

sme *S.M.ENGINEERS*



S.M.Engineers

(An ISO 9001:2008 Certified Company)

Regd. Office :18/1 Mathura Road Sector-20A

Faridabad-121007(Haryana) INDIA

T: +91 129 2295205

M: +91 9811320566

E-mail: sm_engg9@yahoo.in

Website: www.smerivetingmachines.com/co.in

Showroom/Godown :Plot no-9, Lane-1, 16/2 Mathura Road

opp. Badkal Mor metro station Faridabad-121002



Concept & Design: www.studlog.co.in

Spin/Orbital Riveting Machines
Pneumatic & Hydraulic



ABOUT US

We "S. M. Engineers", Established in the year 1997 at Faridabad, We are reckoned as one of the prominent manufacturers and suppliers of a comprehensive range of Industrial Riveting Machines(Pneumatic & Hydraulic). The products offered by us, consists of Spin Riveting Machine, Orbital Riveting Machines, Dual/Both End Riveting Machines, Pedustrial Riveting Machine, Cookware/Utensil riveting machine . Our highly qualified professionals manufacture these as per the defined industry standards, using advanced technology and high quality raw materials. In addition, our customers highly acknowledge these machines for attributes like durable finish, reliable performance, robust construction and longer service life.

In order to meet the specific requirements of our customers, we have set up a well equipped manufacturing unit. The entire unit is installed with all the relevant amenities and advanced & hi-tech equipment for the production of flawless Industrial Riveting Machines. We always endeavor to offer superior quality products. Never compromising on the quality, we supply best quality products in accordance with the international standards. Based on the feedback of our customers, we are constantly innovating our products. We also have a separate designing unit, which is equipped with CAD 2D & 3D software and other designing tools.

Under the able guidance of our mentor, 'Mr. Ranjan Gandotra', we have carved a niche in this highly competitive industry. He keeps complete team motivating, to give their best and meet the clients' demands. His rich industry experience and sharp business acumen have assisted us in developing a widespread clientele across the nation and worldwide.

APPLICATION

APPLICATIONS IN AUTOMOBILE INDUSTRY

- BRAKE LINING ASSEMBLY
- CLUTCH PLATE ASSEMBLY
- DOOR LOCK ASSEMBLY
- LEVERS
- DOOR HINGES
- BRAKE SHOES
- SCREW JACK ASSEMBLY
- BALL JOINT ASSEMBLY
- WIPER ASSEMBLY
- PISTON ROD FOR SHOCKER ABROSBER, ETC.

APPLICATIONS IN ELECTRICAL INDUSTRIES

- ELECTRICAL CONTACTS
- BULB HOLDERS
- MCB'S
- SWTCHGEARS ETC.

APPLICATIONS IN GENERAL INDUSTRIES

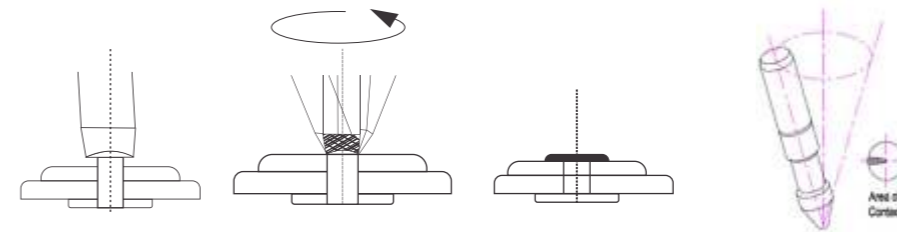
- HAND TOOLS, SCISSORS, PLIERS, FORKS, ETC.
- DOMESTIC APPLIANCES
- LUGGAGE INDUSTRIES, CASTERWHEELS LOCKS, ETC.
- DOOR HANDLES, LATCHES, HINGES, ETC.
- UTENSILES / COOKWARES
- IMPELLERS, ETC.

sme S.M.ENGINEERS

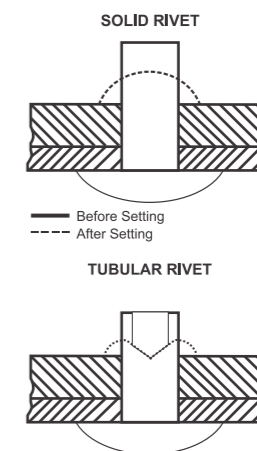
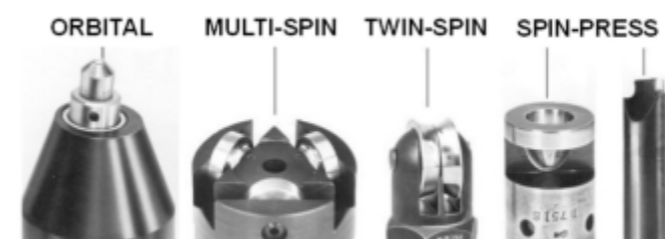
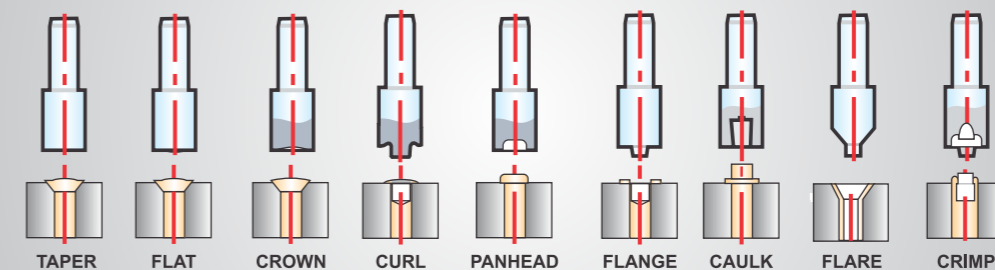
Why Spin / Orbital Riveting Process

