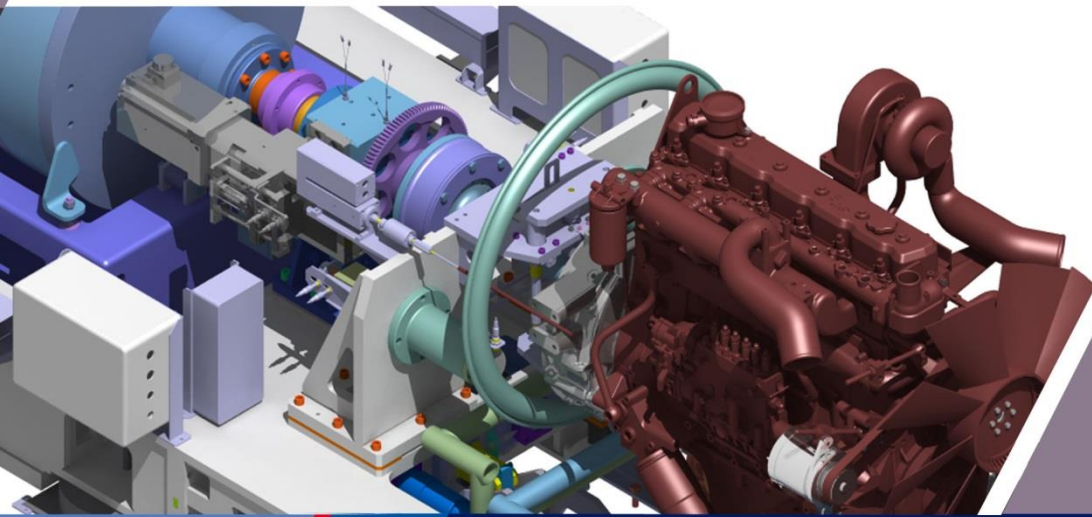
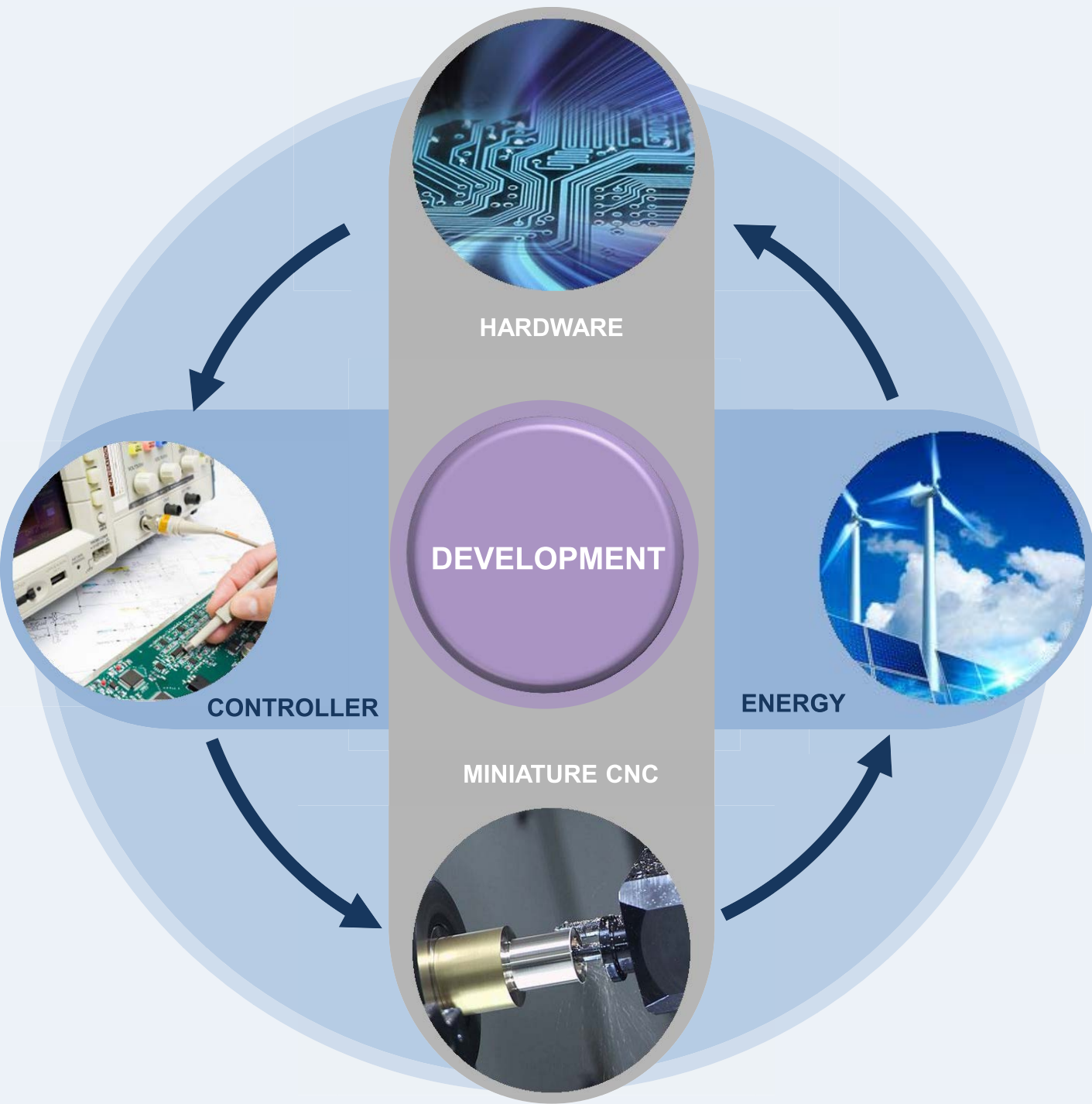




