

DAFTAR HARGA PRODUK PT. GUSRIMAN PRIMA JAYA
TAHUN 2022

NO	NAMA PRODUK	SPESIFIKASI	KODE	HARGA	NO	NAMA PRODUK	SPESIFIKASI	KODE	HARGA
1	2	3	4	5	6	7	8	9	10
1	Trainer Elektrokimia Listrik Energi Kimia	Merek : ELAG - Type/Seri : HD-ISO1 - Negara Asal : INDONESIA - Dimensi/Berat : Panjang 60 cm, Lebar 24 cm, Tinggi 40 cm, Berat 7 Kg. - Frame : Bahan MDF Warna Merah - Lampu Air Garam Type SWL01 Merek HEI 1 Unit - Panel Display Bahan Acrylic 1 Unit - Display Driver dan PCB LED 8 Titik x 0.2 Watt 1 Set - Tabung Modul 4 Set, Botol Takaran Air Garam 2 Pcs. - Voltmeter & Amperemeter 1 Set, Luxmeter 1 Unit (Merek Opsional) - Jobsheet SDML, SMP/MTS, SMA/MA dan SMK 1 Paket - Buku Petunjuk Operasional dan Kartu Garansi 1 Set	G-1	Rp 15.500.000	10	Vacum Ball Transfer Application with PLC & HMI Control	PLC CPU unit (OMRON CP1E-N20DR-A)* HMI unit (OMRON NB5Q)* PLC input PLC output Indicator lamp Input switches (push button) Application Input/output (compatible with automation trainer) Power supply unit (Input: 220VAC, Output: 24VDC) - PLC: 20 I/O (12input/8output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	G-6	Rp 43.956.000
2	Scada System with Application Trainer	Actuators: Gripper, Double acting cylinder, Linear slide system, Induction motor and inverter - Sensors: Photo sensor, Magnetic sensor, Induction sensor - Controller: PLC, HMI and computer PC Workpiece : Aluminium and plastic Connector : I/O board with DB terminal - Frame : Aluminium profile combine with nylon sheet Base plate : Aluminium plate Air pressure : 4-6 bar Source : AC 220V/50-60Hz	G-2	Rp 178.820.000	11	Assembling & Sorting Application with PLC Control	Description -PLC CPU unit (OMRON CP1E-EPOS DR-A)* -Indicator lamp -Input switches (push button) -PLC input -PLC output -Power supply unit (Input: 220VAC, Output: 24VDC) -Application Input/output (compatible with automation trainer) Specification - PLC: 20 I/O (12input/8 output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug Box: Medium density fiberboard, paint coating Accessories : Jumper cable, power cable, USB cable - Dimension : 40x23x10 centimeter (WxLxH) * Note PLC brand and model can be costumed by order.	G-7	Rp 59.940.000
3	Scada System with Application Trainer	Training contents : - Setting parameter for process control - Analysis of process sequence - Identification of I/O unit - Defining process for feeding and sorting - Programming PLC sequence control system - Programming HMI control system -Setting parameter of Inverter - Supervisory and monitoring system Specification : - Actuators: Gripper, Double acting cylinder, Rotary actuator, Induction motor and inverter Sensors: Photo sensor, Magnetic sensor, Induction sensor - Controller: PLC, HMI and computer PC - Workpiece : Aluminium and plastic - Connector : I/O board with DB terminal - Frame : Aluminium profile combine with nylon sheet Base plate: Aluminium plate - Air pressure : 4-6 bar Source: AC 220V/50-60Hz	G-3	Rp 159.840.000	12	Assembling & Sorting Application with PLC & HMI Control	Description -PLC CPU unit (OMRON CP1E-N20DR-A)* -HMI unit (OMRON NB5Q)* PLC input PLC output Indicator lamp Input switches (push button) -Application Input/output (compatible with automation trainer) -Power supply unit (Input: 220VAC, Output: 24VDC) Specification -PLC: 20 I/O (12input/8 output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	G-8	Rp 65.934.000
4	Metal & Non Metal Sorting Application with PLC & HMI Control	Actuators: Gripper, double acting cylinder, rotary actuator Sensors: Photo sensor, magnetic sensor, inductive sensor I/O: 9sensors/4 actuators Workpiece : Aluminum and plastic Frames/supports: Aluminum profile, nylon plastic, sheet metal Connectors: I/O board (compatible with PLC Trainer 1, box version) Dimension: 42x30x30 centimeter (WxLxH) Air pressure: 4-6 bar (0.4-0.6Mpa) Sensors & valve power supply 24 VDC -PLC CPU unit (OMRON CP1E-N20DR-A)* -HMI unit (OMRON NB5Q)* -PLC input -PLC output -Indicator lamp Input switches (push button) -Application Input/output (compatible with automation trainer) -Power supply unit (Input: 220VAC, Output: 24VDC) - PLC: 20 I/O (12input/8output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	G-4	Rp 57.720.000	9	Vacum Ball Transfer Application	/ Training contents - Setting parameter for process control Analysis of process sequences - Programming PLC sequences control System / Workflow Transfer ping pong ball from lower position to higher position, using vacuum pad, double acting cylinder and rotary actuator. / Specification - Actuators : Vacuum pad, double acting cylinder, rotary actuator - Sensors: Photo sensor, magnetic sensor - I/O : 5 sensors / 3 actuator - Frames/supports: Aluminum profile, nylon plastic, sheet metal. - Connector : I/O Board (compatible with PLC Trainer 1, box version) - Dimension : 42x30x35 Cm (WxLxH) - Sensors & valve power supply : 24 VDC	G-9	Rp 23.976.000
5	Vacum Ball Transfer Application with PLC Control	MECHANICAL SPESIFICATION Training contents - Setting parameter for process control - Analysis of process sequences - Defining proses for sorting - Programming PLC sequences control System Workflow Transfer ping pong ball from lower position to higher position, using vacuum pad, double acting cylinder and rotary actuator. Specification - Actuators : Vacuum pad, double acting cylinder, rotary actuator - Sensors: Photo sensor, magnetic sensor - I/O : 5 sensors / 3 actuator - Frames/supports: Aluminum profile, nylon plastic, sheet metal. - Connector : I/O Board (compatible with PLC Trainer 1, box version) - Dimension : 42x30x35 Cm (WxLxH) - Sensors & valve power supply : 24VDC CONTROLLER SPESIFICATION: Description -PLC CPU unit (OMRON CP1E-EPOS DR-A)* -Indicator lamp-Input switches (push button) -PLC input -PLC output -Power supply unit (Input: 220VAC, Output: 24VDC) -Application Input/output (compatible with automation trainer) Specification - PLC: 20 I/O (12input/8 output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug Box: Medium density fiberboard, paint coating Accessories - Jumper cable, power cable, USB cable - Dimension : 40x23x10 centimeter (WxLxH) * Note PLC brand and model can be costumed by order.	G-5	Rp 33.966.000	10	Metal non Metal Sorting Application Trainer	/ Training contents - Setting parameter for process control - Analysis of process sequences - Defining proses for sorting - Programming PLC sequences control System / Workflow Transfer workpiece from magazine to storage and separate between metal and non metal using gripper, double acting cylinder and rotary actuator / Specification - Actuators: Gripper, double acting cylinder, rotary actuator - Sensors: Photo sensor, magnetic sensor, inductive sensor - I/O: 9sensors/4 actuators - Workpiece : Aluminum and plastic - Frames/supports: Aluminum profile, nylon plastic, sheet metal - Connectors: I/O board (compatible with PLC Trainer, box version) Dimension: 42x30x30 centimeter (WxLxH) - Air pressure: 4-6 bar (0.4-0.6Mpa) - Sensors & valve power supply 24 VDC	G-10	Rp 29.970.000

1	2	3	4	5	6	7	8	9	10		
11	Assembling and Sorting Application Trainer	Training contents - Setting parameter for process control - Analysis of process sequences - Defining process for assembling -Defining process for sorting -Programming PLC sequences control system Workflow Assembly small workpiece into large workpiece and transfer workpiece to storage and separate between metal and non metal using gripper, double acting cylinder and linear slide system Specification -Actuators : Gripper, double acting cylinder, linear slide system -Sensors : Photo sensor, magnetic sensor, inductive sensor - I/O: 11 sensors/6 actuators - Workpiece : Aluminium and plastic - Frames/supports: Aluminium profile, nylon plastic, sheet metal -Connectors : I/O board (compatible with PLC Trainer, box version) -Dimension : 42x30x35 centimeter (WxLxH) - Air pressure : 4-6 bar (0.4-0.6 Mpa) - Sensors & Valve power supply : 24VDC	G-11	Rp	45.954.000	16	Hydarulic Training Unit (Whole set)	Component : Hydraulic power unit Pressure gauge Pressure distributor Return distributor Relief valve 4/3 Way double sol. valve 4/2 Way single sol. valve Double acting cylinder Hydraulic motor Pressure switch Limit switch Proximity sensor Speed control 3 Way distributor Relay module Timer module PLC Power supply unit Specification : -Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Frame : Aluminium profile, hollow 40x40 - Accessories : Jumper cable, power cable, hydraulic hose, fittings, quick coupler - Dimension : 180x60x160 centimeter	G-16	Rp	349.650.000