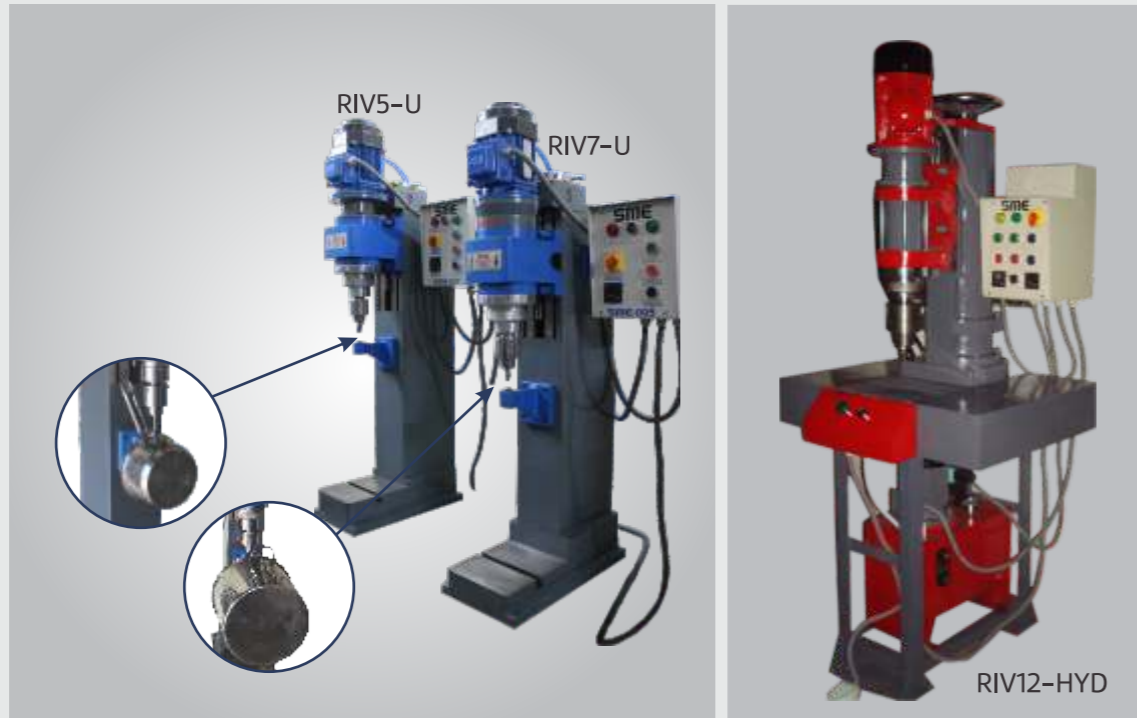
SPIN / Orbital Riveting Process is one of the most versatile process of cold forming of metals. The deforming force has to be so large that the stresses in the deforming region reaches the value of YIELD STRESS of that material. At this value of stress the material starts flowing and the riveting head is formed. In conventional method the force is applied by a hammer or by a pneumatic or hydraulic cylinder on a punch. Theoretically the riveting force required is the yield stress of the material multiplied by the area of the rivet shank in contact with the punch.

In SPIN / ORBITAL riveting process the riveting tool (or punch) is inclined with respect to the rivet axis. This reduces the area of contact between the punch and the rivet shank. Thus the riveting force required is reduced drastically. The inclined riveting tool also rotates around the axis of the rivet. This result in very gentle deformation of the material. These inclined riveting tools are set in tool holders from 3° to 5° according to the job



Different types of Riveting processes





MODEL NO.	RIVETING CAPACITY (MS) UPTO	THROAT DEPTH	SHUT HEIGHT(MAX)	STROKE ADJUSTMENT	AXIAL Force
RIV080/2	2mm	110mm	125	30mm	180 kgs
RIV100/4	4mm	125mm	150	30mm	300 kgs
RIV5-U	5mm	125mm	For Utensils upto 18" DIA	30mm	300 kgs
RIV6-U	6mm-SS	150mm	For Utensils upto 24" DIA	40mm	1200 kgs
RIV125/6	6mm	125mm	175	35mm	500 kgs
RIV7-U	7mm	125mm	For Utensils upto 21" DIA	35mm	500 kgs
RIV150/8	8mm	140/150mm	180	40mm	900 kgs
RIV160/10	10mm	150mm	180	40mm	1200 kgs
RIV200/12	12mm	200mm	200	50mm	1600 kgs
RIV12-HYD	12mm	150mm	180	45mm	1800 kgs
RIV16-HYD	16mm	150/200mm	200	50mm	3000 kgs

