

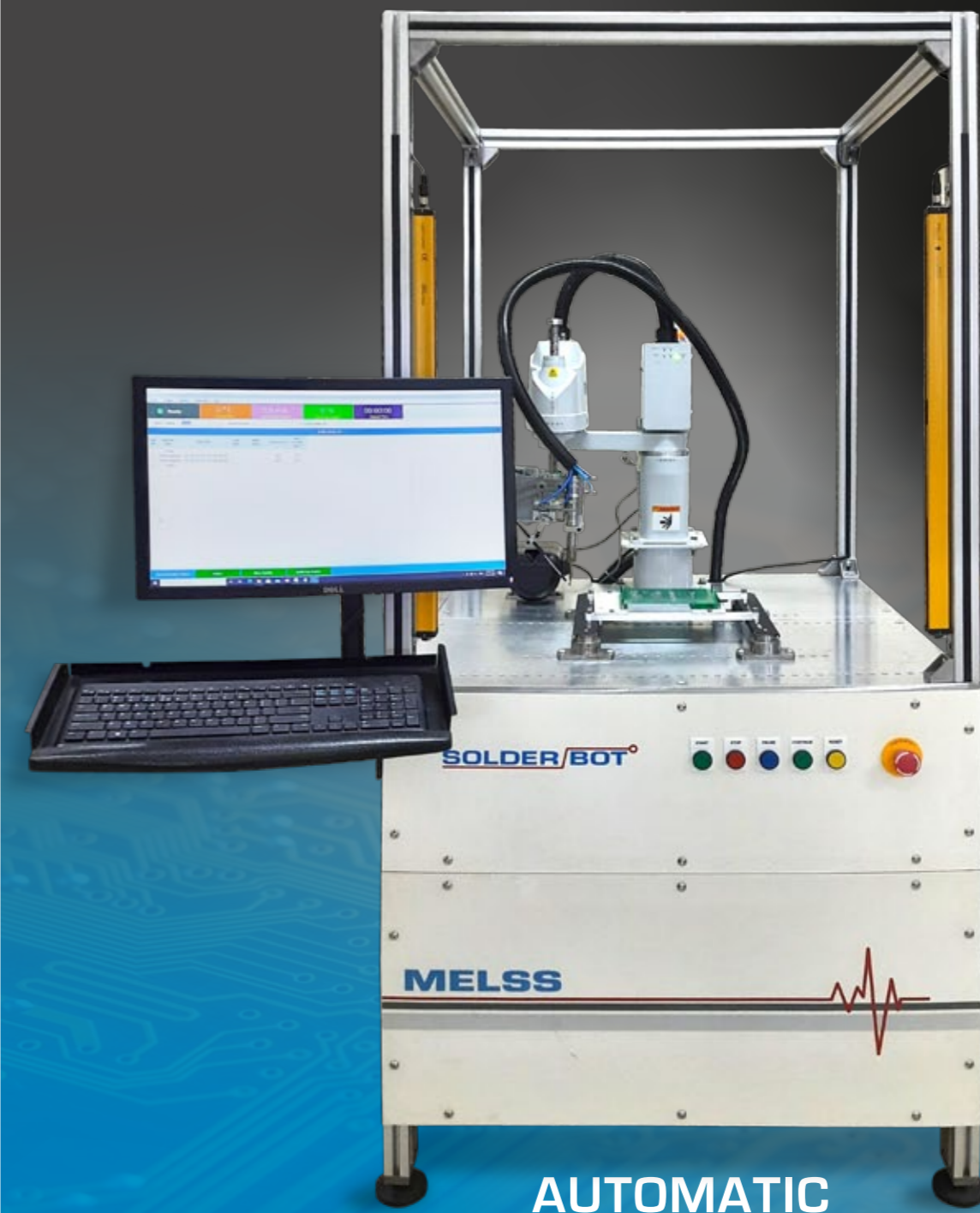
Cartridge Range

	Ref.	Size
CHISEL	R245-008	A = 2,2 x 1 mm B = 11,5 mm
	R245-007	A = 4 X 1,5 mm B = 11,5 mm
BARREL	R245-009	A = 0,8 mm B = 1,8 mm C = 11,5 mm
	R245-014	A = 1,1 mm B = 4,5 mm C = 11,5 mm
	R245-010	A = 1,5 mm B = 3 mm C = 11,5 mm
	R245-011	A = 2,5 mm B = 4 mm C = 11,5 mm
	R245-012	A = 3,5 mm B = 5 mm C = 11,5 mm
DRAG	R245-013	A = 1,25 mm B = 3,25 mm C = 11,5 mm

	Ref.	Size
CHISEL	R470-021	A = 2,5 mm B = 16,9 mm
	R470-017	A = 2,5 mm B = 4 mm C = 16,9 mm
	R470-022	A = 4 mm B = 16,9 mm
	R470-029	A = 2,5 mm B = 16,9 mm
	R470-023	A = 5 mm B = 16,9 mm
	R470-024	A = 6 mm B = 16,9 mm
	R470-025	A = 7,5 mm B = 16,9 mm
	R470-028	A = 3,8 mm B = 7,4 mm C = 16,9 mm
	R470-030	A = 2 mm B = 4 mm C = 16,9 mm
	R470-031	A = 3 mm B = 5 mm C = 16,9 mm
BARREL	R470-032	A = 4 mm B = 6 mm C = 16,9 mm
	R470-026	A = 0,75 mm B = 2 mm C = 6 mm
DRAG	R470-027	A = 1,25 mm B = 3,25 mm C = 6 mm

