



## About Orbital Automation Ltd

Orbital Automation Ltd is the leading manufacturer of Welding Machines in the UK. Orbital Automation Ltd is an Orbital Group company which has 35 years of extensive experience in manufacturing and supplying special purpose machines.

Our innovative Welding Machines are developed and optimized for a wide-ranging application in numerous industries like aerospace, automotive, white goods, metal furniture, railway, electronics, medical, building, kitchenware and many more.

Our years of experience and passion for constantly striving to exceed the expectations of our clients have led us to become a key manufacturer and supplier of Welding Machine. As a company, we're dedicated to delivering exceptional value to every client we serve. Our competitive edge lies in understanding the Welding process combined with cutting-edge design capabilities and metal welding know-how. We are closely linked with world-renowned welding brands and the capability to design customized machines with automation.



## Welding Machines

**World class manufacturers and suppliers of Welding Machines**  
Latest Welding Technology for Cost-effective and Robust Joining of Diverse Materials and Material Combinations.



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## Spot Welding Machines (Table Mounted Spot-Welding Machine)

### Specifications

Model	OSWM-15	OSWM-25	OSWM-15*	OSWM-25*
Transformer	N/A	N/A	N/A	N/A
Capacity at 50% Duty Cycle	15KVA	25KVA	15KVA	25KVA
Rated Input Voltage	415V	415V	415V	415V
Max. Short Circuit Current in KA	8	10	8	10
WELD HEAD MODE	TC-70	TD-110	TC-70	TD-110
Cylinder dia X Stroke in mm	40 x 50	50 x 50	40 x 50	50 x 50
Max. Weld Force at 6 bar in kgf	70	110	70	110
No. of Pneumatic Weld Head	01	01	02	02
Throat Depth in mm	245	245	125	125
Throat Gap in mm	50	50	70	70
Electrode tip dimension dia in mm	8	12	12	12
Electrode Taper	MT2	MT2	MT2	MT2
Electrode tip Holder dimension dia in mm	16	25	25	25
Holder Length in mm	180	180	180	180
Cooling water volume in l/mm	15	15	20	20
Machine Size in mm W x D x H* (Approx.)	600X1005X1330	600X1005X1330	1800X550X1460	1800X550X1460
Machine Working Height in mm (Approx.)	950	950	950	950



## Spot Welding Machines (Pedestal Spot-Welding Machine)

### Specifications

Machine customised as per client requirements.



## Seam Welding Machine

### Specifications

## Specifications

Model	OSWM-75 C	OSWM-100 C	OSWM-150
Transformer	N/A	N/A	N/A
Capacity at 50% Duty Cycle	75 KVA	100 KVA	150 KVA
Rated Input Voltage	415 KVA	415 KVA	415 KVA
Cylinder dia X Stroke in mm	100 X 100	125 X 100	150 X 100
Max. Weld Force at 6 bar in kgf	425	680	680
Throat Gap in mm	200	200	200
Cooling water volume in l/mm	40	40	40
Machine Size in mm W x D x H* (Approx.)	760 X 1410 X 2540	760 X 1410 X 2540	760 X 1410 X 2540
Machine Working Height in mm (Approx.)	900-1000	900-1000	900-1000



## Projection Welding Machine

### Specifications

Model	OPWM-75	OPWM-100	OPWM-150	OPWM-300
Transformer	N/A	N/A	N/A	N/A
Capacity at 50% Duty Cycle	75 KVA	100 KVA	150 KVA	300 KVA
Rated Input Voltage	415 KVA	415 KVA	415 KVA	415 KVA
Max. Short Circuit Current in KA	25	30	35	50
Cylinder dia X Stroke in mm	150 X 100	150 X 100	200 X 100	250 X 100
Max. Weld Force at 6 bar in kgf	600	800	1400	2000
Throat Depth in mm	200	200	200	200
Throat Gap adjustment in mm	200 - 400	200 - 400	200 - 400	200



Model	OPWM-75	OPWM-100	OPWM-150	OPWM-300
T Slot Table size in mm	150 X 150	150 X 150	250 X 250	250 X 250
Cooling water volume in l/mm	40	40	40	40
Machine Size in mm W x D x H* (Approx.)	690 X 1240 X 2540	690 X 1240 X 2540	690 X 1240 X 2540	690 X 1240 X 2540
Machine Working Height in mm (Approx.)	900-1000	900-1000	900-1000	900-1000



## Orbital Welding Machine (Closed Arc heads)

### Specifications

Description	Unit	CA-25	CA-50	CA-75 M	CA-100
Speed Ranged	Rot / min	0.4 to 4	0.3 - 3	0.25 - 2.5	0.16 - 1.6
Power	Watts	25	25	25	25
Weight	Kg	3	4.5	5	9
Cable Length	Mtr	8	8	8	8



## Orbital Welding Machine (GTAW Power Source)

### Specifications

Function controlled	Weld current / pulse, Weld head rotation, Gas solenoid
Line Power	230VAC + -15% 50Hz Single Phase, 15 A, 4KVA
Motor Control	24VDC, 1A
No. of Weld program can be stored	200 program in AUTO mode, 400 program in MANUAL mode
Weld data Logger Reading storing Capacity	2000
Data recording / Printout	Operator name, weld ID number, O.D. Wall thickness Date, Time, Weld head model, Project, Drawing Number, Programmed Parameters
Dimensions	(L)510 (H)390 (D)220
Operating Temperature	-18 c to 50 c
Output Current	10A To 160A
Pulse Rate	0.2 To 100 Pulse / Sec
Open ARC Voltage	75 VDC
Weight	15 kg
Application	For use with all UNIVERSAL weld head, Welding Lathe, SPM



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