

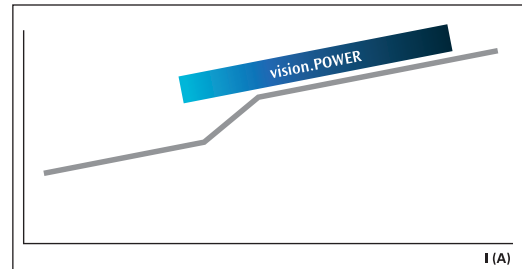
## HIGH PENETRATION MIG/MAG WELDING

vision.POWER is the innovative MIG/MAG process developed by CEA for welding medium large thickness steel and non ferrous materials (aluminium, copper, etc.), whenever high penetration is required.

By means of this special welding process, the arc cone becomes narrower, therefore its pressure is concentrated on a smaller area of the workpiece, thus heavily increasing the penetration.

vision.POWER more concentrated arc is ideal for fillet welding and to enter into very narrow joints requiring a very long stick-out.

vision.POWER enables to replace MIG/MAG spray arc welding with a remarkable increase in penetration and faster welding execution too.



### ADVANTAGES

- ▶ Deeper penetration at same welding current being used
- ▶ Far higher welding speed versus spray-arc MIG/MAG process
- ▶ Less consumption of filler material and shielded gas
- ▶ Heat transfer heavy reduction to eliminate hot cracking in the workpiece material
- ▶ Less welding passes thanks to reduced angle sizes in the edge bevelling
- ▶ Far less risk of different solid material inclusion into the welding bead
- ▶ Lack of porosity and blow holes
- ▶ No filler material overdepositing in butt joints
- ▶ Total lack of spatters and metallic projections

### APPLICATIONS

- ▶ Medium and heavy fabrication work
- ▶ Mild steel, stainless large erection works
- ▶ Ideal for welding in narrow gaps, where longer stick out is necessary
- ▶ “T” fillet welding
- ▶ Manufacture of heavy duty trucks and vehicles
- ▶ Shipyards
- ▶ Railway wagon manufacture
- ▶ Fabrication of large size tanks and containers

