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Machinery and Automobile Education






G-060102

Structure Educational System Hybrid Car

FEATURES

- Gasoline 1,500cc 50HP electric 40HP Hybrid PRIUS by Toyota Motor Co.
- It is educational system of automotive structure for display by precisely cross-sectioning body and chassis.
- It is effective for understanding and explaining functions of hydbrid system's engijne, transmission, electric motor, power cable, battery, charging system, inverter, converter, etc.
- Design and operating principles of vehicle can be explained systematically.
- It is educational equipment of power train system including engine, transmission, differential gear, drive shaft, and tire by cross-sectioning components.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head of 4-stroke 4-cylinder engine.
- Block, head, starting motor, alternator, air-conditioning compressor, fuel, cooling system, lubricating system, manifolder, muffler, and actual body are cross-sectioned, and operated for better educational quality.
- Internal structure of clutch, transmission, differential gear, brake system, etc. can be seen by directly operating pedal and lever, and also, detailed power system education can be done.
- Structure and operating principle of auxiliary device, steering, suspension systems, and actual body frame can be demonstrated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- 4 jack stands for safe and effective education and motor speed control type structure.
- Control box, single phase 220V 180W of motor, 0~15 rpm, two lamps, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Product size ≒ (L)445×(W)173×(H)149㎝, Wt≒1,330kg

G-080501

Hybrid System Structure Educational Equipment

FEATURES

- It is exhibit educational training model for understanding engine motor of hybrid system by cross-sectioning components
- It is hybrid system for gasoline 50HP and electricity 40HP of 1500㏄ vehicle of PRIUS by Toyota Co.
- It can be systematically educated for operating principle of hybrid system such as engine, transmission, electric motor, etc, and it is effectively manufactured for understanding.
- It is equipped in control box for manufacturing by special module to educate operating each parts of hybrid system such as low/high speed, acceleration, deceleration, brake and charging.
- It is operating system of each engine and motor part for changing process on hybrid system of 6 types of driving condition, and it has high effect on education using LED system to color circuit panel.
- It is operating educational system to be shown operating structure of power system by cross-sectioning of engine, motor, transmission, differential gear, drive shaft.
- The model is printed by our company's detailed specification for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- Module for system, control box, single-phase 220V, 2 of 180W motor, RPM: 0~5, additional safety devices, aluminum name plate.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Product size ≒ (L)154×(W)94×(H)165㎝, Wt≒350kg

G-260202

Electronic Control Suspension System Educational Training Equipment

FEATURES

- It is an educational equipment for integrated training of 20 different type functions of active ECS system installed to a high class passenger car.
- Components: ECU, instrument panel, color location indicator, ECS mode switch, damping force actuator, steering wheel, steering angle sensor, brake switch, idle switch, accelerator, reverse button, light button, door button, self-diagnosis jack, power terminal, voltmeter and ammeter, variable controllers, air cylinder, control lever, etc.
- When car body's position changes or temporary value is set to rear pressure-G sensor-VSS speed, ECU reads the change and it automatically shows automotive height sensor value and position control change process.
- By installation of DM diagnosis error control unit to ECU circuit, it controls input and output condition.
- By using self-diagnostic system to DLC, data values of ECS operation can be measured and with actuator's compulsory operation, individual solenoid valve can be tested.
- Control panel has excellent durability with installation of ECS control switches, 4 variable control valves, actuator, diagnostic terminal, etc. to an aluminum CNC engraved coated plate.
- Color circuit diagram panel is designed for effective education and has excellent durability with aluminum plate engraved with CNC.
- ECS air pressure is a built-in compressor and an air tank control type. And position control is a input operational type of commercial air pressure.
- Built-in high-efficient constant voltage transmission designed and manufactured for AC 220V ECU electronic control.
- The model is deigned and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 6-wheel frame panel stand
- Product size ≒ (L)250×(W)140×(H)157㎝, Wt≒800kg

G-110302

Hybrid Car System Simulator Educational Training Equipment

FEATURES

- Engine specifications: Gasoline 50Hp, 1,500cc, electricity 40Hp, hybrid Prius by Toyota Motor Co.
- Engine starts only with electric motor and when it accelerates, motor converts into generator and become charged. Then depending on driving condition, it converts into engine, motor, and generator which efficiently saves fuel.
- A consecutive operating system that is equipped with components such as engine electronic fuel, cooling system, intake and exhaust system, CVT.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC
- Hydraulic circuits of CVT transmission to instruct operation of hydraulic circuits according to each range.
- It is a high quality educational equipment mounted on a stand with operation of starting, driving, charging, etc.
- Principal components: gasoline engine, electric motor, power cable, battery, charging device, inverter, converter, A/C compressor, electric circuit system, etc.
- By installing check point to the principal operating sensor, and it makes easier for diagnosis and test.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- An user's manual, and a cover
- Product size ≒ (L)202×(W)180×(H)137㎝, Wt≒600kg

G-210501

Hybrid Transmission System Structure Exhibit Educational Equipment

FEATURES

- It is an educational equipment for display of electronic-controlled transmission of hybrid vehicle. (Prius by Toyota Motor Co.)
- It is for internal and external structure display of hybrid transmission's motor, generator, gear, trans axle, etc.
- It is very effective for functional explanation and operating principle new hybrid system.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, lubricating system: yellow, etc.
- Top quality paint and coating are adapted such as diamond, etc.
- It is manufactured for excellent durability and high display effect.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Display lamp, reinforced glass cover, 4-wheel stand with advanced design.
- Product size ≒ (L)90×(W)70×(H)160㎝, Wt≒150kg

G-240303

ABS System Educational Training Equipment

FEATURES

- It is a high standard educational training equipment for understanding operating principle and function through experiment, fault diagnosis and tester with simulating system of 4-sensor 4-channel anti-lock brake system and traction control system installed to a medium-size passenger car.
- Components: ABS system's 4 wheel hydraulic actuator assembly, control module, wheel speed sensor, master cylinder, vacuum brake booster, etc.
- RPM can be controlled with a inverter and each tire is composed of tire grip force, rotation inertia, and hydraulic control system.
- The input and output condition can be controlled by installing diagnosis error control unit to ECU circuit.
- By installation of diagnosis terminal for each circuit, input&output data can be measured and trained with multimeter, oscilloscope, diagnostic system, etc.
- By using self-generator installed to DLC, all data can be seen and with compulsory operation of actuator, each solenoid valve can be tested and educated.
- ABS education is systematic and effective with installation of 4 wheel digital rpm gauge, brake pressure gauge, master cylinder 1.2 pressure gauge, etc. to AL color circuit diagram panel.
- Control panel has excellent durability with installation of ABS control switches, control valve, actuator, diagnostic terminal power, connector, key switch, safety switch, etc and aluminum plate engraved with CNC.
- AC 380V, 1HP 5 motors, 15HP inverter (0~60Hz), alternator operated by motor, 12V battery automatic charging, and vacuum system are installed inside.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated, stainless steel molding, 2 drawer door cabinet, 4-wheel frame stand.
- Product size ≒ (L)160×(W)136×(H)150㎝, Wt≒460kg

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Homepage : www.dsg3.com

G-070201

F/R Automotive Power Train System Structure Educational Equipment

FEATURES

- Engine specifications: Gasoline, 2,000cc, 4-cylinder, SOHC, electric-controlled engine. rear drive by GM Daewoo Motor Co.
- It is a very effective educational equipment for understanding operating principle and function of power train system including engine, transmission, propeller shaft, differential gear, rear axle, shaft, brake, and tire by cross-sectioning components.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head of 4-stroke 4-cylinder engine.
- Internal structure of clutch, 5 speed manual transmission, differential gear, brake system, etc. can be seen by directly operating pedal and lever, and also, gear ratio of manual transmission and detailed power system education can be done.
- Block, head, starting motor, alternator, fuel system, cooling system, lubricating system, manifold, muffler, and actual body are cross-sectioned, and operated for better educational quality.
- Structure and operating principle of steering, suspension systems, and actual body frame can be demonstrated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond and parts are coated for durability.
- Single phase 220V, 180W motor, 4.5~5.5 rpm, two lamps, control box, additional safety device.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust 6 wheels stand and powder coated.
- Product size ≒ (L)314×(W)157×(H)138㎝, Wt≒450kg

G-090106

V6 Engine Structure Exhibit Educational Equipment

FEATURES

- Gasoline 3,000cc V 6-cylinder, electronic-controlled engine for exhibit and education.
- It is a very effective exhibit equipment for understanding operating principle and function of V-type high quality engine by cross-sectioning components.
- It is an educational structure that is operated by motor with block, cylinder, and head of V-type engine cross-sectioned.
- Starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifold, etc. are cross-sectioned, and operated for better educational quality
- It has high exhibit effect with engine stand and device that rotates crank and shaft by motor rotating simultaneously.
- Lower part of engine can be reflected and seen through mirror stand.
- Exterior is painted by diamond, nickel, and chrome, and parts are coated for durability
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Single phase 220V 180W 4-pole motor, 0~5.5 rpm, stand, 4-pole 250W motor, 5~7 rpm halogen lamp, control box, control module, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4 wheel circular stand, powder coated
- Product size ≒ (ϕ)100×(H)138㎝, Wt≒363kg

G-090311

SOHC Engine Structure Educational Equipment

FEATURES

- Gasoline 1,500~1,800cc 4-cylinder electric-control SOHC engine
- SOHC engine is general rocker arm, indirect operating type and it is operated with one camshaft with entire engine body cross-sectioned and mounted on educational stand.
- It is an educational structure that is operated by motor with block, cylinder, and head of SOHC engine cross-sectioned.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank, and shaft can be controlled and it can be systematically educated.
- It is very effective for education of power generating principle with LED indicating module for each stroke of intake, compression, expansion and exhaust.
- Starting motor, electric generator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifold, etc. are cross-sectioned, and operated for better educational quality.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- Single phase 220V 180W 4-pole motor, 4.5~5.5 rpm, lamp, control box, additional safety device, control module
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4 wheel stand, powder-coated
- Product size ≒ (L)94×(W)65×(H)133㎝, Wt≒220kg

G-080201

F/F Engine, Transmission Structure Educational Equipment

FEATURES

- Gasoline 1,800~2,000cc 4-cylinder, DOHC, electronic-controlled engine, front drive vehicle by Hyundai Motor Co.
- It is educational equipment for understanding internal structure and operating principle of engine, clutch, transaxle, etc. by cross-sectioning components.
- It is an educational structure that is operated by motor with block, cylinder, and head of engine cross-sectioned.
- Starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifold, etc. are cross-sectioned, and operated for better educational quality.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank, and shaft can be controlled and it can be systematically educated.
- It is very effective for education of power generating principle with LED indicating module for each stroke of intake, compression, expansion and exhaust.
- Internal structure of clutch, 5 speed manual transmission can be seen and it can be educated systematically by directly operating it with pedal and lever.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block : light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond and parts are coated for durability, and controlling-type structure of motor speed.
- Single phase 220V 180W 4-pole motor, 0~5.5 rpm, lamp, control box, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust frame, made of steel and painted, can be easily moved and stopped by 4 wheels.
- Product size ≒ (L)110×(W)94×(H)115㎝, Wt≒220kg

G-090702

Diesel Engine Structure Educational Equipment

FEATURES

- 2,500cc 4-cylinder Diesel engine, Porter by Hyundai Motor Co.
- It is a very effective equipment for understanding operating principle and function of general Diesel engine
- It is an educational structure that is operated by motor with block, cylinder, and head of engine cross-sectioned.
- Rotary injection pump, alternator, starting motor, air con compressor, fuel, cooling, lubricating, intake and exhaust system, manifold, etc. are cross-sectioned for better operation.
- This equipment can be educated systematically by controlling operating speed of internal components such as valve, piston, intake and exhaust system, crank, shaft, etc.
- It is very effective for education of power generating principle with LED indicating module for each stroke of intake, compression, expansion and exhaust.
- Exterior is painted by diamond, and parts are coated for durability
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block : light black, cylinder head: silver, gasket: white.
- Single phase 220V, 4P, 180W of motor power, 0~5.5 rpm, control box, lamp, safety device, controlling type structure of motor speed.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4-wheel stand, powder-coated
- Product size ≒ (L)94×(W)65×(H)150㎝, Wt≒150kg

G-210601

Automatic Transmission Structure Educational Equipment

FEATURES

- It is an educational equipment for understanding internal structure of 2,000cc FF type passenger car's 4 speed automatic transmission.
- Precisely cross-sectioned structure of torque converters, clutch, planetary gear, band, servo, etc.
- It is effective for functional explanation and operating principle during automatic transmission education.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, lubricating system: yellow, etc.
- Top quality paint and coating are adapted such as diamond, etc.
- It is manufactured for excellent durability and high display effect.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated 4-wheel stand.
- Product size ≒ (L)60×(W)50×(H)100㎝, Wt≒100kg

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Homepage : www.dsg3.com

G-110304 Gasoline ENG, A/T Wheel Control System Educational Training Equipment

FEATURES

- Training engine stand with 2,000cc class gasoline engine + A/T + A/T hydraulics + brake system(EF Sonata Engine)
- It is high standard educational system of gasoline 2,000cc engine with 4speed automatic transmission.
- A consecutive operating system that is equipped with components such as engine electronic fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing Diagnosis
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P, R, N, D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, accelerate pedal, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-door cabinet stainless molding, 4-wheel stand
- An user's manual and a cover
- Product size ≒ (L)183×(W)163×(H)123㎝, Wt≒570kg

G-110601 Gasoline ENG, A/T Control System Educational Training Equipment

FEATURES

- It is high standard educational system of gasoline 2,000cc 4-cylinder VVT engine 4 speed automatic transmission. (NF Sonata)
- A consecutive operating system that is equipped with components such as engine electronic fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing diagnosis error control module to ECU circuit.
- By installation of check terminal to ECU circuit, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P, R, N, D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, dual accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding, 4-wheel stand
- Product size ≒ (L)150×(W)136×(H)125㎝, Wt≒470kg

