



COMPANY
PROFILE

ELETRONIC
SYSTEM
FOR POWER
CONTROL

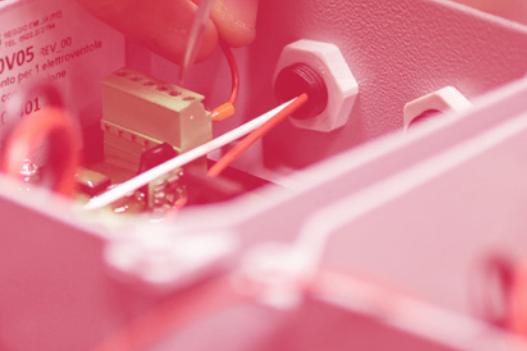


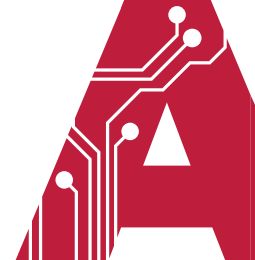


WELCOME TO ARES.

COMPANY PROFILE

Ares Elettronica is a company in continuous evolution to meet Customer's necessities in a challenging market and to satisfy even the most complex technological request.





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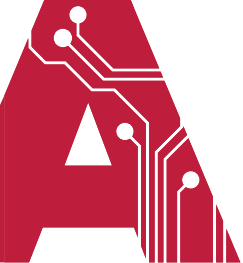
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05

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07





THE COMPANY WHO WE ARE

Ares Elettronica is part of Tecfluid group. Tecfluid's goal is to make hydraulics HPUs, valve and integrated hydraulics block.

The ARES range of products and the commercialized electronic and electromechanical components, easily identify the company as a Premier Partner for all the Customer that, today more than ever, want to work with a High Added Value supplier that can help to identify the best solution and products needed to complete even the most complex machinery.

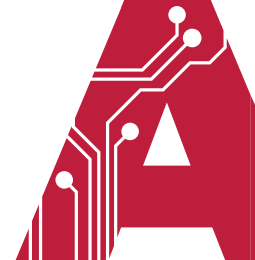
As of today ARES is in the process of expanding its sales distribution network, with Tecfluid collaboration, in Italy and abroad. In 2022 the turnover of Tecfluid Group reached € 30 millions with 100 employees.

The Group is located in Reggio Emilia, an area where hosts one of the most important industrial district of the Country with the massive presence of Automotive related companies, Agricultural and Earth Moving, Pharma and some of the most advanced technological companies in southern Europe, not to mention the City is known as one of the World Capital in Hydraulics

ARES target is to serve the **motion control market** with its range of Joysticks, radio remote control and electronic control board with proportional and on/off logics and a wide range of sensors.

ARES carry an experience that spans over 20 years, giving it the knowledge and know-how to satisfy any request coming from Customer and Distributors. ARES is also available to design from a clean slate any solution in its field of expertise.





JOYSTICK

JOYSTICK & ERGONOMIC GRIP

The ergonomics of the handle and the joysticks can be personalized according to the Customer needs, in order to adapt the handling to specific field of use.

The Joystick can be used to control on-off and proportional movement with analog output but they can also control PWM, Digital and CAN BUS.



heavy duty hall effect
Joystick MJ



3 axes hall
effect medium joystick



single axes hall
effect fingertip JOYS-2



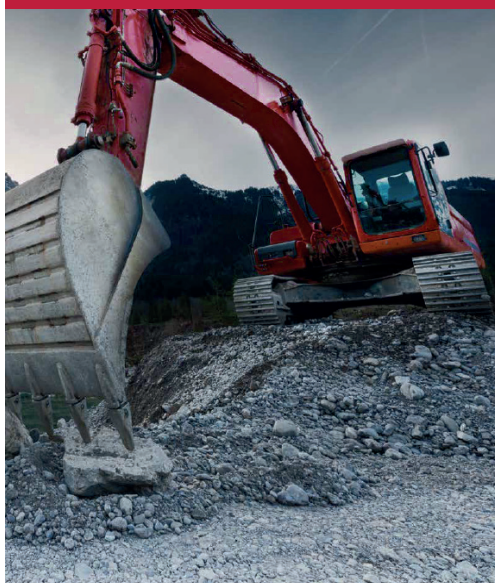
custom
multifunction handle

02

The range of electronic Joysticks made available by Ares had been developed to allow the control of TWO, THREE or FOUR axis with the action of a single handle. Joystick motions are detected via the measure of the magnetic field using the Hall effect thus avoiding any kind of mechanical wear to the control component, maximizing the lifecycle of the control system and reducing downtime and increasing reliability.



