

SPOT WELDING MACHINE



SPOT WELDING MACHINE APPLICATIONS

- * Automotive Industry
- ★ Defense Industry
- ★ Fabrication Industry
- * Steel Furniture Industry
- * Home appliances Industry

SPOT WELDING MACHINE FEATURES

- * Modern Design and Compact Rigid Frame Structure
- ★ Consistent Welding Quality
- * Independent of Voltage Fluctuation
- * Easy and Safe operation
- ★ Low Impedance Transformer (AC; MFAC and MFDC)
- * Microprocessor based Welding Controller Kirpekar-make

SPOT WELDING MACHINE ADVANTAGES

- **※** Frictionless motion of RAM
- * Phosphor Bronze Bushes
- * Pneumatic Element : from reputed and quality manufacturers
- * Low Impedance The large output at low input can be obtained by the transformer of low impedance design reasonable secondary circuit configuration & high quality conductive material
- Long Life electrode holders: Stainless steel ring is press fitted at the mouth of the holder to hold the electrode. With this the expansion of taper hole of the tip insertion section can be prevented and thus the holder life is remarkable improved
- * Welding Controller: Easy to operated and Compact size.
- * Modular Construction of the welding heads: this facilities design of machines for automation and high rate of production











We also offer Projection Welding Machine with the following advantage:

1.High Precision

2.Easy Adjustment

Options:

- (1) Two operations in one machine, operating with a transformer and a controller with two heads in the same machine
- (2) 'T' Slot tables to mount fixtures for welding
- (3) Normally machines are supplied with AC Transformer for connection with 2 phase of supply. We can supply Mid Frequency (1000 Hz) transformer for connection three phase with suitable controller

Thickness Model	1.0	2.0	3.0	4.0
KSLP25 A/B				
KSLP 50 A/B				
KSLP 75 A/B				

Note: This is a capacity guide in consideration of "B" class mild steel sheets

SPOT WELDING STANDARD SPECIFICATION

Model	KSLP-25/35	KSLP-50	KSLP-75/100
TRANSFORMER			
Capacity at 50 % Duty Cycle	25/35 KVA	50 KVA	75/100 KVA
Rated Input Voltage	415 V	415 V	415 V
Max. Short Circuit Current in KA	12	16	20
WELD HEAD			
Weld Head Model	Round RAM	Round RAM	Round RAM
Cylinder dia X Stroke in mm	100x100	125x100	150x100
Max. Weld Force at 6 bar in kgf	470	470	1000
Number of Pneumatic Weld Head	01	01	01
Throat Depth in mm	400 - 600	400 - 600	400 - 600
Throat Gap in mm	200	200	200
Electrode Tip Dimension Dia in mm	16	19	19
Electrode Taper	MT2	MT2	MT2
Electrode Tip Holder Dimension Dia in mm	25	35	35
Holder Length in mm	250	250	250
Holder Arm Dia in mm	60	60	70
Cooling Water Volume in I/mm	15	20	20
Machine Size in mm W X D X H* (Approx)	490 X 1390 X 1750	490 X 1390 X 175	490 X 1390 X 1750
Machine Working Height in mm (Approx)	900-1000	900-1000	900-1000

^{*}Machine Size W X D X H -Width X Depth X Height ,*D- Dual Head

Spot Welding Machine also available

AC3 Phase DC

MFDC (Medium Frequency Direct Current)

Facility Data for Pedestal Spot Welding Machine

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	Weldir		Welding Power			Control Power Compressed Air			ed Air	Cooling Water (See note (3))						Earth Cable
	Nominal Power	Voltage			Voltage	Conne- cting Cable	Pressure	Air Volume (See Note (2)	Charging Hose Inner Dia.	Compr- essor Capacity	Pressure	Inlet Temp.	Flow Volume	Hose Inne Water Feed	r Diameter Water Exhaust	
	KVA	٧	Α	mm²	٧	mm²		L/mm	mm	KW	Kgf/cm ²	°C	L/mm	mm	mm	mm²
KSLP 25 A 25 B	25	415	100	22	220	1.25	5 ~ 7	110	9.5	1,5	1 ~ 3	Less than 30°	15	9.5	12.7	14
KSLP 35 A 35 B	35	415	150	38	220	1,25	5 ~ 7	110	9.5	1,5	1 ~ 3	Less than 30°	15	9.5	12.7	14
KSLP 50 A 50 B	50	415	200	60	220	1.25	5 ~ 7	120	9.5	1.5	1 ~ 3	Less than 30°	20	12.7	19	14
KSLP 75 A 75 B	75	415	300	80	220	1.25	5~7	120	9.5	1.5	1 ~ 3	Less than 30°	20	12.7	19	14

Notes

- 1) Connection cable has the min. section indicated, heat wise. The cable size may be enlarged according to wiring method and distance.
- 2) Compressed air volume indicates the atmospheric volume with 20mm electrode stroke, welding speed of 30s.p.m. and 5 kgf/cm2 air pressure
- 3) The Compressor capacity is fixed by this volume.
- 4) Industrial water with electric resistance over 500 __ cm is used.

