

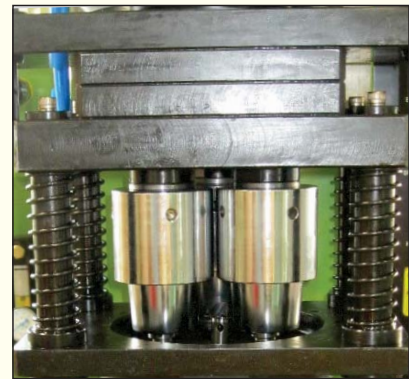
Synergetic Automation Pvt. Ltd.



 Synergetic

Orbital / Spin Riveting Machine

Multi Spindle / Multi Point Riveting
Increases Productivity
Reduction in Manpower

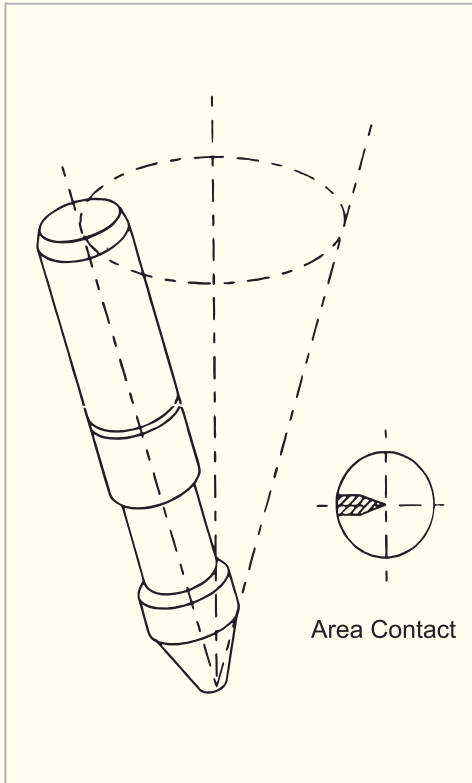


Multi Spindle / Multi point
riveting head / Tool holder and
Single Spindle Riveting head /
Tool holder are interchangeable

Orbital Riveting Process is a quiet, non-impact process of cold forming of metals. In conventional method the force is applied by hammer or pneumatic or hydraulic cylinder on to forming punch. Theoretically the riveting force required is the yield stress of material multiplied by the area of the riveting shank in contact with forming punch.

In orbital Riveting process the Riveting tool is inclined with respect to the rivet axis. This reduces the area of contact between punch and rivet shank. Thus the riveting force required is reduced drastically. The inclined riveting tool also rotates around the axis of the rivet. This results fine control of final form.

APPLICATION



Models	Shank Diameter (Mild Steel 38 Kg/mm ² U.T.S.)	Throat- depth	Shut height (Max)	Working Stroke	Cycle time adjustable	Over all dimension (mm)	Motor 3 phase 415V	Air pressure
S-5	5 mm	110 mm	185 mm	0-30 mm	0-9.9 Sec.	475x400x875	0.5 HP (0.37 Kw)	3-7 Kg/cm ²
S-8	8 mm	140 mm	230 mm	0-45 mm	0-9.9 Sec.	572x526x1150	1 HP (0.75 Kw)	3-7 Kg/cm ²
S-12	12 mm	200 mm	285 mm	0-45 mm	0-9.9 Sec.	695x586x1335	1.5 HP (1.2 Kw)	3-7 Kg/cm ²
S-16H	16 mm	225 mm	225 mm	0-45 mm	0-9.9 Sec.	550x760x1380	6.0 HP (4.5 Kw) Including Power Pack	0-80 Kg/cm ² (Hydraulic Pressure)
S-20H	20 mm	225 mm	285 mm	0-45 mm	0-9.9 Sec.	630x830x1600	6.0 HP (4.5 Kw) Including Power Pack	0-120 Kg/cm ² (Hydraulic Pressure)

Due to continuous product development dimensions are subject to revision without notice.

Advantages

- Fast Riveting Process
- Low Riveting Load • Quieter Riveting
- Causes limited deformation and pressure on parts to be assembled
- Simple tooling & easy set up
- Precise control on riveting process
- Reduces Cost

Optional Accessories

- Table Structure
- Special tooling to reach inaccessible parts
- Tool locking devices
- Pressure pad to hold down the assembly during riveting