APPLICATIONS



EARTH MOVING MACHINE
AND EXCAVATOR

AGRICULTURAL MACHINERY

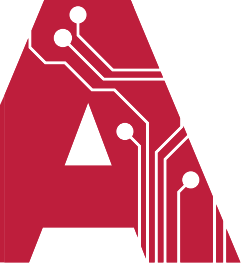
AGRICULTURAL IMPLEMENT
AND ATTACHMENT

AERIAL PLATFORM

FOREST STEWARDSHIP
MACHINERY

FORKLIFT TRUCK

TELEHANDLERS



CONTROLLI REMOTI MITO REMOTE CONTROL

MITO

Mito Control is an hand held radio remote control for professional use. The radio remote (transmitter) is powered by a modern battery that can be recharged via USB-C universal standard connector, with 40 hours of use on a single charge. Thanks to the Olink connection technology the communication between the remote control and the controlled equipment is secure and reliable in every working environment.

CONTROL 9

The Radio Receiver is made to control high professional application.

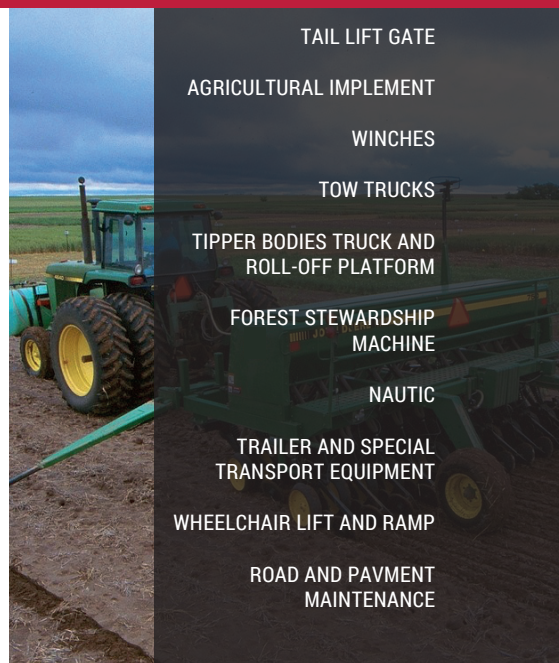


MITO WIRE

Mito Wire is a wire connected hand-held control unit for professional application with ergonomics focus on safety. The onboard microprocessor allow to manage input signal and to create personalized logic functions.



APPLICATIONS



TAIL LIFT GATE

AGRICULTURAL IMPLEMENT

WINCHES

TOW TRUCKS

TIPPER BODIES TRUCK AND
ROLL-OFF PLATFORM

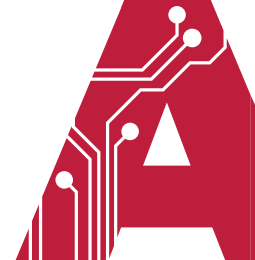
FOREST STEWARDSHIP
MACHINE

NAUTIC

TRAILER AND SPECIAL
TRANSPORT EQUIPMENT

WHEELCHAIR LIFT AND RAMP

ROAD AND PAYMENT
MAINTENANCE



ELECTRONIC CONTROL UNIT MULTIPORPOSE ELETRONIC UNIT

ARES offer a complete line of programmable ECU for the management of various application. The range is:

- **C programmable ECU**
- **Multi function ECU with relay**
- **Multi function ECU with PWM output**
- **Can open management according to ej1939 standard**



CSM-10 / CSM-20 ECUs for agricultural machine management. These unit can act as interface between the remote control and the chopper on tracked vehicle or vehicle with independent wheels, agricultural machine harvest machine and so on and so forth.

SCE-10 Programmable ECU for ramp up and ramp down start and stop cycle specifically designed for hydraulics lift system. Also a specialized ON/OFF version is available with proportional control via Joystick.

ATHENA C language programmable ECU, with various connection configuration and possibilities: 30 PIM I/O highly customizable with self protection and self diagnosis tools. It can be used as Master or Slave ECU in complex, multi control system, please note that it can have high power output.

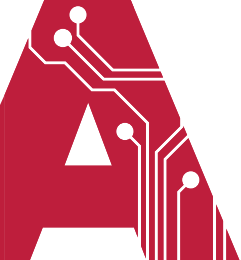
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APPLICATIONS



TAIL LIFT GATE
EARTH MOVING MACHINE AND EXCAVATORS
AGRICULTURAL IMPLEMENT
TOW TRUCKS
TIPPER BODIES TRUCK AND ROLL-OFF PLATFORM
FOREST STEWARDSHIP MACHINE
NAUTIC
RAILER AND SPECIAL TRANSPORT EQUIPMENT
WHEELCHAIR LIFT AND RAMP
ROAD AND PAVMENT MAINTENANCE
FORKLIFT TRUCK
TELEHANDLERS
HYDRAULICS SYSTEM



PROPORTIONAL CONTROL PWM DRIVER

ARES PWM driver range allows an easy control of any kind of proportional valves, that is possible for the fine tuning of every single parameter allowing the achievement of very high performance.

