

HI-ENERGY JOINING

The HEJ process is the industry's fastest, and cost-efficient means of joining coiled aluminum pipe.

A controlled, high-velocity impact produced provides a high quality metallurgical bond. The forward jet created between metal surfaces during their high velocity collision sweeps away the surface oxide film normally detrimental to metallurgical bonding. The cleaned metal surfaces are joined at an internal point by the high pressure obtained upon impact. Though there is local plastic deformation of the metal in the bond zone area, no heat-affected zones are created by the HEJ process. Furthermore, HEJ procedures are not affected by cold weather. Non-destructive ultrasonic tests can be easily performed in the field on HEJ welds to ensure their soundness.

ADVANTAGES:

- PRODUCES A BOND SUPERIOR TO CONVENTIONAL FUSION WELD
- THERE IS NO HEAT AFFECTED ZONE
- CAN BE PERFORMED AT -40 DEGREES C
- LIMITED SKILLS REQUIRED TO PERFORM HEJ
- LESS NUMBER OF WELDS

H.E.J. COMPONENTS