12	Fundamental Of Electrical machine	Voltmeter AC Star Delta Switch Amperemeter AC Motor Starter Unit Control Brake Resistive Load Voltmeter DC Rheostat For Field Regulation Amperemeter DC Rheostat For Armature Reg. Rectifier Circuit Single Phase Transformer Main Switch Three Phase Transformer Pole Changing Brake Machine Electrical Machine DC Motor, Single Phase Motor, 3 Phase Motor, Dual Speed Motor Specification: Frame : -Aluminium profile & square hollow pipe - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable - Dimension : 108x70x180 centimeter (WxLxH)	G-12	Rp	209.790.000	17	Valve Cross Section (Pneumatic & Hydraulic)	Description: 4/2 Way single solenoid hydraulic valve 4/3 Way double solenoid hydraulic valve 4/3 Way double solenoid hydraulic valve 3/2 Way single solenoid pneumatic valve 5/3 Way single solenoid pneumatic valve 5/3 Way double solenoid pneumatic valve Specification: - Frame : Square hollow pipe - Module board : Acrylic 4mm, full colors printing - Dimension : 75x30x55 centimeter (WxLxH)	G-17	Rp	25.974.000
13	Inverter Trainer	Inverter Unit Indicator Lamp Voltmeter & Amperemeter Motor Revolution Sensor Pulse Meter Analog Signal Potentiometer Switches Three Phase Motor Specification: - Frame : Aluminium profile - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Accessories : Jumper cable - Dimension : 60x30x50 centimeter (WxLxH) *Note : Inverter brand and model can be customized by order.	G-13	Rp	29.970.000	18	PLC Trainer (Suitcase)	Description 1 PC CPU unit (OMRON CP1E-E2OSDR-A)* 2 PLC input with digital switch 3 PLC output 4 Indicator lamp 5 Input switches (push button) 6 Emergency stop 7 Rotary switch 8 Relay 9 Traffic light simulator 10 Sensor 11 Power supply unit (Input: 220VAC, Output: 24VDC) Specification - PLC: 20 1/0 (12input/5output), output relay, direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Accessories : Jumper cable, power cable, USB cable - Dimension : 45x32x14 centimeter (WxLxH) *Note : PLC brand and model can be costumed by order.	G-18	Rp	17.982.000
14	Conveyor & Inverter application Trainer	Inverter Belt Conveyor Proximity Sensor Photo Sensor Switches Three Phase Motor Specification: - Conveyor : Aluminium profile, PVC Belt - Module board : Acrylic 4mm, full colors printing -Connectors : Standard safety banana plug - Accessories : Jumper cable, Power Cable - Dimension : 42x30x25 centimeter (WxLxH) *Note : Inverter brand and model can be customized by order.	G-14	Rp	45.954.000	19	Basic Refrigerant Trainer	Description: Compressor Evaporator Condensor 3-stage capillary tube Filter drier Sight glass Manometer Pressure switch Thermometer Specification: - Module board : Multiplex - Frame : hollow 40x40 - Dimension : 120x40x150 centimeter	G-19	Rp	37.962.000
15	Pneumatic Training Unit (Whole set)	Air service unit Pressure gauge Air manifold Single acting cylinder Double acting cylinder 3/2 Way pneumatic valve 5/3 Way pneumatic valve 3/2 Way solenoid valve 5/3 Way solenoid valve 3/2 Way manual valve 5/3 Way manual valve Pressure switch Limit switch Proximity sensor AND valve OR valve Quick exhaust valve Pressure sequence valve Relay module Timer module PLC Power supply unit Specification : - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Frame : Aluminium profile, hollow 40x40 - Accessories : Jumper cable, power cable, air hose, fittings, air compressors - Dimension : 180x60x160 centimeter	G-15	Rp	299.700.000	20	Solar Cell Demonstration Trainer	Description : Solar cell panel Solar cell controller Battery Inverter Switches Voltmeter Amperemeter Stop contact Fitting lam Specification: - Module board : Acrylic 4mm, full colors printing - Frame : hollow 40x40 Connectors : Standard safety banana plug - Accessories : Jumper cable, power cable - Dimension : 150x30x100 centimeter	G-20	Rp	21.978.000

1	2	3	4	5	6	7	8	9	10																																														
21	PLC Trainer (Stand)	PLC 201/0 Push button & switches Indicator lamp Power supply unit (Input: 220VAC, Output: 24VDC) Input switches Relays Proximity sensor Traffic light simulator Buzzer Contactor Specification: - Module board : Acrylic 4mm, full colors printing - Frame : hollow 40x40 - Connectors : Standard safety banana plug - Accessories : Jumper cable, power cable - Dimension : 105x30x70 centimeter	G-21	Rp	29.970.000	27	Cartesian Robot PC base controller	Technical Data Mechanical: Travel X Axis :200 mm Travel Y Axis :200 mm Travel Z Axis :100 mm Feedrate Max :3000 mm/min Electrical: Voltage :220Volt/50HZ Phase :Single Phase General Spec: Applications :Education, training, research Configuration :3 Axis guide table Controller :PC Based Drive :2 Phase stepper motor Program Language :G-Code	G-27	Rp	149.850.000																																												
22	Air Condition Demonstration Trainer	LTC-6-1 Cooling Van, Evaporator LTC-6-2 Thermostat LTC-6-3 Thermometer LTC-6-4 Hot gas pressure meter LTC-6-5 Liquid pressure meter LTC-6-6 Section pressure meter LTC-6-7 Sight Glass LTC-6-8 8 Control Valve LTC-6-9 Remote Control LTC-6-10 Filter Dryer LTC-6-11 Condenser LTC-6-12 Heater LTC-6-13 Compressor Data teknis: Dimensi: 900x500x1300mm - Pipa merah, biru, kuning - Cooling capacity 9000 Btu - Air Circulation Indoor 80 m3/min - Voltage 240 V, 900 Watt Kerangka besi Hollow 40x40mm dicat duco biru muda, menggunakan roda nylon 2 free 2 lock	G-22	Rp	25.974.000	28	Basic electrical Trainer 1 Phase	1 Modul LTC-1-1 Fuse box, sekering 2A, saklar putar MCB 1 fasa 2A 1 Modul LTC-1-2 KWH meter, standard PLN, 1 fasa 3 kawat 1 Modul LTC-1-3 Multirange timer 220V/50Hz Timer ranges: 0.05s to 300h Mode: 6 timing modes Output: 2 output NO/NC 1 Modul LTC-1-4 Push button NO/NC, max 5A, warna merah 1 Modul LTC-1-5 Push button NO/NC, max 5A, warna hijau 2 Modul LTC-1-6 Series switch, max 5A 1 Modul LTC-1-7 Single switch, max 5A 1 Modul LTC-1-8 Cross switch, max 5A 2 Modul LTC-1-9 Change switch, max 5A 2 Modul LTC-1-10 Stop contact, Inbow, 3 kawat 1 Modul LTC-1-11 Buzzer, 220 VAC 1 Modul LTC-1-12 Fitting lamp, 2 outbow Data teknis: Dimensi: 1000x400x 760 mm Aksesoris: - Stackable plug with cage springs - 1 Kabel power - Buku Modul/CDI	G-28	Rp	16.650.000																																												
23	Electro Pneumatic trainer (Stand)	Double acting cylinder with 2 limit switch Double acting cylinder with 2 sensors Power supply unit (Input: 220VAC, Output: 24VDC) Switches (2 push button, 1 selector, 1 emergency) Relays (4xMY4) Timer Air service unit 5/2 Way single solenoid valve 2pcs 5/2 Way double solenoid valve 1pcs - Module board : Acrylic 4mm, full colors printing Connectors : Standard safety banana plug - Frame : Aluminum profile, hollow 40x40 - Accessories : Jumper cable, power cable, air hose, fittings, air compressors(optional) - Dimension : 110x30x105 centimeter (WxLxH)	G-23	Rp	49.950.000	29	PLC & HMI Scada trainer	SCADA TRAINER (stand) 1. PLC 2. HMI 3. Network adapter 4. Push Button 5. Indicator lamp 6. Traffic light simulator 7. Temperatur control/sensor 8. Relay 9. Buzzer 10. Power supply Dimensi: 110x30x75 cm (PxLxT)	G-29	Rp	133.200.000																																												
