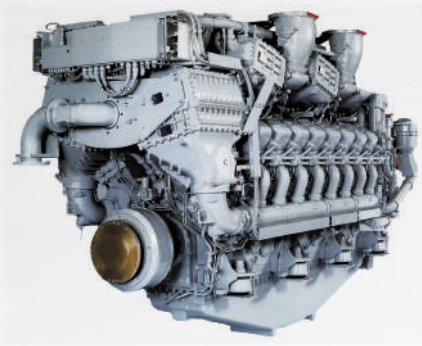
UREATac has been specializing in the manufacture and installation all kind of industrial facility since 1993. the company aims to provide total solution for automation in the field of production plant and committed to providing standard system. In the field of automotive test industry UREATac has made different kind of tester and supplied them customer such as Doosan, PHC VALEO, SAMSUNG.

UREATac自1993年成立以来从事专业制造及安装各种工业设备。我们致力于，为生产线实现自动化提供最佳技术方案以及标准化系统。传动系列的测试仪方面，UREATac能够制造各种不同类型的传动测试仪，并对DOOSAN, PHC VALEO, SAMSUNG等客户供应测试设备。



TEST EQUIPMENT ITEM

测试设备



ENGINE TEST EQUIPMENT

- Engine Hot Test cell
- Engine Cold Test cell
- Chassis Dynamometer Cell

TESTER DIVISION

- Mobile Engine
- Airplane Engine
- Chassis Dynamometer Cell

发动机测试设备

- 发动机热试车
- 发动机冷试车
- 底盘测功机

应用领域

- 移动式发动机
- 飞机发动机
- 底盘测功机



TRAIN RAIL LOAD TEST EQUIPMENT

- Engine, T/M, Generator Test cell
- BOU Tester, Inverter, Converter Test cell
- Train Wheel, Pallet, Train Driving Test cell

TESTER DIVISION

- KTX
- Train
- Subway Train

火车轨道负载测试设备

- 发动机 传送设备, 发电机 测试仪
- 边界测试仪, 变频器, 转换器测试仪
- 火车车轮, Pallet, 火车运行测试仪

应用领域

- 高速列车(KTX)
- 火车
- 地铁



ENGINE DYNAMOMETER

- AC Dynamometer
- EC Dynamometer
- Hydraulic Dynamometer
- etc

TESTER DIVISION

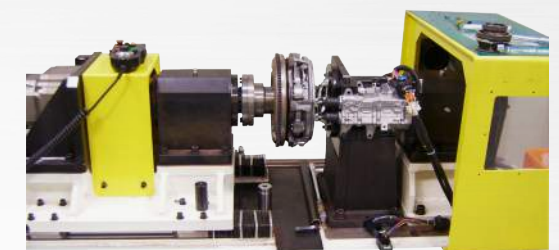
- Engine Tester
- T/M Tester
- Load Tester
- Test Program

引擎测功机

- 交流测功机
- 电涡流测功机(EC 测功机)
- 液压测功机
- 其他

应用领域

- 发动机测试仪
- 传送设备测试仪
- 负载测试仪
- 测试程序



TESTER EQUIPMENT

- Shock Absorber Tester
- Clutch Cover Ass'y Tester
- Gear Run out Tester
- etc

TESTER DIVISION

- Mobile
- Train
- Subway Train

测试设备

- 冲击吸收性能测试仪
- 离合器盖总成检测机
- 齿轮跳动仪
- 其他

应用领域

- 移动设备
- 列车
- 地铁



T/M TEST EQUIPMENT

- Mobile, Truck, Subway Train, Train, KTX
- etc

TESTER DIVISION

- T/M Tester

线荷载(T/M)测试设备

- 移动设备, 卡车, 地铁, 火车, 高速列车
- 其他

应用领域

- 传送设备测试仪



FAMING MACHINE TEST EQUIPMENT

- Tractor PTO Tester
- Driving Shaft Output Load Tester
- Engine Tester (EC Dynamometer)

TESTER DIVISION

- Tractor
- Combine
- etc

耕作机械测试设备

- 拖拉机动力输出轴测试仪
- 驱动轴输出负载测试仪
- 发动机测试仪(电涡流 测功机)

应用领域

- 拖拉机
- 联合收割机
- 其他



VALVE & THROTTLE CONTROLLER EQUIPMENT

- Proportional Valve Control (Ball Valve Type)
- Throttle Valve Control
- etc

TESTER DIVISION

- Pro' Valve
- Throttle Valve
- HST Actuator

节流阀控制设备

- 比例阀控制器 (球阀型)
- 比例阀控制
- 其他

应用领域

- 职业阀
- 节流阀
- 静压传动(HST)执行器



SERVO CONTROL ACTUATOR

- CNC Servo Control Actuator
- Auto Tapping M/C Actuator
- Auto Valve Control

TESTER DIVISION

- CNC Control
- Auto M/C
- Mobile

伺服激振控制器

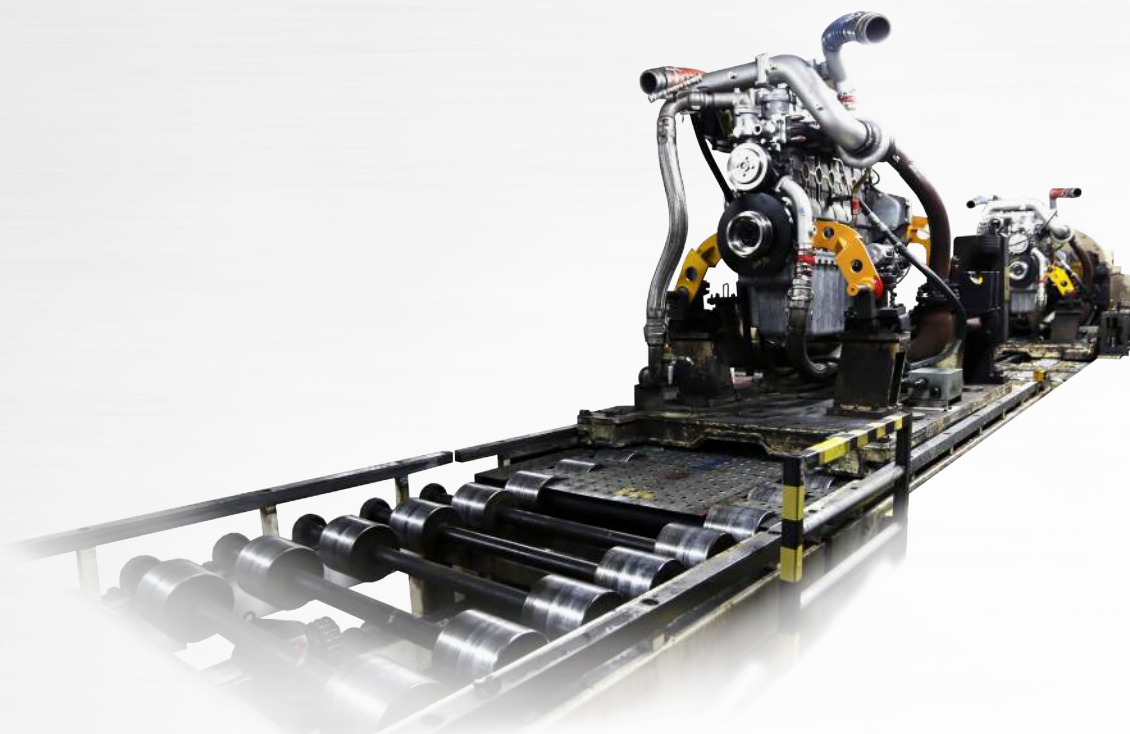
- 数控机床伺服控制促动器
- 自动攻丝机促动器
- 自动控制阀

应用领域

- 数控设备
- 自动机械
- 移动设备

Engine Auto Docking System(EC-Type)

发动机自动对接系统



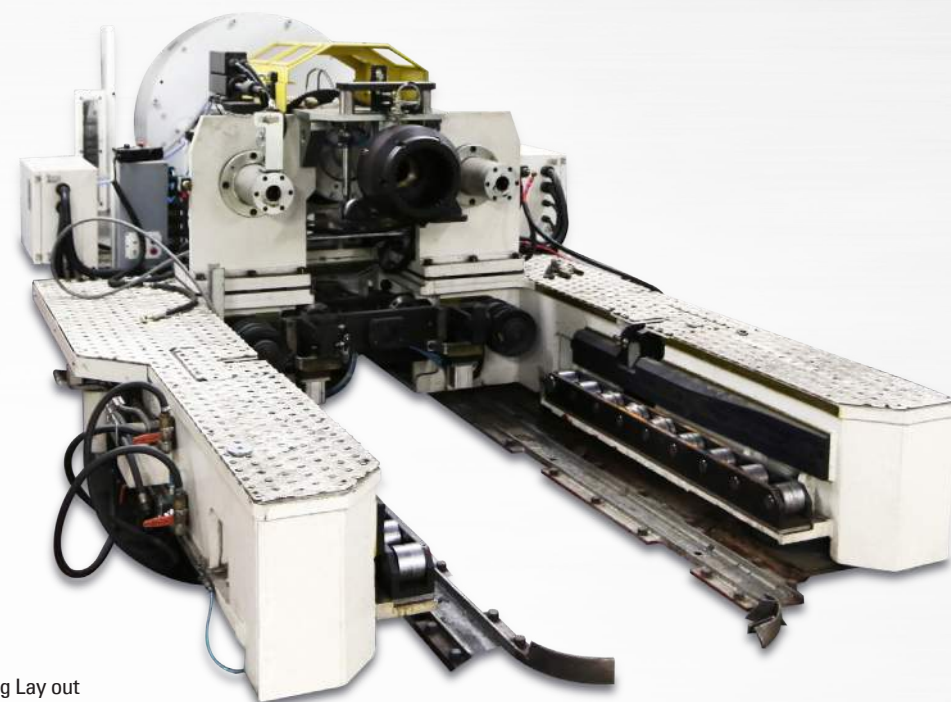
E/G Assembly Line & Auto Docking System Lay out
发动机装配线与自动对接系统布局图