G-130201 Diesel Engine Educational Training Equipment

FEATURES

- It is an educational training equipment of 2,500cc 4 cylinder Porter Diesel engine.Hyundai
- A consecutive operating system that is equipped with components such as engine electrical system, fuel, cooling system, intake and exhaust system, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as exhaust gas, intake pipe, cylinder pressure, radiator, timing, fan belt, fuel, oil, charging, moving circuit, etc.
- By installing check terminal for each it is convenient to use tester and also, it protects the circuit.
- Instruments, oil pressure gauge, voltmeter, power source jack, key, dual accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-door cabinet stainless molding, 4-wheel stand
- Product size ≒ (L)150×(W)136×(H)120㎝, Wt≒400kg

G-120301 CRDI Diesel ENG, A/T Control System Educational Training Equipment

FEATURES

- It is high standard educational system of gasoline 2,000cc 4-cylinder VGT engine 4 speed automatic transmission. (SANTAFE, TRAJET, TUCSON, etc RV car)
- A consecutive operating system that is equipped with components such as engine electrical system, fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing button diagnosis error control module to ECU circuit.
- By installation of check terminal to ECU circuit, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P, R, N, D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding, 4-wheel stand
- Product size ≒ (L)150×(W)136×(H)122㎝, Wt≒565kg

G-140201 LPI ENG, A/T Control System Educational Training Equipment

FEATURES

- It is high standard educational system of LPI 2,000cc 4cylinder engine, 4 speed automatic transmission. (LPI: Liquid Petroleum Injection) NF Sonata.
- A consecutive operating system that is equipped with components such as engine electrical system, fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing diagnosis error control module to ECU circuit.
- By installation of check terminal to ECU circuit, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, starting circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P,R,N,D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, dual accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- Manufacturing vehicle's LPG tank as a separate type stand facilitates charging and maintenance.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding, 4-wheel stand
- Product size ≒ (L)150×(W)136×(H)137㎝, Wt≒500kg
- LPG tank stand size ≒ (L)112×(W)40×(H)65㎝, Wt≒80kg

G-210201 Automatic Transmission Educational System Training Equipment

FEATURES

- It is an educational training equipment of 2 new-type HIVEC 5 speed automatic transmissions that is manufactured as same as actual vehicle and cross-sectioned internal structure.
- The shift lever positions are P, R, N, and D(+,-). conditions, timing and pattern for shift can be compared, analyzed, and tested by inverter and controller.
- Hydraulic condition can be seen visually during automatic speed change and lever control. And also, real-time hydraulic route can be trained with manometer.
- It has educational training function that controls condition of input and output by installing diagnosis error control module to TCU circuit.
- By installation of diagnosis terminal to TCU circuit and sensors, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- EOBD and automatic transmission can be controlled and analyzed by DLC and data analysis can be trained.
- Cross-sectioned automatic transmission is operated by pneumatic pressure control system and it is very effective for education of internal structure.
- Precisely cross-sectioned valve body and vibration-resistant system at high speed is installed to the internal structure.
- Control panel and color circuit diagram have excellent durability and are effective for education with aluminum plate engraved with CNC.
- AC 380V, variable inverter 10HP motor, geared motor system, air from outside.
- Powder coated 4-wheel panel stand with 2 door cabinet.
- Product size ≒ (L)190×(W)110×(H)165㎝, Wt≒400kg

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Homepage : www.dsg3.com

G-170407 Automotive Electric, Electronic Integrated Component System, Educational Training Equipment

FEATURES

- It is an integrated educational training equipment of gasoline 2,000cc passenger car's electric and electronic system. EF Sonata.
- The whole electronic system is designed as a coated panel type color circuit diagram
- It is an operating system with electronic parts and wire harness installed to front and rear of panel.
- Color circuit diagram facilitates circuit education.
- It is an efficient educational equipment for training of electronic system.
- Components: ECU, audio system, air conditioning system, window, door lock system, electronic ignition system, handle, multi-functional switch, lamp system, charging system, actuators, motor, switches, relay, sensor, operating sensor module, LED injection system, etc.
- It has educational training function that controls condition of input and output by installing Button diagnosis error control unit to ECU, circuit.
- By installation of check terminal to ECU, circuit, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- By installing 1:1 circuit check terminal to each components, it makes it convenient to use the tester and protects its circuit.
- It is equipped high efficiency transformer by designed and manufactured vehicle electronic control.
- Safety cover is attached to motor, spark, fan, and speaker.
- Installation of control box which is composed of operating switch, automatic circuit breaker, fuse, and safety switch.
- Powder-coated 4 door cabinet 6 wheel panel stand.
- Product size ≒ (L)250×(W)80×(H)180㎝, Wt≒350kg

G-180303 Motronic Electronic Control System Educational Training Equipment

FEATURES

- ME-Motronic is the newest model of DLI Fuel Injection System by Bosch Co. which electronically controls fuel and ignition system.
- It is an educational training equipment of DLI Motronic Fuel Injection system with installation of actual components and educational devices.
- Motronic system's data change of input and output can be diagnosed and educated by controlling injection time and ignition time with data variable controller of TPS, ATS, WTS, MAP and O2 sensor.
- By installation of diagnosis terminal to ECU circuit, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- EOBD Motronic electric-control function and data instruction of diagnostic system can be trained with DLC.
- Diagram panel is effective for training theory and test, and has excellent durability with aluminum coated plate and CNC engraver.
- Operation of fuel line system such as fuel tank, fuel pump, injection, etc.
- It has high efficiency of visual education with installation of LED ignition system which consecutively operates in intake line, exhaust line, and fuel line for each injector.
- It is composed of constant-voltage transformer with high efficiency which is designed and manufactured for automotive electric control. And also, key, switch, automatic cutout, fuse, safety switch, cover, etc. are included. Power source: single phase 220V.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated 2-door cabinet 4-wheel panel stand.
- Product size ≒ (L)122×(W)50×(H)160㎝, Wt≒110kg

G-180331 Common Rail Direct Injection System Educational Training Equipment

FEATURES

- The newest model of 2,000~2,900cc RV vehicle CRDI electronic-controlled Diesel engine system. (Delphi)
- It is a high standard educational training equipment of CRDI fuel injection system such as ECU, high pressure pump, injector, fuel pump, filter, fuel tank, fuel line, etc.
- By controlling injection time and injection amount with installation of data variable controller to APS, MAFS, IATS, ECTS, and RPM, data change of input and output can be analyzed, and theory & practice of CRDI system can be educated.
- Injection condition for each nozzle can be seen visually through high pressure transparent glass. Also, injection amount for each nozzle can be measured.
- By installation of diagnosis terminal to ECU circuit and sensors, input and output data can be measured and trained conveniently with multimeter or oscilloscope.
- Education can be efficiently done by indicating engine rpm and pressure of rail's high pressure as digital meter.
- EOBD and CRDI function can be controlled and data instruction can be trained with DLC.
- Diagram panel is effective for training theory and test, and has excellent durability with aluminum plate designed and engraved with CNC.
- Constant-voltage transformer with high efficiency, designed and manufactured for automotive electric control, is installed.
- It is composed of safety cover and control box such as key, power lamp, automatic cutout, fuse, safety switch, etc.
- Single phase 220V, 2HP motor, inverter speed variable system.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4-wheel panel stand with powder-coated 2-door cabinet.
- Product size ≒ (L)122×(W)80×(H)160㎝, Wt≒200kg

G-190101 Automotive Integrated Electrical System, Training Equipment

FEATURES

- It is an integrated educational training equipment for training of automotive electric device.
- It is effective for study and training with 12 types of panel for each circuit.
- It has operating function for circuit education and training function of circuit connection for each system.
- During education, it converts into operating circuit and function of circuit and parts can be educated and tested with diagnosis terminal.
- During training this equipment disconnects internal circuit and it completes the circuit with Lab Connection Cable to diagnosis terminal.
- Color circuit diagram, parts name, special connector, and pin number has excellent durability with aluminum coated plate engraved with CNC.
- Panel is composed for training of circuit components, in-out power terminal, key switch, control switch, etc. (Please refer to G-190107~190118 for circuits)
- Power source: AC 220V (Alternator system motor 1/2HP)
- The whole system operates with DC 12V constant-current transformer.
- Connection terminal per panel is used for training power source.
- This structure can be easily assembled and disassembled during the practice.
- Integrated education and maintenance are easier with A, B set type.
- Two 100P Lab Connection Cable display stands are provided.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Aluminum panel powder-coated 4 wheel stand.
- User's manual for teacher, student, and maintenance and a cover
- A Type Product size ≒ (L)220×(W)80×(H)180㎝, Wt≒300kg
- B Type Product size ≒ (L)220×(W)80×(H)180㎝, Wt≒250kg

G-240501 Brake System Synthesis Educational Training Equipment

FEATURES

- It is an integrated educational training equipment of hydraulic brake system installed to a passenger car by cross-sectioning components for effective education.
- Components: disk drum brake assembly, master cylinder, vacuum brake booster, etc.
- As an operating type of brake system and low speed operation of front drive shaft, it is effective for understanding hydraulic brake system.
- The function of each components are explained on a color circuit diagram panel for education of structure. Disk drum brake assembly, wheel cylinder, etc. are precisely cross-sectioned and parking lever is installed to the panel.
- Control panel has excellent durability with installation of master cylinder, 12 pressure gauge, vacuum system, brake pedal, parking brake lever, key switches, power lamp, etc and aluminum plate engraved with CNC.
- It is manufactured as a miniature which facilitates maintenance training and theoretical education of assembly and disassembly such as brake shoe, pad adjustment and replacement, air removal, etc.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, etc.
- AC 220V, 2HP motor, alternator operated by motor, 12V battery automatic charging, and vacuum system are installed inside.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated, 2 door cabinet, 4-wheel frame stand.
- Product size ≒ (L)160×(W)136×(H)150㎝, Wt≒350kg

G-270401 Automotive Air Conditioning System Educational Training Equipment

FEATURES

- It is the latest educational training equipment of manual temperature control air conditioning system installed to 1,500cc passenger car.
- The operating principle of MTC can be educated and professional training can be done efficiently with this equipment.
- Control panel has excellent durability with installation of power lamp, safety switch, key switch, A/C switch, display, etc. to an aluminum panel engraved with CNC.
- Designed color circuit diagram panel is effective for education and understanding with circuit diagram for individual air conditioning cycle.
- Operating principle of MTC system can be educated and additional maintenance training and testing of refrigerant can be done.
- Components: compressor, condenser, dryer, expansion valve, orifice tube, evaporator, ventilator, pipe, coolant fan, unit, control panel, etc.
- Compressor is AC 380V 7.5HP motor driven system.
- Air condition. Refrigerant - R134a. - HFC (Hydro Fluro Carbon)
- Heating-5kw, how-water heating.
- Equipment power - alternator motor driven. 12V battery, automatic charging system.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated, 2 door cabinet, stainless steel molding, panel, 4-wheel frame stand.
- An user's manual and a cover.
- Product size ≒ (L)190×(W)140×(H)170㎝, Wt≒300kg

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G-310102

Two Stroke Engine Structure Educational Model

FEATURES

- It is an educational model for understanding internal structure of 2 stroke 1 cylinder air-cooling actual gasoline engine by cross-sectioning components.
- The operating principle and cycle of intake, compression, expansion and exhaust strokes can be explained systematically and seen visually so that enhances educational effect for 2 stroke theory and practice.
- Internal structure of engine such as cylinder, head, crank chamber, fuel tank, intake/exhaust manifold, carburetor, muffler, generator, etc. are precisely cross-sectioned and it is manufactured as a 5rpm motor operating type in order to facilitate education.
- Power generating principle of 2 stroke engine such as scavenging, compression, expansion and exhaust strokes can be educated and components' function can be understood by attaching cross-sectioned part.
- AC 220V, DC12V transformer and LED light operating during the combustion stroke with micro switch.
- The model is painted by our company's detailed specifications to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L)40×(W)30×(H)45㎝, Wt≒25kg

G-320102

Four Stroke Engine Structure Educational Model

FEATURES

- It is an educational model for understanding internal structure of 4 stroke 1 cylinder air-cooling actual 3HP gasoline engine by cross-sectioning components.
- The operating principle and cycle of intake, compression, expansion and exhaust strokes can be explained systematically and seen visually so that enhances educational effect for 4 stroke theory and practice.
- Internal structure of engine such as cylinder, head, crank chamber, fuel tank, intake/exhaust manifold, carburetor, muffler, generator, etc. are precisely cross-sectioned and it is manufactured as a 5rpm motor operating type in order to facilitate education.
- Power generating principle of 4 stroke engine such as lubricating, fuel, ignition system, etc. and operation of piston, crank, cam, and valve can be educated and components' function can be understood with cross-sectioned part.
- AC 220V, DC12V transformer and LED light operating during the combustion stroke with micro switch.
- The model is painted by our company's detailed specifications to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L)40×(W)30×(H)45㎝, Wt≒23kg

G-320701

Four Stroke Diesel Engine Structure Educational Equipment

FEATURES

- It is an educational model for understanding internal structure of 4 stroke 1 cylinder water-cooling actual cultivator Diesel engine by cross-sectioning components.
- The operating principle and cycle of intake, compression, expansion and exhaust strokes can be explained systematically and seen visually so that enhances educational effect for 4 stroke theory and practice.
- Internal structure of engine such as cylinder, head, crank chamber, fuel pump, nozzle, intake/exhaust manifold, air filter, muffler, etc. are precisely cross-sectioned and it is manufactured manual operating type in order to facilitate education.
- Power generating principle of Diesel engine such as lubricating, fuel, etc. and operation of piston, crank, cam, and valve can be educated and components' function can be understood with cross-sectioned part.
- The model is painted by our company's detailed specifications to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L)80×(W)55×(H)58㎝, Wt≒72kg