Test Equipment For Engine And Driving Machine

1. MAIN BUSINESS ITEM

Test Equipment For
Engine And Driving Machine



■ 2. TEST EQUIPMENT ITEM

Test Equipment For Engine And Driving Machine

ENGINE TEST EQUIPMENT

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

TESTER DIVISION

- Mobile Engine
- Airplane Engine
- Chassis Dynamometer Cell



TRAIN RAIL LOAD TEST EQUIPMENT

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

TESTER DIVISION

- KTX
- Train
- Subway Train



T/M TEST EQUIPMENT

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

TESTER DIVISION

- T/M Tester



FAMING MACHINE

TEST EQUIPMENT

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

TESTER DIVISION

- Tractor
- Combine
- etc



■ 2. TEST EQUIPMENT ITEM

Test Equipment For Engine And Driving Machine

ENGINE DYNAMOMETER

- AC Dynamometer
- EC Dynamometer
- Hydraulic Dynamometer
- etc

TESTER DIVISION

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

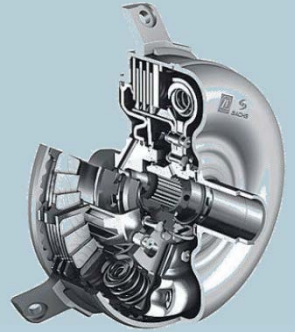


TESTER EQUIPMENT

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

TESTER DIVISION

- Mobile
- Train
- Subway Train



VALVE & THROTTLE CONTROLLER EQUIPMENT

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

TESTER DIVISION

- Pro' Valve
- Throttle Valve
- HST Actuator



SERVO CONTROL ACTUATOR

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

TESTER DIVISION

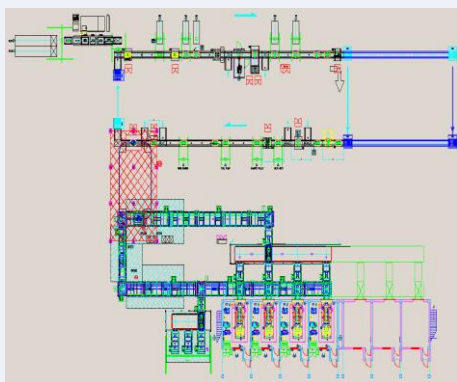
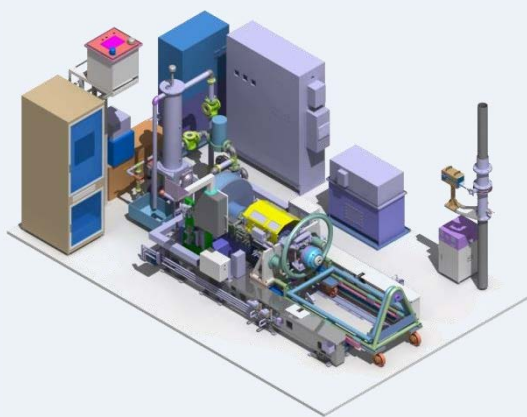
- CNC Control
- Auto M/C
- Mobile



3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.1 Engine Auto Docking System



E/G Assembly Line & Auto Docking System Lay out

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 - Etc



Flexible Drive Shaft



Engine Priming System



Auto Docking M/C

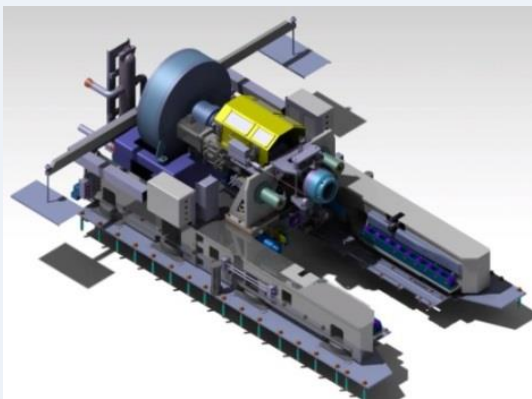
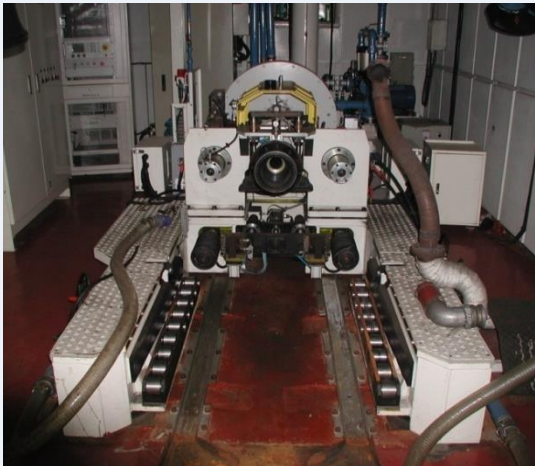


Auto Docking System Lay out

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.2 E/G Semi Auto Docking System

