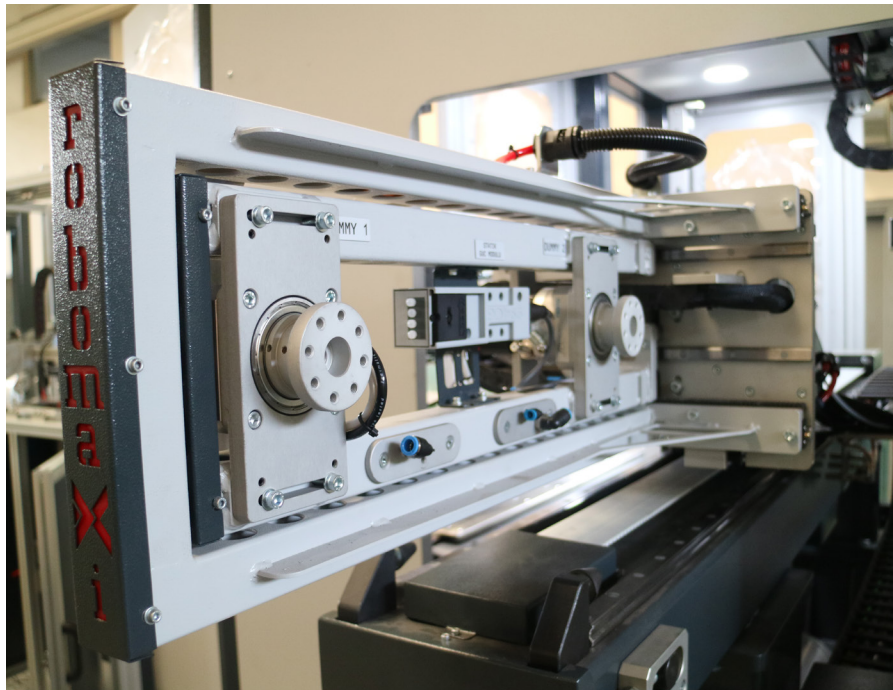
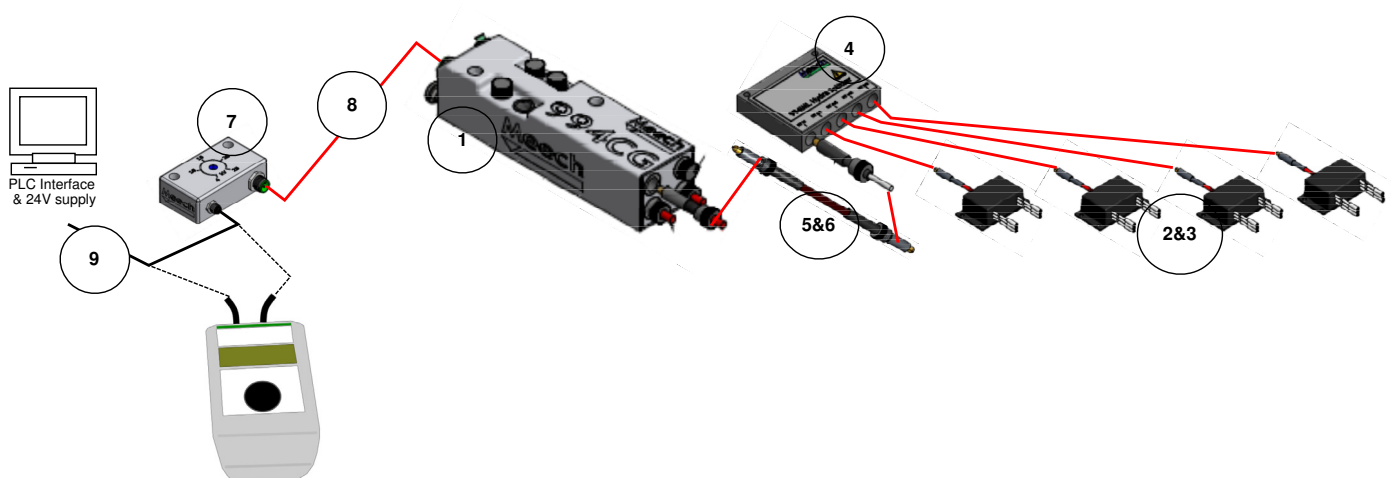


Meech designed their IML system to overcome all the common problems the industry found with existing IML technology.



The Meech 994CG IML system is made up of a number of different components, making it modular and simple to integrate with different robot requirements.

The following information shows how it fits together and how to order the different products to suit your application.



Product shown in this document may be covered by one or more patents, patents applied for and/or registered designs and/or trade marks. For further information please refer to our Head Office or visit www.meech.com.

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There are two models of 994CG generators to suit different application requirements.