G-340101

Tractor Structure Educational Training Equipment

FEATURES

- It is an educational displaying model for understanding the power train structure of new agricultural tractor by cross-sectioning component.
- It is educational system for theoretical and practical education by controlling internal operating structure and principle of functions to explain by seeing and operating each parts of tractor.
- It is effective to understand power train system of tractor as well as technical training such as fault diagnosis, periodic inspection, and maintenance.
- 4 stroke 4 cylinder, water cooling, 1,732cc, 35Hp of Diesel engine, 8 speed transmission.
- It is useful for technical education of power generating principle and components such as intake, exhaust, cooling and lubricating system by cross-sectioning cylinder, piston, head, cam, valve, nozzle.
- It is manufactured as operating type by cross-sectioning clutch, transmission, 4WD, differential gear, hub, break, power train, PTO, power steering, working parts, etc.
- Power source : AC 220V. Motor driving system of 4~5rpm and control box including power s/w, power lamp, fuse, circuit breaker, emergency s/w are installed.
- Display effect is good because of using two high brightness halogen lamp.
- The model is painted by our company's detailed specifications to enhanc educational quality. Cut face part : dark red, intake : skyblue, exhaust : pink, lubricating device : yellow, block : black, head : sliver, gasket : white.
- Exterior is painted by diamond and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust stand, made of steel and powder-coated, can be easily moved and stopped by 6 wheels.
- Product size ≒ (L)340×(W)152×(H)254㎝, Wt≒1,945kg

G-341501

Combine Structure Educational Training Equipment (3 ROW Type)

FEATURES

- It is educational system for understanding internal structures and operating principle of combine by cross-sectioning component.
- Complicated whole system is divided into three major subsystem such as cutting, threshing, and power source parts.
- It is effective for theoretical and practical education by operating three subsystems to watch internal structures and operating principle.
- It is effective for technical training such as fault diagnosis, periodic inspection, and maintenance. It clearly shows power generation mechanism of 4-stroke Diesel engine, from which power transfer processes to driving, cutting and threshing parts are clearly seen.
- Cutting part: upper and lower cutting blades, feeding chain, driving shaft gear
- Threshing part: feed system, threshing system, screw, reservoir tank
- Power source part: engine, intake and exhaust systems, fuel system, lubricating system, cooling system, clutch, caterpillar.
- Power train parts are cross-sectioned, and are operated.
- Cutting and threshing parts have motor operating system of 4~5rpm, AC 220V and electric circuit control box including power switch, power lamp, fuse, circuit breaker and emergency switch.
- It uses halogen lamp to visualize internal structure and increase display effect.
- The model is painted by our company's detailed specifications to enhance educational quality. Cut face : dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust stand, made of steel and powder-coated, can be easily moved and stopped by 4~6 wheels.

G-360101

Multi-Functional Training Stand

FEATURES

- It is multi function training stand for practical training of disassembly, and assembly of engine and transmission, and starting of engine and they can be rotated by 360˚C.
- It is designed for functional, mechanical, dynamic relationship and manufactured by Korean patent.
- It is the safest educational multi function stand with main shaft rotating system and brake system of patent no. 0251812.
- Supporting capacity : 500kg(700kg with assistant 6 taps), supporting range : 180~430mm, supporting plate : Ø200mm, block : 220mm(2ea),150mm(2ea), block pin : 120mm(4ea), left&right handles, connecting bracket, bolt tray, oil tray, drain cock.
- Robust and integrated main shaft of 45mm is made of S45C and precisely machined with CNC. In addition, installation of brake provides excellent supporting without any vibration.
- Internal worm gear is a rotating equipment for right and left all in one type, and it is operated in safe and easy way for hight-weighted engine that it uses the most efficient rotational ratio of NC 134:1 and Ø208 × Ø38mm S45C.
- Stand is made of high strength material and assembled with bearings and special bolts.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- It is easily moved and stopped by 4 wheels.
- Product size ≒ (L)122×(W)80×(H)95㎝, Wt≒85kg

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G-240101

TCS, ABS System Computer Educational Training Equipment

FEATURES

- It is an educational equipment that enables integrated training and education by using 4 sensor 4 channel ABS, TCS system and control system installed to a passenger car.
- Components: ABS brake system and TCS system s 4 wheel hydraulic actuator assembly, control module, wheel speed sensor, master cylinder, vacuum brake booster, etc.
- RPM can be controlled with 4 inverters and each tire is composed of tire grip force, rotation inertia, and hydraulic control system.
- A special device of inertia without slip system is installed to drive and brake, and a control system of actual drive change.
- The operating principle of ABS TCS hydraulic circuit system and additional maintenance can be trained andeducated
- ABS TCS education is systematic and effective with installation of 4 wheel digital rpm gauge, brake pressure gauge, master cylinder 1.2 pressure gauge, etc. to color circuit diagram panel
- Input, control function for real-time system and input, output, diagnosis, saving of data can be done by PC interface. And also, by inspecting circuit diagram standard value and graph, it can be efficiently done by comparison and analysis of education.
- By directly providing breakdown to ECU or actuator control with PC, engine, and automatic transmission equipment, it measures data of before and after period of breakdown.
- Input/output of ECU and actuators can be controlled manually with control connection system and it could be measured easily with multimeter and oscilloscope through diagnosis terminal.
- PC Specification(Window XP, Ram 1G, HDD 160G, LCD monitor 17", Printer)
- Running program, S/W setting, English version(Korean-optional)
- Simultaneous measurement of oscilloscope 4-channel
- Data sampling speed 500㎑ ■ Voltage measurement DC 0~±150V Max
- Frequence 1Hz~100Khz ■ Duty ratio 0~99.9%
- Voltage frequency variable output simulation function
- Measuring probe and adaptor are provided for equipment use.
- This model is designed and manufactured according to ISO 9001 and our company's technical spec.
- PC size ≒ (L) 60 × (W) 75 × (H) 160㎝, Wt ≒ 120kg ■ Product size ≒ (L) 165 × (W) 155 × (H) 150㎝, Wt ≒ 480kg

G-210101

Automatic Transmission System Computer Educational Training Equipment

FEATURES

- It is an integrated educational training equipment using hivec 5 speed automatic transmission system and computer control system.
- Input, control function for real-time system and input, output, diagnosis, saving of data can be done by PC interface. And also, by inspecting circuit diagram standard value and graph, it can be efficiently done by comparison and analysis of education.
- The shift lever positions are P, R, N, and D(+,-), conditions, timing and pattern for shift can be compared, analyzed, and tested by inverter and controller
- Cross-sectioned automatic transmission is operated by pneumatic pressure control system and it is very effective for education of internal structure
- Control panel and color circuit diagram have excellent durability and are effective for education with aluminum plate engraved with CNC.
- Control panel is composed of digital meter for TPS, ECU, ETS, oil thermometer, voltmeter, rpm, and key, APS, switches, inverter, power lamp, automatic breaker, fuse, safety switch, DLC, etc. And also, control box and safety cover are installed inside.
- By directly providing breakdown to ECU or actuator control with PC and equipment, it measures data of before and after period of breakdown.
- Input and output of ECU and actuators can be manually controlled with control connection system and it can be measured easily by multimeter and oscilloscope with diagnosis terminal.
- PC Specification(Window XP, Ram 1G, HDD 160G, LCD monitor 17", Printer)
- Running program, S/W setting, English version(Korean-optional)
- Simultaneous measurement of oscilloscope 4-channel
- Data sampling speed 500㎑ ■ Voltage measurement DC 0~±150V Max
- Frequence 1Hz~100Khz ■ Duty ratio 0~99.9%
- Voltage frequency variable output simulation function
- Measuring probe and adaptor are provided for equipment use.
- This model is designed and manufactured according to ISO 9001 and our company's technical spec.
- PC size ≒ (L) 60 × (W) 75 × (H) 160㎝, Wt ≒ 120kg ■ Product size ≒ (L) 190 × (W) 150 × (H) 170㎝, Wt ≒ 530kg

G-260101

ECS System Computer Educational Training Equipment

FEATURES

- It is an educational equipment that enables integrated training and education by using electronic control suspension system and computer control system.
- Components: ECU, instrument panel, color location indicator, ECS mode switch, damping force actuator, steering wheel, steering angle sensor, brake switch, idle switch, accelerator, reverse button, light button, door button, self-diagnosis jack, power terminal, voltmeter and ammeter, variable controllers, air cylinder, control lever, etc.
- The instructor can freely operate automobile height control for each wheel in any condition. Also, operating condition and change in position control of ECS can be educated both in automatic and manual manners with controllers.
- When car body's position changes or temporary value is set to rear pressure-G sensor-VSS speed, ECU reads the change and it automatically shows automotive height sensor value and position control change process.
- For the change of automotive height due to passengers and freight weight, it controls with balance weight of front-80kg and rear-70kg, total-150kg to reach the target height. And also, it measures change value of location with 4-corner 1 meter stainless steel ruler.
- Control panel has excellent durability with installation of ECS control switches, 4 variable control valves, actuator, diagnostic terminal, etc. to an aluminum CNC engraved coated plate.
- Input, control function for real-time system, and input, output, diagnosis, saving of data can be done with PC interface. And also, by sharing related information such as circuit diagram, standard value, etc. comparison and analysis can be efficiently done with graph or figure.
- By directly providing trouble to ECU or actuator control with PC and equipment, it measures data of before and after period of trouble.
- Input and output of ECU and actuators can be controlled manually with control connection system and also it could be easily measured with multimeter and oscilloscope by diagnosis terminal.
- PC Specification(Window XP, Ram 1G, HDD 160G, LCD monitor 17", Printer)
- Running program, S/W setting, English version(Korean-optional)
- Simultaneous measurement of oscilloscope 4-channel
- Data sampling speed 500㎑ ■ Voltage measurement DC 0~±150V Max
- Frequence 1Hz~100Khz ■ Duty ratio 0~99.9%
- Voltage frequency variable output simulation function
- Measuring probe and adaptor are provided for equipment use.
- This model is designed and manufactured according to ISO 9001 and our company's technical spec.
- PC size ≒ (L) 60 × (W) 75 × (H) 160㎝, Wt ≒ 120kg ■ Product size ≒ (L) 250 × (W) 140 × (H) 176㎝, Wt ≒ 800kg

Machinery and Automobile Education

G-180601

Electric Car Educational Training Equipment

FEATURES

- It is an training equipment of electric car training simulator
- A operating system that is equipped with components such as motor electrical system,
- By exposing electronic, etc. during the test education, it facilitates education of system.
- Actual operation and diagnostic condition can be monitored conveniently during the training and education of starting condition.
- Educational check point terminal and connector are installed to each senso r and part of electronic circuit.
- It is a road type vehicle which can be efficiently used for maintenance & inspection training and diagnostic test education.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Product size ≒ (L) 113 × (W) 96 × (H) 143 ㎝, Wt ≒ 392kg

G-100501

Electric Car Body Structure and Diagnostic Educational Equipment

FEATURES

- Electric passenger car education test system.
- It is an educational equipment that enables convenient integrated education of open car structure and engine test.
- By exposing electronic, etc. during the test education, it facilitates education of system.
- Actual operation and diagnostic condition can be monitored conveniently during the training and education of starting condition.
- Educational check point terminal and connector are installed to each sensor and part of electronic circuit.
- It is a road type vehicle which can be efficiently used for maintenance & inspection training and diagnostic test education.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
  - * kiosk specification
  - CPU : dual core
  - CPU(Ghz) : 2.0Ghz FSB 800Mhz L
  - MB : 2GB DDR2 667Mhz SDRAM
  - GB : 160GB SATA (7200rpm)
  - Monitor : TOCUH SCREEN-
  - Monitor size :17"
  - Main board : intel 945GC

G-060104

Structure Educational System Hybrid Car

FEATURES

- Gasoline 1,500cc 50HP electric 40HP Hybrid PRIUS by Toyota Motor Co.
- It is educational system of automotive structure for display by precisely cross-sectioning body and chassis.
- It is effective for understanding and explaining functions of hydbrid system's engijne, transmission, electric motor, power cable, battery, charging system, inverter, converter, etc.
- Design and operating principles of vehicle can be explained systematically.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head of 4-stroke 4-cylinder engine.
- Block, head, starting motor, electric generator, air-conditioning compressor, fuel, cooling system, lubricating system, manifolder, muffler, and actual body are cross-sectioned, and operated for better educational quality.
- Internal structure of Clutch, transmission, differential gear, brake system, etc. can be seen by directly operating pedal and lever, and also, detailed power system education can be done.
- Structure and operating principle of auxiliary device, steering, suspension systems, and actual body frame can be demonstrated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow cylinder block: light black, cylinder head: silver, gasket: white.
- Steel plate stand
- Control box, single phase 220V 180W of motor, 0~15 rpm, two lamps, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Product size ≒ (L) 445 × (W) 173 × (H) 149 ㎝, Wt ≒ 1.370kg
  - * kiosk specification
  - CPU : dual core
  - CPU(Ghz) : 2.0Ghz FSB 800Mhz L
  - MB : 2GB DDR2 667Mhz SDRAM
  - GB : 160GB SATA (7200rpm)
  - Monitor : TOCUH SCREEN-
  - Monitor size :17"
  - Main board : intel 945GC

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G-120204 CRDI Diesel ENG A/T Wheel,Control System Educational Training Equipment

FEATURES

- It is high standard educational system of 2,000cc 4-cylinder CRDI Diesel engine, 4-speed automatic transmission for passenger car.
- A consecutive operating system that is equipped with components such as engine electrical system, fuel, cooling system, intake and exhaust system, automatic transmission, wheel, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing diagnosis error control module to ECU circuit.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P, R, N, D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher,a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding 4-wheel stand.
- Product size (L)187 × (W)163 × (H)123㎝, Wt ≒ 650kg

G-120401 CRDI Diesel ENG, A/T, Control System Educational Training Equipment

FEATURES

- It is high standard educational system of 2,500cc 4-cylinder CRDI Diesel engine, 4-speed automatic transmission for passenger car.
- A consecutive operating system that is equipped with components such as engine electrical system,fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It has educational training function that controls condition of input and output by installing diagnosis error control module to ECU circuit.
- It is composed as an efficient system for automotive engineer qualifying education and inspection training such as engine tune-up, exhaust gas, ignition timing, intake pipe, vacuum level, cylinder pressure, radiator, timing, fan belt, fuel, oil, electrolyte, charging, moving circuit, etc.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and DM.
- Pressure gages are installed at P, R, N, D and L hydraulic circuits of automatic transmission to instruct operation of hydraulic circuits according to each range.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher,a book holder etc. are installed.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding 4-wheel stand.
- Product size (L)180 × (W)140 × (H)120㎝, Wt ≒ 600kg