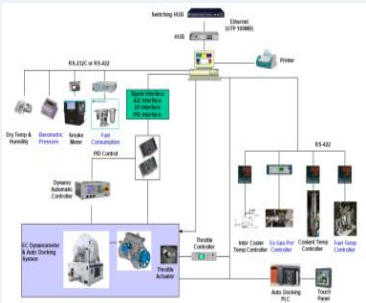


Semi Auto docking Lay out

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 • etc



ECU & M/C Type Engine Control Program



EOL System Diagram

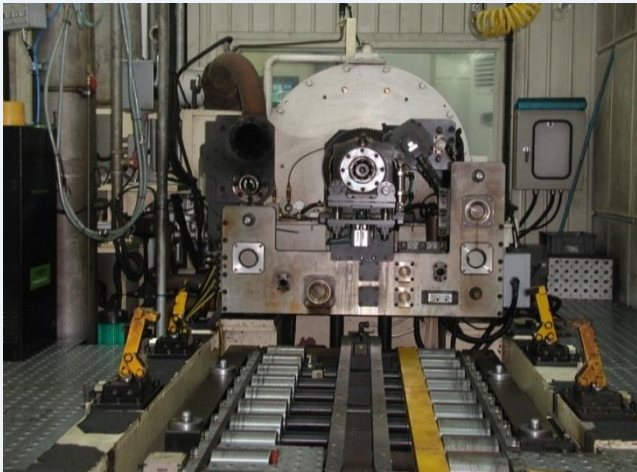


Priming System

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.3 Engine Auto Docking System



Engine Auto Docking System Lay out

Test Equipment Name	Auto Docking & EOL System
Test Method	Lapping Mode Test
Test Mode	Manual, Semi Auto, Auto
Engine Model	DL06, DL08, DV11
Dynamometer	FUCHINO ESF-600
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 • etc



Coolant
Temp
Controller



Fuel Temp
Controller



EX_Gas
Controller &
Actuator



Inter_Cooler
Temp
Controller



Fuel
flow
Detector

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.4 Engine Tester (EC Type)



Engine Tester
(EC Dynamometer)

Test Equipment Name	Engine Tester (EC Dynamometer)
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Control Mode	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



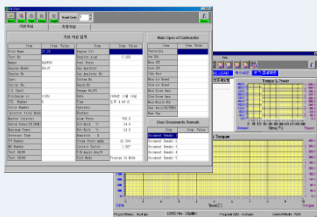
Engine Throttle
Controller



Fuel Flow
Detector



Smoke Opacity
Meter



Engine Control
Program

3. SPECIFICATION

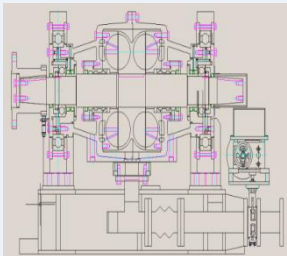
Test Equipment For
Engine And Driving Machine

3.5 Hydraulic Dynamometer



Hydraulic Dynamometer

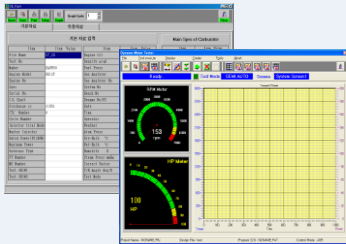
Test Equipment Name	Engine Tester (HYD' Dynamometer)
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Control Mode	ACR, ATR, ASR
Dynamometer	500PS ~ 5000PS, 10000~150000PS
Test Program	M/C Engine Control Program
Main Composition Equipment	- Coolant Water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



Hydraulic
Dynamometer DWG.



Dynamometer
Controller



Engine Test
Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.6 Airplane Engine Test System



Propeller Engine



Jet Engine

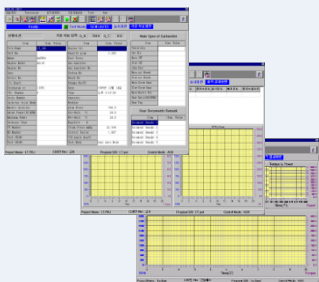
Test Equipment Name	Airplane Engine Tester
Test Method	Mode Test
Test Mode	Program Sequence Test Mode Full Load Test Mode Simulation Test Mode
Control Mode	ACR, ATR, ASR
Dynamometer	200PS ~ 500PS
Test Program	Engine & DYN' Control Program
Main Composition Equipment	• Pitch & Throttle Controller • Thrust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



Helicopter
Jet Engine



System Panel

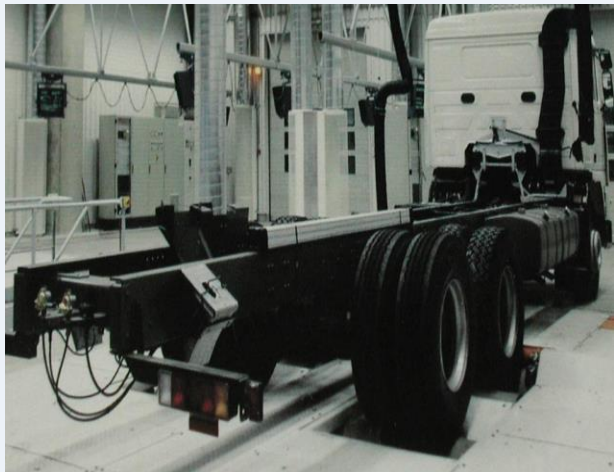


Engine Test
Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.7 Chassis Dynamometer Cell



Chassis Dynamometer
Cell

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
Control Mode	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



Chassis Dynamometer
Roller Assembly



Air Cooling Type
Dynamometer



Computer
System Panel



Chassis
Dynamometer
Test Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.8 Transmission Tester



K9 T/M Tester

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



Engine Assembly



Control System



Test Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.9 Driving Shaft Output Load Tester