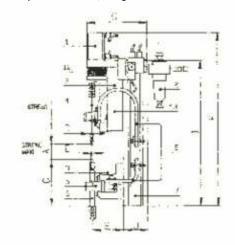
TABLE MOUNTED WELDING MACHINE

TABLE MOUNTED SPOT WELDING MACHINE ADVANTAGES

★ Due to modular construction of welding heads it is easy to design machines for automation, automatic feeding of components, high rate of production

SPOT WELDING HEADS FOR RESISTANCE WELDING AUTOMATION

- ★ Adjustment of pressure by regulator
- ★ Linear Motion guides for welding slide
- ★ Upper Electrode holder adjustable X-Y
- * Lower electrode Holder adjustable X-Y
- * Moving column on standard aluminum profile
- ★ Copper flex for secondary circuit (Optional)
- * Guide slot for tool fixing
- ★ Double head installation possible
- * Electrode holder device easily interchangeable for the adaption of tools ,fixing of tools out of the machine is possible



Welding Heads Details

Туре	Force (kgf)	A (mm)	B (mm)	C+10 (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	K (mm)
TB 18	18	20	70	125	12	3	400	124	40	335	40	71
TC 45	45	50	100	155	16	8	582	195	60	480	80	120
TC-70	70	50	100	155	16	8	582	195	60	480	80	120
TD 110	110	50	125	165	25	12	642	228	80	540	80	165
TD 175	175	50	125	165	25	12	642	228	80	540	80	165
TE 460	460	75	175	205	35	18	855	373	130	720	160	235

TABLE MOUNTED SPOT WELDING STANDARD SPECIFICATION

Model	KSLT-15	KSLT-25	KSLT-15 D*	KSLT-25 D*
TRANSFORMER				
Capacity at 50 % Duty Cycle	15 KVA	25 KVA	15 KVA	25 KVA
Rated Input Voltage	415 V	415 V	415 V	415 V
Max. Short Circuit Current in KA	8	10	8	10
WELD HEAD				
Weld Head Model	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
Number of Pneumatic Weld Head	01	01	02	02
Throat Depath 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 I/mm	15	15	20	20
Machine Size in mm W X D X H* (Approx)	600 X1005X1330	600 X1005X1330	1800 X 550 X 1460	1800 X 550 X 1460
Machine Working Height in mm (Approx)	950	950	950	950

Facility Data for Table Mounted Spot Welding Machine

Welding Power			wer	Control Power Compressed Air					Cooling Water (See note (3))							
Specification Model	Nominal Power	_	Capacity	Conne- cting Cable See Note 1	Voltage	Conne- cting Cable	Pressure	Air Volume (See Note (2)	Charging Hose Inner Dia.	Compr- essor Capacity	Pressure	Inlet Temp.	Flow Volume		r Diameter Water Exhaust	
	KVA	٧	Α	mm²	٧	mm²	Kgf/cm ²	L/mm	mm	KW	Kgf/cm ²	°C	L/mm	mm	mm	mm ²
KSLT 15	15	415	60	14	220	1.25	5 ~ 7	75	9.5	1.5	1 ~ 3	Less than 30°	15	9.5	12.7	14
KSLT 25	25	415	100	22	220	1.25	5 ~ 7	110	9.5	1.5	1 ~ 3	Less than 30°	15	9.5	12.7	14

Notes:

- 1) Connection cable has the min. section indicated, heat wise. The cable size may be enlarged according to wiring method and distance.
- 2) Compressed air volume indicates the atmospheric volume with 20mm electrode stroke, welding speed of 30s.p.m. and 5 kgf/cm2 air pressure
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SPECIFICATION

Model Name	KE-2B					
Welding Power Supply Voltage	220/415 V AC 50	Hz				
Control Power Supply Voltage	24 V AC 50 Hz					
Control Method	Primary Current F	eedback				
Timer Setting	SCHEDULES	15				
	PRE-SQUEEZE	00-99 Cycles				
	SQUEEZE	00-99 Cycles				
	Weld Cycles	00-99				
	(1,11,111)	Cycles				
	COOL Cycles	00-99				
	(I,II)	Cycles				
	HOLD Cycles	00-99				
	055	Cycles				
	OFF	00-99 Cycles				
		Cycles				
Current Setting Range	00-99% or 00-50KA					
Valve Voltage	24 V DC					
Counter Range	0000-9999					
Dimension (in mm)	120 (W) X 220 (H) X 90 (D)					
Weight (In Kg)	3 Kg					

Based on product improvements etc. appearance and performance are subject to change without notice



Features of KEPL Controller:

- Versatile
- User Friendly
- Microprocessor based control unit
- Quick feedback system

Advantages:

- (I) Secondary Feedback Constant Current Control.
- (ii) Upto 15 schedules can be stored in its memory for instant recall.
- (iii) Built in weld monitor: Allows viewing of all programs, parameters etc.
- (iv) Production Counter and job counter.
- (v) Program Lock Facility
- (vi) Inbuilt system for water & air pressure error signals

OPTIONAL ACCESSORIES (EXTRA COST)

- ★ Water Flow Indicator
- ★ Water Flow Switch
- ★ Pressure Switch
- ★ Non Return Valve
- * Chiller Unit
- ★ Fume Extractor
- * Anti Vibration Pads
- **★** MCB/MCCB
- * Fixture



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