Test Equipment Name	Auto Docking & EOL System
Test Method	Lapping Mode Test
Test Mode	Manual, Semi Auto, Auto
Engine Model	DL06, DL08, DB58, DE08, DE12
Dynamometer	HORIBA(WT470)
Test Program	ECU(K_Line) Type & M/C Engine Control Program
Main Composition Equipment	- E/G Auto Assembly Line - E/G Auto Feeding - System - E/G Auto Docking System - EOL System - EURO 3~5, TIER 3~4

测试设备名称	自动对接及下线标定(EOL)系统
测试方式	研磨式检测
测试模式	手动, 半自动, 自动
发动机型号	DL06, DL08, DB58, DE08, DE12
测功机	HORIBA(WT470)
测试程序	ECU(K_Line)机械式发动机控制程序
主构成设备	- 发动机自动装配线 - 发动机自动送料系统 - 发动机自动对接系统 - 下线标定(EOL)系统 - EURO 3~5, TIER 3~4

E/G Semi Auto Docking System(EC-Type)

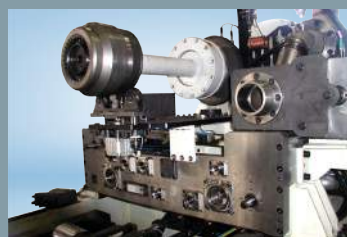
发动机半自动对接系统



Semi Auto docking Lay out
半自动对接系统布局图

Test Equipment Name	Semi Auto Docking & EOL System
Test Method	Lapping Mode Test
Test Mode	Manual, Semi Auto, Auto
Engine Model	DL06, DL08
Dynamometer	HORIBA(WT470)
Test Program	ECU Type & M/C Engine Control Program
Main Composition Equipment	- ECU (K_Line) Converter - Coolant Water Temp Controller - Fuel Temp Controller - EX_Gas Temp Controller - Inter_Cooler Temp Controller - EURO 3~5, TIER 3~4

测试设备名称	半自动对接与下线标定(EOL)系统
测试方式	研磨式测试
测试模式	手动, 半自动, 自动
发动机型号	DL06, DL08
测功机	HORIBA(WT470)
测试程序	ECU 机械式发动机控制程序
主构成设备	- ECU (K_Line) - 转换器 - 冷却液温度控制器 - 燃油温度控制器 - 前气温度控制器 - 中冷器温度控制器 - EURO 3~5, TIER 3~4



Matching Plate



E/G Pallet



EX-Gas Damper Actuator



E/G Auto Docking Lay-Out



Flexible Drive Shaft



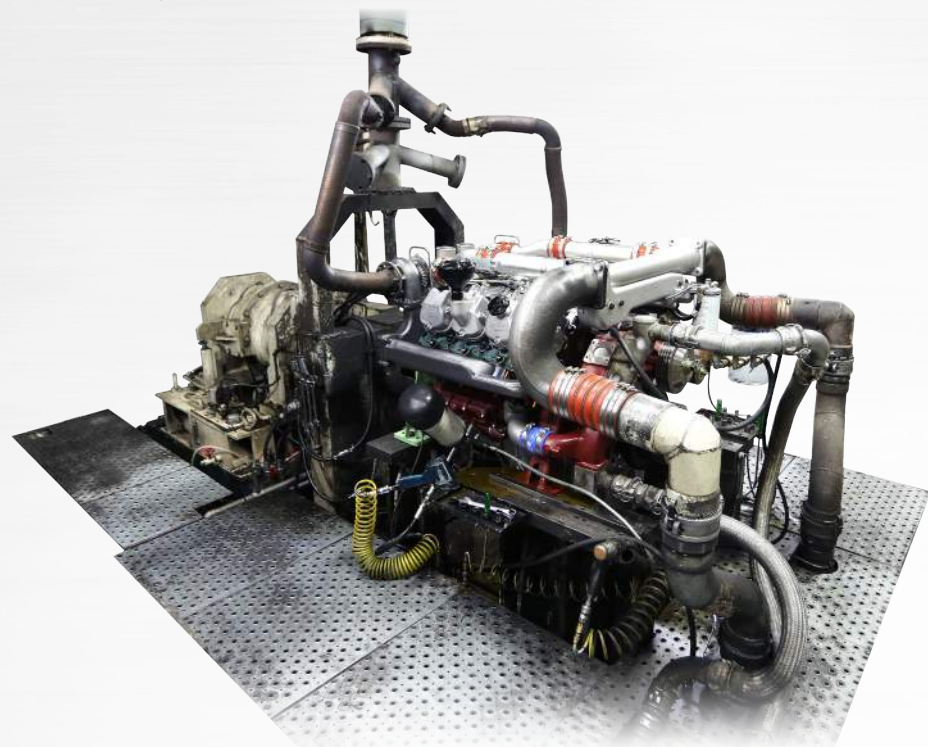
Bearing Block Ass'y



Priming System

Engine Auto Docking System(HYD-Type)

发动机自动对接系统



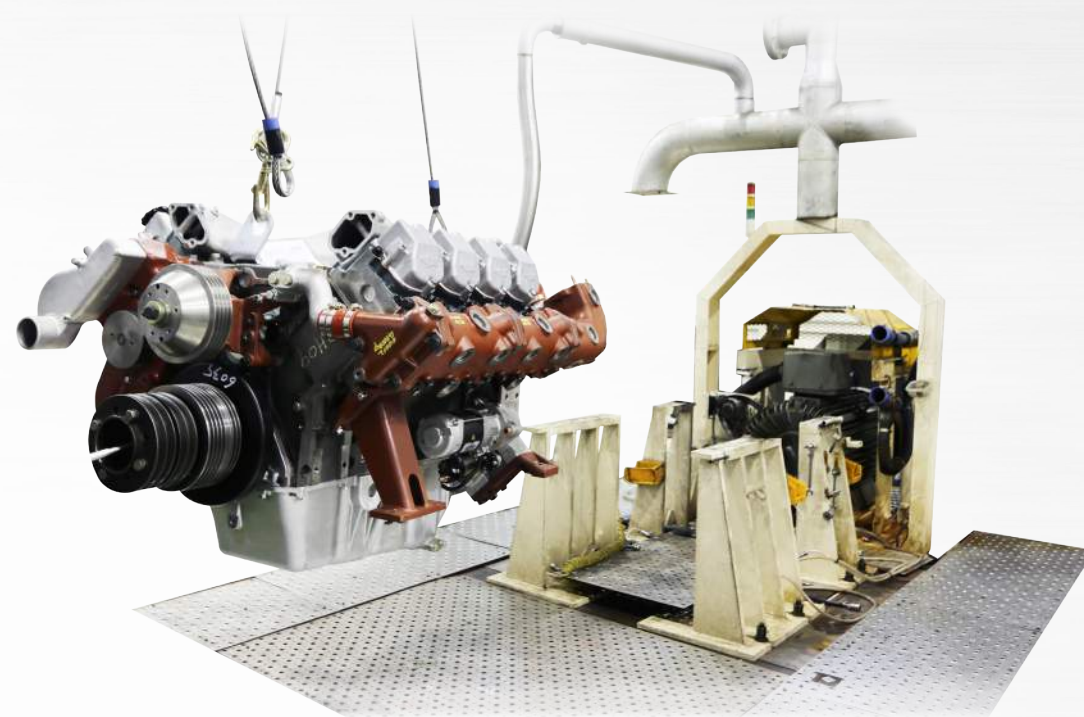
E/G Assembly Line & Auto Docking System Lay out
发动机自动对接系统布局图

Test Equipment Name	Auto Docking & EOL System
Test Method	Lapping Mode Test
Test Mode	Manual, Semi Auto, Auto
Engine Model	DV11, DV15, etc
Dynamometer	AVL
Test Program	ECU Type Engine Control Program
Main Composition Equipment	- ECU (K_Line) Converter - Coolant Water Temp controller - Fuel Temp Controller - EX_Gas Temp Controller - Inter_Cooler Temp Controller - EURO 3, EURO 4, EURO 5

测试设备名称	自动对接与下线标定(EOL)系统
测试方法	研磨式测试
测试模式	手动, 半自动, 自动
发动机型号	DL06, DV15, etc
测功机	AVL
测试程序	ECU 式发动机控制程序
主构成设备	- ECU (K_Line) - 转换器 - 冷却液温度控制器 - 燃油温度控制器 - 前气温度控制器 - 中冷器温度控制器 - EURO 3, EURO 4, EURO 5

Engine Tester (EC Type)

发动机测试仪 (电涡流式)



Engine Tester (EC Dynamometer)
发动机测试仪 (电涡流测功机)

Test Equipment Name	Engine Tester (EC Dynamometer)
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Engine Model	ACR, ATR, ASR
Dynamometer	30PS ~ 2000PS
Test Program	ECU Type & M/C Engine Control Program
Main Composition Equipment	- Coolant Water Temp Controller - Fuel Temp Controller - EX_Gas Temp Controller - Inter_Cooler Temp Controller - EOL System Panel

测试设备名称	发动机测试仪(电涡流测功机)
测试方式	模式测试
测试模式	程序序列测试模式 满负荷测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
测功机	30PS ~ 2000PS
测试程序	ECU 机械式发动机控制程序
主构成设备	- 冷却液温度控制器 - 燃油温度控制器 - 前气温度控制器 - 中冷器温度控制器 - 下线标定系统(EOL System)面板