	Ref.	Size
CHISEL	R470-018	A = 1 mm B = 2,5 mm C = 16,9 mm
	R470-019	A = 1,5 mm B = 16,9 mm
	R470-016	A = 1,5 mm B = 3 mm C = 16,9 mm
	R470-020	A = 2 mm B = 16,9 mm

- » Cost Saving
- » Highly Reliable
- » Fast Heating
- » Improved Yield



**AUTOMATIC
SOLDERING ROBOT**



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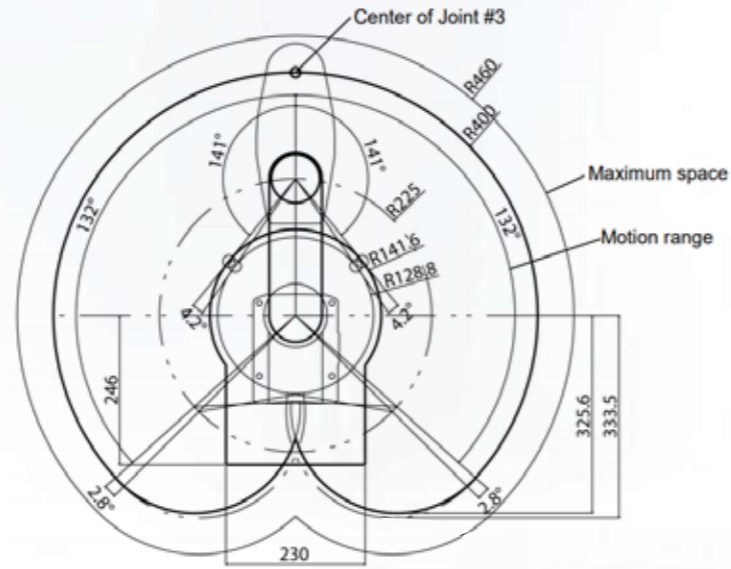
Enabling you to stay ahead of time

MADE IN INDIA

FEATURES & SPECIFICATIONS

The MELSS SolderBot simplifies soldering with repeatability and accuracy. The SolderBot can be installed as a standalone table top unit or in an assembly line.

- Up to 15 solders per minute
- Variable Power. Programmable Temperature
- Automated programmable wire feeder
- Programmable soldering time
- Wide variety of soldering cartridges
- Integrated with Tip Cleaner



Reach of Soldering Robot



Point Soldering



Drag Soldering

Work Area	250 x 215mm; 400 x 180mm
Max Range of Operation	J1: +/- 132°, J2: +/- 141°, J3: 150 mm, J4: +/- 360°
Max Speed of Operation	J1,J2: +/- 3,700 mm/s, J3: +/- 1,000 mm/s, J4: +/- 2,600°/s
Repeatability	0.05mm
Soldering Unit	Output Power Maximum: 80 Watts, Output Frequency: 13.56 MHzC
Feeder	Spool based. Feeding length and speed programmable. Suitable for wire diameter of 0.5mm - 3mm
Input Voltage	Power Adaptor: 110V-240VAC, 50/60Hz
I/O	12 Digital Outputs, 18 Digital Inputs. Fieldbus Optional (DeviceNet, Profinet, Ethernet/IP)
Environmental Conditions	Temperature: 5 - 40° C, Humidity: 20% - 80% (No Condensing)

- Easy to use software. No complex programming required
- Multiple program storage with cloning option
- Define temperature, solder time, wire feeding parameters per solder
- Quick point teaching using joystick
- Library of standard components for faster teaching
- Traceability by barcode / serial number of every part
- Real-time process display