24	Hydraulic Trainer Middle	Cylinder Double Acting, 40-150 with connector 1/4 inch-2 pcs - Sensor (limit switch Electric) 4 x SPDT, max 5A Valve 4/3 Solenoid 220 V, 2 pcs with connector 1/4 inc - Distributor Pressure and Return - Pressure Gauge - Relief Valve, otomatis pressure - Hydraulic pump 0.75kw 1Phase, tank max 12 liter - MCB 10 A 1 pcs - Push Button (spring), 1NO dan 1 NC 4 pcs - Lampu indikator 220VAC 6 pcs - Hydraulic hose 1/4" with Quick Coupler - PLC ZEN, input 220V, out relay - Relay MY2, coil 220VAC, 3x SPDT, 4pcs - Main switch with lamp Indikator 220V, power PLC - Stackable plug with cage springs - Power AC 220V, 10A	G-24	Rp	75.924.000	30	OP-AMP Trainer	ETC7A-1 Power Supply ETC-07A, input 220 VAC, Output 15VDC, 1A ETC7A-2 Loudspeaker ETC7A-3 Analog Amperemeter ETC7A-4 LDR - 2 pcs ETC7A-5 LED - 2 pcs ETC7A-6 Standard Proto Board 20 x 20 cm ETC7A-7 Variable Resistor, 100k Ohm ETC7A-8 Switch - 4 pcs ETC7A-9 Digital Multimeter ETC7A-10 Library Component standart Op-Amp Trainer ETC7A-11 Signal Generator Power 220VAC Data teknis: Dimensi : 450 x 300 x 150mm	G-30	Rp	17.760.000																																												
25	CNC Retrofit Milling 7045 with PC base controller	<table><tr><th colspan="4">Technical Data</th></tr><tr><th colspan="2">Mechanical</th><th colspan="2">Electrical</th></tr><tr><td>Table Size</td><td>800 x 240 mm</td><td>Spindle Power</td><td>1500 Watt</td></tr><tr><td>Travel X Axis</td><td>400 mm</td><td>Spindle Speed</td><td>95 - 5800 RPM</td></tr><tr><td>Travel Y Axis</td><td>180 mm</td><td>Drive Motor</td><td>Stepper motor</td></tr><tr><td>Travel Z Axis</td><td>120 mm</td><td>CNC Control</td><td>PC Based</td></tr><tr><td>Max Table to Spindle</td><td>470 mm</td><td>CNC Software</td><td>Mach3</td></tr><tr><td>Spindle Tapper</td><td>M70</td><td>Voltage</td><td>220Voh/50Hz</td></tr><tr><td>Feedrate Max</td><td>3000 mm/min</td><td>Phase</td><td>Single Phase</td></tr><tr><td>Drive System</td><td>Ball Screw</td><td></td><td></td></tr><tr><td>Weight</td><td>+/- 450 kg</td><td></td><td></td></tr></table> Catatan : Harga termasuk milling vice, training. Tidak termasuk biaya kirim dan instalasi di lokasi, serta aksesoris tambahan yang bersifat optional.	Technical Data				Mechanical		Electrical		Table Size	800 x 240 mm	Spindle Power	1500 Watt	Travel X Axis	400 mm	Spindle Speed	95 - 5800 RPM	Travel Y Axis	180 mm	Drive Motor	Stepper motor	Travel Z Axis	120 mm	CNC Control	PC Based	Max Table to Spindle	470 mm	CNC Software	Mach3	Spindle Tapper	M70	Voltage	220Voh/50Hz	Feedrate Max	3000 mm/min	Phase	Single Phase	Drive System	Ball Screw			Weight	+/- 450 kg			G-25	Rp	197.802.000	31	Digital Trainer (Stand)	Modul ETC04A-1 Power Supply, input 220VAC, output 5V, 2A Modul ETC04A-2 AND Gate Dual Input, 4 logic Modul ETC04A-3 AND Gate Quad Input, 2 logic Modul ETC04A-4 OR Gate Dual Input, 4 logic Modul ETC04A-5 NOT Gate, 6 logic Modul ETC04A-6 NOR Gate Dual Input, 4 logic Modul ETC04A-7 NAND Gate Dual Input, 4 logic Modul ETC04A-8 NAND Gate Quad Input, 2 logic Modul ETC04A-9 XOR Gate Dual Input, 4 logic Modul ETC04A-10 XNOR Gate Dual Input, 4 logic Modul ETC04A-11 D Flip-flop, 2 logic Modul ETC04A-12 RS Flip-flop, 2 logic Modul ETC04A-13 JK Flip-flop, 2 logic Modul ETC04A-14 Multiplexer 4 bit, input 4 bit Modul ETC04A-15 Demultiplexer 8 Bit, input 8 bit Modul ETC04A-16 Asynchronous Binary Counter, 4bit Modul ETC04A-17 Asynchronous BCD Counter, 4bit Modul ETC04A-18 Asynchronous UP/DOWN Counter, 4bit, Preset Modul ETC04A-19 BCD To 7 segment, input BCD 4 bit, out 7 segmei Modul ETC04A-20 Full Adder, input 4 bit, output 4 bit Modul ETC04A-21 Comparator, input 4 bit Modul ETC04A-22 Switch, 8 switch input Modul ETC04A-23 Pulse generator, single shoot/continuous model Modul ETC04A-24 Socket IC Power 220VAC Dimensi: (PxLxT: 1000 x 300 x 1100 mm)	G-31	Rp	28.860.000
Technical Data																																																							
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26	CNC Retrofit Mini Lathe with Industrial controller	<table><tr><th colspan="4">Technical Data</th></tr><tr><th colspan="2">Mechanical</th><th colspan="2">Electrical</th></tr><tr><td>Center Distance</td><td>750 mm</td><td>Spindle Power</td><td>750 Watt</td></tr><tr><td>Swing Over Bed</td><td>250 mm</td><td>Spindle Speed</td><td>50 - 2200 RPM</td></tr><tr><td>Travel X Axis</td><td>120 mm</td><td>Drive Motor</td><td>Stepper motor</td></tr><tr><td>Travel Z Axis</td><td>800 mm</td><td>CNC Control</td><td>ADTECH CNC4020</td></tr><tr><td>Chuck Size</td><td>5 inch</td><td>Interface</td><td>MPG</td></tr><tr><td>Tool Holder Size</td><td>12 mm x 12 mm</td><td>Voltage</td><td>220Voh/50Hz</td></tr><tr><td>Feedrate Max</td><td>3000 mm/min</td><td>Phase</td><td>Single Phase</td></tr><tr><td>Drive System</td><td>Ball Screw</td><td></td><td></td></tr><tr><td>Weight</td><td>+/- 250 kg</td><td></td><td></td></tr></table> Catatan : Harga tidak termasuk biaya kirim dan instalasi di lokasi, serta aksesoris tambahan yang bersifat optional.	Technical Data				Mechanical		Electrical		Center Distance	750 mm	Spindle Power	750 Watt	Swing Over Bed	250 mm	Spindle Speed	50 - 2200 RPM	Travel X Axis	120 mm	Drive Motor	Stepper motor	Travel Z Axis	800 mm	CNC Control	ADTECH CNC4020	Chuck Size	5 inch	Interface	MPG	Tool Holder Size	12 mm x 12 mm	Voltage	220Voh/50Hz	Feedrate Max	3000 mm/min	Phase	Single Phase	Drive System	Ball Screw			Weight	+/- 250 kg			G-26	Rp	203.796.000	32	Hydraulic Trainer (Standard)	Hydraulic power unit Double acting cylinder with 2 limit switch 4/3 Way double solenoid valve 1pcs Relief valve Check valve Pressure distributor Return distributor Pressure gauge Panel control Specification: - Module board : Acrylic full colors printing - Frame : Besi hollow 40x40 - Dimension : 120x40x150 centimeter	G-32	Rp	64.380.000
Technical Data																																																							
Mechanical		Electrical																																																					
Center Distance	750 mm	Spindle Power	750 Watt																																																				
Swing Over Bed	250 mm	Spindle Speed	50 - 2200 RPM																																																				
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Feedrate Max	3000 mm/min	Phase	Single Phase																																																				
Drive System	Ball Screw																																																						
Weight	+/- 250 kg																																																						

1	2	3	4	5	6	7	8	9	10
33	Conveyor application Trainer (Electro Pneumatik)	Belt Conveyor Proximity Sensor Photo Sensor Switches Three Phase Motor - Conveyor : Aluminium profile, PVC Belt - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Accessories : Jumper cable, Power Cable - Dimension : 42x30x25 centimeter (WxLxH) *Note : Inverter brand and model can be customized by order.	G-33	Rp 46.842.000	39	PABX-003	PABX, IP Full, Kapasitas 2 CO & 20 IP Ext IP Phone (3) Fixed Wireless Terminal Media Kerja, Knock down : > Atas, Triplek Cat, Dimensi : > Bawah, Besi Cat, Dimensi - Wireless N Router, 4 Port, 10/100 Mbps, WLAN - Toolset : Standard - Lembar kerja : 1 Bundel; SMK/Poltek/University - Material Support : 1 Set - Training Operational & Maintenance : 1 Orang	G-39	Rp 43.372.140
34	Fundamental And Installation Trainer	1 Modul LTC 2-1 NFB, max 40A, 220VAC 1 Modul LTC 2-2 ELCB 1 fasa, 220VAC/25A, trip 0.03A 1 Modul LTC 2-3 ELCB 3 fasa, 220VAC/30A trip 0.03A 1 Modul LTC 2-4 MCB 1 fasa 220VAC/6A 1 Modul LTC 2-5 MCB 3 fasa 220VAC/10A 1 Modul LTC 2-6 Contactor, 220VAC, max 16A, 4 NO 3 Modul LTC 2-7 Supply contactor, 220VAC, max 16A, 5 NO/2 NC 1 Modul LTC 2-8 Timer, 5 mode, max 5A, 220V coil, 8 pin model 2 Modul LTC 2-9 Push button NO/NC, max 5A, warna merah dan hijau 1 Modul LTC 2-10 Change switch, max 5A 1 Modul LTC 2-11 Cross switch, max 5A - 1 Modul LTC 2-12 Series switch, max 5A - 2 Modul LTC 2-13 Single switch, max 5A - 1 Modul LTC 2-14 Stop contact, Inbow, 3 kawat - 1 Modul LTC 2-15 Socket lamp left, Starter 1 Modul LTC 2-16 Socket lamp right 1 Modul LTC 2-17 Ballast 20W 1 Modul LTC 2-18 Fitting lamp, 2 out bow - 1 Modul LTC 2-19 Voltmeter AC, max 500V - 1 Modul LTC 2-20 Amperemeter AC, max 5A - 1 Modul LTC 2-21 Thermo relay, 3 fasa max 45A, Output 1NO/1NC - 1 Modul LTC 2-22 Indicator lamp 220 VAC, merah, kuning, hijau 1 Modul LTC 2-23 Selector switch, max 10A 1 Modul LTC 2-24 Motor listrik: 3 fasa, persen Hp, custom pulley 1 Modul LTC 2-25 Motor listrik: 1 fasa, 1/4 Hp, custom pulley Data teknis: Dimensi: 1000 x 500 x 1100 mm Aksesoris: - Stackable plug with cage springs - 3 phase connector plug - Lampu Pijar 40Watt - Lampu TL 18Watt - Buku Modul/CD	G-34	Rp 46.287.000	40	Body Electrical Trainer (Car)	Horn Relays Head Lamps Fog dan Sign Lamps Main Switch Flasher Indicator Lamps Ignition Switch Brake dan Horn Switches Police Licence Lamp Interior Lamp Reverse, Fog/Stop Sign Lamps Battery (Optional) Fuse Box Specification: Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Frame : Aluminium profile, hollow 40x40 - Accessories : Jumper cable, power cable, air hose, fittings, air compressors(optional) - Dimension : 110x30x105 centimeter (WxLxH)	G-40	Rp 18.315.000