Driving Shaft Output Load
Tester Lay_out



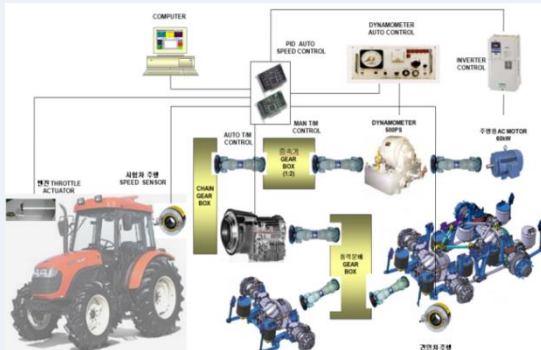
Driving Shaft Output Load
Tester Data Measuring
System

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

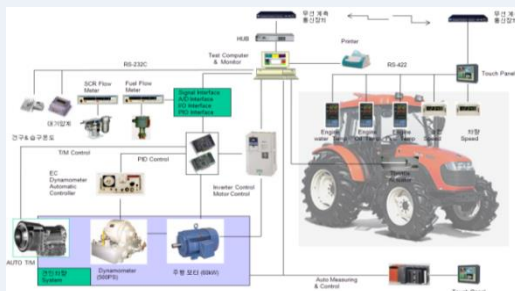
3. SPECIFICATION

Test Equipment For Engine And Driving Machine

3.10 Tractor Traction Force Tester



Tractor Traction Force Tester Load Control Diagram



Tractor Traction Force Tester System Diagram

Test Equipment Name	Traction Force Tester
Test Method	Traction Force Performance Test
Specification	<u>Power</u> - Max Traction Force : 300kW - Max Traction Load : 250KN - Max Driving Speed : 50km/h <u>Car Weight</u> Front Axle : Axle Permission Weight (10ton) Rear Axle : Axle Permission Weight (20ton) <u>Car Description</u> 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

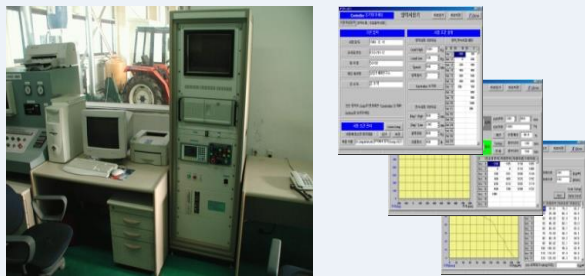
3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.11 Tractor Hydraulic Output Test & Lifting Tester



Hydraulic Output Test &
Lifting Tester



Data Measuring
System &
Test Program

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	<u>Lifting Test</u> 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 $\wedge$ 1Hz <u>Hydraulic Output Test</u> 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

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.12 PTO Performance Test Equipment



PTO Teat Equipment



Data Measuring System & Test
Program



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

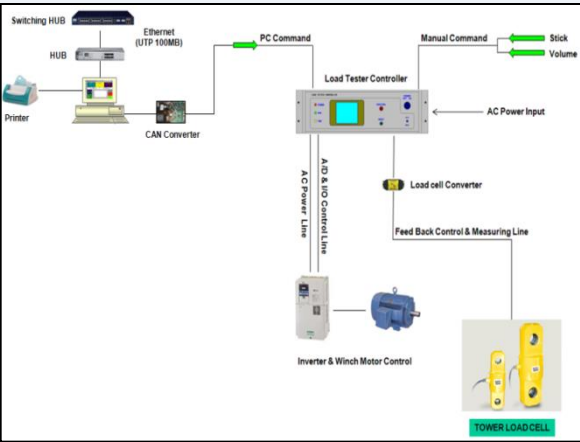
3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.14 Steel Tower Load Tester



Steel Tower Load Tester
Winch Control Tower



Steel Tower Load Tester
System Diagram

Test Equipment Name	Steel Tower Load Tester
Test Method	수평, 수직, 사각 연동 부하 방식
Test Mode	Manual, Semi Auto, Auto
Tower Model	46M ~ 76.5M
Winch CAPA	5Ton.f, 10Ton.f, 15Ton.f
Test Program	• Tower Stress Measuring • 철탑 휨 검사 기능 • 철탑 파괴 하중 검사 기능 • 모드별 검사 기능 • 조회관리 기능 • 데이터베이스 연동 기능 • 장비 자동제어 연동 기능
Main Composition Equipment	• Structure Support Tower • Geared & Winch • Load cell • Inverter Control System • Load Measuring System • Control Panel & • Computer System

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.15 Servo v/v, Servo Cylinder Tester



Servo Valve & Cylinder
TESTER (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)



Power Pack



Control System



Test Program

3. SPECIFICATION

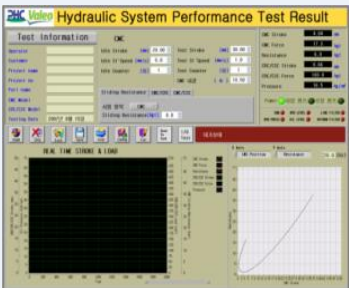
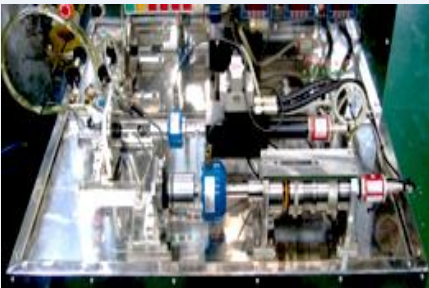
Test Equipment For
Engine And Driving Machine

3.16 Clutch Tester

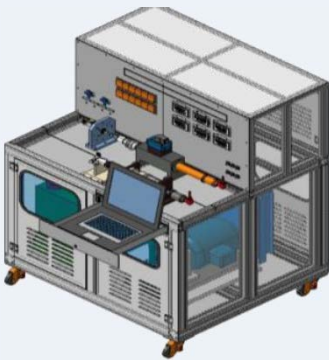


Clutch Tester

TEST ITEM	CMC, CRC, CSC Cylinder
TEST CONDITION	3 Item Test Mode for Cylinder
STROKE	50mm
PUSH RELEASE LOAD	Max 200kgf
MEASUREMENT SENSOR	Pressure, Linear, Load cell
ROOM SIZE	3M × 3M × 3M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC Valeo(2007)