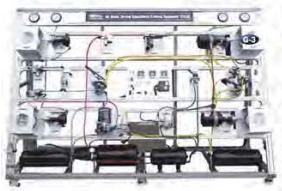
G-160201 Gasoline ENG, Air Conditioning Control System Educational Training Equipment

FEATURES

- It is an integrated educational training equipment of gasoline, 2,000cc, engine and FATC air-conditioning system.
- A consecutive operating Full Automatic Temperature Control type air-conditioning system that is fully equipped with components such as engine electrical system, fuel, cooling system, intake and exhaust system, automatic transmission, etc.
- It is manufactured as an educational structure with same condition of actual vehicle for efficient education.
- It is for education of automotive air-conditioning system's principle, and training of inspectors on refrigerant exchange(HFC-134a), trouble, diagnosis, disassembly, inspection, maintenance, etc.
- It has educational training function that controls condition of input and output by installing button diagnosis error control Module to ECU,FATC circuit.
- Electric-control function of EOBD and instruction of diagnostic system and data can be trained through DLC and BU.
- By installing check terminal for each sensor, it is convenient to use tester and also, it protects the circuit.
- Instruments, vacuum gauge, fuel pressure gauge, voltmeter, DLC, power source jack, key, dual accelerate module, battery, stainless fuel tank, engine, radiator protector, fire extinguisher, a book holder etc. are installed.
- By color-coating circuit diagram of air conditioning to a panel, it advances theoretical educational efficiency.
- Control panel has excellent durability with aluminum plate, CNC engraver, and color.
- Pressure gauge for each cycle, sight glass, thermometer, control valve are optional.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 2-drawer door cabinet stainless molding, 4-wheel stand
- Product size ≒ (L)170 × (W)150 × (H)123㎝, Wt ≒ 480kg

Machinery and Automobile Education

G-240803 Air Brake System Educational Training Equipment



FEATURES

- It is an educational training equipment of air brake and ABS, ARS system installed to a truck and Bus.
- Components : air compressor. air tank. pressure controller. relay valve. quick release valve.brake chamber. diaphragm. push road. shoe.pressure control valve. pressure gauge. parking valve. air dryer pedal. etc.
- The functional education and operating principle of air brake system can be efficiently done.
- Each air line is indicated with color for understanding flow of air pressure system and pressure gauge are installed to the equipment.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 6-wheel aluminum profile stand.
- Product size ≒ (L) 283 × (W) 115 × (H) 198㎝, Wt ≒ 420kg

G-240801 Air, Hydraulic Combined Brake System Educational Equipment

FEATURES

- It is an educational system of air and hydraulic combined brake system installed to a truck and Bus.
- Components: air compressor, air tank, pressure controller, relay valve,quick release valve, brake chamber, diaphragm, push road, shoe,pressure control valve, pressure gauge, parking valve, air dryer pedal, etc.
- The functional education and operating principle of air brake system can be efficiently done.
- Each air line is indicated with color for understanding flow of air pressure system, and circuit diagram panel and pressure gauge are installed to the equipment.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated, 6-wheel stand.
- Product size ≒ (L) 250 × (W) 80 × (H) 180㎝, Wt ≒ 500kg

G-180401 Automotive Sensor Diagnostic System Educational Training Equipment

FEATURES

- It is an educational training equipment of sensor with installation of diagnostic system arranged by electronic-controlled vehicle's sensor and components.
- Components: crank angle sensor, automatic transmission pulse generator sensor, cam position sensor, ABS wheel sensor, CAS&CMP sensor (Optical type), ECS G sensor steering angle sensor, rain sensor, humidity sensor, rear sensor, AQS sensor, engine temperature sensor, automatic transmission oil sensor, auto-light sensor, daylight sensor, knock sensor, SRS impact sensor, vehicle speed sensor, accelerator position sensor, oxygen sensor(zirconia, titania), throttle position sensor, air-flower sensor, air sensor.
- Sensor's name and function are explained on color printed panel to educate theory and operating function of sensors more efficiently and systematically.
- Operating voltage, resistance, pulse, AC waveform can be easily measured and trained with multimeter, oscilloscope, etc. by installing operating system per sensor and diagnosis terminal.
- Constant-current transformer, operating switch, controllers, fuse, safety switch, thermometer, etc. are installed for sensor operation. Single phase 220V.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated 6-wheel panel stand with 4-door cabinet
- Product size ≒ (L) 250 × (W) 80 × (H) 180, Wt ≒ 250kg

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G-210301 Automatic Transmission Simulator System Educational Training Equipment (5P)

FEATURES

- It is an educational training simulating equipment for understanding transmission principle and control system of new-type HIVEC 5 speed front drive automatic transmission.
- Clutch, planetary gear trains, etc. can be seen by operating high speed, low speed and stop of precisely cross-sectioned automatic transmission with automatic and manual control system. Therefore it is very effective for understanding operating principle of automatic transmission.
- Operating speed and rpm of input&output shaft are indicated by monitor.
- During automatic mode education, it automatically changes speed and rotates in order of D, 1, 2, 3, 4, and 5. At this moment, this system precisely controls P,R,N,D and L to maintain adequate speed for education.
- By controlling control switch when rotation of automatic transmission is stopped during the manual mode education, function and operating process of internal transmission's one way clutch, brake, gear, etc. can be seen and educated.
- For manual mode education, it rotates automatic transmission in low speed for education with RPM control switch. During the rotation, internal transmission's operating process can be seen as well as operating function for each speed.
- Shift lever positions are P, R, N, D, 2, and L. RPM digital sensor is installed to input/output shaft.
- Actuator control panel is composed of power lamp, key, transmission switch, auto/manual switch, transmission fixing switch, transmission operating button,speed control switch, etc. Operating system, control box, fuse, automatic breaker, safety cover, etc. are installed inside.
- AC 220V, transmission DC 90~180V 1HP motor control system, air module connected from outside.
- Patent 5488, automatic transmission operating control system and program, is installed.
- Valve body and automatic transmission's one way clutch, brake, gear are precisely cross-sectioned and powder coated to see internal structure more closely.
- Control panel and color diagram have excellent durability and are effective for education with aluminum plate engraved with CNC.
- Product size ≒ (L) 135 × (W) 132 × (H) 142㎝, Wt ≒ 320kg

G-210904 Automatic Transmission Structure Arrangement Educational Equipment

FEATURES

- It is educational model for understanding internal structure of FF type 4 speed automatic transmission.
- A panel effective for understanding function and operating principle of automatic transmissions.
- It is manufactured with precisely cross-sectioned torque converters, stator, clutch, planetary gear, band, servo, valve body, trans axels, etc.
- It is cross-sectioned and colored to see fixed internal gear.
- Exterior is painted by diamond and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Power-coated 4-wheel panel stand with 2 door cabinet.
- Product size ≒ (L) 122 × (W) 80 × (H) 160㎝, Wt ≒ 150kg

G-210806 CVT System Educational Training Equipment

FEATURES

- It is an educational training equipment for understanding transmission principle and function of continuously variable transmission.
- Conditions, timing and pattern for shift can be compared and tested by controlling rpm with inverter.
- It is cross-sectioned and has transparent cover to see transmission function, internal driving pulley and steel V belt structure.
- Hydraulic and electric circuit diagram, educational panel and control box of constant-voltage transformer, inverter and switches.
- By installation of diagnosis terminal for each CVT circuit, sensor, and part,input and output data can be measured and trained with multimeter, oscilloscope, diagnostic system, etc.
- Control panel and color circuit diagram have excellent durability and are effective for education with aluminum plate engraved with CNC.
- AC 380V. Variable inverter 5 HP motor control system. Vibration-resistant system at high speed, cooling system.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated 4-wheel panel stand with 2-door cabinet.
- Product size ≒ (L) 142 × (W) 132 × (H) 158㎝, Wt ≒ 420kg

G-270204 Automotive Air Conditioning System Educational Training Equipment

FEATURES

- It is the latest educational training equipment of full automatic temperature control(FATC) air conditioning system installed to a 2000cc high-class passenger car.
- This equipment is effective for professional training and systematic education of FATC operating principle.
- It is manufactured to facilitate training of refrigerant circulating process, temperature and pressure of cooling and heating related processes by operation of all devices and sensors under same driving condition of actual vehicle.
- Digital thermometer - 4ea, high low pressure gauge-3ea, side glass- 2ea, pressure relief valve-3ea and evaporating part - transparent cover are installed to the equipment.
- Control panel has excellent durability with installation of photo sensor, AQS, indoor and outdoor temperature sensor, inverter, power lamp, safety switch, key switch, A/C switch, display, etc. to an aluminum panel engraved with CNC.
- With temperature, pressure gauge installed at each air conditioning cycle of color circuit diagram panel and FATC circuit diagram, education is systematic and effective.
- By using diagnosis terminal and self-diagnostic instrument installed to DLC, data value can be seen and tested.
- Operating principle of FATC system can be educated and additional maintenance training and testing of refrigerant can be done.
- Components: compressor, condenser, dryer, expansion valve or orifice tube, evaporator, ventilator, pipe coolar, fan, unit, control panel, etc.
- Compressor operating part-AC 380V 7.5HP motor and 7.5HP inverter rpm control system
- Air condition. Refrigerant - R134a. - HFC (Hydro Fluro Carbon)
- Heating-5kw, how-water heating, PT sensor, PID, SCR, control automatic operating system.
- Equipment power - alternator motor driven. 12V battery automatic charging system.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated, 2 door cabinet, stainless steel molding, panel, 4- wheel frame stand.
- Product size ≒ (L) 190 × (W) 152 × (H) 170㎝, Wt ≒ 390kg

G-250301 Electronic Power Steering System Educational Training Equipment

FEATURES

- It is an educational training equipment for understanding operating principle and diagnostic test of electronic power steering system.
- TPS operating and function can be tested and diagnosed efficiently and systematically by controlling earthing power of tire and EPS operational simulating system.
- Components: EPS, ECU, instrument, car speed sensor, solenoid valve, power pump, pressure pipe,control valve, chamber rack, booster cylinder, wheel, tire, etc.
- Speed sensitive variable assist power steering system is operated with inverter and TPS, VSS variable controller. And power pump pressure,thermometer, and TPS values are indicated with digital volt meter.
- By installation of diagnosis error control module and diagnosis terminal to ECU and circuit,input and output condition can be controlled. Also, input and output data can be measured and trained conveniently with multimeter, oscilloscope, diagnostic system, etc.
- EPS electric control function and instruction of diagnostic devices and data can be trained with DLC.
- Control panel has excellent durability with installation of main switch, power lamp, power connector, key switch, safety switch, TPS, VSS,variable controller, digital meter, inverter, cluster, DLC, DM,etc to an aluminum plate engraved with CNC.
- The operating principle education of hydraulic circuit system installed to EPS power steering system and additional maintenance training can be done.
- AC 380V 3HP motor, power pump driven, inverter 3HP 0~60Hz control system.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 4-wheel panel stand with 2-door cabinet.
- Product size ≒ (L) 200 × (W) 193 × (H) 129㎝, Wt ≒ 400kg

G-300601 Mechanical Elements Actuate Educational Equipment

FEATURES

- It is an educational equipment manufactured as a simultaneous operating type and composed of operational mechanical elements by integrately connecting them for effective education.
- The operating principle can be easily educated with composition of straight shaft, crank shaft, flexible shaft, coupling, universal joint, clutch, spur, helical, rack, bevel, worm gears, V-belt, pulley, chain, link, plate, etc.
- By operating the operational switch for each element on control panel, relevant element's blinker is operated.
- Control panel has excellent durability by installing switches, control circuit, key switch, safety switch, etc. on an aluminum coated plate engraved with CNC.
- 'Built-in' operating device of AC 220V motor and operational system of R,F safety warning lamp.
- It is effective for operating principle and function instruction of 8 types of bearing by cross-sectioning components.
- Panel is effective for exhibition with color printed name indication.
- Parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 4-wheel panel stand with 3 door cabinet.
- Product size ≒ (L) 188 × (W) 60 × (H) 16㎝, Wt ≒ 240kg

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G-190118S Ignition Circuit Training Model

FEATURES

- It is an effective model for study and training education of ignition circuit system.
- Components: circuit educational system, ignition switch, high tension cable, spark plug, distributor, VS motor, power transistor, relays, diagnosis terminal, etc
- Product size ≒ (L) 70 × (W) 50 × (H) 22㎝, Wt ≒13kg

* **Training Adjustable Stand Specification**

- An ducational training adjustable stand.
- The angle can be freely adjusted within 0~90 for convenient education and traning.
- A robust frame, made of steel and painted, can be and stopped according to the size of panel.
- A power-coated 4-wheel stand.
- Product size ≒ (L) 65 × (W) 54 × (H)135㎝, Wt ≒15kg

* **Lab Conection Cable Display Stand Specification**

- It is an educational cable dispaly stand for electric circuit test and training.
- It is displayed and kept in order by size which makes it easy to train.
- Lab Conection Cable is provided by order for each model.
- Product size ≒ (L) 63 × (W) 45 × (H) 122㎝, Wt ≒13kg

G-250201 Air Bag System Educational Training Equipment

FEATURES

- It is an educational training equipment for understanding operating principle and diagnostic test of air bag system.
- It is very effective for operating principle education of air bag by simulating immediate operation of sensor, seat belt and air bag at the instant of crash.
- Components: crash sensor, air bag ECU, safety sensor, air bag module, clock spring, PPD sensor, G sensor, steering wheel, etc.
- A single operating function during crash is designed and manufactured with control circuit and technical operating system.
- By installation of diagnosis error control module and diagnosis terminal to ECU and circuit, input and output condition can be controlled. Also, input and output data can be measured and trained conveniently with multimeter, oscilloscope, diagnostic system, etc.
- Air bag electrical control function and instruction of diagnostic system and data can be trained with DLC.
- It is effective for education and training with color circuit diagram panel and crosssectioned components.
- A storage tank with commercial compressed air and single/continuous operating control system are installed.
- An internal high-efficiency constant voltage transformer is designed for AC 220V automotive electronic control.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 4-wheel panel stand with 2-door cabinet.
- Product size ≒ (L) 122 × (W) 50 × (H) 160㎝, Wt ≒100kg