35	Motor Control Trainer	3 Modul LTC-3-1 Contactor 220 VAC, max 25A, 5NO/2NC 2 Modul LTC-3-2 Push button NO/NC, max 5A, 2 merah, 2 hijau 1 Modul LTC-3-3 Timer 220VAC H3CR, Timer On/Off delay, Output 2 NO/NC 1 Modul LTC-3-4 Indicator lamp 220 VAC, 1 merah, 1 kuning, 1 hijau 1 Modul LTC-3-5 MCB 3 fasa, max 10A, soket 3 fasa 4 pole dengan ground 1 Modul LTC-3-6 Thermo relay, max 16A, Output 1NO1 1NC 1 Modul LTC-3-7 Change over, max 5A 1 Modul LTC-3-8 Emergency Button, max 5A 1 Modul LTC-3-9 ELCB 3 fasa, max 40A - 1 Modul LTC-3-10 MCB 1 fasa, max 6A - 1 Modul LTC-3-11 MCB 3 fasa, max 6A Data teknis: Dimensi: 1000 x 400 x 760 mm	G-35	Rp 29.970.000	41	Car Audio System Trainer	1. Tape: -VCD/DVD/MP3/MP4/ESP -Radio FM, Radio AM High Power Output 4 x 60W -USB/SD MMC Card Slot, Remote Control -RCA Audio Output 2. Power 180W 3. 4 bush Speaker - Front Left loud speaker - Front Right loud speaker - Three way rear left loud speaker - Three way rear Right loud speaker 4. Kunci kontak 5. Automatic Antenne 6. Modul Power Supply 30A - 220V/12 VDC Data Teknis Panjang: 1000 mm Lebar: 600 mm Tinggi: 800 mm Konstruksi kerangka wood panel dilapisi karpet standar C101 black dan Papan Pertinak 4mm finising cetak sablon huruf atau simbol.	G-41	Rp 18.315.000
36	Stepper Motor Trainer	PLC, Switching Power Supply, Sensor Part, Stepper drive module, Stepper motors and other components. Training sets using a spesial mold profiles, anodized coating processing, scientific structure, the bottom adjuster, height adjustable, the ensure a smooth degree, bracket aluminium structure (surface electrophoresis). Manual Book, Experiment Module	G-36	Rp 42.180.000	42	Car Audio Video Trainer	1. Tape: -VCD/DVD/MP3/MP4/ESP -Radio FM, Radio AM High Power Output 4 x 60W -USB/SD MMC Card Slot, Remote Control -RCA Audio Output 2. Power 180W 3. 4 bush Speaker - Front Left loud speaker - Front Right loud speaker - Three way rear left loud speaker - Three way rear Right loud speaker 4. Kunci kontak 5. Automatic Antenne 6. Modul Power Supply 30A - 220V/12 VDC Data Teknis Panjang: 1000 mm Lebar: 600 mm Tinggi: 800 mm Konstruksi kerangka wood panel dilapisi karpet standar C101 black dan Papan Pertinak 4mm finising cetak sablon huruf atau simbol.	G-42	Rp 23.088.000
37	PABX-001	Spesifikasi Content : - PABX, Analog, Kapasitas 3 CO & 8 Ext - Key Telephone - Single Line Telephone (2) - Fixed Wireless Terminal - Media Kerja, Knock down : > Atas, Triplek Cat, Dimensi : > Bawah, Besi Cat, Dimensi - Toolset : Standard - Lembar kerja : 1 Bundel; SMK/Poltek/University - Material Support : 1 Set - Training Operational & Maintenance : 1 Orang	G-37	Rp 23.736.240	43	Power Steering Training	Spesifikasi - Original automobile part of a typical small passenger vehicle engine 4A-E - Komplit dengan suspensi depan, Model rack and pinion PS. - Steering columb - Steering wheel - Reservoir tank and hose - Motor 1Phase 220V 1/2 PK -MC -Power Switch -Cabel power -Recondition system Dimensi Panjang:1200 mm Lebar:800 mm Tinggi:1200 mm	G-43	Rp 8.880.000
38	PABX-002	PABX, IP Hybrid, Kapasitas 4 CO & 8 Ext IP Phone Single Line Telephone (2) Fixed Wireless Terminal Media Kerja, Knock down : > Atas, Triplek Cat, Dimensi : > Bawah, Besi Cat, Dimensi - Switch, 8 Port, 10/100 Mbps - Toolset : Standard - Lembar kerja : 1 Bundel; SMK/Poltek/University - Material Support : 1 Set - Training Operational & Maintenance : 1 Orang	G-38	Rp 33.792.840	44	Gasoline Engine Trainer VVTI Live	Engine 1NZ-FE/K3, 4 cylinder in line Combination meter original for automobile Combination meter with plexy glass 5 mm, printing 4 colour design. Full tank capacity 5-10 litre Battery 12V/80 Ah New cooling system (fan belt, fan Radiator, hose upper and lower, reservoir) Radiator guar Ram, Now Air filter New Ignition System Fly whell Guard Semua part Recondition Data Teknis Panjang:1200 mm Lebar :800 mm Tinggi:1200 mm	G-44	Rp 37.740.000

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45	Engine Motor Cycle Sectioned	Engine 4 stroke 4 cylinder 100 - 110 cc Carburator system Education Cutting standard Recondition system Data Teknis Panjang:600 mm Lebar:400 mm Tinggi:1000 mm	G-45	Rp	9.990.000	50	Engine Stand EFI Type D 7 K/E Spesifikasi - Engine 7K, year 2000 up/recondisi Data Teknis - Piston displacement 1800cc - Ignition GDI - Fuel transfer EFI - ECU Original 7K-E - Radiator new componen -Fuel Tank 10ltr - Complete with radiator protector, dan 2 free.flyweel, protector.Radiator reservoir New Battery 12V/45 AH Panjang: 1200 mm Lebar: 800 mm Tinggi: 1200 mm	G-50	Rp	33.744.000
46	Engine Stand Diesel EFI	Mesin 1KZ-TE2500-2800cc Recondition-Ecu original 4 silinder Inline-SValve OHC Combustion chamber swiri type- Manifold intake cross flow type Pompa injection electronic type VE (dilengkapi dengan electronic control, spill control valve, timing control valve, fuel temp, sensor, engine speed sensor dan correction resistor), Injector nozzle type throttle -Panel Instrument: Instrument cluster Rpen Odometer, oil lamp, CHG lamp, DTC lamp. Indicator fuel, indicator temperature, -Dilengkapi dengan kunci kontak, check connector DLC -System pendingin Radiator fan radiator type kopling fluida, Baterai 60 Ah, Fuel fire, tangki solar kapasitas 10 liter Data Teknis Panjang: 1200 mm Lebar:800 mm Tinggi: 1000 mm	G-46	Rp	53.280.000	51	Gasoline Engine Trainer Toyota With Gas Mesin 5K 1500 cc karburator/Recondisi 4 silinder sebaris dilengkapi dengan radiator DataTeknis Tangki bensin Ampere meter Lampu indikator Kontrol oli CTM Temperatur air gas Converter bahan bakar dan instalasi gas New Battery 12V/45 AH Kunci kontak Panjang: 1200 mm Lebar: 800 mm Tinggi: 1200 mm	G-51	Rp	49.173.000
47	Simulator Engine EFI Type-L/D	Modul Simbol Battery, Ignition Switch, Fused sensor TPS, THW, THE, PIM, KMK, ISC, OX, ECU 5 AFE, Speed Control Autotech, Motor DC 12 V, Distributor JIA, Relay Indicator Lamp, Diagnosis Box, 4 nozzle Injector, Fuel Pump, Fuel Tank 5L, New Sparkplug, High voltage cable, RPM Meter. -Modul Symbol Part and Wiring Print By Computer Sparation Sablon -Battery 12V 45AH, -Box Plexyglass Acrylic 5mm -Banana plug connector - Normaly Operation, -Recondition part Data Teknis Panjang:1200 mm Lebar:600 mm Tinggi:1600 mm Kerangka standard Hollow 40 x 40 mm. Papan pertinak 4 mm cat standard CT01 putih,cetak sablon dan PVC 2 mm, frame terdiri dari judul, simbol dan komponen DenganCaster 3" nylon type 2 lock dan 2 free.	G-47	Rp	24.420.000	52	Electrical Simulator Engine EFI Type DLI Modul symbol battery. Ignition switch, Fuses, sensor TPS, THW, THE, PIM, KMK, ISC, OX.CMP sensor,ECU HD En. Autotech Electronic Control speed motor, Motor DC 12V Relays Indikator lamp Nozols Fuel Pump Fuel Tank 5 Litre New Spark plug High voltage coil Rpm meter Recondition system Data Teknis Panjang:1200 mm Lebar:600 mm Tinggi:1600 mm Plexy glassi acrylic Panel board 5mm.Banana plug and connector jump cable. blue colour Frame iron hollow 20x40.combinasi 40x40mm	G-52	Rp	25.530.000
