WELDCON
INDIA[P.]LTD.

THE COMPANY

We are located at Nashik, 180 Kms from Mumbai, spread over approximately 10000 sq. ft. area in the Prime Industrial Zone of Ambad, with all latest facilities required to produce and maintain tooling for Sheet Metal Welding. The trained staff and established vendor network, takes care of every minute problem in Manufacturing. Our service staff, with service centers, in Nashik, Pune, Delhi, Bangalore, Chennai and Rudrapur, is competent to handle any kind of resistance welding challenge. We have established a design center with all modern engineering software and trained engineers working round the clock for creating turn key solutions for Body In White Technology. The state of art tool room manufacture the components of these solutions with a stringent qualitative approach.

As a result of these efforts coupled with Engineering Expertise, Continuous up gradation of facilities, Commitment in meeting project deadlines and effective post sales support has enabled us to achieve over 7000 Installations spread over the country. This is one of the largest number of installations by any supplier in India. Not only has the number, but repeated orders from customers and customer retention to the extend of 100% speak volumes about the faith and trust created by Weldcon with Customers.

Experience in handling variety of jobs with innovation and willingness to accept challenges makes this Company the most vibrant team working in the field of Resistance welding in India. Aggressive product design and continuous up gradation of Technology is order of the day.

THE MISSION

A Solution based approach of the team for providing **Integrated Turnkey Services** for Body in white weld Shops to the Automobile and Engineering Industry at Large by **study & evaluation of project's requirements, innovative designs, meticulous planning, precise manufacturing, creating awareness** of the latest technological developments, committed deliveries and **after sale service.**

MILESTONES

1997 : Formation of Firm Weldcon India.

1999 : Association with TECNA S.p.A., Italy.

2000 : Supply of welding equipment lines for model A, B & C to Maruti Udyog Limited.

2001 : Conversion of Company to Private Ltd.

2002 : Welding Automation for Petrol Tank Line of Bajaj Auto Ltd.

2003 : Acquired a new premises of 45000 Sq. feet at Ambad Industrial Area.

2004 : Technology transfer for manufacturing of arms from Tecna.

2005 : Setup of State of the Art Tool Room.

2006 : Developed Networking Tool for Welding Machines.

2008 : Development of complete range of Light Track System.

2009 : Supply of Welding equipment lines to Mahindra Chakan

2009 : Formation of Wiresys Auto Components Pvt. Ltd. for Auto Component Business

2010 : Diversification in Agriculture Business by formation of SG Orchards

2011 : Introduced Nut & Bolt Feeders.

2012 : Introduction of new series of guns.

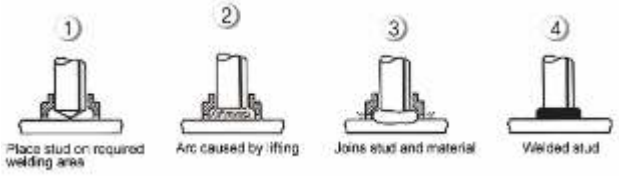
2013 : Formation of joint Venture with Tecna, S.p.A., Italy.

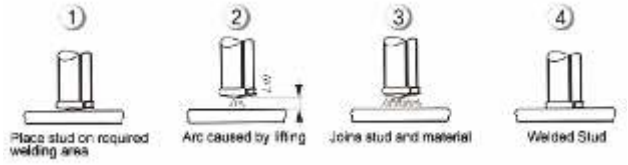
CLIENTELE

Maruti Suzuki India Ltd.
Ashok Layland Ltd.
Bajaj Auto Ltd.
Bharat Heavy Electrical Ltd.
BMW India Pvt. Ltd.
Caterpillar India
Fiat India Pvt. Ltd.
Ford India Pvt. Ltd.
General Motors India Pvt. Ltd.
Hindustan Aeronautics Ltd.
Hyundai Motor India Ltd.
John Deer
Krohne Marshall Pvt. Ltd.
Mahindra and Mahindra Ltd. Farm Equipment Sector
Mahindra and Mahindra Ltd., Auto Sector
Mahindra Navistar Automotives Ltd.
Piaggio Vehicles Pvt. Ltd.
Renault Nissan Automotive Pvt. Ltd.
Tata Motors Ltd.
The International Aerospace Manufacturing Pvt. Ltd.
VE Commercial Vehicles Ltd.
Volkswagen India Pvt. Ltd.
Jai Bharat Maruti Ltd.
Caparo Maruti Ltd.
Vee Gee Industrial Enterprises Pvt. Ltd.
S.K.H. Metals Pvt. Ltd.
Mahindra Ugine Steel Co. Ltd.

STUD WELDING

This process welds various size of studs to sheet metal or structure. These studs can be welded to base metal with two different processes. One is resistance welding and other is Arc Welding. Most commonly used process is Arc Welding in Automotive, Construction, and Engineering Industries. Three different types used in Arc Welding are, Drawn Arc Welding, Short Cycle Welding and Capacitor Discharge Welding. Heat Required for welding is generated by DC arc between Stud and base Metal. Welding Current is gained from Mains Transformer. Welding time and Welding Current is controlled by a microprocessor controller as per the combination of Stud to be welded and the base metal. It is very important to select the proper process according to shape of the stud being used. The process and machine capacity is selected depending upon the stud size, strength required and productivity required.
Various Power Sources of different Capacities are used. For higher productivity, auto stud feeders are also used.
Special Purpose Automated Machines and Robotic Applications are also available.