Real Measuring Program



3. SPECIFICATION

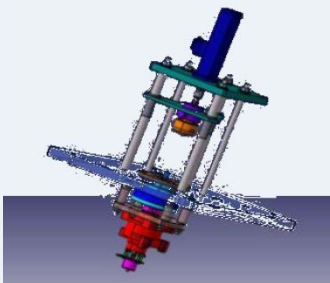
Test Equipment For
Engine And Driving Machine

3.17 Damper Hysteresis Evolution System



Damper Hysteresis Evolution System

TEST ITEM	Clutch Disk Ass'y (Ø160 ~ Ø327)
TEST CONDITION	4 Item Test Mode for Clutch
PUSHER LOAD	Max 1,000kgf
ROTATOR HYDROPLUS LOAD	Max 100kgf(±50°, 20Hz)
MEASUREMENT SENSOR	Torque, Angular Linear, Load cell
ROOM SIZE	5M × 3M × 3M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC Valeo(2007)

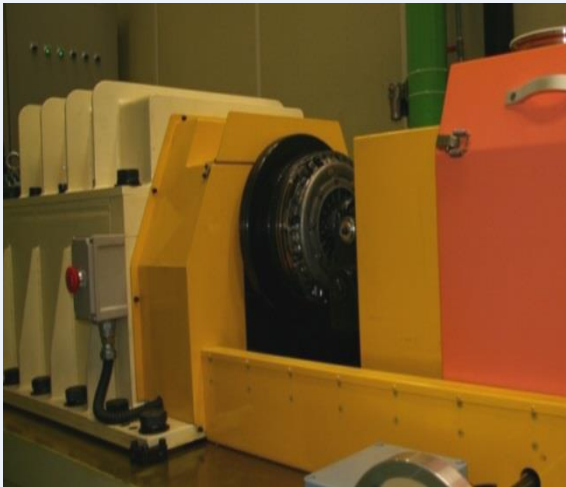


Real Measuring Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.18 Full size & Burst Tester

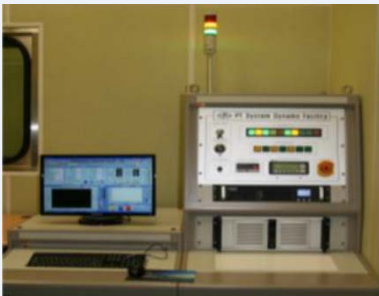


E6/D9 Tester

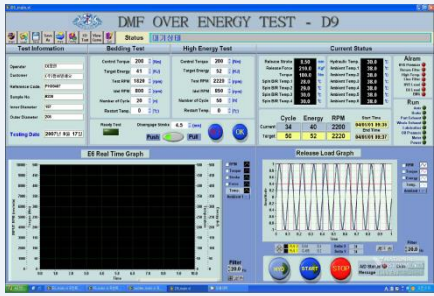
TEST ITEM	Clutch Disk Ass'y (Ø160 ~ Ø300)
TEST CONDITION	3 Item Test Mode for Clutch
INPUT POWER	Motor(400Kw@9,000rpm, 50kgf-m)
CLAMP LOAD	Min 100 ~ Max 600kgf
STROKE	Push : 200mm, Full : 20mm
MEASUREMENT SENSOR	Torque, Linear, Load cell
ROOM SIZE	10M × 4M × 5M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC Valeo(2008)



Test Bench



Control System



Test Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.19 Cover Dynamic Tester



R/Bearing Tester

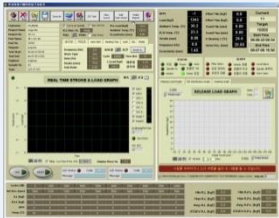
TEST ITEM	Clutch Disk Ass'y (Ø160 ~ Ø300)
TEST CONDITION	4 Item Test Mode for Clutch
INPUT POWER	Spindle Motor(15.2Kw@9,000rpm)
CLAMP LOAD	Min 100 ~ Max 600kgf
STROKE	Max 20mm
MEASUREMENT SENSOR	Linear, LVDT, Load cell, RPM
ROOM SIZE	5M × 3M × 3M
PROGRAM	LABVIEW8.0
CUSTOMER	PHC Valeo(2006, 2008, 2010)



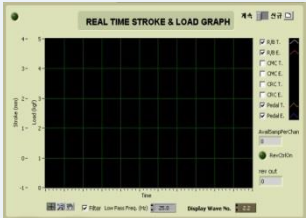
Spindle



Power Pack



Test Program

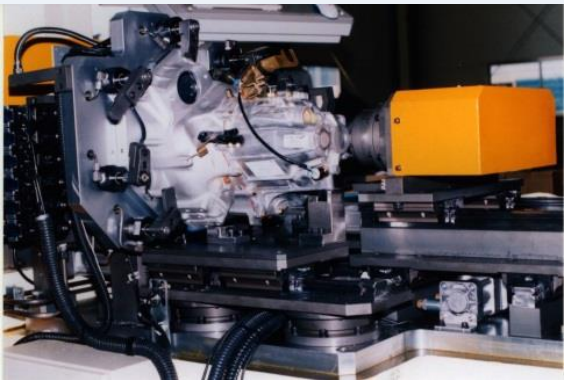
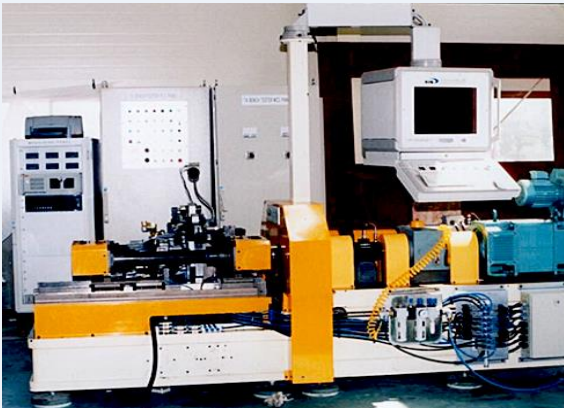


