

Safe and comfortable welding, also in confined spaces! New lightweight power source for (tack)welding on constructions sites



The new compact and lightweight inverter for tack welding only weighs 18 kg and is provided with a cable supply box and a 20-meter connection cable.

Venvulas Lastechiek BV has introduced a perfect solution for safe and comfortable tack welding (MIG/MAG) of structural steel (concrete reinforcement) and light steel structures. The inverter can be used both in the open air and production halls and in smaller confined spaces. The newly developed inverter is the best alternative for the use of heavy and cumbersome power sources which, in addition, have to be used with isolation transformers in confined spaces. Venvulas' new, lightweight power source is produced in the factory in Dodewaard and supplied with a 20-meter connection cable and a lightweight plastic cable box. The whole package fits on the optional hand truck which provides for a maximum freedom of movement.

Due to technical complications, electrode tack welding is not very effective. Reason being the fact that the tack welds do not blend in very well with the final weld which causes them to remain visible. Hence why MIG/MAG tack welding is a solution, although it normally requires heavy, cumbersome welding machine which have to be placed on the desired place by a crane. Moreover, if the equipment is used in a confined space, it has to be used with a heavy isolation transformer because in such situations, the use of a rectifier directly connected to the power grid is not allowed. Such set-ups are heavy, bulky and difficult to move.

Newly developed inverter

Venvulas has developed a completely new MIG/MAG inverter which can be connected to the normal 400-volt power grid. The power source delivers no less than 320 A

at 30% duty cycle despite its small dimensions: 32 x 20 x 25 centimeters. Moreover, due to its light weight of only 18 kg, it is easy to move. The supplied plastic box with the DIN 200 wire spool and wire feed unit only weighs 9 kg. All types of wire (filled, solid) available for MIG/MAG can be used. The connection cable has a diameter of only 28 mm and a length of 20 meters. This makes it ideal for the mobile tack welding of reinforcing steel on construction sites, welding in confined spaces (the power source of the inverter is situated just outside the confined space) and welding of, for instance, light steel structures at heights. For contractors and companies active in the construction and rebar sectors, this is a very interesting combination because the whole package fits on a hand truck and can therefore be moved quickly anywhere. Also for shipyards, this is an ideal solution for comfortable, fast and economical tack welding of steel sheets.