DRAWN ARC PROCESS (DA TYPE)

This process is typically deployed in construction and heavy machinery building. Sometimes special studs with Aluminium Balled Tips are used. Ceramic Pherules are used to contain the spread of arc. Inert gase is also deployed, when the oxidation is strictly to be avoided and when welding very large studs. Stud and Pherul is placed in collet of gun. On positioning the gun on base metal, weld cycle as illustrated above is completed by machine.

SHORT CYCLE (SC TYPE)

This process is similar Drawn Arc, but welding times are very short, typically 10-100 Mili-Seconds.
Due to shorter welding times, use of pherules is not required.
Peculiar application areas include Automotive and Motorcycle Industries.

CAPACITOR DISCHARGE STUD WELDING MACHINE

An extremely short discharge of capacitor bank enables the welding of ferrous and non ferrous metals up to 10 mm ø in around 2-3 ms. Studs, un-threaded pins and other fittings can be welded on thin plates with little modification of the painted, zinc or plastic coated surface

Digital control with 4 programs that can be stored and recalled by changing the gun. This allows to have up to 4 guns equipped and adjusted for 4 different parameters. LED function and diagnosis indicators with Microprocessor control unit compensating the mains variations. Forced ventilation cooling and Safety device and protection against casual use and failures is available.

POWER SOURCE

MANUAL GUN

			Welding Capacity			Supply		Charge Time		
Model	Capacity	No of Programs	MS/SS	GI Steel	Non Ferrous	Voltage	Current	Dia 4	Dia 6	Dia 8
TSW 1500	66 mF	4	2.5 - 8	2 - 6	2.5 - 5	220/240	5	2	2	2
TSW 2000	88 mF	4	2.5 - 8	2.5 - 8	2.5 - 6	220/240	8	1	2	3
TSW 2900	132 mF	4	2.5 - 10	2.5 - 8	2.5 - 8	220/240	10	1	2	4

ARC STUD WELDING MACHINE

POWER SOURCE

AUTO STUD FEEDER

MANUAL GUN

SEMI AUTO GUN

DATA FOR POWER SOURCE

Data for Power Source																			
Model		Operating Voltages Available / Fuse			Welding Current		Welding Time		Pilot Arc		Stud Head Dia		Duty Cycle	Max Welding Speed		Features			
					From	To	From	To	From	To	From	To		Size					
	No of Guns	Ph / V / Amps			Amp	Amp	Sec	Sec	Mili-Sec	Mili-Sec	mm	mm	%	mm	Nos/Min	Multi Program Selection	Digital Display	Inert Gas	Auto Feeder
SW-500-A		0 3Ph/220/40	3Ph/380/30	3Ph/440/20	100	500	0.01	1	30	100	3	8	25	8	5	N			
SW-850-2A		2 3Ph/220/60	3Ph/380/40	3Ph/440/30	100	850	0.01	1	30	100	3	8	25	8	20		S		O
SW-1400-2A		2 3Ph/220/100	3Ph/380/80	3Ph/440/60	100	1400	0.01	1	30	100	3	13	25	13	20	S	S		O
SW-1400-2A-ROBOT		2 3Ph/220/100	3Ph/380/80	3Ph/440/60	100	1400	0.01	1	30	100	3	13	25	13	20	S	S		O
HY-7-D		2 3Ph/220/100	3Ph/380/80	3Ph/440/60	400	1400	0.02	0.9	40	200	3	13	1.5	13	20			O	S
HY-7-D-ROBOT		2 3Ph/220/100	3Ph/380/80	3Ph/440/60	400	1400	0.02	0.9	40	200	3	13	1.5	13	20			O	S

N– Not Applicable/Available, S- Available as Standard Feature, O- Available as Optional Feature

DATA FOR GUNS

Model	Control Volts		Plunge Control Method	Weight *	Welding Cable		Operating Pressure	Air Consumption	Welding Speed	Force	Stroke (Max)	Feature	Suitable for Power Sources					
					Length	Section							SW-500-A	SW-800-2A	SW-1400-2A	SW-1400-2A-ROBOT	HY-7-D	HY-7-D-ROBOT
	V (DC)			Kg	Mtr	mm2	Bar	LPM	Studs/Min	N	mm	Auto Gap						
HY-40SL	90	Manual	Spring	1.8	3.5	22	NA	NA				Y						
HY-G-550	24	Semi Auto	Pneumatic	2.8			5	15	35			S		Y	Y	Y	Y	Y
HY-G-650	24	Semi Auto	Pneumatic	3			5	15	35			S		Y	Y	Y	Y	Y
HY-R-750-ROBOT	24	Automatic	Pneumatic	8.9			5	15	35	100	50	S				Y	Y	Y

* Weight excludes weight of Cables and Hoses

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