Sr.	Description	Qty. Required
No.	Seal Spot TIG Welding Machine	01 Complete Un
1	Application: Automatic Seal Spot TIG Welding of End Plugs Job Description:	
1	Weld Geometry: Seal Spot Welding of hole in End Plug	
1	Tube Dia: 10mm	
6.3	Tube Length: 800-3200mm	-
	End Plug: As per Attached Drawing	
	 Hole Dia: 1mm Depth/ penetration: 1mm±0.3 	
	• Tube Material: Zr-4/S.S	*
	End Plug Material: Same as tube	
	 Welding Environment: Helium gas 	
	Machine Description:	
2	Machine may consist of following major systems:	
	 Job feed System (loading & unloading) 	
	Tube Transfer system	
1 .	Sealed Welding Chamber (under vacuum and pressure) The sealed Welding Chamber (under vacuum and pressure)	
1	Tube holding & forward/Reverse moving mechanism A live was a finishment planting of Plug	
	 Adjustment of distance between electrode & Plug Vacuum system for welding chamber 	
1	Welding machine with tungsten electrode	
	End product tray	, A
	 Viewing System (runtime video) 	
3	Process Sequence:	
	Transfer tube from feed tray to weld position	*1 The Medical
	 Loading Tube in Welding chamber Sealing the chamber 	
	Weld chamber evacuation	
.]	Maintaining 21 bar helium pressure in chamber	900 II
	Adjustment of distance between plug & electrode (0.5 - 3mm)	,
	Perform seal welding	8
	Exhaust helium gas	
	Unloading of work piece	
	Tube transfer to end product tray	
4	Process Control: PLC Based Control	
	Touch Screen HMI	,
	Operating Mode: Manual/ Automatic/semi-automatic	
	Equipped with all necessary interlocks & safeties.	
	Walding Marchine Control	
5	Welding Machine Specifications: Welding Process: TIG/MMA Welding	
	Welding Process: 11G/MMA Welding Welding Current: DC 0-150 A	
	• Gas Pre Flow Time: 0-20 sec.	
	• Gas Post Flow Time: 0-10 sec.	
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