- **Octal and undecal driver**
- **Din-coil driver**
- **Bluetooth or trimmer settings**
- **2 axes joystick driver for 4 coils**



The **RSE-1** is capable of controlling a single solenoid proportional valve according to the control voltage applied. This driver, installed in an "OCTAL" socket can proportionally pilot an hydraulic circuit at speed.

The **RDE-1** is capable of controlling two opposing solenoid proportional valve according to the control voltage applied. This driver installed in an "UNDECAL" socket can proportionally pilot an hydraulic circuit at speed in both direction.

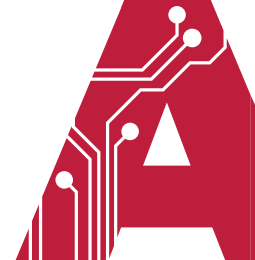
CVP-BT is a miniaturized electronic proportional regulator with a DIN connector (std. 43650 - ISO 4400) used to drive proportional solenoid valve used in hydraulics circuit. This system is controlled by a microprocessor belonging to the latest generation with 2.4Ghz Bluetooth interface through whom all the input and control parameters can be setted and controlled with a specific Android app.



APPLICATIONS



HYDRAULIC SYSTEM
AERIAL PLATFORM
FORKLIFT TRUCK
HYDRAULIC CRANE



BI-DIRECTIONAL CONTROLS BRUSHED DC MOTOR DRIVER

Bi-directional control for brushed DC motors (12 and 24 Volt) with up to 80Amps; this is typical for self propelled vehicle and hydraulic pump.

- Half bridge controller
- Full bridge controller
- Safety relay feature onboard
- Current and voltage feedback



ADC-20 Twin DC Motor controller (12 and 24V) with a total shared current up to 40Amps. The typical application is as a torque limiter on full load for load lifting machine.

ADC-30 Brushed DC motor controller for low energy application that allow the management of direction and speed of a motor (12 or 24V) up to 30Amps. This unit has an "ENABLE" input to control an internal switch-over (std. EN61810-1 2,5Kw e VDE40006681), the unit is also equipped with a self-learning of the maximum current at full load that will, after the acceleration ramp, will lock the movement, movement that will be unlocked only after removing the movement command.

ADC-80 Brushed DC motor controller for low energy application that allow the management of direction and speed of a motor (12 or 24V) up to 80 Amps. This unit has an "ENABLE" input to control an internal switch-over (std. EN61810-1 2,5Kw e VDE40006681), the unit is also equipped with a self-learning of the maximum current at full load that will, after the acceleration ramp, will lock the movement, movement that will be unlocked only after removing the movement command.

06



APPLICATIONS



HYDRAULIC SYSTEM

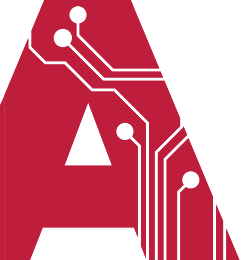
WINCHES

WHEELCHAIR LIFT AND
MOBILE RAMP

AERIAL PLATFORM

FORKLIFT TRUCK

TELEHANDLERS

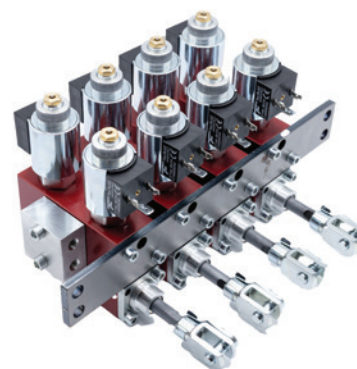


ACCESSORIES AND HYDRAULICS CONTROL SYSTEM AND ACCESSORIES

From ARES experience in hydraulics and controls comes the capability to design, develop and implement what customer wants and desire about HMI for specific application.



- Proportional hydraulic crane retrofit kit.
- Personalized control box.
- Inclination and limiting switch, both magnetic and encoder type, used to always have awareness of the moving part and to control/correct position.
- Programmable Relay.
- Temperature probe/sensors with integrated soft-start system.



07

APPLICATIONS



EARTH MOVING MACHINE

HYDRAULICS SYSTEM

TAIL LIFT GATE

AGRICULTURAL IMPLEMENT
AND ATTACHMENT

FOREST STEWARDSHIP
MACHINE

NAUTIC

TRAILER AND SPECAIL
TRANSPORT EQUIPMENT

WHEELCHAIR LIFT AND RAMP

ROAD AND PAVMENT
MAINTENANCE

FORKLIFT TRUCK

TELEHANDLERS

HYDRAULIC POWER UNIT AND VALVE

Thanks to the synergy with the rest of the group ARES can offer, to its Customer, Hydraulic power packs, bankable distributor and electric cartridge valve for custom application.



MECHANICAL TRANSMISSION

Ares Elettronica make and distribute various component like torque multiplier and reducer, belt tensioner, splined half coupler, mechanical coupling and magnetic coupling.





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