

## THE RIGHT PARTNERSHIP



References



**REFERENCES: Motion control**

Application	Product	Features	Customer	
<b>Numerical Controls</b>	<b>PRIMACH-20L OI</b>	PC based high level operator's interface with Win XP embedded and Java for laser machines	<b>PRIMA INDUSTRIE</b>	
	<b>PRIMACH-20L RT</b>	PC and DSP based CNC with Linux/RTAI for laser machines	<b>PRIMA INDUSTRIE</b>	
	<b>PRIMACH-3me</b>	Low cost stand-alone NC for measuring machine	<b>COORD3</b>	
	<b>PRESTO</b>	Fully automated welding system for underwater pipelines	<b>SAIPEM</b>	
	<b>SWS</b>	Fully automated welding system (including welding head) with remote CANopen drives for underwater pipelines	<b>SAIPEM</b>	
	<b>CADMAN</b>	Numerical Control for press brake machines	<b>LVD</b>	
	<b>ATOLL</b>	Numerical Control for Laser Machine	<b>AIR LIQUIDE WELDING</b>	
	<b>MCC-200</b>	Numerical Control for CMM (Coordinate Measuring Machine)	<b>METRIS</b>	
	<b>Servodrives</b>	<b>BHL family</b>	Analog servodrives for brushless motors. Resolver and Hall effect rotor position transducers interface. Analog command interface from CNC. 230Vac 3-phase supply voltage.	<b>Various</b>
		<b>ISD family</b>	Intelligent servodrives for brushless motors. Resolver and Hall effect rotor position transducers interface. Analog command interface from CNC. 230Vac 3-phase supply voltage.	<b>Various</b>
<b>VFD300R family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. Analog command interface from CNC. 230Vac single-phase supply voltage.	<b>Various</b>	
<b>VFD300FC family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. CANopen interface to/from CNC. 230Vac single-phase supply voltage.	<b>Various</b>	
<b>VFD300FP family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. Profibus-DP interface to/from CNC. 230Vac single-phase supply voltage.	<b>Various</b>	
<b>VFD400R family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. Analog command interface from CNC. 230Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD400FC family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. CANopen interface to/from CNC. 230Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD400FP family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. Profibus-DP interface to/from CNC. 230Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD400P family</b>		Full digital servodrives for brushless motors. Resolver rotor position transducer interface. Proprietary Fiber Optics interface to/from CNC. 230Vac 3-phase supply voltage.	<b>PRIMA INDUSTRIE</b>	
<b>VFD500R family</b>		Full digital servodrives for brushless motors. Resolver and sinus encoder/scale rotor position transducer interface. Analog command interface from CNC. 400Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD500FC family</b>		Full digital servodrives for brushless motors. Resolver and sinus encoder/scale rotor position transducer interface. CANopen interface to/from CNC. 400Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD500FP family</b>		Full digital servodrives for brushless motors. Resolver and sinus encoder/scale rotor position transducer interface. Profibus-DP interface to/from CNC. 400Vac 3-phase supply voltage.	<b>Various</b>	
<b>VFD500P family</b>		Full digital servodrives for brushless motors. Resolver and sinus encoder/scale rotor position transducer interface. Proprietary Fiber Optics interface to/from CNC. 400Vac 3-phase supply voltage.	<b>PRIMA INDUSTRIE</b>	
<b>ReluSpeed</b>	Drives for Variable Reluctance Electric Motors, power from 6 to 100 KW	<b>SICME MOTORI</b>		





