

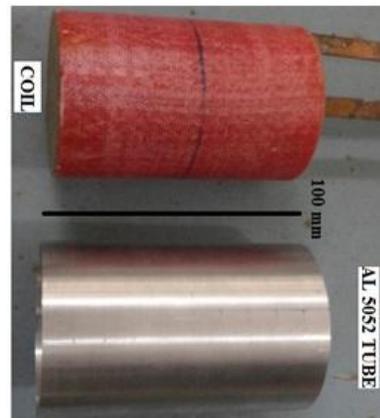
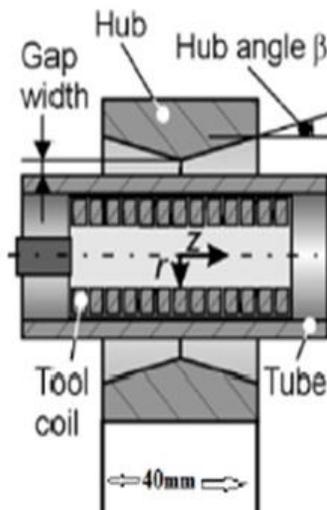
40kJoule Electromagnetic Welding/Forming Machine

System Specifications

Parameters	Specifications
Maximum Energy	40kJ
Capacitance	224 μ F
Proof voltage	20kV
No. of sub-banks	2
Short-Circuit current	590kA@20kV
Short Circuit Freq.	~22kHz
Controls	PLC & HMI
Trigger generator	IGBT & Fiber optic
Current Sensing	Rogowski coil
Charging Supply	CCPS 3kJ/s

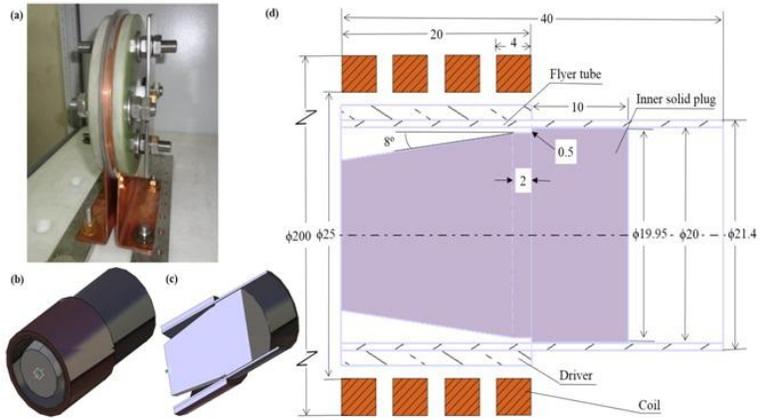
Application

The system is been currently used for Aluminum (5052) Tube to Aluminum (5052) Sheet expansion welding and D9 to SS316LN compression welding.

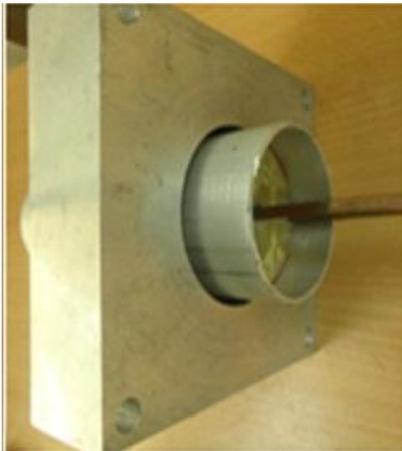


Expansion Coil & Tube

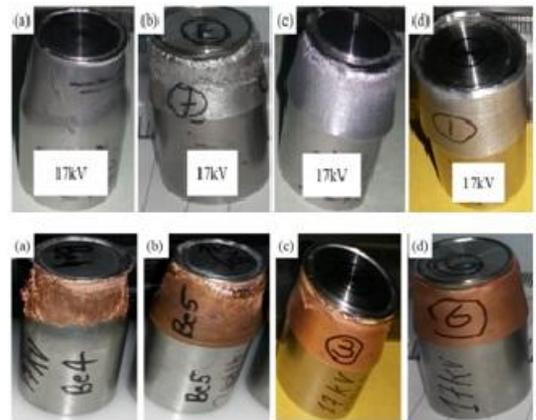
Expansion Welding Fundamentals



Compression Welding Fundamentals and Setup



Expansion Welding Practical Setup



Compression Welding Samples