G-180211 Automotive ETACS, IMS System Educational Training Equipment

FEATURES

- It is an educational training equipment for test and diagnosis of high class passenger car's electric time and alarm control system and integrated memory system. (Grandeur XG by Hyundai Motor Co.)
- It is a professional system equipment with installation of educational device and arrangement of ETACS, IMS system components in position and circuit diagram.
- Components: ETACS, module, IMS module, power seat, combination switch,wiper motor, washer motor, wiper relay, door switch lamp, instrument panel, left door module, right door module,power window relay, motor, hot-wire switch, seat belt, door lock actuator, start relay, boozer, key lamp,room lamp,lightening system, etc.
- It has high educational efficiency with digital indication and control of timer and additional device such as key, remote control, keyless module, burglar alarm relay, auto-light sensor, defogger, and automatic door unlock system for crash.
- It has excellent durability with installation of 1:1 Diagnosis terminal to ETACS, IMS module, circuit,and components. Also, input/output data can be easily diagnosed and trained with multimeter, scilloscope, etc.
- This panel is efficient for training of theory and test with systematic and beautiful color circuit diagram
- It is equipped high efficiency constant voltage transformer by designed and manufactured vehicle electronic control.
- Control box and safety cover such as operating switch, automatic cutout, fuse, safety switch
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4-wheel panel stand with powder-coated 4-door cabinet.
- Product size ≒ (L) 250 × (W) 80 × (H) 180㎝, Wt ≒ 270kg

Machinery and Automobile Education

G-070307 F/F Automotive Power Train System Structure Frame Educational Equipment

FEATURES

- Gasoline, 1,500cc, 4-cylinder, electronic-controlled engine front drive automotive power trainsystem tructure.
- It is educational equipment for understanding internal structure and operating principle of engine, clutch, transaxle, wheel and tire by cross-sectioning components.
- It is and educational structure that is operated by motor with block, cylinder and head of engine cross-sectioned.
- Starting motor, electric generator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifolder, etc are cross-sectioned, and operated for better educational quality.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank and shaft can be controlled and it can be systematicalley educated.
- It is very effective for education of power generating principle with LED indicating module for each stroke of intake, ignition, exhaust and compression.
- Internal structure of clutch, 5 speed manual transmission can be seen and it can be educated systematically by directly operating it with pedal and lever.
- Steering, suspension system, etc. are educational structure with frame stand type.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond and parts are coated for durability
- Single phase 220V 180W 4-pole motor, 0~5.5 rpm, lamp, control box, safety device, control module.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust frame, made of steel and painted, can be easily moved and stopped by 6wheels.
- Product size ≒ (L) 270 × (W) 150 × (H) 140㎝, Wt ≒ 400kg

G-070502 F/R Diesel Automotive Power Train System Structure Educational Equipment

FEATURES

- 2,500cc 4-cylinder rotary injection diesel engine rear drive, Porter by Hyundai Motor Co.
- It is educational equipment for understanding internal structure of power train of diesel engine, clutch, transmission, differential, rear axle drum by cross-sectioning components.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head of engine.
- Engine intake and exhaust manifolder, injection pump, starting motor, alternator, fuel system, cooling system, lubricating system, etc are cross-sectioned and operated for better educational quality.
- Internal structure of Clutch, transmission, differential gear, brake system, etc. can be seen by directly operating pedal and lever and also, gear ratio of manual transmission and detailed power system education can be done.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Single phase 220V 180W motor, 0 ~ 5.5 rpm, two lamps, control box, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust frame, made of steel and painted, can be easily moved and stopped by 6 wheels.
- Product size ≒ (L) 230 × (W) 140 × (H) 130㎝, Wt ≒ 420kg

G-070403 4WD Diesel Automotive Power Train System Structure Frame Educational Equipment

FEATURES

- 5-cylinder, Bens Diesel Engine, 2,874~3,000cc, 4 WD Musso by Ssangyong Motor Co.
- It is educational equipment for understanding internal sturucture of 4 WD power train of Diesel engine, transmission, differential geaf, axel, tire by cross-sectioning components.
- It is very effective for exlpanation and understanding of function for every part of 4 WD vehicle.
- Design and operating principles of RV vehicle can be explained systematically.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head of 4-stroke 5-cylinder engine.
- Intake and exhaust system, starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, etc. are cross-sectioned and operated for better educational quality.
- Internal structure of clutch, transmission, differential gear, brake system, etc. can be seen by directly operating pedal and lever and also, gear ratio of 4 WD manual transmission and detaild power system can be trained.
- Structure and operating principle of auxiliary device, steering, suspension system and actual body frame can be demonstrated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system : pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond and parts are coated for durability.
- 4 jack stands for safe and effective education, and motor speed control type structure.
- Single phase 220V 180W moror, 0~5.5 rpm,lamp, control box, additional safety device.
- The model is designed and manufactured according to ISO 9001 our company's technical spec.
- Product size ≒ (L) 390 × (W) 180 × (H) 150㎝, Wt ≒ 1,200kg

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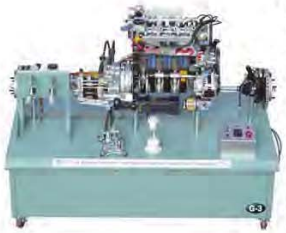
G-070303 F/F Automotive Power Train System Structure Educational Equipment



FEATURES

- Gasoline 2,000cc 4-cylinder, DOHC electric-controlled engine, front drive. Sonata by Hyundai Motor Co.
- It is educational equipment for understanding internal structure and operating principle of engine, clutch, transaxle, driver wheel by cross-sectioning components.
- Internal structure and operating principle of piston, valve, crank, etc. can be educated effectively by cross-sectioning cylinder and head, and exhaust system can be educated using 4-stroke 4-cylinder LED indicator.
- Block, head, starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, manifolder, etc. are cross-sectioned, and operated for better educational quality.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Single phase 220V 180W motor, 0~5.5 rpm, lamp, control box, additional safety device
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- A robust frame, made of steel and painted, can be easily moved and stopped by 4 wheels.
- Product size ≒ (L) 160 × (W) 94 × (H) 115cm, Wt ≒ 340kg

G-220101 Clutch & Manual Transaxles Structure Educational Training Equipment

FEATURES

- It is an educational equipment of manual FF type clutch and transmission for passenger car by cross-sectioning components.
- Operation of master cylinder, release cylinder, release fork, pressure plate, clutch plate, etc. can be seen when operating clutch pedal so that the operating principle of clutch can be educated efficiently.
- By manually operating transmission lever, transmission process and operating structure of main drive gear, synchronizers, N.1,2,3,4,5,R speed gear, output shaft, etc can be educated.
- It is very effective for education and understanding of gear function for each clutch, power transfer, gear ratio, etc.
- The education of clutch and transmission is easy with low speed rotation of AC 220V geared motor.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, lubricating system: yellow, etc.
- Exterior is painted by diamond, and parts are coated for durability.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder coated 4-wheel stand.
- Product size ≒ (L) 94 × (W) 64 × (H) 98cm, Wt ≒ 100kg

G-080301 Powertec CRDI Engine Transmission Exhibit Equipment

FEATURES

- 12,920cc 320HP 6-cylinder CRDI diesel Powertec engine, manual transmission structure for exhibition, heavy vehicle (bus, truck, etc.) by Hyundai Motor Co.
- It is exhibit equipment that shows operating process of internal components by cross-sectioning block, cylinder, and head of big-size CRDI diesel engine and also by motor rotation.
- Transmission, starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifolder, etc. are cross-sectioned, and operated for better educational quality.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank, and shaft can be controlled and it can be systematically educated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Control box, Single phase 220V geared motor, 4.5~5.5 rpm, lamp, additional safety device.
- Injection pump(EUI), ECU, unit injector, jake-brake, exhibit sensor module, timer module, and LED lamp for each stroke is installed.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 6-wheel stand, powder-coated
- Product size ≒ (L) 240 × (W) 120 × (H) 150cm, Wt ≒ 1,400kg

G-090502 BUS Engine Exhibit Structure Educational Equipment

FEATURES

- 6-cylinder 196~225HP diesel engine for bus and truck.
- It is exhibit equipment that shows operating process of internal components by cross-sectioning block, cylinder, and head of big-size diesel engine and also by motor rotation.
- Starting motor, alternator, air-conditioning compressor, fuel system, cooling system, lubricating system, intake system, exhaust system, manifolder, etc. are cross-sectioned.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank, and shaft can be controlled and it can be systematically educated.
- The model is painted by our company's detailed specifications for painting to enhance educational quality.Cut face: dark red, intake system: sky blue, exhaust system: pink, lubricating system: yellow, cylinder block: light black, cylinder head: silver, gasket: white.
- Exterior is painted by diamond, nickel, and chrome for exhibit effect.
- Single phase 220V 180W 4-pole motor, 4.5~5.5 rpm, control box, lamp, safety device, contro module
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- 4-wheel stand, powder-coated
- Product size ≒ (L)160 × (W)110 × (H) 150cm, Wt ≒ 624kg

G-280401 Diesel Fuel System Educational Training Equipment

FEATURES

- It is an educational training equipment of rotary distributor injection pump of Diesel fuel system.
- Components: fuel tank, fuel pipe, fuel supply pump, fuel filter, injection pump, high pressure pipe, injection nozzle, etc.
- Rotary distributor injection pump rpm is controlled by inverter and geared motor, and injection pressure, injection condition and injection amount for each line can be efficiently measured and educated.
- A special pipe and high pressure gauge of 150kg/㎠ are installed to 4 high pressure lines, which facilitates training education of checking injection pressure and analyzing high pressure pump operation.
- Theoretical education such as control of governor and timer, and maintenance training can be practiced systematically.
- Injection condition for individual nozzle can be seen and checked, and by exchanging injection nozzles, it can be compared and analyzed.
- Injection amount and condition can be seen through a transparent cylinder and it uses safe oil.
- Installation of fuel pressure gauge to in line of fuel pump facilitates education and 'built-in' fuel tank is installed.
- Color circuit diagram has excellent durability with an aluminum plate engraved with CNC.
- AC 220V, key, ON/OFF light, automatic breaker, fuse, safety switch,safety cover, etc.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Powder-coated, 4-wheel panel stand with 2-door cabinet.
- Product size ≒ (L)122 × (W) 50 × (H) 160cm, Wt ≒ 120kg

G-280501 In Line Plunger Injection Pump Structure Educational Model

FEATURES

- It is an educational model for understanding internal structure of in-line plunger injection pump of 6 cylinder direct nozzle by cross-sectioning components.
- Fuel supply pump, governor, timing device, cam shaft, roller tappet, plunger, in let port, and needle valve of nozzle are precisely cross- sectioned and manufactured for easy education.
- The operating principle of injection pump can be educated systematically and explained efficiently by manual operation.
- The model is painted by our company's detailed specifications toenhance educational quality.
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L) 49 × (W) 40 × (H) 44cm, Wt ≒ 21kg

G-280701 Rotary Distributor Injection Pump Structure Educational Model

FEATURES

- It is an educational model for understanding internal structure of rotary type distributor injection pump of 4 cylinder indirect nozzle by cross- sectioning components.
- Cam, plunger, rotor, inlet passanger, and needle valve of nozzle are precisely crosssectione and manufactured for easy education.
- The operating principle of injection pump can be educated systematically and explained efficiently by manual operation.
- The model is painted by our company's detailed specifications toenhance educational qualit
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L) 30 × (W) 20 × (H) 38cm, Wt ≒ 18kg

G-290501 Turbocharger Structure Educational Model

FEATURES

- It is an educational model for understanding internal structure of high output turbocharger by cross-sectioning components.
- Turbocharger rotates turbine by exhaust gas pressure, to rotate compressor and it provides air so that it enhances education of compressed air's supplying principle.
- Internal operating principle of 100,000~150,000rpm high speed rotary part can be seen by cross-sectioning components such as turbine, floating bearing, thrust collar, compressor, waste gate valve, etc. to facilitate education.
- The model is painted by our company's detailed specifications to enhance educational quality. Cut face: dark red, intake system: sky blue, exhaust system: pink, etc.
- The model is designed and manufactured according to ISO 9001 and our company's technical spec.
- Mirror stainless stand with adjustable base frame.
- Product size ≒ (L) 30 × (W) 20 × (H) 20cm, Wt ≒ 6kg

By order type

FEATURES

- Preceding Technology, Prototype Development Mock-up
- Exhibit Equipment
- Agriculture equipment, Heavy & Industrial Machinery
- Customized production by the requests of demanding side
- Development of all kind of exhibit products and test prototypes

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DYTEK 40/70/130 /230/400 Eddy Current Dynamometer - Machine

FEATURE

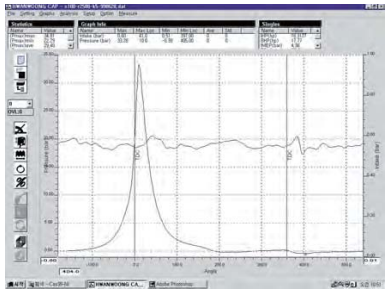
- The increasing demands to improve technology of vehicle test systems have become a major concern in line with the development of automotive industry all over the world. Leading suppliers strive ardous efforts to produce better engine related test equipment which is regarded as a basis in testing engines.