48	Engine Transmission Sectioned Trainer	Engine 1500cc Recondition, transmisi model Papan panel: Pertinak 4mm Finising cat, cetak sablon Kerangka terbuat dari pipa gas 1,5 Cat duco standard CT01 bin muda, dengan kaki roda 4 nylon 2 lock dan 2 free Data Teknis Panjang:2100 mm Lebar:750 mm Tinggi:1400 mm	G-48	Rp	23.310.000	53	Gasoline Engine Sectioned Gasoline 4 Tak 4 Cylinder 1000-1500 cc Carburator system Education Cutting Standard Motor 1P1220 VAC Recondition system Data Teknis Panjang:800mm Lebar:700mm Tinggi:1200 mm	G-53	Rp	30.747.000
49	Engine Diesel Setoned	Engine 2400CC Diesel with Transmission model Motor 1P1220V with reducer gear Papan panel: Pertinak 4 mm, cat putih Tombol start/stop, Cetak sablon Kerangka terbuat dari pipa gas 1.5" Cat duco Standard CT01 biru muda, dengan kaki roda 4 nylon 2 lock dan 2 free. Semua part recondisi dengan baik. Dimensi Panjang:800 mm Lebar:800 mm Tinggi:1200 mm	G-49	Rp	29.637.000	54	Diesel Engine Trainer Live Engine L300 250000, 4 cylinder in line (Recondition) Combination meter original for automobile Combination meter with plexy last 5 mm, printing 4 colour design Full tank capacity 5 10 litre Battery 12V/ 60 AB Now cooling system (fan belt tan radiator hose upper and lower reservoir) Radiator guart Ram New Air filter New Ignition Stem (Cable High Voltage.Spark plug lignition switch) -Reduction Starter System -Diagnosis box for Sonne -Fly whell Guard Data Teknis Panjang:1200 mm Lebar:800 mm Tinggi:1000 mm Kerangka terbuat dari pipa hollow 40x40mm cat duco standard CT01 biru muda, dengan kaki roda 4 dari nylon 2 lock dan 2 fuese. Papan panel terbuat dari Pertinak 4 mm, ishing cat standard CT01 putih dan cetak sablon	G-54	Rp	39.072.000

CATATAN :

1. Harga sudah termasuk PPN/PPh
2. Harga tidak termasuk ongkos kirim

1	2	3	4	5	6	7	8	9	10
55	PLC Trainer (Box)	Description -PLC CPU unit (OMRON CP1E-EPOSODR-A)* -Indicator lamp -Input switches (push button) -PLC input -PLC output -Power supply unit (Input: 220VAC, Output: 24VDC) -Application Input/output (compatible with automation trainer) Specification -PLC-20 I/O (12input/8 output), output relay, direct USB programming -Module board : Acrylic 4mm, full colors printing -Connectors : Standard safety banana plug Box: Medium density fiberboard, paint coating Accessories - Jumper cable, power cable, USB cable - Dimension : 40x23x10 centimeter (WxLxH) * Note PLC brand and model can be costumed by order.	Rp 17.820.000	63	Website BKK Online	- Include aplikasi web recruitment - Include aplikasi web penelusuran - Hosting Blisnis - Unlimited Bandwidth - Koneksi SSL - Lite Speed Enterprise	Rp 2.750.000		
56	PLC & HMI Trainer (Box)	-PLC CPU unit (OMRON CP1E-N2ODR-A)* -HMI unit (OMRON NB5Q)* -PLC input -PLC output -Indicator lamp -Input switches (push button) -Application Input/output (compatible with automation trainer) -Power supply unit (Input: 220VAC, Output: 24VDC) -PLC: 20 I/O (12input/8output), output relay, direct USB programming -Module board : Acrylic 4mm, full colors printing -Connectors : Standard safety banana plug -Box: Medium density fiberboard, paint coating -Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	Rp 33.660.000	64	Tools Life Counter	- Easy number setting Double Up Counter input Up to 9999 counting number - With flash alarm Remote Control For Setting Gassing: Aluminum profile, Acrylic Display Seven Segmen with Display Dimensi: Panjang: 450 mm Lebar: 250 mm	Rp 9.900.000		
57	Metal & Non Metal Sorting Application with PLC Control	Training contents -Setting parameter for process control -Analysis of process sequences -Defining proses for sorting -Programming PLC sequences control System Workflow -Transfer workpiece from magazine to storage and separate between metal and non metal using gripper, double acting cylinder and rotary actuator -Actuators: Gripper, double acting cylinder, rotary actuator -Sensors: Photo sensor, magnetic sensor, inductive sensor -I/O:9sensors/4 actuators -Workpiece : Aluminum and plastic -Frames/supports: Aluminum profile, nylon plastic, sheet metal -Connectors : I/O board compatible with PLC Trainer, box version Dimension : 42x30x30 cm (WxLxH) Air pressure : 4-6 bar (0.4-0.6 Mpa) -Sensors and valve power supply 24 VDC CONTROLLER SPESIFICATION: -PLC CPU unit (OMRON CP1E-EPOSODR-A)* -Indicator lamp -Input switches (push button) -PLC input -PLC output -Power supply unit (Input: 220VAC, Output: 24VDC) -Application Input/output (compatible with automation trainer) -PLC-20 I/O (12input/8 output), output relay, direct USB programming -Module board : Acrylic 4mm, full colors printing -Connectors : Standard safety banana plug Box: Medium density fiberboard, paint coating Accessories - Jumper cable, power cable, USB cable - Dimension : 40x23x10 centimeter (WxLxH) * Note PLC brand and model can be costumed by order.	Rp 45.540.000	65	Inverter Trainer With Motor	- 1 LTC-9-1 Motor induksi 3 fasa 220/380VAC 0.09 KW - 1 LTC-9-2 Inverter 0.37 KW 1 Phase to SPhase 220 VAC Input analog tegangan 0-10, Input analog arus 0-20mA, 5 Input multifungsi Output Relay, Output open collector - 1 LTC-9-3 MCB 1fasa max 2A, Jalurtenaga 1 fasa - 1 LTC-9-4 MCB 3 fasa max 10A - 5 LTC-9-5 Lampu indikator 220 VAC - 1 LTC-9-6 Digital RPM Meter - 1 LTC-9-7 Proximity Sensor 24VDC - 1 LTC-9-8 Potensiometer 1K - 1 LTC-9-9 Ampere meter max 5A - 1 LTC-9-10 Ampere meter max 500mA - 1 LTC-9-11 Volt meter AC max 300V - 1 LTC-9-12 Volt meter AC max 30V	Rp 33.000.000		
58	Digital Trainer (Box)	Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box : Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable - Dimension : 42x30x10 centimeter (WxLxH)	Rp 15.400.000	66	Paket Sistem Sea Water Reserve Osmosis (SWRO)	- Pompa UF 500 Liter/jam, pressure 3 bar - Membrane Ultra Filtration kapasitas 500 Liter/jam - Pompa Backflush 500 Liter/jam, pressure 3 bar/liter - Motorize Valve 2" PVC, 4 pcs - Pressure gauge 6 bar, 2 pcs - Tangki Penampungan 500 Liter Profil Tank - Pompa Umpan RO 350 Liter/jam, pressure 4 bar - Cartridge Filter 5 mikron, 10" Motorize valve 2" PVC, 2 pcs - Pompa High Pressure 350 Liter/jam, pressure 60 bar - Membrane Sea Water Reverse Osmosis Diameter 4", Panjang 40" - Pressure gauge 6 bar 2 pcs - Pressure gauge 80 bar 2 pcs - Conductivity meter - Control Panel Otomatis	Rp 313.500.000		
59	Sensor & actuator Trainer	Sensor Limit switch Switches Indicator lamp Solenoid Buzzer Contactora Relays Power supply unit (Input: 220VAC, Output: 24VDC) Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable - Dimension : 80x35x60 centimeter (WxLxH)	Rp 29.700.000	67	HMI/ Scada Trainer (Mitsubishi)	-PLC CPU unit (MITSUBISHI) -HMI unit (MITSUBISHI) -PLC input -PLC output -Indicator lamp -Input switches (push button) -Application Input/output (compatible with automation trainer) -Power supply unit (Input: 220VAC, Output: 24VDC) -PLC: 24 I/O , direct USB programming - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	Rp 33.000.000		
60	Basic Electronic Trainer	-ETCBA-1 Power Supply, input 220VAC, Output 12VDC, 1A -ETCBA-2 Variable Resistor, 0.5 Watt -ETCBA-3 Switch-8 pcs, -ETCBA-4 LED Experiment ETC-08A -ETCBA-5 Standard Proto Board, 10 x 20 cm - 2 pcs -ETCBA-6 Experiment Signal Generator, Frekuensi mode, Amp -ETCBA-7 Transistor NPN/PNP -ETCBA-8 Digital Multimeter pere, Ohm, AC/DC Volt -ETCBA-9 Library Component, resistor -Potensio, capasitor, dioda, transistor, IC -Power 220VAC Dimensi : 450 x 300 x 150mm Modul terbuat dari bahan acrylic 5 mm puith, hurufdangambardicetak sablon dan box menggunakan bahan PVC 4 mm cat standard biru muda. Frame: A3	Rp 13.860.000	68	Logic Gate Trainer (BOX)	AND NAND NOT X-NOR BCD TO 7-SEGMENT LOGIC INDICATOR LOGIC INPUT TOGGLE SW. LOGIC INPUT MICRO SW. POWER SUPPLY UNIT OR NOR X-OR - Module board : Double layers PCB - Connectors : Male header - Box : Medium density fiberboard, paint coating - Accessories : Jumper cable - Dimension : 35x23x10 centimeter (WxLxH)	Rp 5.115.000		
