

## HYDRAULIC MULTI POWER GROUP FOR TRUCKS AND VANS



**TRIDENT is a compact accessory for trucks and vans designed to supply electric energy, pneumatic energy and hydraulic energy at low cost and everywhere.**

**The group exploits the power of trucks engines transforming them from normal transportation vehicles into real working equipment powerful, quiet, versatile, economical and with minimal maintenance needs**

**The group is ideal in all external maintenance works that are normally made using trucks and vans**

**TRIDENT is formed by the assembly of three main parts :**

- one welding / generator unit with hydraulic motor
  - one compressor head with hydraulic motor
  - one hydraulic power pack complete with oil tank, valves, oil cooling system, oil filter and quick couplers
- a 12 Volt electric circuit with control panel completes the group, all parts are installed into a compact frame that assures a easy positioning on board on service trucks, military end rescue vehicles, off road vehicles, tractors , mobile workshops, etc.

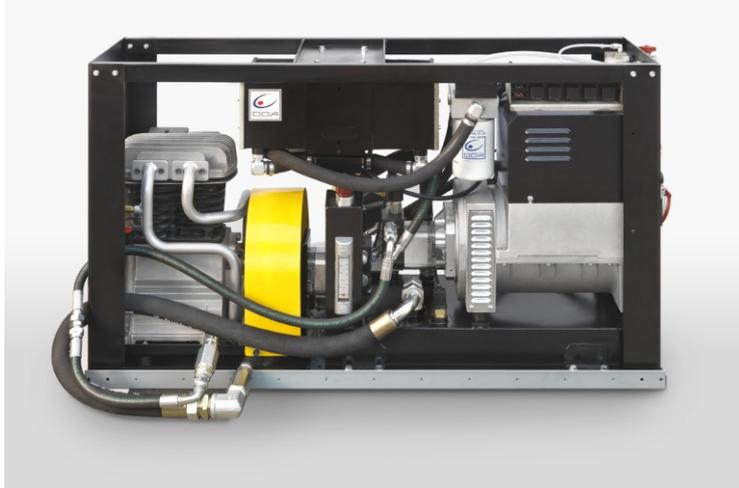
**The group is installed on vehicles in the more adequate position, it must then be hydraulically connected with two hoses ( one for suction and one for pressure ) to the hydraulic gear pump of the vehicle , this will form a real multi purpose power unit powered by the vehicle engines.**

**By using the oportune button control panel is possible to choose the energy to be used; air or welding / generator or hydraulic tools**



## TYPICAL USERS

**MAINTENANCE OF GAS AND WATER NETWORKS,  
MUNICIPALITIES , MILITARY AND CIVIL PROTECTION  
ORGANISATIONS , FIRE FIGHTERS MOBILE WORKSHOPS  
VEHICLES USED FOR OPERATIONS IN REMOTE AREAS**



## ADVANTAGES

The advantages are several and concrete:

- 1 - Possibility of welding at 300 Amps .
- 2 - Possibility of having current triphase/ single phase up to 8.5 kVA
- 3 - Possibility of generating air compressed up to 500 litres per minute
- 4 - Possibility of powering hydraulic tools at their maximum power
- 5 - Great reduction of weight , dimension of the equipment transported
- 6 - High power and maximum quietness
- 7 - Simplification of the equipment and ideal and total utilisation of the vehicles
- 8 - Easy use and no problem of continuous loading/downloading equipment from vehicles
- 9 - Minimal maintenance needs
- 10 - No thefts of equipment and fuel
- 11 - In case necessary the group can be disassembled easily by using the quick couplers and reinstalled on other vehicles



# TECHNICAL CHARACTERISTICS

## PRIMARY HYDRAULIC POWER NECESSARY FROM TRUCKS

**FLOW** min - max 36 - 42 L/min  
**PRESSURE** min max 170 - 210 Bar

## CHARACTERISTICS OF THE HYDRAULIC PART

**OIL TANK CAPACITY** 24 Litres  
**COOLING SYSTEM** two high efficiency radiators air /oil with centrifugal fan 12 Volt ( 24V available )  
**OIL FILTER** SPIN ON type  
**ON/OFF CONTROL VALVE** Three way type with relief valve and with quick couplers on swivel elbows  
**SELECTION OF THE USE** electric control panel with buttons one use at the time

## HYDRAULIC POWER FOR HYDRAULIC TOOLS

**FLOW** Up to the maximum flow available from the primary circuit  
**PRESSURE** regulated at 150 Bar

## CHARACTERISTICS OF WELDER AND GENERATOR

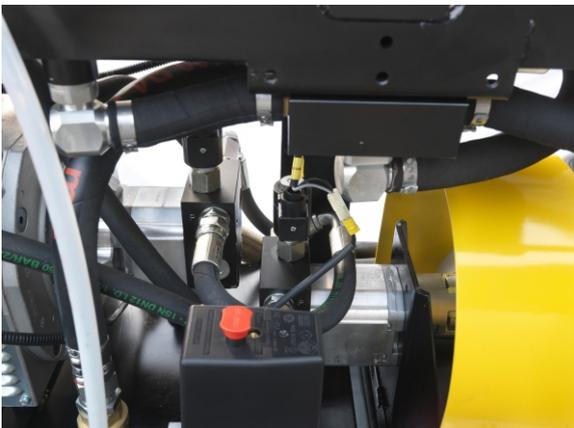
**WELDER TYPE** SINCRO FW2-DC with Volt meter and RCBO protection  
Electro mechanical type DC current 2 poles with brushes  
duty 300A35% - 250A60% - 400A60%  
absorbed power 12 kW16Hp or 19 kW26,0 Hp  
- **WELDING POWER** max 300 Amp adjustable  
- **GENERATORE POWER** 6 KVA in Trifase - 4 KVA in single fase  
**HYDRAULIC MOTOR TYPE** Hydraulic motor group 2 with 12V solenoid ON/OFF

## COMPRESSOR CHARACTERISTICS

**COMPRESSOR TYPE** Compressor 2 Cylinders: 2 Stages  
Air aspirate: 800 L/min circa  
Air compressed : 500 L/min circa  
Air Pressure Max: 10 Bar  
**HYDRAULIC MOTOR TYPE** Hydraulic motor group 2 with 12V solenoid ON/OFF

## DIMENSIONS AND WEIGHT

**DIMENSION** cm 150 X 45 X H 70  
**WEIGHT** Kg 200 with liquids



DETAIL OF THE HYDRAULIC MOTORS WITH MODIFIED CAP THAT INCLUDES, SOLENOID VALVES 12 V FOR THE ON/OFF OF MOTORS