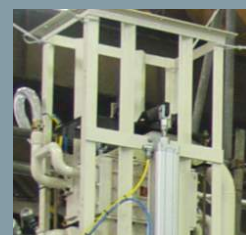
Coolant Temp Controller



Fuel Temp Controller



EX_Gas Controller & Actuator



Inter_Cooler Temp Controller



Fuel Flow Detector



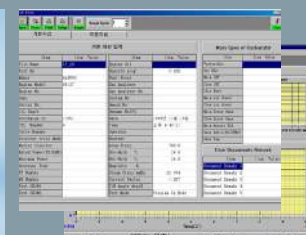
Engine Throttle Controller



Fuel Flow Detector



Smoke Opacity Meter



Engine Control Program

Hydraulic Dynamometer

液压测功机



Hydraulic Dynamometer
液压测功机

Test Equipment Name	Engine Tester (HYD' Dynamometer)
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Engine Model	ACR, ATR, ASR
Dynamometer	500PS ~ 5000PS, 10000~150000PS
Test Program	M/C Engine Control Program
Main Composition Equipment	- Coolant Water Temp Controller - Fuel Temp Controller - EX_Gas Temp Controller - System Panel

测试设备名称	发动机测试仪 (液压测功机)
测试方式	模态测试
测试模式	程序序列测试模式 满负荷测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
测功机	500PS ~ 5000PS, 10000~150000PS
测试程序	机械发动机控制程序
主构成设备	- 冷却液温度控制器 - 燃油温度控制器 - 前气温度控制器 - 系统面板

Airplane Engine Test System

飞机发动机测试仪



Propeller Engine
螺旋桨发动机

Test Equipment Name	Airplane Engine Tester
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Engine Model	ACR, ATR, ASR
Dynamometer	200PS ~ 500PS
Test Program	Engine & DYN' Control Program
Main Composition Equipment	- Pitch & Throttle Controller - Thrust Force, Vib', EGT Temp - Dynamo Controller - Sequence Controller

测试设备名称	飞机发动机测试仪
测试方式	模态测试
测试模式	程序序列测试模式 满负荷测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
测功机	200PS ~ 500PS
测试程序	Engine & DYN' Control Program
主构成设备	- 沥青与节气门控制器 - Thrust Force, Vib', EGT Temp - 电机控制器 - 序列控制器



Smoke Meter



Hydraulic Dynamometer



Dynamometer Controller



Dynamo Drive



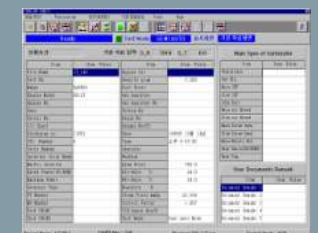
Jet Engine



System Panel



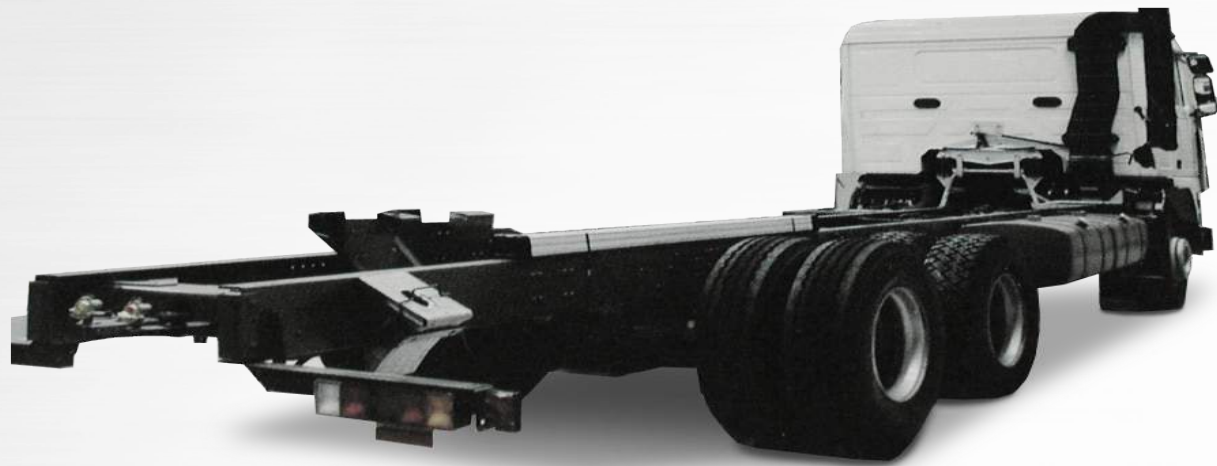
Jet Engine Test Bench



E/G Testing Program

Chassis Dynamometer Cell

底盘测功机单元



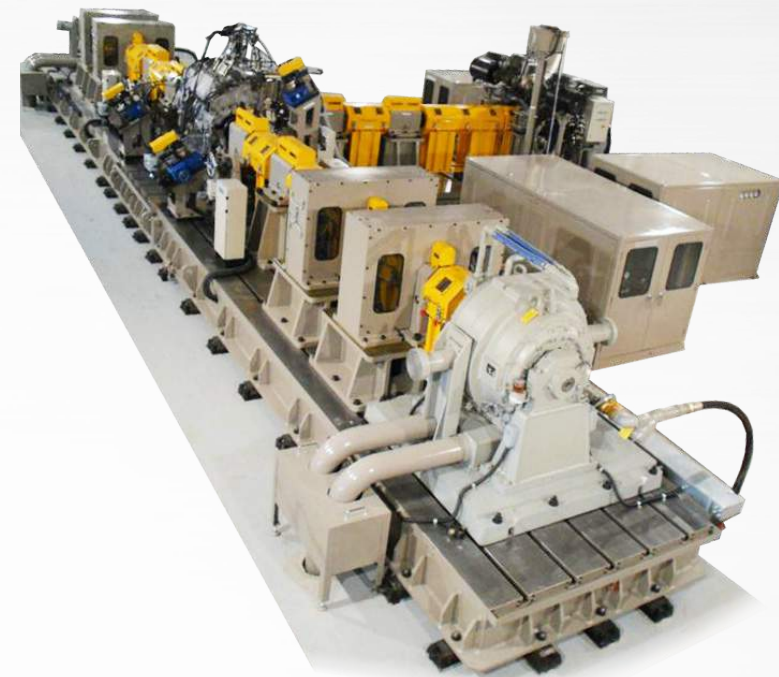
Chassis Dynamometer Cell
底盘测功机单元

Test Equipment Name	Chassis Dynamometer Cell
Test Method	Seoul Mode Test LA Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Engine Model	ACR, ATR, ASR
Dynamometer	200PS ~ 500PS
Test Program	Chassis & DYN' Control Program
Main Composition Equipment	- Chassis Dynamometer - Smoke Meter - Smoke Opacity Meter - System Control Panel

测试设备名称	底盘测功机单元
测试方式	Seoul模式测试 LA模式测试
测试模式	程序序列测试模式 满负荷测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
测功机	200PS ~ 500PS
测试程序	底盘与测功机控制程序
主构成设备	- 底盘测功机 - 烟度计 - 不透光烟度计 - 系统控制面板

Transmission Tester

传输测试仪



K9 T/M Tester
K9 传输测试仪

Test Equipment Name	K9 Mobile Gun T/M Tester
Test Method	Acceptance Test & Durability Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Engine Model	MTU 881 (1500 HP)
Dynamometer	2000PS (2ea)
Test Program	K9 T/M Test Program
Main Composition Equipment	- Throttle Actuator - Seer Actuator - M/C Brake Actuator - etc

测试设备名称	K9 移动炮传输测试仪
测试方式	接受测试与 耐久性测试
测试模式	程序序列测试模式 满负荷测试模式 模拟测试模式
发动机型号	MTU 881 (1500 HP)
测功机	2000PS (2ea)
测试程序	K9 传输测试程序
主构成设备	- 节气门执行器 - 季节性性能比 执行器Seer (seasonal energy efficiency rati) - M/C Brake Actuator - 其他



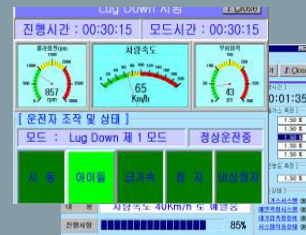
Chassis Dynamometer Roller Assembly



Air Cooling Type Dynamometer



Computer System Panel



Chassis Dynamometer Test Program



Main Drive Engine



System Panel



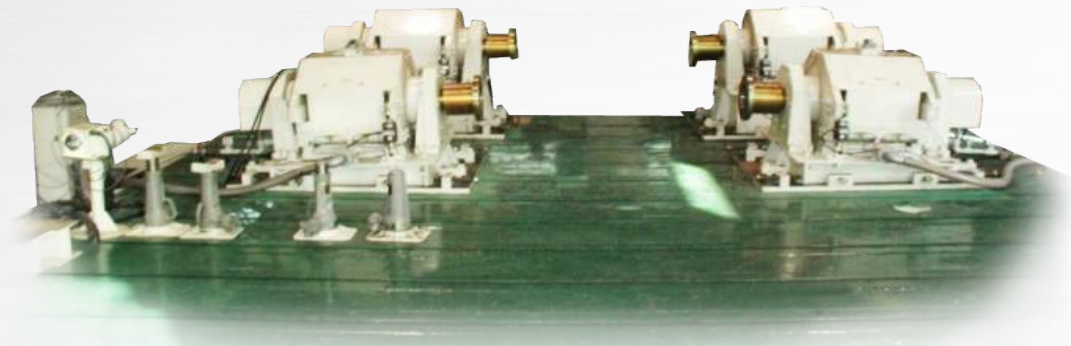
T/M Ass'y



T/M Testing Program

Driving Shaft Output Load Tester

驱动轴输出负载测试仪



Driving Shaft Output Load Tester Lay_out
驱动轴输出负载测试仪布局图



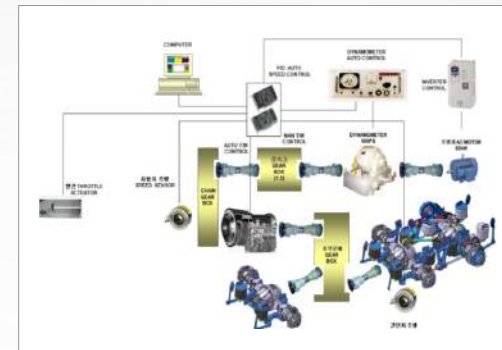
Driving Shaft Output Load Tester Data Measuring System
驱动轴输出负载测试数据测量系统