61	Salt Wates Lamp Demonstration	-Merek HELI, Tipe/Seri Lampu Double Modul (SWL01) - Negara asal : Indonesia - Tinggi 325 mm, Diameter 145 mm - Voltage LED 3 Volt dan Power Charger HP 5 Volt - Power 1.6 Watt (0,2 W LED x 8 titik) - 205 Lumen - LED menyala 120 jam /1 set Metal Rod -Penggantian air garam setiap 12 jam pemakaian - Tingkat Komponen Dalam Negeri (TKDN) 85 %	Rp 1.650.000	69	Metal & Non Metal Sorting With PLC and HMI Controller	-Workpiece : Aluminum and plastic -Frames/supports: Aluminum profile, nylon plastic, sheet metal -Connectors : I/O board compatible with PLC Trainer, box version Dimension : 42x30x30 cm (WxLxH) Air pressure : 4-6 bar (0.4-0.6 Mpa) Sensors and valve power supply 24 VDC -PLC CPU unit (OMRON CP1E-N2ODR-A)* -HMI unit (OMRON NB5Q)* -PLC input -PLC output -Indicator lamp -Input switches (push button) -Application Input/output (compatible with automation trainer) -Power supply unit (Input: 220VAC, Output: 24VDC) -PLC: 20 I/O (12input/8output), output relay, direct USB programming -Module board : Acrylic 4mm, full colors printing -Connectors : Standard safety banana plug -Box: Medium density fiberboard, paint coating -Accessories : Jumper cable, power cable, USB cable, communication cable - Dimension : 40x23x14 centimeter (WxLxH) *Note : PLC/HMI brand and model can be costumed by order.	Rp 53.460.000		
62	Wastafel Portable Automatic	-Sensor: Infrared -Pompa: Mini pump -Bak: Stainless steel -Rangka: Steel -Roda: 2 inch -Kapasitas air: 20 liter/jerigen -Catu daya: 5VDC atau 220VAC -Ukuran: 50x40x110 cm Hindarkan dari sinar matahari langsung (sinar matahari dapat mempengaruhi kinerja sensor)	Rp 3.850.000	70	Electro Pneumatic trainer (Suitcase)	Double acting cylinder with 2 limit switch Double acting cylinder with 2 sensors Power supply unit (Input: 220VAC, Output: 24VDC) Switches (push button) Relays Timer Air service unit 5/2 Way single solenoid valve 1pcs 5/2 Way double solenoid valve 1pcs - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Aluminum profile, multiplex - Accessories : Jumper cable, power cable, air hose, fittings, air compressors(optional) - Dimension : 60x40x25 centimeter (WxLxH)	Rp 23.760.000		

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71	Electro Pneumatic trainer (Box)	- Single acting cylinder with sensor - Double acting cylinder with 2 limit switch - Double acting cylinder with 2 sensors - Power supply unit (Input: 220VAC, Output: 24VDC) - Switches (push button) - Relays - Air service unit 5/2 Way single solenoid valve 2pcs 5/2 Way double solenoid valve 1pcs - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box : Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, air hose, fittings, air compressors(optional) - Dimension : 80x35x60 centimeter (WxLxH)		Rp 19.800.000	78	Contactur Trainer	1 LTC-11-1 MCB 3 Phase 3 LTC-11-2 Indicator Lamp 1 LTC-11-3 Emergency Button 3 LTC-11-4 Contactor 2 LTC-11-5 Push Button 2 LTC-11-6 Thermo Relay - Installation wiring CT 01 with 1.5 mm cable - Dimensi: Panjang : 450 mm - Lebar : 330 mm - Tinggi: 530 mm - Aksesoris: 1 Set Stackable plug with cage spring - Manual Book/CD		Rp 12.100.000
72	Basic Electrical Trainer 3 Phase	1 LTC-1B-1 KWH Meter 3 phase 1 LTC-1B-2 MCB 3 phase 1 LTC-1B-3 NFB 3 phase 1 LTC-1B-4 Timer 220VAC, 2NC, 2NO 1 LTC-1B-5 2 Relay 220 VAC, 2NC, 2NO 1 LTC-1B-6 Push Button 1 LTC-1B-7 Single Switch 1 LTC-1B-8 Series Switch 1 LTC-1B-9 Change Switch 1 LTC-1B-10 Cross Switch 1 LTC-1B-11 Buzzer 220VAC 1 LTC-1B-12 3 Fitting lamps for output 1 LTC-1B-13 Stop Contact 1 phase 1 LTC-1B-14 Stop Contact 3 phase - Dimensi: 1000 x 400 x 760 mm - Aksesoris: 1 Stackable plug with cage springs - Buku Modul/CD		Rp 20.900.000	79	Solar Cell Trainer	1 LTC-11-1 Solar Cell modul 12V/50W 1 LTC-11-2 Charger controller max 50V 1 LTC-11-3 Inverter DC 12V To AC 220V 100W 1 LTC-11-4 Amperemeter max 5A 1 LTC-11-5 Voltmeter max 300V 1 LTC-11-6 DC Lamp 12V 1 LTC-11-7 AC Lamp 220V 2 LTC-11-8 Single switch, inbow 2 LTC-11-10 Stop contact, inbow - Data teknis: Dimensi : 1000 x 400 x 760 mm		Rp 24.200.000
73	Fault And control Installation Trainer	4 LTC-5-1 Contactor 220 VAC, max 25A, 5NO dan 2NC 4 LTC-5-2 Push Button NO/NC, max 5A, 2 merah dan 2 hijau 1 LTC-5-3 MCB 1 Phase, max 6A 1 LTC-5-4 MCB 3 Phase, max 10A 1 LTC-5-5 MCB 3 Phase, max 6A 1 LTC-5-6 ELCB 3 fasa, 220VAC/30A, trip 0.03A 1 LTC-5-7 Timer 220VAC H3CR, Timer on/off delay, Output 2 NO/NC 2 LTC-5-8 Thermo Relay, Spole, max 16A, Output 1NO/1NC 3 LTC-5-9 Indicator lamp 220V, merah, kuning, hijau 1 LTC-5-10 Emergency switch, max 5A 1 LTC-5-11 Selector switch max 5A 1 LTC-5-12 Power Connector AC 3 phase 220V/380V, 4Pole dengan Ground - Data teknis: Dimensi: 1100x800x1400 mm - Aksesoris: 1 Stackable plug with cage springs - Buku Modul/CD		Rp 15.620.000	80	Basic Cycle Refrigerator Trainer	1 LTC-7-1 Compressor 1 LTC-7-2 Condenser 1 LTC-7-3 Refrigerant Sight Glass 1 LTC-7-4 Compressor switch 1 LTC-7-5 Expansion valve 1 LTC-7-6 Filter / dryer 1 LTC-7-7 Various capillary tubes 1 LTC-7-8 Display and control panel 1 LTC-7-9 Evaporator 1 LTC-7-10 Refrigerant reservoir - Data teknis: Dimensi : 1200 x 750 x 1600 mm		Rp 39.600.000
74	Motor Generator Trainer	1 Modul LTC-4-1 Load switch, saklar DPST, max 5A 1 Modul LTC-4-2 Voltmeter, range 0 - 400VAC, class 1.5 1 Modul LTC-4-3 Amperemeter, range 0 - 50A, class 1.5 1 Modul LTC-4-4 MCB 1 fasa, max 6A 1 Modul LTC-4-5 MCB 3 fasa, max 10A, soket 3 fasa 4 pole 1 Modul LTC-4-6 MCB 3 fasa, max 6A 2 Modul LTC-4-7 Push Button NO/NC, 5A, merah , hijau 1 Modul LTC-4-8 Indicator Lamp 220V, merah, kuning, hijau 1 Modul LTC-4-9 ELCB 3 Phase, 220VAC/30A, trip 0.03A 1 Modul LTC-4-10 Change Over, max 5A 1 Modul LTC-4-11 Timer 220V H3CR, Timer on/off delay, 2 Output NO/NC 2 Modul LTC-4-12 Contactor 220 VAC, max 25A, 5NO/2NC 1 Modul LTC-4-13 Thermo Relay, 3Pole, max 16A, Output 1NO/1NC 1 Modul LTC-4-14 Load Control 1 AC Generator 0.37KW Synchronous Machine 1 Motor 3 Phase 0.37KW speed 1250-1800rpm - Data teknis: Dimensi: 1100 x 800 x 1550 mm - Aksesoris: 1 Stackable plug with cage springs, Buku Modul/CD		Rp 58.300.000	81	Basic Pneumatic Trainer (Box)	- Double Acting Cylinder 5/2 Way Double Solenoid Valve 5/2 Way Manual Valve - Air Service Unit - Limit Switch - Relays - Push Button 24VDC Power Supply - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box : Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable - Dimension : 44x32x20 centimeter (WxLxH)		Rp 18.260.000
75	Power Electronic Trainer	1 Modul LTC-8-1 Power Supply 15VDC/3A, input 220 VAC, Indicator, Switch 1 Modul LTC-8-2 Power Supply 45VDC/5A, input 220VAC, Indicator, Switch 1 Modul LTC-8-3 Power Supply 5VDC/3A, input 220 VAC, Indicator, Switch 1 Modul LTC-8-4 Variable Power Supply Max50 VDC/5A, input 220 VAC, Indicator, Switch 1 Modul LTC-8-5 Stop Contact Outbow, input 3 phase, output 3 x 220 VAC 1 Modul LTC-8-6 Resistor, 100 ohm/100W, 10 ohm/10W, fuse 1A 1 Modul LTC-8-7 AC Power Supply 3 Phase, 3x fuse 1 A, Led indicator R, S, T 1 Modul LTC-8-8 MCB 3 Phase, max 6A, soket power 3 phase 220V/380V, 4Pole with Ground 1 Modul LTC-8-9 Dioda, 500V/15A 1 Modul LTC-8-10 Indicator Lamp 1 Modul LTC-8-11 Inductor, Volt meter 1 Modul LTC-8-12 Capacitor, 6 x 0.1uF/450V non polar 1 Modul LTC-8-13 Ampere meter, 2 x 30A AC/DC 1 Modul LTC-8-14 Transformator 3 phase, input 3 x 220 VAC - Data teknis: Dimensi: 1100 x 800 x 1550 mm - Aksesoris: 1 set stackable plug with cage springs 3 phase connector plug - Buku Modul/ CD		Rp 58.300.000	82	Amplifier Trainer	1 Modul ETC-2-1 Power Supply, input 220VAC, Output +/-32V 1 Modul ETC-2-2 Input Selector Audio, Auxin, Tape in, Tunner in, CD in 1 Modul ETC-2-3 Tone Control R, Volume, Treble, Bass, power 32V 1 Modul ETC-2-4 Tone Control R, Volume, Treble, Bass, power 32V 1 Modul ETC-2-5 Power Amplifier R, OCL, 150w power 32V 1 Modul ETC-2-6 Power Amplifier R, OCL, 150w power 32V 1 Modul ETC-2-7 Speaker Protector, stereo, leak dan peak protect power 32V 1 Modul ETC-2-8 Crossover R, input R, output twteter, middle, woofer 1 Modul ETC-2-9 Crossover L, input L, output twteter, middle, woofer 1 Modul ETC-2-10 Loud Speaker R dan L: Twteter, 8 ohm/400 watt, Middle, 8 ohm/200 watt, Woofer, 8 ohm/300 watt - PCB menggunakan Fiber berlapis Catalist - Power 220VAC - Aluminium Profil Clas B, weight 0.891 kg x 3btg - Data teknis: Dimensi : 1000 x 400 x 1000mm		Rp 11.220.000