GENERAL SPECIFICATIONS

- (a) Electrical Panel consisting of built in overload relays, starter protection for motor, solenoid valve and electronic digital timer to control riveting time. (we use Schneider, T&C, Selec timer make product in our panel and Motor of make ABB
- (b) Micromatic adjustment (least count 0.02 mm) with graduated dial for precise stroke control,also equipped with provision for major shut height adjustment. i.e (Up / Down travel with handle wheel equipped with gear train and lead screw)



CYCLE TIME ADJUSTMENT	BASE AREA (WORKING)	MACHINE SIZE	MOTOR(H.P) 3Ph. 415V-1400 RPM	AIR PRESSURE
0-9.99 Secs	200X200	200 X 450 X 750	0.25	5-6 Kg/cm ²
0-9.99 Secs	200X250	250 X 500 X 900	0.50	5-6 Kg/cm ²
0-9.99 Secs	200X250	250 X 500 X 1275	0.50	5-6 Kg/cm ²
0-9.99 Secs	300x300	300 X 600 X 1500	1.50	5-6 Kg/cm ²
0-9.99 Secs	250X250	250 X 500 X 950	0.50 / 0.75	5-6 Kg/cm ²
0-9.99 Secs	200X250	250 X 520 X 1350	0.50 / 0.75	5-6 Kg/cm ²
0-9.99 Secs	300X300	300 X 600 X 1050	1.0	5-6 Kg/cm ²
0-9.99 Secs	300X300	300 X 600 X 1100	1.5	5-6 Kg/cm ²
0-9.99 Secs	300X375	300 X 700 X 1350	2.0	5-6 Kg/cm ²
0-9.99 Secs	300X275	300 X 575X1250	1.5+1.5	10-20 Kg/cm ² HYD. PR.
0-9.99 Secs	300X375	300 X 700X1500	2.0+2.0	20-30 Kg/cm ² HYD. PR.

- (c) Air filter, regulator and lubrication unit (make JANATICS)
- (d) Base provided with T-slot to clamp fixture
- (e) Rigid box type frame construction ensuring negligible deflection under load
- (f) Electrical foot switch

PEDUSTRIAL RIVETING MACHINES

PNEUMATIC



MODEL NO.	RIV160/8P
RIVETING CAPACITY (MS) UPTO	Upto 8mm
THROAT DEPTH	140mm
SHUT HEIGHT(MAX)	350
STROKE ADJUSTMENT	40mm
CYCLE TIME ADJUSTMENT	0-9.99 secs
BASE AREA (WORKING)	200x200
MACHINE SIZE	400x600x1800
MOTOR(H.P) 3Ph. 415V-1440 RPM	1.0
AIR PRESSURE	5-6Kg/cm ²

HYDRAULIC

MODEL NO.	RIVHYD/12P
RIVETING CAPACITY (MS) UPTO	Upto 12mm
THROAT DEPTH	150mm
SHUT HEIGHT(MAX)	350
STROKE ADJUSTMENT	50mm
CYCLE TIME ADJUSTMENT	0-9.99 secs
BASE AREA (WORKING)	225x250
MACHINE SIZE	600x750x1800
MOTOR(H.P) 3Ph. 415V-1440 RPM	1.5+1.5
HYD. PRESSURE	10-20Kg/cm ²



DUAL / BOTH END RIVETING MACHINES



MODEL NO.	RIV-BE6	RIV-BE8	RIVBE12H
RIVETING CAPACITY (MS) UPTO	6mm	8mm	12mm
THROAT DEPTH	125mm	140mm	150mm
SHUT HEIGHT(MAX)	200mm	300mm	400mm
STROKE ADJUSTMENT	35mm	40mm	45mm
CYCLE TIME ADJUSTMENT	0-9.99 secs	0-9.99 secs	0-9.99 secs
BASE AREA (WORKING)	300X1250	300X1350	300X1450
MOTOR(H.P) 3Ph. 415V-1440 RPM	1.0+1.0	1.5+1.5	1.5+1.5+2.0
AIR PRESSURE	5-6Kg/cm ²	5-6Kg/cm ²	20-30Kg/cm ² HYD. PR

NOTE :

We have all our models on display at our works and these models are in working condition. Also we have facility for sample Riveting, only you have to send us your components and Rivets by courier and we will send you the video of your component on the specific machine which is suitable for your component. Moreover we will also return back your Riveted components by courier for approval.

sme S.M.ENGINEERS