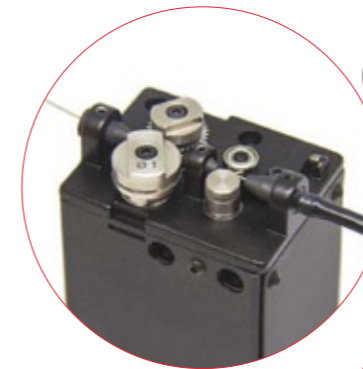
S.No	Soldering Type	Solder Cycle No	Initial Point	Final Point	Robot Speed	No Of Rows	No Of Columns	Pin To Pin Distance	Soldering Time(s)	Temperature	Wire Feeding Speed	Tip Movement	Tip Cleaning
2	Drag Soldering	2	112.626.210.677-55.735...	88.125.210.677-55.73...	1.5					360	3.6		
3	Drag Soldering	3	121.199.223.572-55.508...	97.179.223.571-55.50...	1.5					360	3.6		
4	Cleaning	4											
5	Drag Soldering	5	121.490.233.672-55.508...	96.480.233.672-55.50...	1.5					360	3.6		
6	Drag Soldering	6	124.279.244.772-55.308...	99.480.243.672-55.30...	1.5					360	3.6		
7	Cleaning	7											
8	Drag Soldering	8	139.079.251.772-55.308...	95.790.251.772-55.30...	1.5					360	3.6		
9	Drag Soldering	9	121.380.259.372-55.308...	95.380.259.372-55.30...	1.5					360	3.6		
10	Cleaning	10											
11	Drag Soldering	11	85.079.196.572-55.508.3...	60.079.196.572-55.50...	1.5					360	3.6		
12	Drag Soldering	12	85.079.204.572-55.508.3...	60.079.204.572-55.50...	1.5					360	3.6		
13	Cleaning	13											
14	Drag Soldering	14	84.079.215.272-55.508.3...	59.079.215.272-55.50...	1.5					360	3.6		
15	Drag Soldering	15	84.079.222.772-55.508.3...	59.079.222.771-55.50...	1.5					360	3.6		
16	Cleaning	16											
17	Drag Soldering	17	84.079.233.272-55.258.3...	59.077.233.272-55.25...	1.5					360	3.6		
18	Drag Soldering	18	83.079.240.772-55.258.3...	58.079.240.772-55.25...	1.5					360	3.6		
19	Cleaning	19											
20	Drag Soldering	20	83.177.251.022-55.258.3...	59.177.251.022-55.25...	1.5					360	3.6		
21	Drag Soldering	21	83.077.258.522-55.258.3...	59.266.258.023-55.25...	1.5					360	3.6		
22	Cleaning	22											

SOLDERING TOOLS

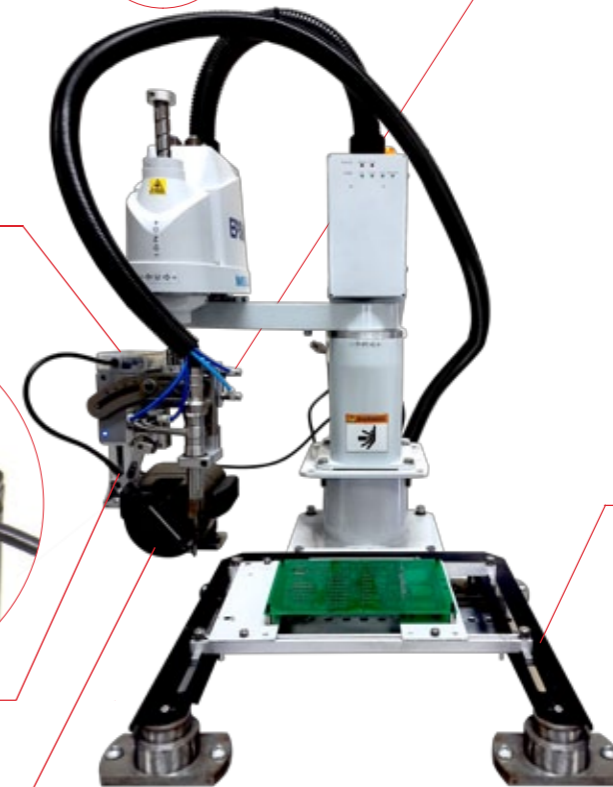


Ref. TR245-A & TR470-A
Soldering Iron
These tools are used with the newly designed cartridges, which have been specially developed for automated soldering processes. They feature a quick cartridge extraction and a very precise positioning system.

Ref. SFR-A
Solder Feeder
Compact unit compatible with several solder wire diameters. Adaptable control parameters such as wire length and dispensing speed. It features a wire detector sensor (blocked up or finished).



Ref. GSFR
Guide Kit
The solder feeder works with GSFR-Kits. These kits are compatible with solder wire diameters Ø 0.8, 1 and 1.5 mm (with solder wire perforation) and from Ø 0.5 up to 1.5 mm (without solder wire perforation).



Ref. RBA-A
Soldering Head
Can be combined with peripheral modules such as solder feeder, solder reel, fume extractor tube and soldering irons, as well as a camera to monitor the process. Its lifting unit allows a fast movement in Z-axis direction. It also features a system to soften collision. The dispenser pivoting unit facilitates cleaning and removal of the cartridge.

Board Mounting Fixture
Flexibly adjust to mount different size PCBs.

Ref. CLMR-A
Tip Cleaner
Features a large capacity tank with easy extraction and a wide opening for an easy tip access. Its position can be pivoted up to 35° in both directions to facilitate the robot arm access. Brushes are exchangeable and are available in different types.



Ref. UCR245-5A & UCR470-5A
Control Unit
This high power Control Unit can be connected to a robot by means of an M8-5pins connector, using the RS232 JBC Communication Protocol.



Ref. CLMU-A8



Ref. CLMU-P1
Non metal brushes



Ref. CLMU-A7



Ref. CLMU-P7
Non metal brushes

Ref. CLMU-A8 & A7 & P1 & P7
Brushes
Choose between metal and non-metal brushes. Black and blue-core brushes are used to distinguish when doing lead-free and leaded soldering.