Real Measuring Program

3. SPECIFICATION

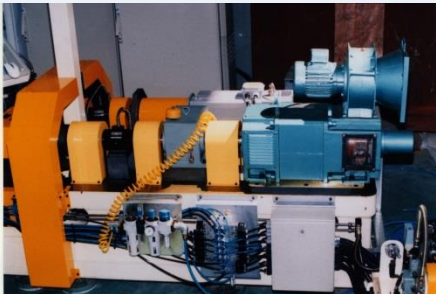
Test Equipment For
Engine And Driving Machine

3.20 Transmission Tester



Transmission Tester

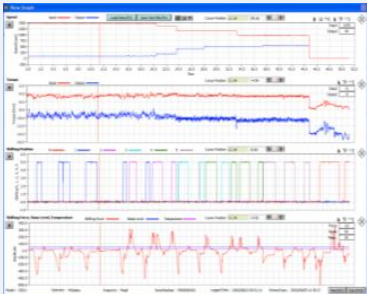
TEST ITEM	Transmission (Matiz, Cielo, Pride)
TEST CONDITION	7 Item Test Mode for Transmission
INPUT POWER	DC Motor (35Kw@3,900RPM,6.8kgf-m)
DYNAMOMETER	DC Motor Dynamometer (16.69kgf-m, 1,750RPM)
MEASUREMENT SENSOR	Torque meter, RPM, Temp
ROOM SIZE	5.5M × 55M × 3M
PROGRAM	Labview
CUSTOMER	ChunHae (2003)



DC Driving Motor



Test Program



Real Measuring Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.21 Hydro Valve, Pump Test er



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)



Valve Kit



G1 governer



Program



Real Measuring Program

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.22 Gear Box Test Equipment



GEAR BOX & MOTOR TESTER (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)



Dynamometer



Voltage



Test Program



Real Measuring Program

3. SPECIFICATION

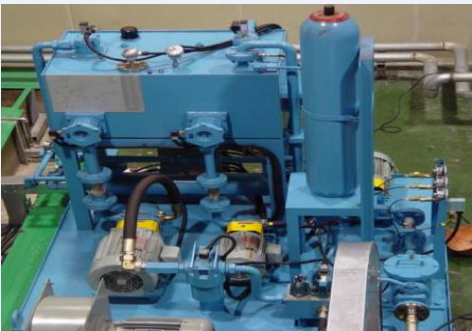
Test Equipment For
Engine And Driving Machine

3.23 Hydro-Steering Test Equipment

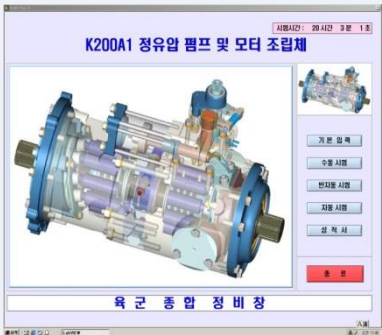


HSU Tester (K200)

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)



Power Pack



Test Program



Real Measuring Program

3. SPECIFICATION

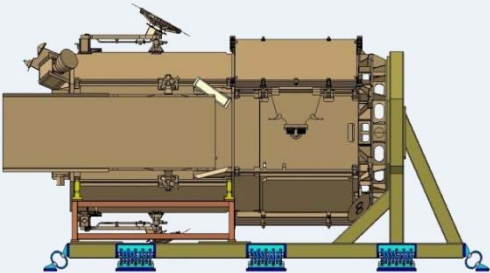
Test Equipment For
Engine And Driving Machine

3. 24 Aero Space

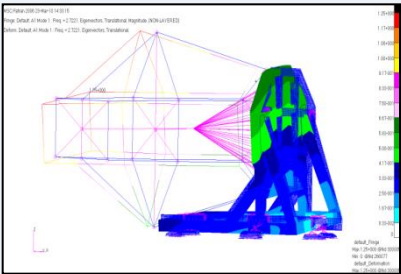


MGSE – SHIPPING CONTAINER (S/C)

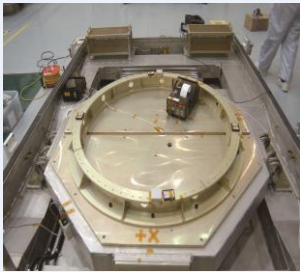
ITEM	KOMPSAT – 2,3, 3A, 5
PURPOSE	Transport for S/C
TEST	Drop, Static, Dynamic, Thermal
CONTROL	Vibration, Temp', Humidity, Pressure
HUMIDITY	20 ~ 60 % (Depending on Outside)
TEMPERATURE	8 ° C ~ 35 ° C
DIMENSION	W3000 X L67000 X H3300
MATERIAL	ATOS60