DYTEK 3100 Dynamometer Main Control System

FEATURE

- Our high quality engine dynamometer is the result of ceaseless research and expertise invested for more than 10 years in this field. Advanced know-how and skill in both precision and assembling assure us high competitiveness and therefore produce every year innovative latest systems with high stability and endurance.
- Every unit is subject to stringnt inspection to insure high quality and safety, Reliability precision and stability means our Dynamometer Controller

DYTEK 5200 Engine Combustion Analysis System



FEATURE

- Total S/W Package for Combustion Analysis
- Real Time Scanning & Graphic Display
- Real Time Measuring
- Pointing Zoom (Free Scale)
- Pressure Graphs
- Crank Angle Cylinder Pressure
- Crank Angle Intake
- Crank Angle Based Graphs
- P -㊀, P - V Curve, dp/d㊀ dQ/d㊀-㊀, x -㊀, Poly-㊀ ,Statistical Service : IMEP Cycle, Pmax/Pmin Cycle Pmax-Hist,Pmin-Hist, ㊀Cycle

DYTEK 6000 Automation System for Dynamometer

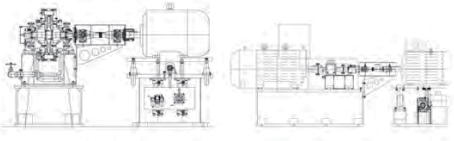
FEATURE

- Carrying out high speed integral data acquisition from engine performance test units, our auto measuring system features a wide range of capabilities in accurate data conversion, output in graphs and record by user's easier operation.
- In combustion chamber examination, it presents reliable measurement values of torque, engine speed, pressure, temperature, fuel consumption ratio and throttle on-off effect, etc. Computer base forms signal from sensor units, Interface measurement device, data acquisition board and built-in programmes.

DYTEK 7000 Motor Test Dynamometer

Motor Performance Test

- Rated Torque, Rated Current
- Max continuous Torque & Current
- Max moment Torque & Current
- Continuous Rating
- Periodic Rating, etc
- Adjustable height motor test table by electric hydraulic for each motor specification
- AC or EC Dynamometer is organized with dynamometer controller and auto driving software



Address : 24, Sinsan-ro, Sanin-myeon, Haman-gun, Gyeongsangnam-do, Korea
Homepage : www.dytek.co.kr

RH-R-1000

Standard Refrigeration trainer

Features

- The possibility of the experiment on temperature, pressure, automatic control and mechanical trouble
- The possibility of experiment and theoretical education related to automatic control ,refrigeration system and refrigerator accessories.
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- Theoretical education of efficiency test and experiment while operating
- The sequence screen attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation
- The control department is made up of visual lamps separated system from machine department
- Automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator: pin, Tube air-cooled type
- Evaporator chamber, damper
- Expansion Valve : manual type
- Liquid receiver : 1HP
- Accumulator : 1/2HP
- Electronic valve : 3/8" nut clamp type
- Manometer
- fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  595 * 595 Al
- Thermostat range: -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1200x730x1720mm
- Weight: 150kg

Machinery and Automobile Education

RH-R-2000

Refrigeration & Freezing trainer

Features

- The possibility of the experiment on temperature, pressure, defrosting auto control of automatic pressure control device and mechanical trouble
- A check of change of the refrigeration system according to expansion valve's shape and function with connecting expansion valve of other types
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- Theoretical education of efficiency test and experiment while operating
- The sequence screen attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation
- The control department is made up of visual lamps separated system from machine department
- Automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator: pin, Tube air-cooled type
- Evaporator chamber, damper
  320*350*500, damper
- Expansion Valve : manual type 1ea ,
  capillary tube type 1ea
- Liquid receiver : 1HP
- Accumulator : 1/2HP
- Electronic valve : 3/8" nut clamp type
- Manometer
- Fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  795 * 595 Al
- Thermostat range(7ea): -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1600x730x1720mm
- Weight: 180kg

Address : 73, Bugwon-ro 2425beon-gil, Wonju-si, Gangwon-do, Korea
Homepage : www.pos-tech.com

RH-R-3000

Heat Pump heat accumulation trainer

Features

- The possibility of the experiment on temperature, pressure, defrosting auto control of heat accumulation pump device and mechanical trouble
- The possibility of experiment and theoretical education related to automatic control, refrigeration system and refrigerator accessories .
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- Secondary heat exchange through heat accumulation tank
- The possibility of heat carrier's flow control and flow's quantity check
- Digital pressure switch (high and Low pressure) with the most accurate data
- Visual heat accumulation tanks by transparent acryl and cool-warm heat system with circulation part
- The structure to heat accumulation with heat pump and the design to know heat circulation or state and control
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator: Tube type Chamber
- Evaporator
- Expansion Valve : manual type
- Liquid receiver : 1HP
- Accumulator : 1/2HP
- 4way reversing V/V : welding type
- Check V/V
- Heat exchanger: tube type
- Electronic valve : 3/8" nut clamp type
- Manometer
- Fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  795 * 595 Al
- Thermostat range: -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1600x730x1720mm
- Weight: 150kg

Machinery and Automobile Education

RH-R-4000

Air handling unit trainer

Features

- The possibility of experiment on ventilation system (4-type) and cool - warm condition with heat pump
- Assistant heat source with heat pump and humidification for both cooling and heating water
- Humidification device made up of watering or air crossing type, inhalation and emission of conditioning damper and inside made up of inhalation and emission part
- The structure of humidified cooling or heating water according to user's temperature control
- The structure to operating system from outside and the structure to control inside temperature and humidity
- Automatic control by systematic temperature and humidity
- The sequence screen attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation
- The possibility of cutting the overload, working the pressure switch, alarm bell and a pilot lamp and safe operation with occuring the problem of a thermo-hygrostat
- Application to refrigeration system for compressor of variable types

Specifications

- Duct
- intake / exhaust/ return: transparency
- Blower: 2ea
- Water pump: 3ea
- Humidifier: spray type
- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator: pin, Tube air-cooled type
- Expansion Valve : manual type
- Liquid receiver : 1/2HP
- Accumulator : 1HP
- Electronic valve : 3/8" nut clamp type
- Manometer
- Fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  1205 * 600 Al
- Thermostat range: -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1850x700x1900mm
- Weight: 250kg

Address : 73, Bugwon-ro 2425beon-gil, Wonju-si, Gangwon-do, Korea
Homepage : www.pos-tech.com

RH-R-5000

Refrigerator system trainer

Features

- The possibility of the experiment on temperature, pressure, defrosting automatic control and mechanical trouble in the automatic pressure control device
- The comprehension of principle to refrigerator and study to refrigeration and cold system
- The experiment on cycle change of refrigeration equipment according to temperature from two parallel evaporators and Mollier diagram drawing in P-I diagram drawing part.
- Theoretical education of a fundamental circuit, application circuit and experiment with evaporation pressure control device
- The compatibility and expandability of the graphic module control
- Unlike separated system from machine department , the control department is visual automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator chamber: pin, Tube air-cooled type
- Evaporating Pressure Regulator:1EA
- Expansion Valve : manual type
- Liquid receiver : 1HP
- Accumulator : 1/2HP
- Electronic valve : 3/8" nut clamp type
- Fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  1205 * 600 Al
- Thermostat range: -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1800x730x1720mm
- Weight: 200kg

Machinery and Automobile Education

RH-R-6000

ICE-Maker system trainer

Features

- The possibility of the experiment on temperature, pressure, automatic control of the deice with Ice Acculmulation and mechanical trouble
- The comprehension of refrigeration system with Ice thermal storage and deice's principle
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- Theoretical education and experiment related to efficiency test of deice and Ice storage
- Theoretical education of a fundamental circuit, application circuit and experiment with Ice storage
- The sequence screen attached to the graphic module control department and powerautomatic control machine for experiment on temperature, pressure and automatic control and operation
- Unlike separated system from machine department , the control department is visual
- Automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP,
- Condenser : Air-cooled type
- Evaporator: pin, Tube air-cooled type
- Evaporator chamber, Brine tank
- Ice maker: cylinder type
- Brine pump: 1EA
- Expansion Valve : manual type
- Liquid receiver : 1HP
- Accumulator : 1/2HP
- Electronic valve : 3/8" nut clamp type
- Manometer
- Fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  795 * 600 Al
- Thermostat range: -40℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1600x730x1720mm
- Weight: 200kg

Address : 73, Bugwon-ro 2425beon-gil, Wonju-si, Gangwon-do, Korea
Homepage : www.pos-tech.com

RH-R-7000

Binary Refrigeration trainer

Features

- The possibility of the experiment on temperature, pressure, automatic control and mechanical trouble using cascade refrigeration
- The comprehension of refrigeration system with an extremely low temperature
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- Low temperature side's evaporator is range of between -50℃ and -70℃
- Theoretical education of a fundamental circuit, application circuit and experiment by cascade refrigeration system
- The sequence screen attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation
- Transparent accessories to observe refrigerant state or flow and principle of accessories
- The control department is made up of visual lamps separated system from machine department
- Automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1HP, 2ea
- Condenser : Air-cooled type
- Evaporator: Tube Air-cooled type
- Cascade: plate type heat exchanger
- Expansion Valve : manual type Capillary tube type
- Liquid receiver : 1HP
- Accumulator : 1HP
- Electronic valve : 3/8" nut clamp type
- Manometer
- fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
  795 * 600 Al
- Thermostat range: -80℃~100℃
- Pressure switch range:
  Low side: 0bar~5bar / High side: 5bar~30bar
- Size(LxWxH): 1600x730x1720mm
- Weight: 200kg

RH-R-7100

Two stage-expansion system trainer

Features

- Available to experiment and test by temperature or pressure control in two-stage compressing and expansion system.
- Using solo coolant for two-stage compressing and expansion system.
- As variable pressure at middle cooling device, available to check temperature change.
- The sequence screen attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation
- The experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- The control department is made up of visual lamps separated system from machine department
- Automatic control with graphic panel and two automatic control modules
- Data formation by data auto-saving and P-I diagram auto-operation in the system with control program

Specifications

- Compressor : 1/2HP 1ea, 1HP 1ea
- Condenser : Air-cooled type
- Evaporator: pin, Tube air-cooled type
- Evaporator chamber
- Middle cooler
- Expansion Valve : manual type
- Liquid receiver : 1/2HP
- Accumulator : 1HP 2ea
- Electronic valve : 3/8" nut clamp type
- Manometer
- fitting nipple
- Sight Glass
- Electric control module: DC24V
- Graphic module: digital DC24V
- Thermostat range: -50℃ ~100℃
- Pressure switch range:
  Low side: 0bar~5bar
  High side: 5bar~30bar
- Size(LxWxH): 1600x730x1720mm
- Weight: 200kg

RH-R-1100

Water Cooling Refrigeration Cycle System

Specifications

- SIZE : 1100 x 450 x 800
- Weight : 60kg
- Power : 230V, 50~60Hz, 1Phase
- Hermetic Compressor : 1/2Hp
- Condenser capacity : 3.3ℓ
- Evaporator capacity : 3.3ℓ
- Water Flow rate : 1~5ℓ /min
- Temp Display : 2point
- R-134A

Features

- Basic principle of water cooling system may be able to to an experiment which makes students understanding by applying water cooling system to condensation part and evaporation part.
- Experiment on condensed quantity of compressor discharge gas flowing into condensation part and experiment on heat exchange of heat media supplied for condensation are available.
- Experiment on evaporation quantity of coolant flowing in through expansion valve of evaporation part and experiment on heat exchange of heat media supplied for making variation of evaporation part are available.
- Pressure of low pressure part(evaporator) may be adjusted by applying manual expansion valve.
- As flow control of heat media flowing into condensation part and evaporation part is available, synchronous or separate experiment of condensation part and evaporation part may be executed, enabling various experiments of heat exchange.
- As coolant gas flows into transparent chamber directly, status change of coolant occurring at the heat change between inflow coolant and heat media flowing to heat exchanger may be observed.
- With pressure sensors attached to each part and temperature sensors attached to inlet and outlet, changes of overall status of experiment equipment may be checked.
- By application of pressure sensor and temperature sensor within transparent chamber, changes of status occuring at the heat exchange may be checked.
- Interfacing with a computer is available, which enables monitoring and saving of data generated in the experiment.
- Other Options
  1) Using built-in pump and tank, heat exchange quantity may be generated with cross circulation of heat media below normal temperature generated at heat media and evaporation part generated at condensation part.
  2) Applying thermostat system, the experiment may be executed while circulating heat media at certain temperature.

Address : 73, Bugwon-ro 2425beon-gil, Wonju-si, Gangwon-do, Korea
Homepage : www.pos-tech.com

HYWEL-350A

MULTI-FUNCTIONAL Welding machine

Features

- As inverter type welding machine, welding current & voltage are displayed digitally and waveform control is available by inverter. Minimized spatter.
- Embedded protecting circuit and self-diagnosis functions protect from detected abnormal vector.
- Low noise & stable current. Performing rapid welding by the low welding current under the high input current.
- Excellent duty circle
- Stable are start and constant current.
- Low spatters and dross by welding control signal and control power.
- Made by an International certified manufacturer such as ISO 9001
- Drastic reduction of spatter in entire current range
- Gas check, Select function for wire size and diameter
- Digital display for current and voltage
- Protection function for over current and over temperature

Specifications

CO_2 MIG/MAG	HYWEL-350A
Rated Input Voltage	1~3Φ 220/380V
Rated Input Power	17.5kVA (14kW)
Rated Output Current	350A
Rated Load Voltage	14 ~35V
Output range	40 ~350A
Welding Crater	
Output voltage range	14 ~35V
Welding Crater	
Duty Cycle	60%

AC TIG / DC TIG	HYWEL-350A
Rated output current(A)	350
Rated input TIG welding	1~3Φ 220/380V 11.8(9.4kW)
Manual arc welding(kVA)	13.5(10.8kW)
Rated duty cycle(%) (10minute duty cycle)	85
Welding current adjustment range TIG welding(A)	5 - 350
Manual arc welding(A)	5 - 290
Rated load voltage(V)	32
Low pulse frequecy(Hz)	0.5~15
Middle pulse frequency(Hz)	15~350
pulse width adjustment range(%)	15~85
After-flow time(Sec)	0.1~25

DC ARC	HYWEL-350A
Rated Output Current(DCA)	300
Rated Input Voltage(ACV)	1~3Φ 220 /380V
Rated Frequency(Hz)	50/60
Rated Input(kVA)	13(10.4kW)
No-Load Voltage(DCV)	80
Rated Load Voltage(DCV)	30
Rated Duty Cycle(%)	70