Test Equipment Name	Driving Shaft Output Load Tester
Test Method	Continuance Load Durability Test Variable Load Durability Test S_Shaft Load Durability Test Performance Test Durability Test
Test Mode	Program Sequence Test Mode Simulation Test Mode
Control Mode	ACR, ATR, ASR
Dynamometer	400Hp x 4ea
Test Program	Driving Shaft Output Load Test Program
Main Composition Equipment	- Dynamometer Controller - Throttle Actuator & Controller - Fuel Flow & Fuel Temp Controller - Hydraulic Unit & Servo Controller - Data Measuring Sensor - Data Measuring System

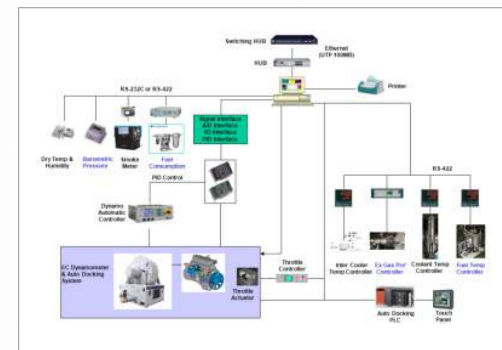
测试设备名称	驱动轴输出负载测试仪
测试方式	持续负载耐久性测试 可变负载耐久性测试 S轴负载耐久性测试 性能测试 耐久性测试
测试模式	程序序列测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
测功机	400Hp x 4ea
测试程序	驱动轴输出负载测试程序
主构成设备	- 测功机控制器 - 节气门执行器及控制器 - 燃料流量与燃料温度控制器 - 液压单元与伺服控制器 - 数据流量传感器

Tractor Traction Force Tester

拖拉机牵引力测试仪



Tractor Traction Force Tester Load Control Diagram
拖拉机牵引力测试仪负荷控制示意图



Tractor Traction Force Tester System Diagram
拖拉机牵引力测试仪系统示意图



Test Equipment Name	Tractor Traction Force Tester
Test Method	Traction Force Performance Test
Specification	Power - Max Traction Force : 300kW - Max Traction Load : 250KN - Max Driving Speed : 50km/h Car Weight -Front Axle : Axle Permission Weight (10ton) -Rear Axle : Axle Permission Weight (20ton) Car Description -Wide : 3,000mm -Length : 15,000mm -Height : 3,360mm -Shaft CL : 8,025mm
Control Mode	ACR, ATR, ASR
Dynamometer	ESF-500
Test Program	Traction Force Test Program
Main Composition Equipment	- Generator & Braking System - Fuel Flow, SCR Flow, Slip Sensor - Traction Load Measuring System

测试设备名称	拖拉机牵引力测试仪
测试方式	牵引力性能测试
规格	功率 - 最大牵引力 : 300kW - 最大牵引负载: 250KN - 最快行驶速度: 50km/h 车重 - 前轴 : 轴载重量(10ton) - 后轴 : 轴载重量(20ton) 车型 - 宽度 : 3,000mm - 长度 : 15,000mm - 高度 : 3,360mm - Shaft CL : 8,025mm
控制模式	ACR, ATR, ASR
测功机	ESF-500
测试程序	牵引力测试程序
主构成设备	- 发电机及制动系统 - 燃料流量, SCR Flow, 滑觉传感器 - 牵引负荷测量系统

Hydraulic Output Test & Lifting Tester

拖拉机液压输出测试及提升测试仪



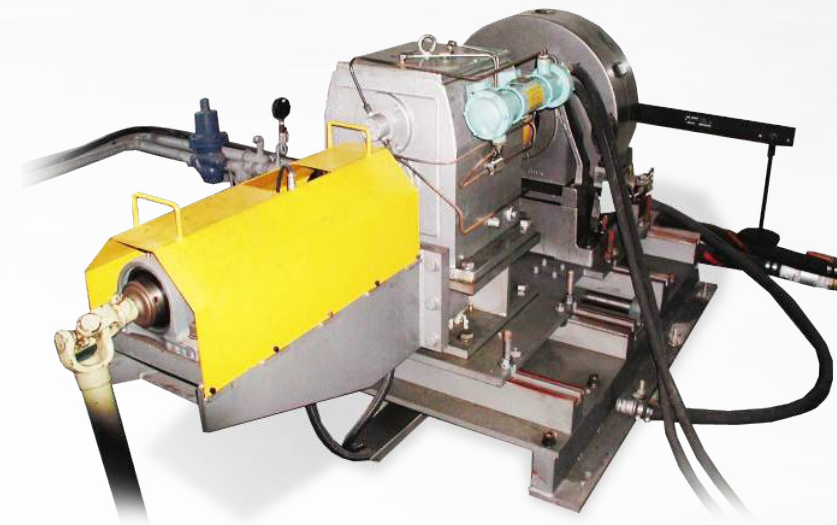
Hydraulic Output Test & Lifting Tester
液压输出测试 & 提升测试仪



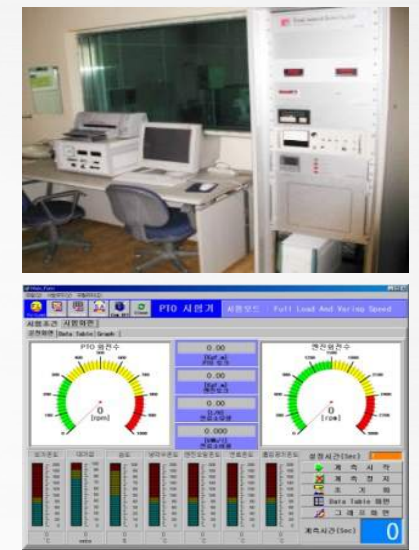
Data Measuring System & Test Program
数据测量系统 & 测试程序

PTO Performance Test Equipment

PTO 性能测试设备



PTO Test Equipment
PTO 测试设备



Data Measuring System & Test Program
数据测量系统 & 测试程序

Test Equipment Name	Hydraulic Output Test & Lifting Tester
Test Method	Lifting Test (2 Point) Lifting Test (3 Point) Static Lifting Test Dynamic Lifting Test Hydraulic Output Test Lift Dropping Rate Test
Test Mode	Manual, Semi Auto, Auto
Tractor Model	All Model
Specification	Lifting Test - Max Load Force : 10000 Kg.f - Max Displacement : 1200 mm - Max Speed : ± 1000 mm/s - M/C Height : Max. 3500mm - M/C VIB Force : 5Ton $\times$ 1Hz Hydraulic Output Test - Hydraulic Flow Control - Pressure Control - Temp Control
Test Program	Hydraulic Output Test & Lifting Test Program
Main Composition Equipment	- Lifting Test - Hydraulic Output Test Unit - Hydraulic Servo Control Unit - Data Measuring system

测试设备名称	拖拉机液压输出测试及提升测试仪
测试方式	提升测试 (2 Point) 提升测试 (3 Point) 静态提升测试 动态提升测试 液压输出测试 Lift Dropping Rate Test
测试模式	手动, 半自动, 全自动
拖拉机型号	所有型号
规格	提升测试 - 最大负载力 : 10000 Kg.f - 最大移位 : 1200 mm - 最高速度 : ± 1000 mm/s - 设备高度 : 最高 3500mm - 设备振动力 : 5Ton时1Hz 液压输出测试 - 液压流量控制 - 压力控制 - 温度控制
测试程序	液压输出测试及提升测试程序
主构成设备	- 提升测试 - 液压输出测试单元 - 液压伺服控制单元 - 数据测量系统

Test Equipment Name	PTO Performance Test Equipment
Test Method	Full Load Test Two Hour Test Power at Rated Test Standard Power Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Control Mode	ACR, ATR, ASR
Sensor Measuring	Dynamometer RPM Dynamometer Torque Fuel Flow PTO RPM Humidity & Dry Temp. Barometric Pressure Smoke Meter
Test Program	PTO Performance Test Program
Main Composition Equipment	- PTO Dynamometer (250, 400KW) - Gear Box - Tractor Lift Unit - Dynamometer Controller - Sensor & Fuel Temp Controller - Data Measuring System

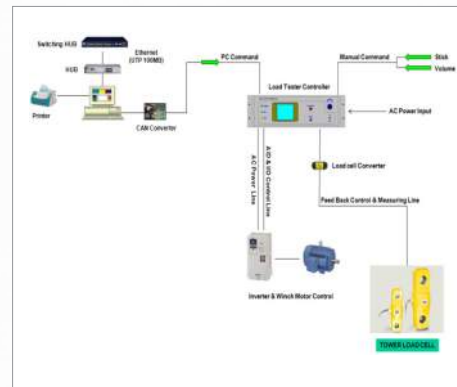
测试设备名称	PTO 性能测试设备
测试方式	满负载测试 2小时测试 额定功率测试 标准功率测试
测试模式	程序序列测试模式 满负载测试模式 模拟测试模式
控制模式	ACR, ATR, ASR
Sensor Measuring	测功机转矩(RPM) 测功机扭矩 燃油流量 PTO RPM 干湿温度 气压 烟度计
测试程序	PTO性能测试程序
主构成设备	- PTO 测功机(250, 400KW) - 齿轮箱 - 拖拉机悬挂装置 - 测功机控制器 - 传感器与燃料温度控制器 - 数据测量系统