76	Assembling & Integrent Refrigerant Trainer /kulkas trainer	1 LTC-10-1 Compressor 1 PH 220V-240V SOHz/81 W R134 1 LTC-10-2 Input Valve 1 LTC-10-3 Liquid Line 1 LTC-10-4 Filter Drier 1 LTC-10-5 Sight Glass Control 1 LTC-10-6 Low Pressure Gauge 1 LTC-10-7 High Pressure Gauge 1 LTC-10-8 Condenser 1 LTC-10-9 Evaporator 1 LTC-10-10 Cooler Box Acrylic Transparant, with door switch control 430 x 260 x 580mm - Piping Tembaga 1/4" dengan warna merah,kuning - ELECTRICAL SYSTEM - Power and Instrument 1 LTC-10-11 ELCB 1PH 25 220 - 240 VAC 1 LTC-10-12 Power Indicator Lamp 220 VAC 1 LTC-10-13 Fuse box, fuse glass tipe 5A 1 LTC-10-14 Voltmeter max 300VAC 1 LTC-10-15 Amperemeter max 5A 1 LTC-10-16 Stop Contact In Bow- 220 VAC - Integrent Refrigerant Control 1 LTC-10-17 Power Indicator 220 VAC 1 LTC-10-18 Fuse box, fuse glass tipe 3A 1 LTC-10-19 Temperatur Control Setting standard 1 LTC-10-20 Display Temperatur Digital 3 Digit 1 LTC-10-21 Refrigerating Temp Sensor - 1 LTC-10-22 Evaporator Temp Sensor 1 LTC-10-23 Head Lamp Indicator 220 VAC 1 LTC-10-24 Heater Simulator Indicator 220 VAC 1 LTC-10-25 Compressor Indicator 220 VAC Wiring Diagram For Compressor and Temperatur Control - Dimensi: Panjang : 1040mm - Lebar : 840 mm - Tinggi : 1500mm		Rp 32.120.000	83	Audio Stereo	- ETC14A-1 Power Supply, input 220 VAC, 3A, Out +12V, GDN - ETC14A-2 Input Selector Audio, input R - ETC14A-3 Input Selector Audio, input L - ETC14A-4 Tone Control (L) volume, Bass, treble, PCB standart ETC - ETC14A-5 Tone Control (R) volume, Bass, treble, PCB standart ETC - ETC14A-6 Power Amplifier, PCB standart ETC - ETC14A-7 Load Speaker R dan L - PCB menggunakan Fiber berlapis Catalist - Power 220VAC - Data teknis: Dimensi : 450 x300 x150mm - Aksesoris: 1 RCA cable - Power AC cable		Rp 8.250.000
77	Washing Machine Trainer	6 Fault Simulator - Tegangan/ Frekwensi 220V/50Hz - Daya Listrik 360 Watt - Kapasitas Pencuci 7.8 kg - Kapasitas Pengering 7.8 kg - Tekanan Air 0.03 MPa -0.8 MPa - Panjang : 580 mm - Lebar : 630 mm - Tinggi : 1540mm - Aksesoris: 1 Stackable plug with cage spring - Manual Book/CD		Rp 11.000.000	84	Audio Mono Trainer	- ETC14B-1 Integrated modul: *Pre Amp Mic *Pre Amp Head *Tone Control *Power Amp - ETC14B-2 Schematic diagram - ETC14B-3 Tape Mechanic - ETC14B-4 Speaker, 1 x 20 watt/8 ohm - PCB menggunakan Fiber berlapis Catalist - Power 220VAC - Data teknis: Dimensi: 450 x 300 x 150mm - Aksesoris: 1 Power AC Cable - Buku Manual / CD		Rp 7.700.000

1	2	3	4	5	6	7	8	9	10
85	Electronic Application Trainer	- ETC14A-1 Power Supply, input 220 VAC, 3A, Out +/- 12V, GDN - ETC14A-2 Resistor Bank - ETC14A-3 Capacitor Bank - ETC14A-4 TrafoOT - ETC14A-5 Switch - ETC14A-6 Loud Speaker 4" - ETC14A-7 Variable Resistor - ETC14A-8 Resistor - ETC14A-9 LED - ETC14A-10 PTC - ETC14A-11 Logic NAND - ETC14A-12 OP-Amp - ETC14A-13 Transistor - ETC14A-14 LDR - ETC14A-15 NTC - ETC14A-16 Seven Segment - Power 220VAC Data teknis: Dimensi : 450 x 300 x 150mm Aksesoris: - Stackable plug with cage Springs - Power AC Cable - Buku Manual / CD	Rp 8.800.000	93	Basic Electronic Trainer (Box)	- Project Board - Switches - Digital Multimeter - Relay - Transistor - Indicator Lamp - Transformer - Function Generator - Power Supply - Variable Resistor - Module board : Acrylic 4mm, full colors printing - Connectors : Standard safety banana plug - Box: Medium density fiberboard, paint coating - Accessories : Jumper cable, power cable, electronic component - Dimension : 42x30x10 centimeter (WxLxH)	Rp 10.340.000		
86	DVD Trainer	Spesifikasi: - ETC15-1 Block diagram with fault indicator - ETC15-2 10 Fault Simulator - Multiple Watching Angle - Dolby Digital, DTS, HDCD Three Decoder - Remote Control - PCB menggunakan Fiber berlapis Catalist - Power 220VAC Data teknis: Dimensi : 500 x 450 x 150mm Aksesoris: - RCA cable - Power AC cable - Buku Manual / Presentation CD	Rp 6.600.000	94	Motor Cycle Trainer (Mesin 4 Tak)	- Mesin 4 Tak 100-125CC, Rekondisi - Dilengkapi dengan kunci kontak - Tangki bahan bakar kapasitas max. 1 liter - Lampu kepala - Lampu belakang - Lampu tanda belok - Pengapian GDI - New Battery 12V/3.5AH - Wiring Instalation Original - Panjang : 66 cm - Lebar : 50 cm - Tinggi : 134 cm - Bahan kerangka: Pipa Besi 1.5 inch	Rp 18.040.000		
87	Tape Recorder Trainer	- Block Diagram - Pre Amp Mic - Pre Amp Head And Record - Tone Control, Bass, Volume, Treble - Power Amp, 2 x 20 watt - Loud Speaker, 8 ohm/45 watt Data teknis: Dimensi: 450 x 300 x 150mm Substance: Aksesoris: - Stackable plug with cage springs - Power AC cable - Buku Manual / CD	Rp 6.600.000	95	Motor Cycle Trainer (Mesin 2 Tak)	- Mesin 2 Tak 100-135CC, Rekondisi - Dilengkapi dengan kunci kontak - Tangki bahan bakar kapasitas max. 1 liter - Lampu kepala - Lampu belakang - Lampu tanda belok - Pengapian GDI - New Battery 12V/3.5AH - Wiring Instalation Original - Panjang : 66 cm - Lebar : 50 cm - Tinggi : 134 cm - Bahan kerangka: Pipa Besi 1.5 inch	Rp 18.040.000		
88	FM Transceiver Trainer	- ETC13B-1 Block Diagram and KIT FM Receiver - ETC13B-1 Block Diagram and KIT FM Transmitter - ETC13B-1 Schematic Diagram ETC13B FM Receiver - ETC13B-1 Schematic Diagram ETC13B FM Transmitter - ETC13B-1 Loud Speaker, 8 ohm / 10 watt - ETC13B-1 Display Seven segment FM ETC - PCB menggunakan Fiber berlapis Catalist - Tuner FM 88 - 108Mhz - Power 220VAC Data teknis: Dimensi : 500 x 300 x 150mm Aksesoris: - 1 Set stackable plug with cage springs - Power AC Cable - Buku Manual / CD	Rp 6.600.000	96	Motor Cycle Trainer (Mesin 4 Tak)	- Mesin 4 Tak 100-125CC Rekondisi - Dilengkapi dengan kunci kontak - Starter Pedal dan elektrik - Tangki bahan bakar kapasitas max. 3,7 liter - Lampu kepala - Lampu belakang - Lampu tanda belok - Pengapian GDI - Aki 12 V - 3,5 Ah - Wiring Instalation Original - Rem depan Cakram hidrolik dengan piston ganda - Rem belakang Tromol Data Teknis: (P x L x T): 1.889 x 702x 1094 mm Jarak sumbu Roda 1.242 mm Jarak terendah ke tanah: 138 mm (CW) Bahan kerangka stand: Pipa Besi 1.5 inch, dilengkapi dengan roda caster	Rp 20.240.000		
89	Micro Control Trainer	- Microcontroller AVR - Arduino UNO - Input switch digital - Input Analog potensio, LDR - Sensor suhu Lm35 - Output LED 8 bit - LCD 16x2 Character - Segment 4 Digit Scanning - Output relay with indicator LED - Stepper motor 5VDC, 4bit - Proto Board - Power Supply 5 VDC, 12 VDC - USB asp Downloader - USB to serial TTL - Software programming Bascom AVR, Arduino Data teknis: Dimensi : 530 x 390 x 200mm Aksesoris: - 1 Set stackable plug with cage springs - Power AC Cable - Buku Manual / CD	Rp 8.800.000	97	Car Training Unit	- Mobil Toyota Kijang 5K tanpa body (Rekondisi) - SumberArus: Battery 12V/40AH - Engine 4 silinder4 tak 1300-1500 CC Recondition system - Transmisi Manual 4 Kecepatan handle CTM - Suspensi depan independent, belakang aksel rigid - Sistem kelistrikan lengkap dengan komponen-komponen sistem Kelistrikan Mobil - Sistem pengapian lengkap dengan komponen-komponen sistem pengapian - Sistem pengisian alternator lengkap dengan komponen-komponen sistem Pengisian - Optional: Kijang 4K 7K	Rp 51.700.000		
90	Audio System Trainer	- ETC16-1 Universal Pre Amp input, dual input witch selector - ETC 16-2 Tone Control, dual control Volume, Bass, Treble - ETC 16-3 Effect Circuit, Echo - ETC16-4 Mixer, 3 line in 2 out - ETC16-5 Power Amplifier, dual line power amplifier - ETC16-6 Load Speaker - Right dan Left Speaker(PxLxT: 20 x 14 x 29 cm) Box speaker menggunakan block board tebal 15mm dicat biru muda - PCB menggunakan Fiber berlapis Catalist - Power 220VAC Data teknis: Dimensi : 450 x 300 x 150mm Aksesoris: - RCA cable, Power AC cable	Rp 9.900.000	98	Car Training Avanza VVTi	- Engine K3 VVTi 1300-1500cc4 tak4 silinder Rekondisi -Rangka Toyota Kijang 5K tanpa body (Rekondisi) -SumberArus: Battery 12V/45Ah -Transmisi Manual 5 Kecepatan handle CTM -Suspensi depan independent, belakang aksel rigid,ban kondisi baru -Sistem kelistrikan lengkap dengan komponen-komponen sistem Kelistrikan Mobil -Sistem pengapian lengkap dengan komponen-komponen sistem pengapian -DLI scannerdiagnosisOBD2 -Sistem pengisian alternator IC lengkap dengan komponen-komponen sistem Pengisian -Original combination meter for K3 engine -Sistem pendingin dengan radiator, Roda kemudi,coverjok, elektrik lamp, baru -Sistem car trainer beroperasi normal.	Rp 53.900.000		