Machinery and Automobile Education

SMART-400A

LATHE

Specifications

ITEM		SFECIFICATION SMART-400A	
CAPACITY	SWING OVER BED	Φ 400	
	SWING OVER CARRIAGE	Φ 238	
	DISTANCE BETWEEN CENTER	750	1000
SPINDLE	SPINDLE NOSE (TYPE, NO)	A2-6	
	TAPER OF SPINDLE (TYPE, NO)	MT # 6	
	HOLE THROUGH SPINDLE	Φ 52	
	TAPER OF SPINDLE CENTER (TYPE, NO)	MT # 4	
	NO. OF SPINDLE SPEEDS	12 Steps	
	SPINDLE SPEEDS	45 - 1800 r.p.m	
CARRIAGE	MAX. TRAVELS OF CROSS SLIDE	250 mm	
	MAX. TRAVELS OF UPPER SLIDE	120 mm	
	SIZE OF BITE HOLDER (b * h)	20 * 20	
	TYPE OF TOOL POST	SQUARE TOOL POST	
FEED ANDTHREAD	LONGITUDINAL FEEDS (Z-AXIS)	32 Changes 0.059 - 0.831 mm/rev	
	CROSS FEEDS (X-AXIS)	32 Changes 0.019 - 0.271 mm/rev	
	METRIC THREAD	0.5 - 7 mm/p	
	INCH THREAD	4 - 56 θ/in	
	MODULE THREAD	0.5 - 7 mm/π	
	D.P. THREAD	4 ~ 56 π/in	
	LEAD SCREW	TM 32 * 6	
TAIL STOCK	DIA. OF TAIL STOCK SPINDLE	Φ 52	
	TAPER OF TAIL STOCK SPINDLE	MT # 4	
	MAX. TRAVELSE OF TAIL STOCK SPINDLE	150 mm	
MOTOR	MAIN DRIVE MOTOR	4P * 3.7kW (5HP)	
BED	WIDTH OF BED	300mm	
	LENGTH OF BED	1700	1950
MACHINE SIZE	FOOL SPACE REQUIRED (L*W*H)	2008 * 960 *1383	2258 * 960 *1383
	NET. WEIGHT(kg)	1400	1500

Address : 73, Bugwon-ro 2425beon-gil, Wonju-si, Gangwon-do, Korea
Homepage : www.pos-tech.com

YESA-1508

Hybrid Automotive structure actuated simulator

Feature and benefits

- Hybrid engine for educational structure equipment.
- The equipment is proper to explain each parts and operating principle of hybrid engine.
- Some of sections are cutaway and painted with different colors for educational effect.
- It is possible to check inside of hybrid engine by precise cutting
- The equipment has the same operating method with a real vehicle.
- Piston, Valve, Crank, hybrid transmission, inverter, battery and others are possible to check inside structure.
- The simulator is operated by each operating mode with manipulating touch panel of Kiosk.
- The condition will be output on monitor screen by connecting between Kiosk and simulator.

- Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

YESA-1503

Prius Hybrid Engine with Drive Shaft

Feature and benefits

- Hybrid engine for educational structure equipment
- The equipment is proper to explain each parts and operating principle of hybrid engine
- Operated by AC 220V motor like a real vehicle.
- Some of sections are cutaway and painted with different colors for educational effect
- It is possible to check inside of hybrid engine by precise cutting
- The equipment has the same operating method with a real vehicle
- Piston, Valve, Crank, hybrid transmission, inverter, battery and others are possible to check inside structure

- Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand > company.

Machinery and Automobile Education

YESA-1507

Prius Hybrid Transmission System with 6 different position control panel

Feature and benefits

- Hybrid engine for educational structure equipment and operating method
- The equipment is operated by motor, so it make it to adjust torque
- The equipment has various training method similar with real vehicle driving
- Easy to understand hybrid principle using real diagram on the panel
- The operating flow is shown with LED when the equipment is operated
- Understanding configuration and principle of hybrid power transmitting with exposure actual vehicle fram
- The flow of electricity is displayed by LED to understand hybrid operation easily
- Optionally adjusting the rotation of the motor to reproduce the operating conditions
- Can see operating conditions of hybrid car at a glance
- Use inverter to control motor speed and operate conditions
- Motor, Brake, Generator, battery, power control unit such as proper coordination friendly design for education

- Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

YESA-2812

Car Forecarriage with Mc Pherson Suspension Equipment

Feature and benefits

- Educational structure equipment for suspension system
- The equipment is proper to explain each parts and operating principle of suspension system
- Frame, Suspension, Strut bar, Steering gear, Brake disk, Reducer, handle
- Size : Approx. 1,800 X 1,200 X 1,700 (L x W x H, mm)
- Weight : Approx. 200kg

- Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

Address : #604, Samhwan Digital Venture Tower 52, Achasan-ro 15-gil, Seongdong-gu, Seoul, Korea
Homepage : www.yes01.co.kr

YESA-4901

Electronic Controlled Suspension (ECS) System with 4 real wheels

Feature and benefits

- The parts can be inspected and measured to be simulate so that can be checking when driving actual cars.
- ECS, ECU control terms G sensor in high speed and mobile-height adjustment in changing mobile-height are visible to the naked eye.
- Used for single fault diagnostic.
- Make actual vehicle for reduced model as like same condition
- Manufactured all switch signal same as actual vehicle.
- ECS and ECU control checking can be done when Accelerating from high-speed to constant speed.
- ECU control condition can be checked by installing check pin and switch.
- Installed pressure gauge to visible check the ECS control condition.
- Inner power supply: BAT 12V, variable motor
- In condition of installing engine and transmission, the ECS can be operated.
- Applied vehicles: manufactured by reduced EQUUS
- Data storage function, I/O device installation.

• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

YESA-4929

Automatic Transmission Training Equipment

Feature and benefits

- It is high standard educational system of automatic transmission.
- Effective understanding functions and operation principle when teaching auto transmission.
- Checking of rpm at gear transmission in auto mode and understanding of transmission type.
- Three phase 3HP motor operating equipment.
- The equipment are installed automatic transmission operating parts.
- Can be used by adjusting the grounding force of the wheel.
- Supplied theory manual with experiments.

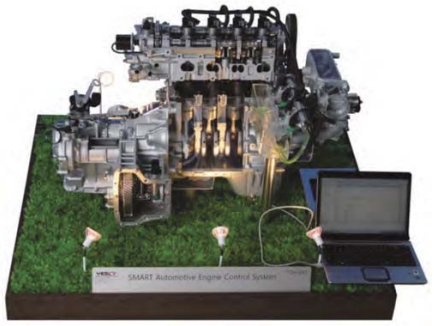
• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

Machinery and Automobile Education

YESA-1001

SMART Automotive Engine Control System



Feature and benefits

- A training equipment enabling education with naked eyes using precisely sectioned engine + gearbox of real vehicle of 1500cc or above grade with direct ignition and injection
- A training equipment to educate by adjusting the amount of fuel injection and timing of ignition of the equipment after connecting fuel injection and ignition system with a PC and manipulating the program according to the condition of engine operation
- Supplying ECU circuit, ECU program, source and textbook
- Available Experiments
  1. Control Fuel Injection, Ignition
  2. CPS signal modulation
  3. ISG control function
  4. Abrupt acceleration & deceleration control
  5. Control fuel pump control
  6. Starting control
- Supplied User Manual with theory

• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

YESA-1002

UVO Smart Control System

Feature and benefits

- The all Automotive sensors controlled by Smart Phone through YES01 application software.
- A convenient application for an autocar to perform parking check, air conditioning control, door control, horn control, escort light control, remote door opening control, wiper and trunk manipulation with a smart phone.
- Opening and Closing of car door may be checked with naked eyes through LED display.
- Using a small size motor, RPM of the equipment may be controlled to perform door lock function.
- Headlight and taillight are manufactured so that the condition may be checked using LED. By installing diagnostic terminals at each movable part, the state of operation may be diagnosed.
- Supplied with theory & student experiment manual

• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

Address : #604, Samhwan Digital Venture Tower 52, Achasan-ro 15-gil, Seongdong-gu, Seoul, Korea
Homepage : www.yes01.co.kr

YESA-3300

Hybrid LPI engine diagnostic simulator

Feature and benefits

- Manufacturing hybrid starting simulation with Avante 1.6 engine, Hybrid control Unit.
- Attached sensor of slant angle, brake boost pressure
- To check the operation such as start of hybrid engine, power support by idle or slow move, driving force support when speed up, energy retrieve decreasing speed (battery charge) with brake switch
- With the center of HCU (hybrid control unit), connect each control unit, ECU, TCM, BMS ECU, MCU, LDC with CAN communication.
- Panel display engine start - engine status
- With diagnosis equipment, check sensor, short circuit, failure diagnosis and output power
- Display panel, ECU circuit, education check terminal and toggle switches are set up in the front control panel, it is convenient to check failure, diagnosis, test and experiment.
- Supplied with theory & student experiment manual

• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand >company.

YESA-4530

Electric Vehicle Training Equipment

Feature and benefits

- Checking the power supply
- Checking the sensors
- Checking the actuators
- Determining the influence of the different sensors on the different actuators
- Recording and evaluating the control of the actuators with regard to the input information
- Representing the pressure conditions with regard to the sensor signals and the engine speed
- Representing, recording and evaluating errors which occur in practice
- Supplied with theory & student experiment manual

• Remark

- Supplied by YES01, the company that has certification for ISO9001
- Seoul Metropolitan Government and Seoul Business Agency certify that YES01 is a < Hi Seoul Brand > company.

Machinery and Automobile Education

YESA-1101T

Engine and Transmission with Control System

Feature and benefits

- An educational training equipment for teaching inner structure and performance property of gasoline engine, transmission, clutch, transaxle, and others using cross-section of components.
- Operating speed of internal components such as valve, piston, intake and exhaust system, crank, and shaft can be controlled and it can be systematically educated.
- Manual operation of clutch enables transmission.
- Engine: 1,800~2,000cc, gasoline, 4-cylinder, DOHC
- Single phase 220V 180W powered motor drive with various rpm, control box, and lamp,
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

• Remark

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YESA-4801

Electric Vehicle with Test System

Feature and benefits

- Without operating real automotive.
- Diagnosis system shall provide fundamental diagnosis and failure checking features by modifying common settings of an electric car.
- Simulator shall be manufactured so that handling sense and follow-up experiment by mounting the steering system.
- Analysis on waveform measured with environment metering system shall be available using oscilloscope and spectrum.
- Trainees may actually execute test operation of vehicle, deletion of defective code, direct checking of vivid built-in data, command of acknowledge against sensor and actuator using laboratory use tools and so on.
- Using built-in database, trainees are able to check typical comparative data through data and component.
- Supplied User Manual with theory & Experiment

• Remark

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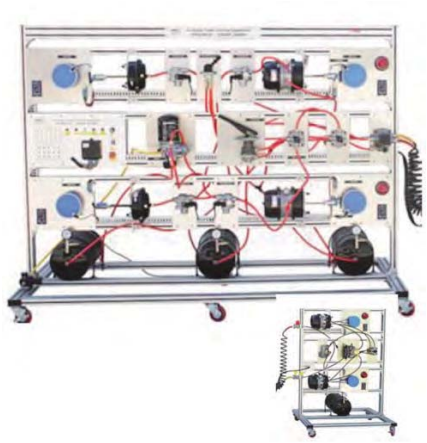
YESA-4915

Air Brake Training Equipment_ Heavy Trailer Type



Feature and benefits

- Trailer air brake system
- Using motor, rotation and speed of the wheel are controlled.
- Actual operation and test by mounting every parts of Air Tank and Air Brake System
- Training of brake and side brake operation status and air line wiring
- Confirmation of actual parts by using names of each part
- Effective control of air brake operation during every movement of air brake and vehicle traveling
- Supplied User Manual with theory

- Remark

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YESA-4912

Air Brake System Training Equipment

Feature and benefits

- Truck air brake system
- Using motor, rotation and speed of the wheel are controlled.
- Actual operation and test by mounting every parts of Air Tank and Air Brake System
- Training of brake and side brake operation status and air line wiring
- Confirmation of actual parts by using names of each part
- Effective control of air brake operation during every movement of air brake and vehicle traveling
- Supplied User Manual with theory

- Remark

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Machinery and Automobile Education

YESA-2611

Injection Pump with 6 Cylinders in line and Speed Control panel

Feature and benefits

- Educational structure equipment for diesel inline injection pump
- The equipment is proper to explain each part and operating principle of diesel injection pump
- Some of sections are painted with different colors for educational effect
- In-line diesel injection fuel pump
- Size : Approx. 500 X 400 X 400 (L x W x H, mm)
- Weight : Approx. 20kg

- Remark

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YESA-4240

Gasoline Fuel Injection System with EOBD

Feature and benefits

Includes all injection parts used in gasoline engines.

- Includes: fuel pump, fuel tank, pressure regulator, ruler, injectors, fan, crank gear, cam gear, and testers to show fuel injection.
- Ignition circuits : coil, spark plugs, and air inlet.
- Ability to discover faults using multi-meters to measure resistance and voltage of all sensors including temperature sensor, oxygen sensor, air volume sensor, air temperature sensor, engine temperature sensor, exhaust sensor, crank sensor, and cam sensor.
- All electronic circuits for ECU unit for electronic control of the circuit.
- On stand including cabinet with 4 wheels.
- Optional Function: touch screen that can be used to teach all parts of the equipment using sound and Animation with questions to evaluate each student and ability to control and generate faults.

- Remark

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YESA-3330

Gasoline Engine Diagnostic Simulator_ Auto Fault

Feature and benefits

This equipment can make up to 20 faults diagnosis training of Gasoline engine using AutoSim system.

- The simulator is manufactured for effective training with ergonomic design and also the control panel is able to adjust degree 3 stages
- The control panel is able to open for inside circuit structure training, and 2 lock-up system are attached on back side for teacher's training purpose
- Stages PCB board is consist of keyboard, relay board, slave board, there for strong from heat and has good durability.
- Supplied the simulation software that is consist of insert automotive 20 kinds Faults, display, 8 different Theory power point, Animation.
- It is able to training for student level with 20 kinds of different fault at the same time insertion
- Supplied theory and 10 kinds of exercise manual

• Remark

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YESA-3301

CRDI Engine with Turbo-Intercoller, Diagnostic Simulator-Auto Fault

Feature and benefits

This equipment can make up to 20 faults diagnosis training of diesel engine using AutoSim system.