Steel Tower Load Tester

铁塔负载测试仪



Steel Tower Load Tester Winch Control Tower
铁塔负载测试仪绞车控制塔



Steel Tower Load Tester System Diagram
铁塔负载测试仪系统示意图

Test Equipment Name	Steel Tower Load Tester
Test Method	Horizontal, Vertical, four-side loading type
Test Mode	Manual, Semi Auto, Auto
Tower Model	46M ~ 76.5M
Winch CAPA	5Ton.f, 10Ton.f, 15Ton.f
Test Program	- Tower Stress Measuring - Flection Test - Destruction and weight inspection - Selection of mode for test - Management of data - Function for Auto Control
Main Composition Equipment	- Structure Support Tower - Geared & Winch - Load cell - Inverter Control System - Load Measuring System - Control Panel & Computer System

测试设备名称	铁塔负载测试仪
测试方式	水平, 垂直, 四角联动负荷方式
测试模式	手动, 半自动, 全自动
铁塔型号	46M ~ 76.5M
绞车 CAPA	5Ton.f, 10Ton.f, 15Ton.f
测试程序	- 铁塔应力测量 - 铁塔弯曲检测功能 - 铁塔破坏荷重检测功能 - 模式别检测功能 - 查找管理功能 - 基础数据联动功能 - 设备自动控制联动功能
主构成设备	- 结构支撑塔 - 齿轮 & 绞车 - 测压元件 - 变频器控制系统 - 负载测量系统 - 控制面板 - 电算系统

Servo v/v, Servo Cylinder Tester

伺服阀, 伺服缸测试仪



Servo Valve & Cylinder TESTER (K9)
伺服阀 & 伺服缸测试仪 (K9)

TEST ITEM	Servo Cylinder, Servo Valve (Max 450bar, K9)
TEST CONDITION	150 Item Test Mode for Servo Cylinder, Servo Valve
HYDRAULIC UNIT	Proportional Control (Max 700bar, 500L)
MEASUREMENT SENSOR	Flow, Pressure, Temperature, LVDT
ROOM SIZE	12M × 5M × 8M
PROGRAM	LABVIEW 2010
CUSTOMER	Consolidated Maintenance Depot (2006, 2011)

测试项目	伺服缸, 伺服阀 (最大 450bar, K9)
测试条件	伺服缸, 伺服阀 150项测试模式
液压装置	比例控制 (最大 700bar, 500L)
测量传感器	流量, 压力, 温度, LVDT
ROOM SIZE	12M × 5M × 8M
程序	LABVIEW 2010
客户	Consolidated Maintenance Depot (2006, 2011)



Servo Valve & Cylinder TESTER (K9)



Control System



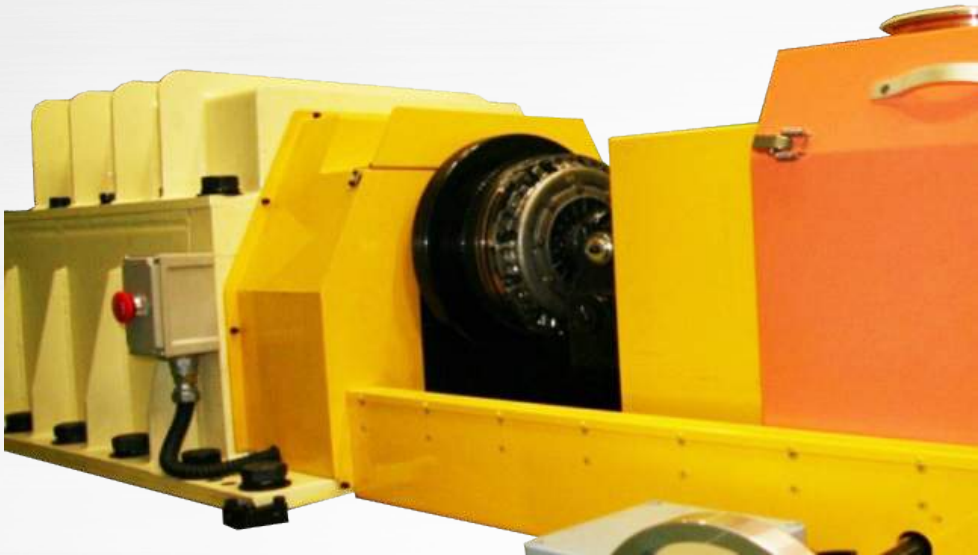
Servo Cylinder Test Bench



Servo Valve Test Bench

Clutch Full size & Burst Tester

全尺寸和耐破度测试仪



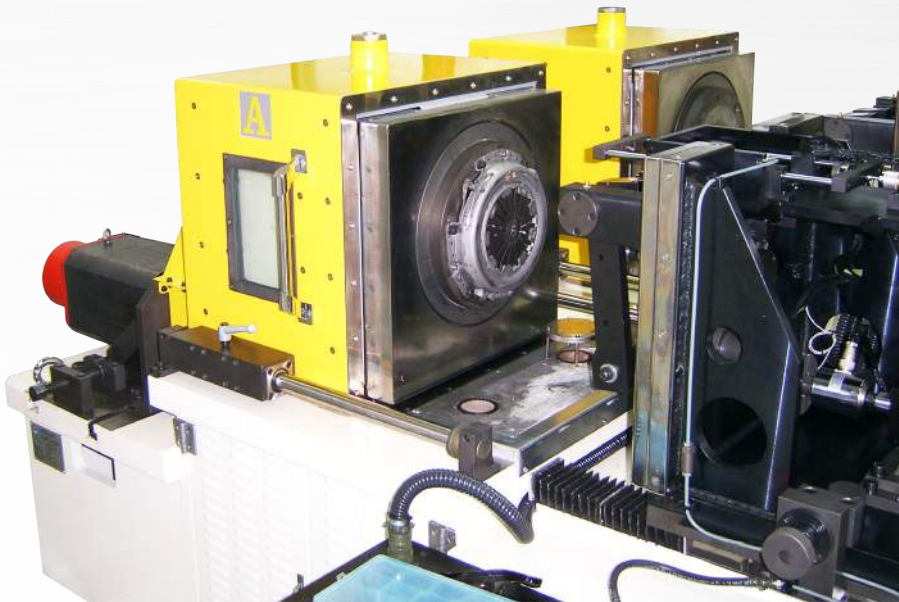
E6/D9 Tester
E6/D9 测试仪

TEST ITEM	Clutch Disk Ass'y (Ø160 ~ Ø300)
TEST CONDITION	3 Item Test Mode for Clutch
INPUT POWER	Motor(400Kw@9,000rpm, 50kgf-m)
CLAMP LOAD	Min 100 ~ Max 600kgf
STROKE	Push : 200mm, Full : 20mm
MEASUREMENT SENSOR	Torque, Linear, Load cell
ROOM SIZE	10M × 4M × 5M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC VALEO(2008)

测试项目	离合器盘组件 (Ø160 ~ Ø300)
测试条件	离合器3项测试模式
输入功率	Motor(400Kw@9,000rpm, 50kgf-m)
夹紧载荷	Min 100 ~ Max 600kgf
冲程	Push : 200mm, Full : 20mm
测量传感器	Torque, Linear, Load cell
ROOM SIZE	10M × 4M × 5M
程序	LABVIEW8.0
客户	PHC VALEO(2008)

Clutch Cover Dynamic Tester

覆盖动态测试仪



R/Bearing Tester
R/Bearing Tester

TEST ITEM	Clutch Disk Ass'y (Ø160 ~ Ø300)
TEST CONDITION	4 Item Test Mode for Clutch
INPUT POWER	Spindle Motor(15.2Kw@9,000rpm)
CLAMP LOAD	Min 100 ~ Max 600kgf
STROKE	Max 20mm
MEASUREMENT SENSOR	Linear, LVDT, Load cell, RPM
ROOM SIZE	5M × 3M × 3M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC VALEO(2006, 2008, 2010)

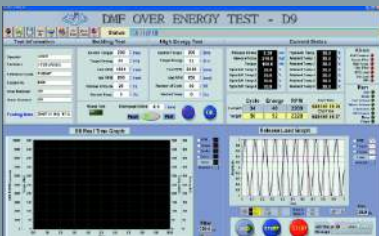
测试项目	离合器盘组件 (Ø160 ~ Ø300)
测试条件	离合器4项测试模式
输入功率	主轴电机(15.2Kw@9,000rpm)
夹紧载荷	Min 100 ~ Max 600kgf
冲程	Max 20mm
测量传感器	Linear, LVDT, Load cell, RPM
ROOM SIZE	5M × 3M × 3M
程序	LABVIEW8.0
客户	PHC Valeo(2006, 2008, 2010)