**REFERENCES: Industrial automation**

Application	Product	Features	Customer
<b>Regulators</b>	<b>ELEKTRONIKON I</b>	Entry level regulator for stationary compressor. Icon display, 6 keys keyboard, 3 Ainp, 3 Dinp, 6 Relay out, CANopen interface. 24 V ac or dc supply voltage. Fully programmable through CoDeSys soft-PLC.	<b>ATLAS COPCO</b>
	<b>ELEKTRONIKON II</b>	Mid level regulator for stationary compressor. 4x16 alphanumeric display, 8 keys keyboard, 5 Ainp, 10 Dinp, 9 Relay out, CANopen interface, built-in Real Time Clock. 24 V ac or dc supply voltage. Fully programmable through CoDeSys soft-PLC.	<b>ATLAS COPCO</b>
	<b>ELEKTRONIKON III</b>	High level regulator for stationary compressor. 4x40 alphanumeric display, 8 keys keyboard, 14 Ainp, 10 Dinp, 9 Relay out, CANopen interface, built-in Real Time Clock. 24 V ac or dc supply voltage. Fully programmable through CoDeSys soft-PLC.	<b>ATLAS COPCO</b>
	<b>AIOE</b> <b>DIOE</b>	Analog input/output expansion module for ELEKTRONIKON regulators Digital input/output expansion module for ELEKTRONIKON regulators	<b>ATLAS COPCO</b> <b>ATLAS COPCO</b>
<b>Industrial Communication</b>	<b>COMBOX-S</b>	CANopen to Modbus protocol adapter	<b>ATLAS COPCO</b>
	<b>COMBOX-P</b>	CANopen to Profibus-DP protocol adapter	<b>ATLAS COPCO</b>
	<b>FBP-PFP</b>	Dual channel Profibus-DP board with CPCI bus interface	<b>COMAU</b>
	<b>FBP-DNP</b>	Dual channel Devicenet board with CPCI bus interface	<b>COMAU</b>
	<b>FBP-IBC</b>	Dual channel Interbus-S board (wire connection) with CPCI bus interface	<b>COMAU</b>
	<b>FBP-IBO</b>	Dual channel Interbus-S board (Fiber Optics connection) with CPCI bus interface	<b>COMAU</b>
	<b>FBP-CAN</b>	Dual channel CANopen board with CPCI bus interface	<b>PRIMA INDUSTRIE</b>
	<b>AIRCONTACT</b>	GSM modem with CANopen, RS232C and Digital input interface. Fully programmable through CoDeSys soft-PLC.	<b>ATLAS COPCO</b>
<b>HMI</b>	<b>WiTP/wired</b>	Handheld terminal. 6.4" TFT display, functional keyboard, emergency and "hold to run" pushbuttons. Ethernet TCP/IP port. 24 Vdc supply.	<b>COMAU</b>
	<b>WiTP/wireless</b>	Handheld terminal. 6.4" TFT display, functional keyboard, emergency and "hold to run" pushbuttons. WiFi connection. Battery operated.	<b>COMAU</b>
	<b>RPU-20L</b>	Handheld terminal. 6.4" TFT display, functional keyboard, emergency and "hold to run" pushbuttons. Optional three axes joy-stick. Ethernet TCP/IP port. 24 Vdc supply.	<b>PRIMA INDUSTRIE,</b> <b>CAMPETELLA, NEGRI BOSSI</b>
	<b>ARKEY</b>	Handheld terminal for measuring machines. CANopen interface to the CNC. Three axes joy-stick. Feed rate override potentiometer.	<b>COORD3</b>
	<b>Copilot interface</b>	Copilot Logistics, Copilot Ceramics, Copilot Rotocolor. HMI for machine	<b>SYSTEM</b>





**REFERENCES: Energy**

Application	Product	Features	Customer
<b>Power generators</b>	<b>FC-X</b>	Control and power electronics for fuel cell electrical and thermal generators	<b>EPS</b>
	<b>COGEN</b>	Control and power electronics for a thermal engine operated co-generator (electric and thermal power generation)	<b>LOMBARDINI</b>
	<b>CU-IH-100KW</b>	Control and power unit for Induction Heaters up to 100 kW	<b>INDUCTION</b>
	<b>Energy Box</b>	Energy supplier for on board drives	<b>FIVE CINETIC</b>

**REFERENCES: Aerospace & Defense**

Application	Product	Features	Customer
<b>Control &amp; power units</b>	<b>ECU - MEP</b>	Control Units for Naval Electro Hydraulic Cranes, manufactured in total compliance with MIL Specifications	<b>PELLEGRINI FOR US NAVY</b>
	<b>MB-20</b>	Control Units for Gyrocompasses	<b>MICROTECNICA</b>
	<b>VFD-R 42/60</b>	Power and control unit for under-water vehicle	<b>BOFORS</b>
	<b>Battery charger</b>	Battery charger for underwater system	<b>SAAB UWS</b>
<b>Test benches</b>	<b>ECU - Lageos</b>	Acquisition and simulation benches for the launch sequence of Lageos satellite	<b>AERITALIA</b>
	<b>E.C.U. Test Set</b>	Functional test benches for flight ECU (flap control on AMX)	<b>MICROTECNICA</b>