Fixture Jig



Dynamic Analysis



Adapter

3. SPECIFICATION

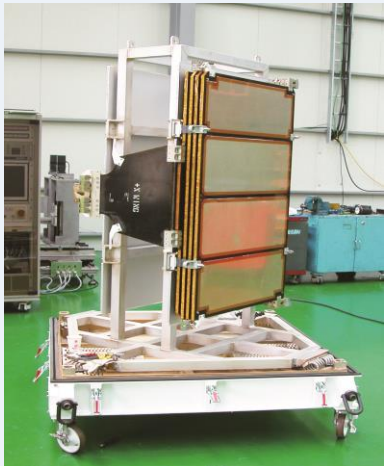
Test Equipment For
Engine And Driving Machine

3. 24 Aero Space



MGSE – SHIPPING CONTAINER (S/A)

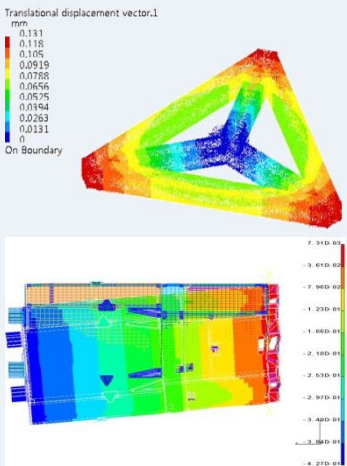
ITEM	KOMPSAT – 2,3, 3A, 5
PURPOSE	Transport for S/C
TEST	Drop, Static, Dynamic, Thermal
CONTROL	Vibration, Temp', Humidity, Pressure
HUMIDITY	20 ~ 60 % (Depending on Outside)
TEMPERATURE	8 ° C ~ 35 ° C
DIMENSION	W3000 X L67000 X H3300
MATERIAL	ATOS60



Solar cell Container



Artificial Satellite Container



Analysis

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3. 24 Aero Space



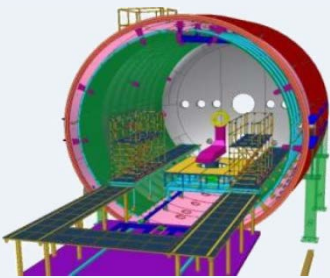
ITEM	KOMPSAT – 2,3,3A, 5
TYPE	Vertical, Horizontal Assembly & Test Fixture for Aero Space
MAIN SPEC'	L-Fixture (STS304, MLI)
PURPOSE	Fixture for Thermal & Vacuum Test



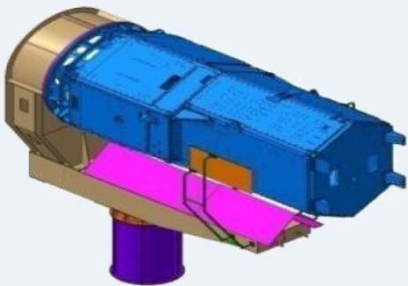
MPT (Multi purpose Trolley)



Lifting Device



Vacuum Chamber



Artificial Satellite Fixture

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.25 시험기 제작 실적

순서	제작 년도	공사명	사용처	Dynamometer Cap'y	비고
1	1976	엔진 성능 시험용	STX	2000PS at 3500rpm	
2	1977	생산라인 엔진성능 시험	두산인프라코어	2500PS at 3000rpm	
3	1978	생산라인 엔진성능 시험	두산인프라코어	2000PS at 3500rpm	
4	1980	엔진 성능, 내구 시험	아세아종합기계	30PS at 5000rpm	
5	1980	엔진 성능 시험	창원기화기	100PS at 5000rpm	
6	1980	엔진 성능 시험용	STX	6000PS at 1000rpm	
7	1982	엔진 성능 시험용	STX	3500PS at 2000rpm	
8	1982	생산라인 엔진성능 시험	두산인프라코어	1500PS at 4000rpm	
9	1982	생산라인 엔진성능 시험	두산인프라코어	1800PS at 4000rpm	
10	1985	엔진 성능, 내구시험(육군정비창)	국방부	100PS at 5000rpm	
11	1985	엔진 성능 시험(육군정비창)	국방부	30PS at 3500rpm	
12	1986	Tractor 성능시험	농자재검사소	200PS at 6000rpm	
13	1986	엔진성능 내구시험	농자재검사소	30PS at 6000rpm	
14	1990	엔진 성능, 내구 시험용	삼성기기	150PS at 5000rpm	
15	1991	엔진 성능 시험용	생산기술연구소	100PS at 5000rpm	
16	1992	엔진 성능 시험(육군정비창)	국방부	150PS at 3000rpm	
17	1992	엔진 성능 시험	군수산대학교	1PS at 5000rpm	
18	1992	Tractor PTO성능/엔진성능, 내구시험	동양물산	400PS at 5000rpm	

3.25 시험기 제작 실적

순서	제작 년도	공사명	사용처	Dynamometer Cap'y	비고
19	1992	엔진 성능, 내구 시험	창원기화기	200PS at 5000rpm	
20	1992	생산라인 엔진성능 시험	두산인프라코어	2500PS at 3000rpm	
21	1992	엔진성능, 내구시험	JK Engineering	600PS at 4500rpm	
22	1994	엔진 성능 시험	건국대학교	1000PS at 3000rpm	
23	1994	엔진 성능 시험용	STX	3500PS at 2000rpm	
24	1994	엔진 성능 시험	헤인	3500PS at 2000rpm	
25	1995	생산라인 엔진성능 시험	두산인프라코어	2000PS at 3500rpm	
26	1995	생산라인 엔진성능 시험	두산인프라코어	3000PS at 2500rpm	
27	1995	Tractor PTO성능	아세아종합기계	200PS at 5000rpm	
28	1995	엔진 성능, 내구 및 윤활유 성능 평가	SK연구소	200PS at 5000rpm	
29	1996	엔진 성능, 내구 시험	전남대학교	600PS at 4500rpm	
30	1996	엔진 성능, 내구 시험	창원기화기	400PS at 5000rpm	
31	1996	엔진 성능, 내구 시험	한국기계연구원	600PS at 4500rpm	
32	1996	엔진 내구,성능 시험	전남대	600PS at 4000rpm	
33	1997	엔진 성능, 내구 시험	한국기계연구원	300PS at 5000rpm	
34	1987	Tractor PTO	농기계화연구소	200PS at 5000rpm	
35	1987	성능평가시험	농기계화연구소	30PS at 7000rpm	
36	1998	Tractor 차축성능, 내구특성평가	농기계화연구소	300PS at 2000rpm	