Test Bench



Control System



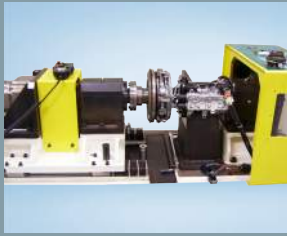
Test Program



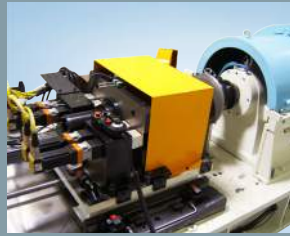
Spindle



Power Pack



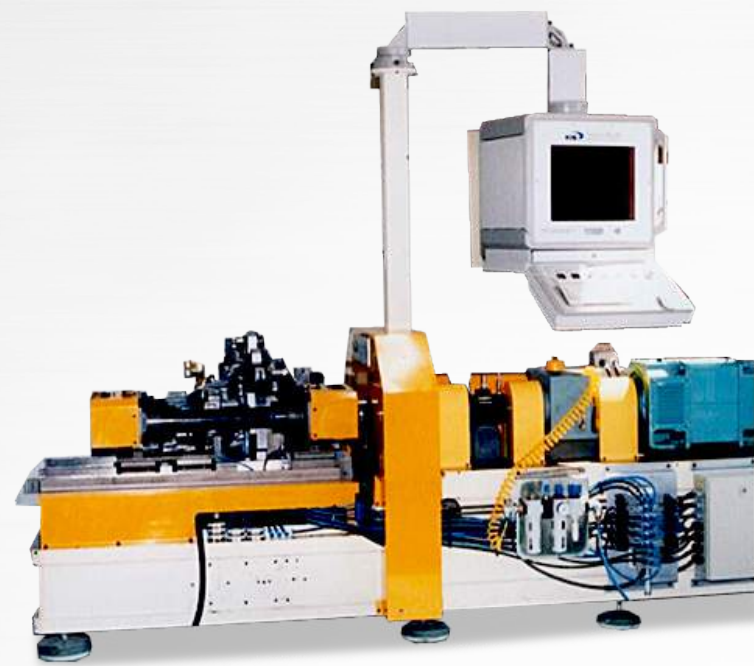
Clutch Test Bench



Real Measuring System

Transmission Tester

传输测试仪



Transmission Tester
传输测试仪

TEST ITEM	Transmission (Matiz, Cielo, Pride)
TEST CONDITION	7 Item Test Mode for Transmission
INPUT POWER	DC Motor (35Kw@3,900RPM,6.8kgf-m)
DYNAMOMETER	DC Motor Dynamometer (16.69kgf-m, 1,750RPM)
MEASUREMENT SENSOR	Torque meter, RPM, Temp
ROOM SIZE	5.5M × 55M × 3M
PROGRAM	Labview
CUSTOMER	ChunHae (2003)

测试项目	传动装置(Matiz, Cielo, Pride)
测试条件	传动装置7项测试模式
输入功率	直流电动机 (35Kw@3,900RPM,6.8kgf-m)
测功机	直流电机测功机 (16.69kgf-m, 1,750RPM)
测量传感器	扭矩仪, RPM, Temp
ROOM SIZE	5.5M × 55M × 3M
程序	Labview
客户	ChunHae (2003)

Hydro Valve, Pump Tester

液压阀与泵测试仪



Transmission Tester (K200)
Transmission Tester (K200)

TEST ITEM	Hydro Valve, Pump Unit (K200, K77)
TEST CONDITION	12 Item Test Mode for Hydro Valve, Pump Unit
INPUT POWER	AC Motor(15kw@3500RPM)
HYDRAULIC SUPPLY	Piston Pump (5.5kw@1,710RPM, 250lpm)
SENSOR	Flow, Pressure, Temp
ROOM SIZE	9M × 8M × 10M
PROGRAM	LABVIEW 6.0
CUSTOMER	Consolidated Maintenance Depot (2003)

测试项目	液压阀, 泵 (K200, K77)
TEST CONDITION	液压阀与泵12项测试模式
INPUT POWER	交流电动机(15kw@3500RPM)
液压供给	活塞泵 (5.5kw@1,710RPM, 250lpm)
传感器	Flow, Pressure, Temp
ROOM SIZE	9M × 8M × 10M
程序	LABVIEW 6.0
客户	Consolidated Maintenance Depot (2003)



DC Driving Motor



Test Program



T/M Tester Ass'y



Valve Kit



G1 govermer



Test Bench



Real Measuring Program

Gear Box Test Equipment

齿轮箱测试设备



GEAR BOX & MOTOR TESTER (K9)
齿轮箱与电机测试仪 (K9)

TEST ITEM	Motor (1,130kgf-cm,@2,150rpm 24VDC, K9)
TEST CONDITION	6 Item Test Mode for Motor
INPUT POWER	AC Motor(400HP@3000RPM)
DYNAMOMETER	Hysteresis Brake Dynamometer (280kgf-cm@12,000RPM)
WITHSTAND VOLTAGE	AC 600V (RS232C)
ROOM SIZE	9M × 5M × 6M
PROGRAM	LABVIEW 6.0
CUSTOMER	Consolidated Maintenance Depot (2006)

测试项目	电机 (1,130kgf-cm,@2,150rpm 24VDC, K9)
测试条件	电机6项测试模式
输入功率	交流电动机(400HP@3000RPM)
测功机	磁滞测功机 (280kgf-cm@12,000RPM)
耐电压	交流电 600V (RS232C)
ROOM SIZE	9M × 5M × 6M
程序	LABVIEW 6.0
客户	Consolidated Maintenance Depot (2006)



Dynamometer



Voltage



Gear Box Test Bench



Real Measuring Program

Hydro-Steering Test Equipment

液压阀与泵测试仪



HSU Tester (K200)
液压转向测试仪 (K200)

TEST ITEM	Hydro-Steering Unit (240HP@X200-5K, K200)
TEST CONDITION	10 Item Test Mode for Hydro-Steering Unit
INPUT POWER	AC Motor(400HP@3000RPM)
DYNAMOMETER	Hydro Dynamometer (250HP@4,500RPM, 110cc/rev)
FLYWHEEL	Inertia 2kg-m, 4,000rpm
ROOM SIZE	13M × 9M × 10M
PROGRAM	LABVIEW 6.0
CUSTOMER	Consolidated Maintenance Depot (2003)

测试项目	液压转向单元 (240HP@X200-5K, K200)
测试条件	液压转向单元的10项测试模式
输入功率	交流电动机(400HP@3000RPM)
测功机	水力测功机 (250HP@4,500RPM, 110cc/rev)
调速轮	惯性 2kg-m, 4,000rpm
ROOM SIZE	13M × 9M × 10M
程序	LABVIEW 6.0
客户	Consolidated Maintenance Depot (2003)



Power Pack



Test Program



Real Measuring Program

Aero Space

航空航天

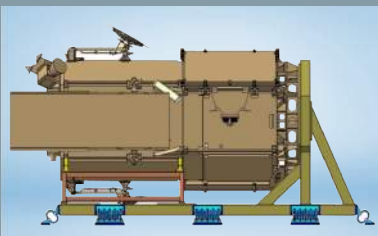


MGSE – SHIPPING CONTAINER (S/C)
MGSE - 海运集装箱 (S/C)

ITEM	KOMPSAT – 2, 3, 3A, 5
PURPOSE	Transport for S/C
TEST	Drop, Static, Dynamic, Thermal
CONTROL	Vibration, Temp', Humidity, Pressure
HUMIDITY	20 ~ 60 % (Depending on Outside)
TEMPERATURE	8 °C ~ 35 °C
DIMENSION	W3000 X L67000 X H3300
MATERIAL	ATOS60



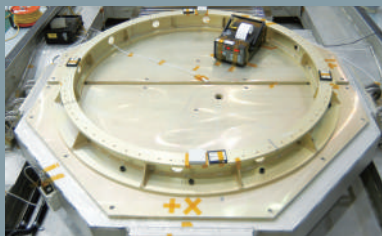
项目	KOMPSAT - 2, 3, 3A, 5
项目	Transport for S/C
测试	下降, 静态, 动态, 热量
控制	振动, 温度, 湿度, 压力
湿度	20 ~ 60 % (取决于外部环境)
温度	8 °C ~ 35 °C
尺寸	W3000 X L67000 X H3300
材质	ATOS60



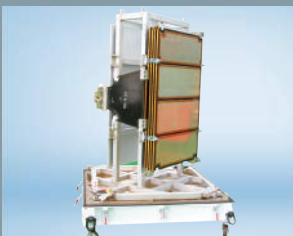
Fixture Jig



Satellite Container



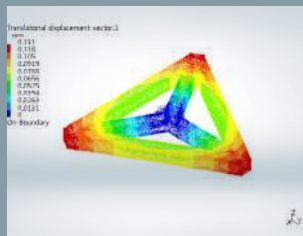
Adapter



Solar cell Container



Artificial Satellite Container



Analysis



Lifting Device for Satellite



MGSE – SHIPPING CONTAINER (S/A)
MGSE - 海运集装箱 (S/A)

TEST ITEM	KOMPSAT – 2, 3, 3A, 5
PURPOSE	Transport for S/C
TEST	Drop, Static, Dynamic, Thermal
CONTROL	Vibration, Temp', Humidity, Pressure
HUMIDITY	20 ~ 60 % (Depending on Outside)
TEMPERATURE	8 °C ~ 35 °C
DIMENSION	W3000 X L67000 X H3300
MATERIAL	ATOS60

项目	KOMPSAT - 2, 3, 3A, 5
目的	Transport for S/C
测试	下降, 静态, 动态, 热量
控制	振动, 温度, 湿度, 压力
湿度	20 ~ 60 % (取决于外部环境)
温度	8 °C ~ 35 °C
尺寸	W3000 X L67000 X H3300
材质	ATOS60

Aero Space
航空航天



MPT (Multi purpose Trolley)
MPT (多用途周转车)

TEST ITEM	KOMPSAT – 2, 3, 3A, 5
TYPE	Vertical, Horizontal Assembly & Test Fixture for Aero Space
MAIN SPEC’	L-Fixture (STS304, MLI)
PURPOSE	Fixture for Thermal & Vacuum Test

项目	KOMPSAT - 2, 3, 3A, 5
类型	垂直, 水平装配及航空航天测试夹具
主规格	L-Fixture (STS304, MLI)
目的	热真空测试夹具