91	Production Counter	Spesifikasi: - Easy number setting - Single Up Counter input - Up to 999 counting number - Auto number compare - With Cycle time production - Remote Control For Setting Gassing: - Aluminium profile, - Acrylic Display, Bright Seven Segmen with Display Data teknis: Panjang: 450 mm Lebar: 450 mm Chasing terbuat dari aluminium Profil dan layar dilapis akrilik.	Rp 9.900.000	99	Motor Cycle Trainer (Mesin 4 Tak)	- Mesin 4 Tak 100-125CC, Rekondisi - Dilengkapi dengan kunci kontak - Tangki bahan bakar kapasitas max. 1 liter - Lampu kepala - Lampu belakang - Lampu tanda belok - Pengapian GDI - New Battery 12V/3.5AH - Wiring Instalation Original - Panjang : 66 cm - Lebar : 50 cm - Tinggi : 134 cm	Rp 18.040.000		
92	Opto Electronic Trainer	- 1 Modul ETC17-1 Power Supply (+5v,+15v,-15v, DC Variable) - 2 Modul ETC17-2 Modul Audio - 1 Modul ETC17-3 V to F Converter - 1 Modul ETC17-4 Transmitter - 1 Modul ETC17-5 Receiver - 1 Modul ETC17-6 F to V Converter - 1 Modul ETC17-7 Pulse Generator - 1 Modul ETC17-8 Pararel to Serial (Synchronous) - 1 Modul ETC17-9 Serial to Pararel (Synchronous) - 1 Modul ETC17-10 Pararel to Serial (Assynchronous) - 1 Modul ETC17-11 Serial to Pararel (Assynchronous) - 1 Modul ETC17-12 Analog to Digital - 1 Modul ETC17-13 Digital to Analog - PCB menggunakan Fiber berlapis Catalist - Power 220VAC Data teknis: Panjang : 1000 mm Lebar : 400 mm Tinggi: 760 mm	Rp 9.900.000	100	Body electrical Trainer	- Modul Head Lamp - Modul Horn - Modul Fog And Sign Lamp - Modul Relay - Modul Flasher - Modul Fuse - Modul Main Switch - Modul Battery - Modul Indicator Lamp - Modul Brake And Horn Switch - Modul Licence Polico Lamp - Modul Interior Lamp C101 - Modul Reversa, Fog/Stop, Sign Lamp - Modul Starter Switch - Aluminium Profil Clas B, weight 0 891 kg Data Teknis Panjang:1000 mm Lebar:500 mm Tinggi:1100 mm Frame:A4	Rp 18.700.000		

1	2	3	4	5	6	7	8	9	10
101	Trainer Differential Gear Model	- Disc Wheel -Pressed Steel Disc Wheel -Ban Radial New -Drive Shaft -Differential -Model recondisi - Data Teknis - Model ini dipergunakan untuk mempelajari, merawatan dan trobleshoting: transmisi, poros penggerak, gardan, drive shaft, roda dan ban, mekanisme rem belakang. - Panjang: 1200 mm - Lebar: 1400 mm - Tinggi: 1000 mm		Rp 21.450.000	114	Mesin Pencetak Pelet Sampah	Mesin cetak pelet PK-250, Berat 120 kg, Kapasitas produksi 250-300 kg/jam		Rp 88.935.000
102	Trainer Poros Penggerak Roda	-Constant Velocity Joint type -Kendaraan F.F -Tripod Joint -New painting -Rekondisi - Data Teknis - Panjang:1500 mm - Lebar:800 mm - Tinggi: 1000 mm		Rp 24.640.000	115	Mesin Pencetak Briket	Kapasitas 75 - 100 Kg / Jam Dimensi 800 x 800 x 900 Penggerak motor listrik 7,5 PK		Rp 70.290.000
103	Automatic Transmission Trainer	- Automatic transmission 4 speed - Handel percepatan (PRND2L) - Oil Automatic Transmission Fluid - Motor penggerak 220v/2800 Rpm 1,5 Hp - Data Teknis - Panjang: 600 mm - Lebar:1200 mm - Tinggi:600 mm		Rp 27.720.000	116	Mesin Sherdder	Kapasitas 75 - 100 Kg / jam Dimensi 800 x 800 x 1100 Penggerak motor listrik 5PK		Rp 68.805.000
104	Car Air Conditioner Trainer	-With Motor 3 Phase, 1.5PK OTC5 -Inverter OTM5, 2PK 1P to 3P -Pressure Gauge Control -Speed Control -Temperature Control Digital -AC Blower Standard -New Battery 12V/45 AH -Testing Manifold Kit - Data Teknis - Panjang:1200 mm - Lebar:800 mm - Tinggi:1300 mm - Kerangka terbuat dari besi hollow 40x40mm.		Rp 27.720.000	117	Hammer Mill	Kapasitas 75 - 100 Kg / Jam Dimensi 800 x800 x 1100 Penggerak motor listrik 5PK		Rp 67.100.000
105	Power Window Central Lock Alarm Trainer	-Battery 12V 45 AH -Ignition switch -Switch Power Window (Assisten) -Drier switch Power window (Driver) -Plot lamp 2 unit -Alarm control system -Recondition system - Data Teknis - Panjang:1100 mm - Lebar:900 mm - Tinggi:1000 mm		Rp 17.050.000	118	Diskmill / Mesin Pembubuk Arang	Dimensi : 600 x 700 x 1000 mm Penggerak : Diesel 12 PK / 10 Hp 380 V 3 phase Kapasitas : 200 kg/jam, FFC 23		Rp 35.887.500
106	Stater System	- Data Teknis - Panjang:800 mm - Lebar:300 mm - Tinggi:400 mm - Aksesoris - Stackable plug with cage sprin		Rp 7.260.000	119	Genset Biogas	Diskripai Berat : 42kg, 1000watt		Rp 11.770.000
107	Charging System Type : 1C	-Modul Alternator Now -Motor 1P 220 VAC -Instal Wiring CT-01 - Data Teknis - Panjang:1000 mm - Lebar:300 mm - Tinggi:500 mm - Aksesoris - Stackable plug with cage springs		Rp 6.600.000	120	Mixer	Kapasitas 75-100kg/jam Dimensi 800x800x800 Penggerak motor listrik 5pk		Rp 56.925.000
108	Ignition Training Unit (GDI MA)	- Battery 12V/45 AH -Ignition Switch -Fuse -Speed Control CT-01LC -ECU Original -I/A Distributor - Spark Plug New - Data Teknis - Panjang: 1000 mm - Lebar: 300 mm - Tinggi:800 mm - Aksesoris - Stackable plug with cage springs		Rp 16.940.000	121	Mesin Pemeras Santan	Kapasitas 70 butir/jam Berat 72kg Motor 1,5HP Penggerak enggine GX-160 Dimensi: 970x450x690 Kapasitas 70 butir/jam Berat 72kg Motor 1,5HP Penggerak enggine GX-160 Dimensi: 970x450x690		Rp 36.795.000
109	Basic Electrical For Automative Trainer	-Modul Battery 12V/45AH - Modul Ignition starter -Modu Fuse Box - Modul Volt Motor dan Ampere Meter - Modul Lamp - Modul Lamp2 -Modul Horn -Modul Flasher -Modul Relay 12 VDC -Modul Motor Pump dan Fan -New System - Data Teknis - Panjang:1000 mm - Lebar:300 mm - Tinggi:800 mm - Aksesoris - Stackable plug with cage springs		Rp 13.200.000	123	Mesin Pamarut Singkong	Kapasitas 50kg/jam, penggerak motor listrik 1Hp/900		Rp 10.747.000
110	Ignition System Trainer	- Modul Accumulator Socket - Modul Ignition Key -Modul Fuse Box -Modul Amper motor -Modul Volt meter -Modul Control Unit -Modul Coil -Modul CDI C101 -Modul Coil Distributor - Modul Spark Plug -Electronics Speed Control - Aluminium Profil Clas B, weight 0.891 kg		Rp 13.200.000	124	Vibrating Screen	Kapasitas 75 sampai 100 Kg per Jam Dimensi 1000 x 2000 x 1200 Penggerak moror listrik 1 Pk		Rp 30.305.000
111	Injection PUMP Sectioned Type In Line	- Manual rotation simulation, bahan alas kayu dilapisi acrylic bening - cetak sablon, dipotong bagian priming pump, goveroor,plamerpump. - New painting/Recondisi - Dimensi: - Panjang : 300 mm - Lebar 210 mm - Tinggi : 280 mm		Rp 13.420.000	125	Mesin Prolisis	a. Tabung Prolisis Bahan : Stainless Steel 304 Volume : 100 Liter Kelengkapan : pintu masuk bahan/ pintu keluar bahan, thermometer indicator Pembakaran b. Tabung Kondensor : Bahan : Stainless Steel Volume : 100 Liter Kelengkapan: pipa pendingin bentuk spiral, pipa masuk dan keluar air pendingin, pipa keluarnya crude liquid Smoke c. Tabung Penampung Tar Bahan : Stainless Steel Volume : 4 Liter Kelengkapan : pipa masuk dan keluar liquid Smoke tar		Rp 69.685.000
112	Injection PUMP Sectioned Type Distributor	- Manual rotation simulation, bahan alas kayu dilapisi acrylic bening - cetak sablon, dipotong bagian priming pump, goveroor,plamerpump. - New painting/Recondisi - Dimensi: - Panjang : 300 mm - Lebar 210 mm - Tinggi : 280 mm		Rp 13.420.000	126	Oven Briket	Rangka :besi siku Bahan: plattezer Pemanas: Lpg/Bio massa/Briket Kapasitas: 1/4-1ton		Rp 29.920.000
113	Gasoline Diesel Sectioned	- Diesel engine 4 Tak 4 Cylinder 2000 - 2500 cc - Direct Injection model -Recondition system -Education Cutting Standart - Data Teknis - Panjang:800 mm - Lebar:700 mm - Tinggi:1200 mm		Rp 30.470.000	127	Tramisi Matic			Rp 6.435.000