3. SPECIFICATION

Test Equipment For
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3.25 시험기 제작 실적

순서	제작 년도	공사명	사용처	Dynamometer Cap'y	비고
37	1998	Tractor 견인력 특성시험	농기계화연구소	100PS at 3000rpm	
38	1998	모터 성능시험	금호산업	10PS at 7000rpm	
39	1998	모터 성능시험	금호산업	100PS at 4500rpm	
40	1999	배기가스 분석 및 내구,성능 시험	금호산업	400PS at 7000rpm	
41	1999	배기가스분석, 내구모드시험	금호산업	400PS at 5000rpm	
42	1999	엔진 성능, 내구 시험	한국기계연구원	400PS at 5000rpm	
43	1999	엔진 성능, 연구용	SEEVISION	600PS at 4500rpm	
44	2001	T/M 성능, 내구 시험	S&T중공업	2000PS at 3000rpm	
45	2003	엔진 성능, 시험용	삼영기계	3500PS at 2000rpm	
46	2003	K200A1 정유압 펌프 시험장비	S&T중공업(주)	250PS at 3000rpm	
47	2003	K200A1 밸브 시험장비	S&T중공업(주)		
48	2004	엔진성능 시험	한국가스공사	200PS at 5000rpm	
49	2004	엔진성능 시험	KITCO	200PS at 5000rpm	
50	2005	생산라인 엔진성능 시험	두산인프라코어	2500PS at 3000rpm	
51	2005	엔진 성능, 내구 시험	한양대학교	200PS at 5000rpm	
52	2005	T/M 성능, 내구 시험	S&T중공업	1000PS at 3000rpm	
53	2005	엔진 내구,성능 시험	한양대	200PS at 10000rpm	
54	2006	구동기어상자 시험장비	삼성테크윈(주)	50PS at 2000rpm	

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Test Equipment For
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3.25 시험기 제작 실적

순서	제작 년도	공사명	사용처	Dynamometer Cap'y	비고
55	2006	K9변속기 성능 시험장비	S&T중공업(주)	2000PS at 3500rpm [2sets]	
56	2006	서보 밸브 및 서보 실린더 성능 시험장비	두산모트롤(주)		
57	2006	클러치 마찰 특성 내구시험기	평화발레오(주)		
58	2007	Auto Docking 및 EOL System (4개 CELL)	두산인프라코어	600PS at 4500rpm	
59	2007	엔진성능/내구 시험장치 (3개 CELL)	한국기계연구원	300, 400,600PS at 10000rpm	
60	2007	엔진성능/내구 시험장치	한국가스안전공사	200PS at 10000rpm	
61	2007	ATC HYDRAULIC 성능 시험기	평화발레오(주)		
62	2007	FEL/PLATE VALIDATION N/C	평화발레오(주)		
63	2007	E6D9 성능 시험기	계명대학교		
64	2008	터빈엔진 시험장치 프로그램	두산중공업	1MW at 15000rpm	
65	2008	Jet_Engine 시험장치(2개 CELL)	항공기능대학	T50, (J69)	
66	2008	대형 시운전 라인 Dynamometer 공사	두산인프라코어	2000PS at 4500rpm	
67	2008	중형엔진 Cell EOL System	두산인프라코어	450PS at 4000rpm	
68	2009	TIER_4 양산 DL라인 EOL System	두산인프라코어	600PS at 4500rpm	
69	2009	차기보병전차 엔진 시운전 설비	두산인프라코어	1000PS x 5000rpm	
70	2010	EURO5 양산 EOL System	두산인프라코어	1000PS x 5000rpm	
71	2010	K9 자주포 변속기 시험장치	[터키]육군 정비창	2000PS x 3500rpm [2sets]	
72	2010	엔진 시운전 오토도킹 시운전 라인구축 (4개 CELL)	[중국]서공두산	470Kw at 4500rpm	

3. SPECIFICATION

Test Equipment For
Engine And Driving Machine

3.25 시험기 제작 실적

순서	제작 년도	공사명	사용처	Dynamometer Cap'y	비고
73	2011	선박엔진 시운전	두산인프라코어	3500PS at 3500rpm	
74	2011	서보 밸브 및 서보 실린더 성능 시험장비	삼성테크윈(주)		
75	2011	Z 사업 구동장치 시험기 제작	삼성테크윈(주)	500PS at 3200rpm	
76	2011	2000HP 변속기 성능 시험장비	S&T중공업(주)	2000PS x 3500rpm [2sets]	
77	2011	HACAS DYNAMIC 시험장비	평화발레오(주)		
78	2012	중소형라인 엔진 성능 시험장비	두산인프라코어(주)	450PS at 4000rpm	
79	2012	SYSTEM EOL 시험장비	평화발레오(주)		
80	2013	DDC EOL 생산라인용 시험장비	평화발레오(주)		



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