**REFERENCES: Transportation**

Application	Product	Features	Customer
<b>Power suppliers and converters for railway market</b>	<b>DC/AC 110Vdc/380Vac 800VA</b>	110Vdc/380Vac 800VA 3-phase converter power supplier for Emergency fun motor mounted on Pendolino in Portugal	<b>FIAT FERROVIARIA</b>
	<b>DC/AC 72Vdc/380Vac 800VA</b>	72Vdc/380Vac 800VA800VA 3-phase converter power supplier for Emergency fun motor mounted on Pendolino bogies in Slovenia	<b>ELETTROMECCANICA PARIZZI</b>
	<b>DC/DC 24Vdc/36Vdc 400Watt</b>	24Vdc/36Vdc 400W converter power supplier for safety device on train. Used on Pendolino ETR470 Cisalpino	<b>FIAT FERROVIARIA</b>
	<b>DC/DC 24Vdc/72Vdc 550Watt</b>	24Vdc/72Vdc 550W and 24Vdc/13,5Vdc 110W converter power supplier for safety device on train board. Used on Pendolino ETR460 Italy - France	<b>FIAT FERROVIARIA</b>
	<b>DC/DC 110Vdc/24Vdc 600Watt</b>	110Vdc/24Vdc 600W converter power supplier for External light locomotive	<b>FIREMA</b>
	<b>DC/AC 24Vdc/220Vac 200Watt</b>	24Vdc/220Vac 200 single phase converter to supply personal PC for maintenance purpose. Used on trams in Rome and on Pendolino China EMU-MOR-CA250	<b>ALSTOM FERROVIARIA, CRC</b>
	<b>Filter Pc Socket SM3</b>	1550W passive filter to supply PC. Used on Pendolino SM3 Finland	<b>ALSTOM FERROVIARIA</b>
	<b>DC/AC 72Vdc/380Vac 800VA-ATM</b>	72Vdc/380Vac 800VA 3-phase converter to supply compressor for first step raising pantograph. Used on metropolitan train ATM	<b>ATM - AZIENDA TRASPORTI MILANESI</b>
	<b>700Watt PC filter</b>	700W active filter to supply PC (to permit the use of personal computer on the trains). Used on all the train carriages of CTR Minuetto Trenitalia	<b>ALSTOM FERROVIARIA</b>
	<b>1000Watt PC filter</b>	1000W active filter to supply PC (to permit the use of personal computer on the trains). Used on all the train carriages of new Pendolino	<b>ALSTOM FERROVIARIA</b>
	<b>DC/DC 24Vdc/110Vdc 2000W</b>	24Vdc/110Vdc 2KW converter to supply internal train carriages devices. Used on Pendolino China EMU-MOR-CA250	<b>ALSTOM FERROVIARIA, CRC</b>
	<b>PC plug filter for train carriage. DC/DC converter.</b>	Supply filter for Personal computer. DC/DC converter for New Pendolino	<b>ALSTOM Spain</b>
<b>035N-2,5KVA / 035Q 4KVA</b>	2,5 KVA - 4KVA Power supply system, input 380V 3-phase output 150Vac single-phase 75 Hz and 144Vdc used for safety system and railway signaling system.	<b>CIRCUMVESUVIANA DI NAPOLI</b>	





**REFERENCES: Transportation (cont'd)**

Application	Product	Features	Customer
<b>Control and measurement for railways</b>	<b>CRS board</b>	Hunting Wheels Control Unit. Used on train carriages of Pendolino ETR450.	<b>FIAT FERROVIARIA</b>
	<b>CLAS control unit</b>	The side active electronic control unit and hunting survey (stability and running comfort). Used on ETR500 locomotives.	<b>FIAT FERROVIARIA, ANSALDOBREDA, FIREMA TRASPORTI ANSALDOBREDA</b>
	<b>CBC control unit</b>	Control Unit for hot box detection . Used on train carriage EMU-V250	<b>ANSALDOBREDA</b>
	<b>CSM control unit</b>	Bogie stability monitoring system. Used on EMU-V250 train carriages	<b>ANSALDOBREDA</b>
	<b>Digital Manometer</b>	Brake Pressure Visualizer for Pendolino. Used on all the vehicles of the ETR460, ETR480, Pendolino Portugal	<b>FIAT FERROVIARIA</b>
	<b>Conditioning control board</b>	Electronic board for function control of the conditioning air system. Used on Pendolino China EMU-MOR-CA250	<b>ALSTOM FERROVIARIA, CRC</b>
	<b>Service Board</b>	Service board for variuos function on Pendolino China EMU-MOR-CA250	<b>ALSTOM FERROVIARIA, CRC</b>
	<b>Minimum voltage detection</b>	Minimum voltage monitor for relay board. Used on Nuovo Pendolino and Pendolino China EMU-MOR-CA250	<b>ALSTOM FERROVIARIA, CRC</b>
	<b>Sliding doors control</b>	Sliding doors control unit for Torino VAL underground (FIAT / Siemens Transportations)	<b>OCLAP</b>
<b>Naval System</b>	<b>Sliding doors control</b>	Sliding doors control unit for SNCF TRN-JOUR-Temoinsa cars	<b>OCLAP</b>
	<b>Mp23 Autopilot</b>	Gyropilot integrated with the gyrocompass control unit. Used on mercantile ship.	<b>MICROTECNICA</b>
	<b>Mp37 Autopilot</b>	Gyropilot integrated with the computer navigation system. Used on mercantile ship.	<b>MICROTECNICA</b>
<b>Automotive</b>	<b>Mp46 Autopilot</b>	Adaptive gyropilot integrated with the computer aided navigation system. Used on mercantile ship.	<b>MICROTECNICA</b>
	<b>Klima 2000</b>	On-board data acquisition system for air temperature/speed mapping inside vehicles	<b>CRF / PSA</b>





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