Lifting Device



Multi Purpose Trolley



Artificial Satellite Fixture

SPECIFICATION

SALES RECORD(TEST EQUIPMENT)
测试仪制作业绩

No	Year	Project Name	Customer	Dynamometer Cap'y	序号	制作年份	项目名称	供应处	测功机 Cap'y
1	1976	Engine performance tester	STX	2000PS at 3500rpm	1	1976	发动机性能测试	STX	2000PS at 3500rpm
2	1977	Engine performance tester for production line	Doo San Infracore	2500PS at 3000rpm	2	1977	生产线发动机性能测试	斗山工程机械	2500PS at 3000rpm
3	1978	Engine performance tester for production line	Doo San Infracore	2000PS at 3500rpm	3	1978	生产线发动机性能测试	斗山工程机械	2000PS at 3500rpm
4	1980	Engine performance & durability tester	Asiakor	30PS at 5000rpm	4	1980	发动机性能及耐久性测试	Asiakor	30PS at 5000rpm
5	1980	Engine performance tester	Motonic Corporation	100PS at 5000rpm	5	1980	发动机性能测试	ChangWon 汽化器	100PS at 5000rpm
6	1980	Engine performance tester	STX	6000PS at 1000rpm	6	1980	发动机性能测试	STX	6000PS at 1000rpm
7	1982	Engine performance tester	STX	3500PS at 2000rpm	7	1982	发动机性能测试	STX	3500PS at 2000rpm
8	1982	Engine performance tester for production line	Doo San Infracore	1500PS at 4000rpm	8	1982	生产线发动机性能测试	斗山工程机械	1500PS at 4000rpm
9	1982	Engine performance tester for production line	Doo San Infracore	1800PS at 4000rpm	9	1982	生产线发动机性能测试	斗山工程机械	1800PS at 4000rpm
10	1985	Engine performance, & durability tester	Ministry of National Defense	100PS at 5000rpm	10	1985	发动机性能及耐久性测试 (陆军装备部)	国防部	100PS at 5000rpm
11	1985	Engine performance tester	Ministry of National Defense	30PS at 35000rpm	11	1985	发动机性能测试 (陆军装备部)	国防部	30PS at 35000rpm
12	1986	Tractor performance tester	Agro-materials inspection station	200PS at 6000rpm	12	1986	拖拉机能测试	农资材检查所	200PS at 6000rpm
13	1986	Engine performance & durability tester	Agro-materials inspection station	30PS at 6000rpm	13	1986	发动机性能及耐久性测试	农资材检查所	30PS at 6000rpm
14	1990	Engine performance & durability tester	Samjung Teck	150PS at 5000rpm	14	1990	发动机性能及耐久性测试	SangJung 机器	150PS at 5000rpm
15	1991	Engine performance tester	Kitech	100PS at 5000rpm	15	1991	发动机性能测试	生产技术研究所	100PS at 5000rpm
16	1992	Engine performance tester	Ministry of National Defense	150PS at 3000rpm	16	1992	发动机性能测试 (陆军装备部)	国防部	150PS at 3000rpm
17	1992	Engine performance tester	University	1PS at 5000rpm	17	1992	发动机性能测试	郡水山大学	1PS at 5000rpm
18	1992	Tractor PTO performance & Engineperformance & durability tester	Tongyang Mool San Co.,Ltd	400PS at 5000rpm	18	1992	拖拉机PTO性能/发动机性能及耐久性测试	东洋物产	400PS at 5000rpm

SPECIFICATION

SALES RECORD(TEST EQUIPMENT)
测试仪制作业绩

No	Year	Project Name	Customer	Dynamometer Cap'y	序号	制作年份	项目名称	供应处	测功机 Cap'y
19	1992	Engine performance & durability test	Motonic Corporation	200PS at 5000rpm	19	1992	发动机性能及耐久性测试	ChangWon 汽化器	200PS at 5000rpm
20	1992	Engine performance tester for production line	Doo San Infracore	2500PS at 3000rpm	20	1992	生产线发动机性能测试	斗山工程机械	2500PS at 3000rpm
21	1992	Engine performance & durability tester	JK Engineering	600PS at 4500rpm	21	1992	发动机性能及耐久性测试	JK Engineering	600PS at 4500rpm
22	1994	Engine performance tester	Konkuk University	1000PS at 3000rpm	22	1994	发动机性能测试	建国大学	1000PS at 3000rpm
23	1994	Engine performance tester	STX	3500PS at 2000rpm	23	1994	发动机性能测试	STX	3500PS at 2000rpm
24	1994	Engine performance tester	Haein Co.,Ltd	3500PS at 2000rpm	24	1994	发动机性能测试	Haein Co.,Ltd	3500PS at 2000rpm
25	1995	Engine performance tester for production line	Doo San Infracore	2000PS at 3500rpm	25	1995	生产线发动机性能测试	斗山工程机械	2000PS at 3500rpm
26	1995	Engine performance tester for production line	Doo San Infracore	3000PS at 2500rpm	26	1995	生产线发动机性能测试	斗山工程机械	3000PS at 2500rpm
27	1995	Tractor PTO performance tester	Asiakor	200PS at 5000rpm	27	1995	拖拉机PTO性能	Asia综合机械	200PS at 5000rpm
28	1995	Engine performance & durability & lubricant performance tester	SK laboratory	200PS at 5000rpm	28	1995	发动机性能、耐久性 & 润滑油性能评价	SK研究所	200PS at 5000rpm
29	1996	Engine performance & durability tester	Chonnam University	600PS at 4500rpm	29	1996	发动机性能及耐久性测试	全南大学	600PS at 4500rpm
30	1996	Engine performance & durability tester	Motonic Corporation	400PS at 5000rpm	30	1996	发动机性能及耐久性测试	ChangWon 汽化器	400PS at 5000rpm
31	1996	Engine performance & durability tester	KIMM	600PS at 4500rpm	31	1996	发动机性能及耐久性测试	韩国机械研究院	600PS at 4500rpm
32	1996	Engine performance & durability tester	Chonnam University	600PS at 4000rpm	32	1996	发动机性能及耐久性测试	全南大学	600PS at 4000rpm
33	1997	Engine performance & durability tester	KIMM	300PS at 5000rpm	33	1997	发动机性能及耐久性测试	韩国机械研究院	300PS at 5000rpm
34	1997	Tractor PTO	Agriculture instrument laboratory	200PS at 5000rpm	34	1997	拖拉机 PTO	农机械化研究所	200PS at 5000rpm
35	1997	Performance assessment tester	Agriculture instrument laboratory	30PS at 7000rpm	35	1997	性能评价测试	农机械化研究所	30PS at 7000rpm
36	1998	Tractor axis performance & durability & feature assessment	Agriculture instrument laboratory	300PS at 2000rpm	36	1998	性能评价测试	农机械化研究所	300PS at 2000rpm

No	Year	Project Name	Customer	Dynamometer Cap'y	序号	制作年份	项目名称	供应处	测功机 Cap'y
37	1998	Tractor pulling capacity tester	Agriculture instrument laboratory	100PS at 3000rpm	37	1998	拖拉机牵引力特性测试	农机械化研究所	100PS at 3000rpm
38	1998	Motor performance tester	Kumho industrial co.ltd	10PS at 7000rpm	38	1998	电动机性能测试	锦湖产业	10PS at 7000rpm
39	1998	Motor performance tester	Kumho industrial co.ltd	100PS at 4500rpm	39	1998	电动机性能测试	锦湖产业	100PS at 4500rpm
40	1999	Exhaust analysis & durability & performance tester	Kumho industrial co.ltd	400PS at 7000rpm	40	1999	排气分析及耐久性测试	锦湖产业	400PS at 7000rpm
41	1999	Exhaust analysis & durability & performance tester	Kumho industrial co.ltd	400PS at 5000rpm	41	1999	排气分析, 耐久模式测试	锦湖产业	400PS at 5000rpm
42	1999	Engine performance & durability test	KIMM	400PS at 5000rpm	42	1999	发动机性能及耐久性测试	韩国机械研究院	400PS at 5000rpm
43	1999	Engine performance tester	SEEVISION	600PS at 4500rpm	43	1999	发动机性能研究	SEEVISION	600PS at 4500rpm
44	2001	T/M performance & durability test	S&T	2000PS at 3000rpm	44	2001	T/M 性能及耐久性测试	S&T重工业	2000PS at 3000rpm
45	2003	Engine performance tester	SYM	3500PS at 2000rpm	45	2003	发动机性能测试	SamYoung 机械	3500PS at 2000rpm
46	2003	K200A1 hydro pump tester	S&T	250PS at 3000rpm	46	2003	K200A1 静液压泵测试设备	S&T重工业 (株)	250PS at 3000rpm
47	2003	K200A1 valve tester	S&T		47	2003	K200A1 阀测试设备	S&T重工业 (株)	
48	2004	Engine performance tester	KOGAS	200PS at 5000rpm	48	2004	发动机性能测试	韩国燃气公司	200PS at 5000rpm
49	2004	Engine performance tester	KITCO	200PS at 5000rpm	49	2004	发动机性能测试	KITCO	200PS at 5000rpm
50	2005	Engine performance tester for production line	Doo San Infracore	2500PS at 3000rpm	50	2005	生产线发动机性能测试	斗山工程机械	2500PS at 3000rpm
51	2005	Engine performance & durability tester	Hanyang University	200PS at 5000rpm	51	2005	发动机性能及耐久性测试	汉阳大学	200PS at 5000rpm
52	2005	T/M performance & durability tester	S&T	1000PS at 3000rpm	52	2005	T/M 性能及耐久性测试	S&T重工业	1000PS at 3000rpm
53	2005	Engine durability & performance tester	Hanyang University	200PS at 10000rpm	53	2005	发动机耐久及性能测试	汉阳大学	200PS at 10000rpm
54	2006	Transmission gear box tester	Samsung techwin co.,ltd	50PS at 2000rpm	54	2006	驱动齿轮箱测试设备	三星商业设备 (株)	50PS at 2000rpm