- The control panel is able to open for inside circuit structure training, and 2 lock-up system are attached on back side for teacher's training purpose
- Stages PCB board is consist of keyboard, relay board, slave board, there for strong from heat and has good durability.
- Supplied the simulation software that is consist of insert automotive 20 kinds Faults, display, 8 different Theory power point, Animation.
- It is able to training for student level with 20 kinds of different fault at the same time insertion
- Supplied theory and 10 kinds of exercise manual

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Machinery and Automobile Education

YESA-3000

ECU Control and Diagnostic Training for Real Vehicle

Feature and benefits

- It is the purpose to maintenance and diagnosis of vehicle from
- The simulator is able to training components and operating state which are difficult to check inside by open the parts.
- Supplied control unit including various check points for education and diagnosis with scanner.
- Checking by self-diagnostic
- Controlled by electronically gasoline engine tune-up
- Measurement exhaust gas, cylinder compressed pressure
- Measurement pressure and leak of radiator cap.
- Operating test for fuel pump and oil pressure.
- Measurement current and voltage of front circuit such as charging, starting and various types.
- Connector check terminal for inspection sensor and actuators
- Checking air intake and exhaust system
- Checking fuel system, front panel, ECU
- Checking cooling system, belt, and pump
- Checking and maintenance any other systems
- Adjustment timing chain and tension of fan belt

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YESA-4610

Automotive Air Conditioning Simulator with Heavy Engine

Feature and benefits

- The simulator is manufactured for effective training with ergonomic design and also the control panel is able to adjust degree 3 stages
- The control panel is able to open for inside circuit structure training, and 2 lock-up system are attached on back side for teacher's training purpose 3 stages PCB board is consist of keyboard, relay board, slave board, there for strong from heat and has good durability.
- Supplied the simulation software that is consist of insert automotive 20 kinds Faults, display, 8 different Theory power point, Animation.
- It is able to training for student level with 20 kinds of different fault at the same time insertion
- Supplied theory and 10 kinds of exercise manual

• Remark

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YESA-4234

Ignition System Bench type

Feature and benefits

- The equipment is effective training about ignition system and operating principle.
- 6 type of ignition system are able to compare the evolution for education and training.
- Sensor checking mode is able to do inspection about voltage and resistance of various sensor by change data and can be training logical maintenance method to meet understanding of sensor and exercise concurrently by practice manual.
- Ignition system is mounted on the panel and also attached power supply and wiring for understanding whole system
- The Equipment is composed of system which is can make wiring exercise and checking waveform with installing sensor, circuit, connecting terminal by parts.
- Data of RPM speed and changes are check with controller adjustment
- Understanding the overall flow of the circuit and to solve problem with understanding of cause and change.
- Ignition circuit panel is showed on aluminum board by CNC

- Remark

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YESA-4241

Diesel Fuel Injection System with EOBD control panel

Feature and benefits

- Includes all injection parts used in diesel engines.
- Power supply: 220V
- Shows the cycle from taking the fuel from the tank until
- its injected into the tubes (testers).
- Shows all the sensors for the diesel injection circuit for diesel engines.
- Includes: operating key, voltage display, LED indicators for faults, fuse box for all parts.
- Ability to discover faults using multi-meters to measure resistance and voltage of all sensors including camshaft sensor, crankshaft sensor, oxygen sensor, air inlet sensor, temperature sensor, water temperature sensor.
- All electronic circuits for ECU unit for electronic control of the circuit.
- On stand including cabinet with 4 wheels.
- Optional Function: touch screen that can be used to teach all parts of the equipment using sound and Animation with questions to evaluate each student and ability to control and generate faults.

- Remark

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Machinery and Automobile Education

YESA-1401

CRDI Power Train Chassis_FR manual, 4WD

Feature and benefits

- FR manual type transmission, power train system of diesel engine for cut-way model
- The equipment is proper to explain each parts and operating principle of power train system
- It is possible to check inside of power train by precise cutting
- Some of sections are cut-way and painted with different colors for educational effect
- Operated by AC 220V motor like a real vehicle
- Brake lining / Replace pad and tuning
- Replace oil filter
- Replace other various belts and control tension
- Replace suspension and spring
- Replace tire
- Attach / Detach fuel pump and inspection

- Remark

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YESA-1300

CRDI Diesel Engine System with stand_DOHC type

Feature and benefits

- 2,000cc DOHC gasoline engine for educational structure equipment
- The equipment is proper to explain each parts and operating principle of gasoline engine
- Some of sections are cut-way and painted with different colors for educational effect
- It is manufactured with the same operating method like a real vehicle
- It is operated such as real vehicle and possible to check inside of engine by precise cutting
- Piston, Valve, Crank and others are possible to check inside operating
- Replace timing belt and other various belts / Control belt tension
- Attach / Detach generator and starting motor
- Replace oil filter

- Remark

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YESA-1402

Diesel Power Train Chassis_FR manual, Lighting system

Feature and benefits

- Effective learning of inner structure and operating principle of piston, valve, crank, and others. is available using cross-sectioned head of 4-stroke 4-cylinder engine.
- Inner structure of clutch, 5 stages manual transmission, differential gear, brake system, and others may be checked by directly manipulating pedal and lever, and also, gear ratio of 4 Wheel Drive manual gearbox and detailed power system may be taught successfully.
- Single phase 220V, 180W motor with various rpm, two lamps, control box, and separate safety device.
- Supplied User Manual with theory

- Remark

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YESA-1106

V-6 Gasoline Engine System with 360 degree turntable

Feature and benefits

- An educational structure which may be operated by a motor with block, cylinder, and head of cross-sectioned V-type engine.
- An excellent demonstration effect using an engine stand device to rotate crank and shaft with a motor rotating synchronously.
- The product has superior durability with planting treatment.
- Gear part of the motor is heat treated and durable against prolonged training and exhibition.
- Driving speed of engine may be controlled by adjustment of engine driving motor.
- Gasoline, 3,000cc, V 6-cylinder, electronic-controlled engine
- Single phase 220V 180W 4-pole motor, 0~5.5 rpm, stand, 4-pole 250W motor with various halogen lamp, control box, control module, additional safety device
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

- Remark

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Machinery and Automobile Education

YESA-4311

Automotive Central Locking System Simulator

Feature and benefits

- All sensors and actuators should be installed on the trainer panel, full data measurements needed should be taken from the control, OBD II data link connector should be provided, should be able to demonstrate the total construction and operation of automotive “central locking system”, Should be able to measure the input and output data of each sensors and actuators , all measurement points should be accessible for the use of multi meters, oscilloscopes, should be able to study the principles of analog / digital conversion
- Supplied User Manual with theory

- Remark

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YESA-4101

Automotive Accessories with Electric circuit _ Gasoline Engine, Battery, Folding Panel Type

Feature and benefits

- Half folding type panel should be reduced freight cost.
- The structure design that is can be understanding overall wirings of vehicles easily.
- Installing movable wheels to move easily.
- Available checking circuits
  - installed ignition circuit, charging circuit, direction instructions and emergency light, horn circuit, door-lock circuit, headlight circuit, wiper circuit, starting circuit, Fuel circuit, Automatic mission circuit and sidelight circuit, antenna circuit, audio system circuit, variable sensor and switch, ECU, key box, combination switch and relay box, battery, combination switch relay, fuse box and fuel tank light.
  - Distributor, wiper is operated normally using motor and the spark is visible to the naked eye.
  - Steering wheel, surge tank, throttle body, injector A/S and AFS etc are working normally.

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YESA-4951

Electronic power steering and Suspention Simulator

Feature and benefits

- The parts can not be inspected and measured to be simulate so that can be checking when driving actual cars.
- Installed ECU, vehicle speed sensor, solenoid valve and power steering education of electronic control rate response, flow control method can be done.
- EPS system used in educational equipment.
- Using fault diagnose type of variable single part.
- Manufactured all switch signal same as actual vehicle.
- User can randomly control sensor and actuator values and the I/O values.
- Driving power pump by using motor.
- It is composed power pump, pressure pipe, control valve, chamber left-right rack, servo cylinder, wheel etc.
- Installed KEY, TPS, inverter, cluster, diagnostic connector, circuit panel.

- Remark

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YESA-3151

Body electrical System simulator

Feature and benefits

- Automotive body electrical system simulator.
- Substantial, realistic, practical and durable to maximize educational effect in the electric field of vehicle.
- Input/output and coil are manufactured same as those of real vehicle using general relay.

- Remark

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Machinery and Automobile Education

YESA-2960

Gasoline Engine with stand_Assemble and Disassemble

Feature and benefits

- With a system having a robust main shaft brake and NC100:1 inner rotating device, this engine stand is manufactured into a safe and patented product with no vibration. Gasoline ENG practice equipment
  1) Stroke : 4 Stroke gasoline engine
  2) Cylinder : 4 Cylinder Cam Shaft type
  3) Cooling : Water cooling system
  4) Engine
  - HP: over 1500CC
  - Engine rotary stand for 100:1(Installed safety break)
  - 360 degree rotating main axle break installed
  - Weight adjusting range: 180mm~430mm
  - Weight capacity: under 500ßÎ, under 4tab 700kg with additional buttress
- Gasoline Engine Assembly/Disassembly Training Equipment.
- Supplied User Manual with theoryl

- Remark

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YESA-2982

CRDI Diesel Engine with stand_Assemble and Disassemble

Feature and benefits

- With a system having a robust main shaft brake and NC100:1 inner rotating device, this engine stand is manufactured into a safe and patented product with no vibration..
- Diesel ENG practice equipment
  1) Stroke : 4 Stroke Diesel engine
  2) Cylinder : 4 Cylinder Cam Shaft type
  3) Cooling : Water cooling system
  4) Engine
  - Engine rotary stand for 100:1(Installed safety break)
  - 360 degree rotating main axle break installed
  - Weight adjusting range: 180mm~430mm
  - Weight capacity: under 500ßÎ, under 4tab 700kg with additional buttress
  - Engine assemble with safety and stable structure
- Diesel Engine Assembly/Disassembly Training Equipment.
- Supplied User Manual with theory
- Remark

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YESA-5200

Heavy Machinery Axle Equipment

Feature and benefits

- The model is painted with different colors to better differentiate the various parts.
- Differential gear of heavy vehicles may be checked with naked eyes and educated.
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

YESA-5201

Tractor Front Axle Equipment

Feature and benefits

- An educational system to understand the structure of front axle of a tractor using cross-sectioned components.
- Aluminum control box comprsing AC 220V, motor-operated system with various rpm, circuit breaker, fuse, emergency switch, power lamp is provided.
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

YESA-2710

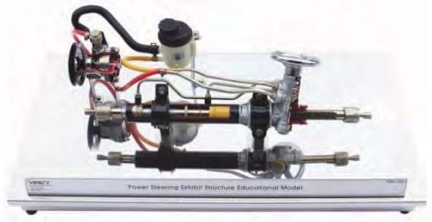
Diesel Alternator Model

Feature and benefits

- Effective learning of inner structure of power steering pump and cylinder system using cross-sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2501

Power Steering Model_Ball circulation



Feature and benefits

- Power steering is cut precisely to understand operating relationship of rack pinion, operating concept of power pump and operating structure at the transmission of the driving power.
- Sight glass, suction accumulator, high and low pressure transducer, high and low pressure gauge, high /low pressure switch, head pressure control valve, controller, O/I board box, load center.
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

Machinery and Automobile Education

YESA-2804

Universal Joint Model

Feature and benefits

- Effective learning of the principle of universal joint and rotational angle during off-axis operation.
- Operation mechanism
- Operation structure of manual type universal joint can be understood.
- The model is painted with different colors to better differentiate the various parts.
- Supplied User Manual with theory

YESA-2306

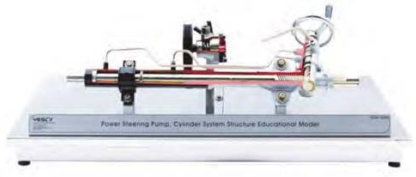
Drum Brake Model

Feature and benefits

- Effective learning of inner structure and operating principle of drum brake and wheel cylinder using cross-sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2503

Diesel Engine Fuel Injection Pump



Feature and benefits

- Effective learning of inner structure of power steering pump and cylinder system using cross-sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2202

Auto Rear Drive Type Transmission

Feature and benefits

- Effective learning of inner structure of F/R type passenger car's 4 speed automatic transmission.
- Rear wheel auto transmission and torque converter are cut precisely to understand structure
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

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YESA-2611

Injection Pump with 6 Cylinders in line and Speed Control panel

Feature and benefits

- Effective learning of inner structure of in-line plunger injection pump of 6 cylinders direct nozzle using cross-sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2637

Involute Gear Pump Model

Feature and benefits

- Effective learning of inner structure of engine's in volute gear pump using cross sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2714

Worm Gear Model

Feature and benefits

- Effective learning of Operating concept and structure of warm gear within the reduction gear
- Operating relationship may be checked with naked eyes by manual driving.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

YESA-2715

Turbocharger - Intercooler Model

Feature and benefits

- Effective learning of inner structure of intercooler and turbocharger for high output using cross-sectioned components.
- The model is painted with different colors to better differentiate the various parts.
- Available to select stand type of wooden, steel, and mirror stainless by customer.
- Supplied User Manual with theory

Machinery and Automobile Education

YESA-1202

4 Stroke Gasoline Engine

Feature and benefits

- 4 stroke engine for educational structure equipment
- The equipment is proper to explain each parts and operating principle of 4 stroke engine
- Some of sections are cut-way and painted with different colors for educational effect
- It is manufactured with real 4 stroke engine and possible to check inside of engine by precise cutting
- Piston, Valve, Crank and others are possible to check inside operating
- For display

- Remark

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YESA-1200

2 Stroke Gasoline Engine

Feature and benefits

- 2 stroke engine for educational structure equipment
- The equipment is proper to explain each parts and operating principle of 2 stroke engine
- Some of sections are cut-way and painted with different colors for educational effect
- It is manufactured with real 2 stroke engine and possible to check inside of engine by precise cutting
- The equipment has the same operating method with a real vehicle
- Piston, Valve, Crank and others are possible to check inside operating
- For display

- Remark

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