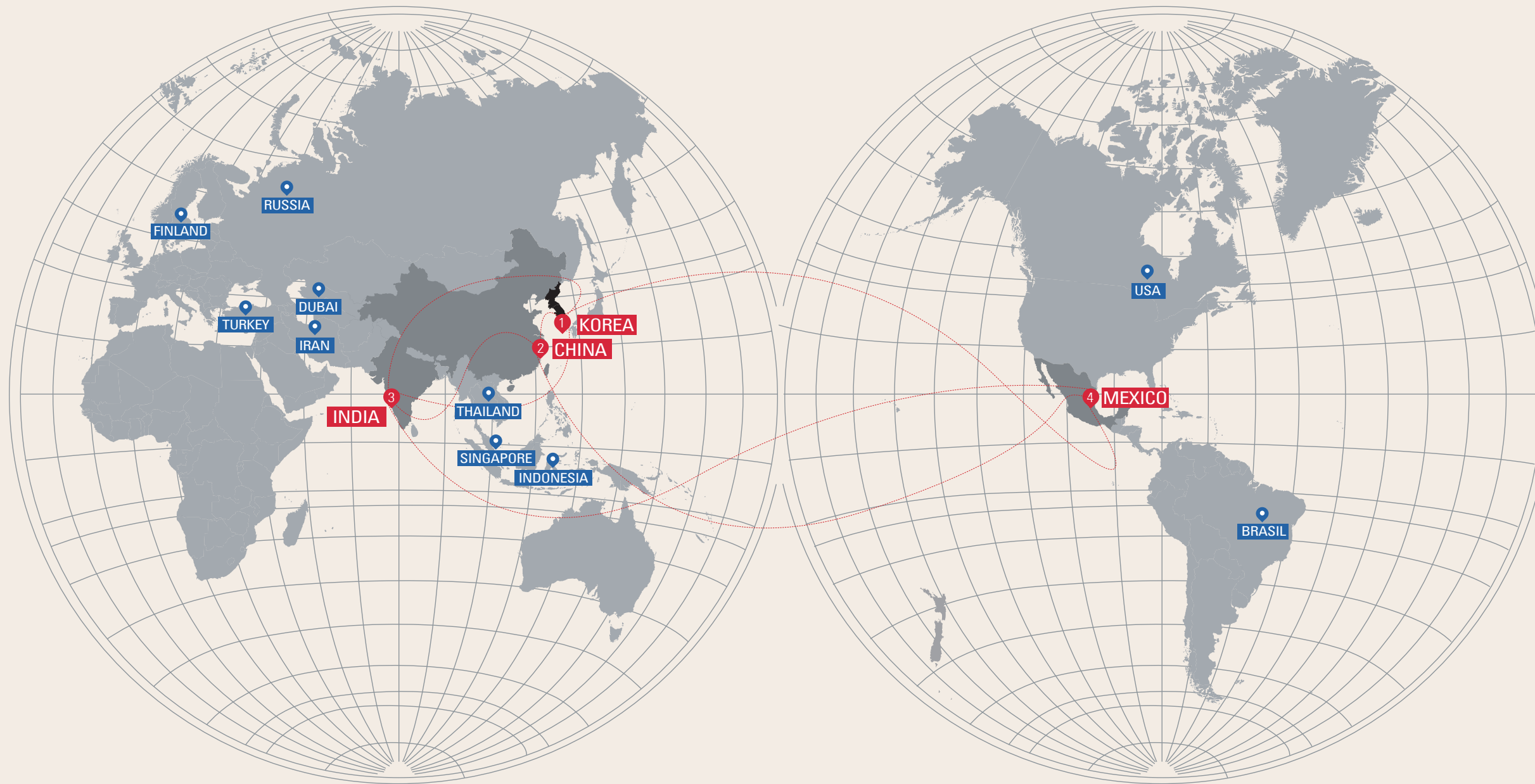
SPECIFICATION

SALES RECORD(TEST EQUIPMENT)
测试仪制作业绩

No	Year	Project Name	Customer	Dynamometer Cap'y	序号	制作年份	项目名称	供应处	测功机 Cap'y
55	2006	K9 transmission performance tester	S&T	2000PS at 3500rpm [2sets]	55	2006	K9变速器性能测试设备	S&T重工业(株)	2000PS at 3500rpm [2sets]
56	2006	Servo valve & Servo cylinder performance tester	Doo San Mottrol		56	2006	伺服阀及伺服气缸性能测试设备	斗山 Mottrol(株)	
57	2006	Clutch friction feature durability tester	PHC VALEO		57	2006	离合器摩擦特性及耐久性测试仪	PyeongHwa Valeo(株)	
58	2007	Auto Docking & EOL System (four CELL)	Doo San Infracore	600PS at 4500rpm	58	2007	自动对接及EOL 系统(4个CELL)	Doo San Infracore	600PS at 4500rpm
59	2007	Engine performance & durability tester (three CELL)	KIMM	300, 400,600PS at 10000rpm	59	2007	发动机性能及耐久性测试装置(3个 CELL)	韩国机械研究院	300, 400,600PS at 10000rpm
60	2007	Engine performance & durability tester	KGS	200PS at 10000rpm	60	2007	发动机性能及耐久性测试装置	韩国燃气安全公司	200PS at 10000rpm
61	2007	ATC HYDRAULIC performance tester	PHC VALEO		61	2007	ATC 液压性能测试仪	PyeongHwa Valeo(株)	
62	2007	FEL/PLATE VALIDATION N/C	PHC VALEO		62	2007	FEL/PLATE VALIDATION N/C	PyeongHwa Valeo(株)	
63	2007	E6D9 performance tester	KMU university		63	2007	E6D9性能测试仪	启明大学	
64	2008	Turbine Engine tester	Doo San heavy Industry	1MW at 15000rpm	64	2008	涡轮发动机测试装置程序	斗山重工业	1MW at 15000rpm
65	2008	Jet Engine tester(two CELL)	KOPO	T50, (J69)	65	2008	喷气发动机测试装置(2个 CELL)	航空技能大学	T50, (J69)
66	2008	Dynamometer Project	Doo San Infracore	2000PS at 4500rpm	66	2008	大型试运行线대형 시운전 라인 测功机工程	斗山工程机械	2000PS at 4500rpm
67	2008	Engine Cell EOL System	Doo San Infracore	450PS at 4000rpm	67	2008	重型发动机Cell EOL 系统	斗山工程机械	450PS at 4000rpm
68	2009	TIER_4 DL production line (EOL System)	Doo San Infracore	600PS at 4500rpm	68	2009	TIER_4 量产DL线 EOL 系统	斗山工程机械	600PS at 4500rpm
69	2009	Military tank Engine tester	Doo San Infracore	1000PS x 5000rpm	69	2009	步兵装甲车发动机试运行设备	斗山工程机械	1000PS x 5000rpm
70	2010	EURO5 EOL System for production	Doo San Infracore	1000PS x 5000rpm	70	2010	EURO5 量产EOL系统	斗山工程机械	1000PS x 5000rpm
71	2010	K9 mobile gun transmission tester	TMD(turkey)	2000PS x 3500rpm [2sets]	71	2010	K9 自行火炮变速器测试装置	土耳其陆军装备部	2000PS x 3500rpm [2sets]
72	2010	Engine auto-docking line(four CELL)	XDEC(china)	470Kw at 4500rpm	72	2010	发动机试运行自动对接线构筑(4个 CELL)	中国徐工斗山	470Kw at 4500rpm

No	Year	Project Name	Customer	Dynamometer Cap'y	序号	制作年份	项目名称	供应处	测功机 Cap'y
73	2011	Shipping Engine commissioning tester	Doo San Infracore	3500PS at 3500rpm	73	2011	船舶发动机试运行	斗山工程机械	3500PS at 3500rpm
74	2011	Servo valve & Servo cylinder performance tester	Sam Sung TechWin		74	2011	伺服阀及伺服气缸性能测试设备	三星商业设备(株)	
75	2011	Driving mechanism tester	Sam Sung TechWin	500PS at 3200rpm	75	2011	Z 事业驱动装置测试仪制作	三星商业设备(株)	500PS at 3200rpm
76	2011	2000HP Transmission performance tester	S&T	2000PS x 3500rpm [2sets]	76	2011	2000HP 变速器性能测试设备	S&T重工业(株)	2000PS x 3500rpm [2sets]
77	2011	HACAS DYNAMIC tester	PHC VALEO		77	2011	HACAS 动态测试设备	PyeongHwa Valeo(株)	
78	2012	Engine performance tester	Doo San Infracore	450PS at 4000rpm	78	2012	中小型生产线发动机性能测试设备	斗山工程机械	450PS at 4000rpm
79	2012	SYSTEM EOL tester	PHC VALEO		79	2012	SYSTEM EOL 测试设备	PyeongHwa Valeo(株)	
80	2013	DDC EOL tester for production line	PHC VALEO		80	2013	DDC EOL 生产线测试设备	PyeongHwa Valeo(株)	
81	2013	Dynamometer for shipping Engine Test Equipment	Doo San Infracore	3500PS at 3500rpm	81	2013	船舶生产线发动机性能测试设备	斗山工程机械(株)	3500PS at 3500rpm
82	2014	Dynamometer for heavy Engine Test Equipment	Doo San Infracore	2000PS at 3500rpm	82	2014	重型生产线发动机性能测试设备	斗山工程机械(株)	2000PS at 3500rpm

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