994 IML Generators





	Product Code		Product Description
1	A994CG-SOCKET-01		994CG Socket 994CG Miniture IML Generator, Socket version, Plug and Socket HT connections

Options for IML Hydra Pinning Equipment

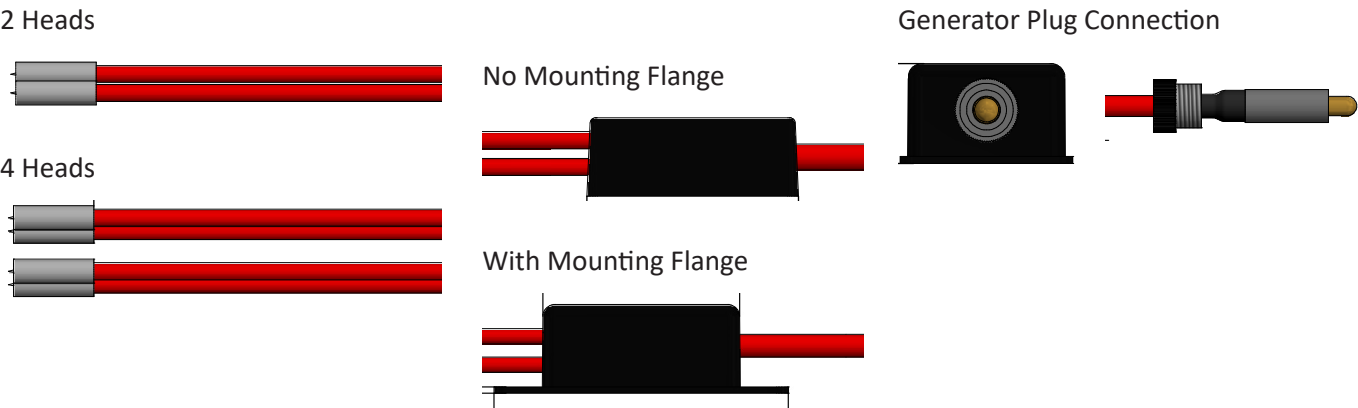
	Product Code		Product Description
7	A994CG-RSC-01		994CG Remote Setpoint Controller
8	A994CG-M12-FF10		M12 Cable, 5 pin, Female-Female, 10,000mm Drag Chain Spec
9	A900IPS-PCS2		Power Cable - 4 Pin M8 - 2m
4	A994-HY-SPLIT2		Hydra IML splitter 2 way
4	A994-HY-SPLIT4		Hydra IML splitter 4 way
4	A994-HY-SPLIT8		Hydra IML splitter 8 way
	A994CG-M12M8-1		M12-M8 Murr adaptor cable 1000mm for BarMaster to 994CG connection

5&6	A994-HY-HTCAB-M		Hydra HT Supply Cable 5000mm Male-Male
	A994-HY-HTCAB-F		Hydra HT Supply Cable 5000mm Male-Female
6	A994-HY-HT30		Extra 30kV Flexible HY Cable
	A994-HY-PINSHROUD		Titanium Pin and PTFE Shroud for 994 Hydra

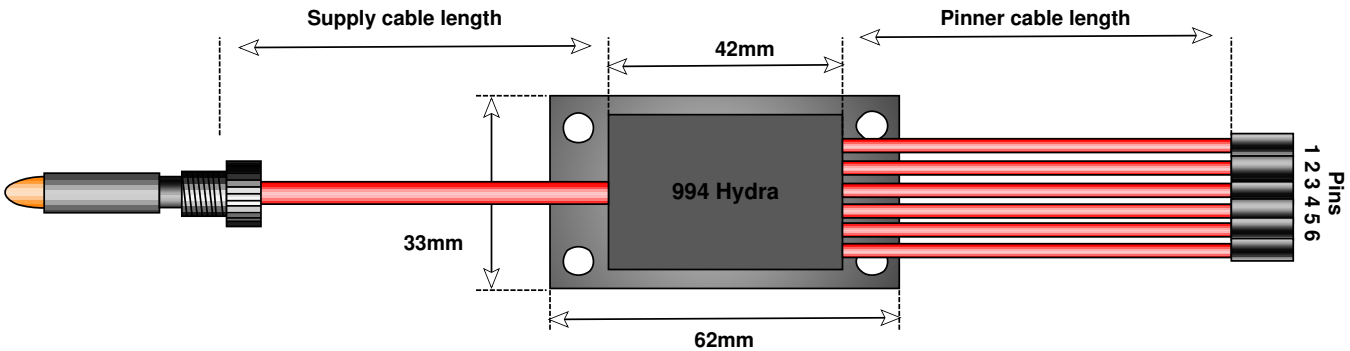
994 IML Hydras

	Product Code		Product Description
2	A994-HYD-COMP01-S-4		Compact 4-way Hydra, Flangeless case Silicon cables, HT Plug-Socket connection
2	A994-HYD-COMP02-S-4		Compact 4-way Hydra, with Mounting Flanges Silicon cables, HT Plug-Socket connection
3	A994-HYD-COMP01-S-6		Compact 6-way Hydra, Flangeless case Silicon cables, HT Plug-Socket connection
3	A994-HYD-COMP02-S-6		Compact 6-way Hydra, with Mounting Flanges Silicon cables, HT Plug-Socket connection

Hydra Options



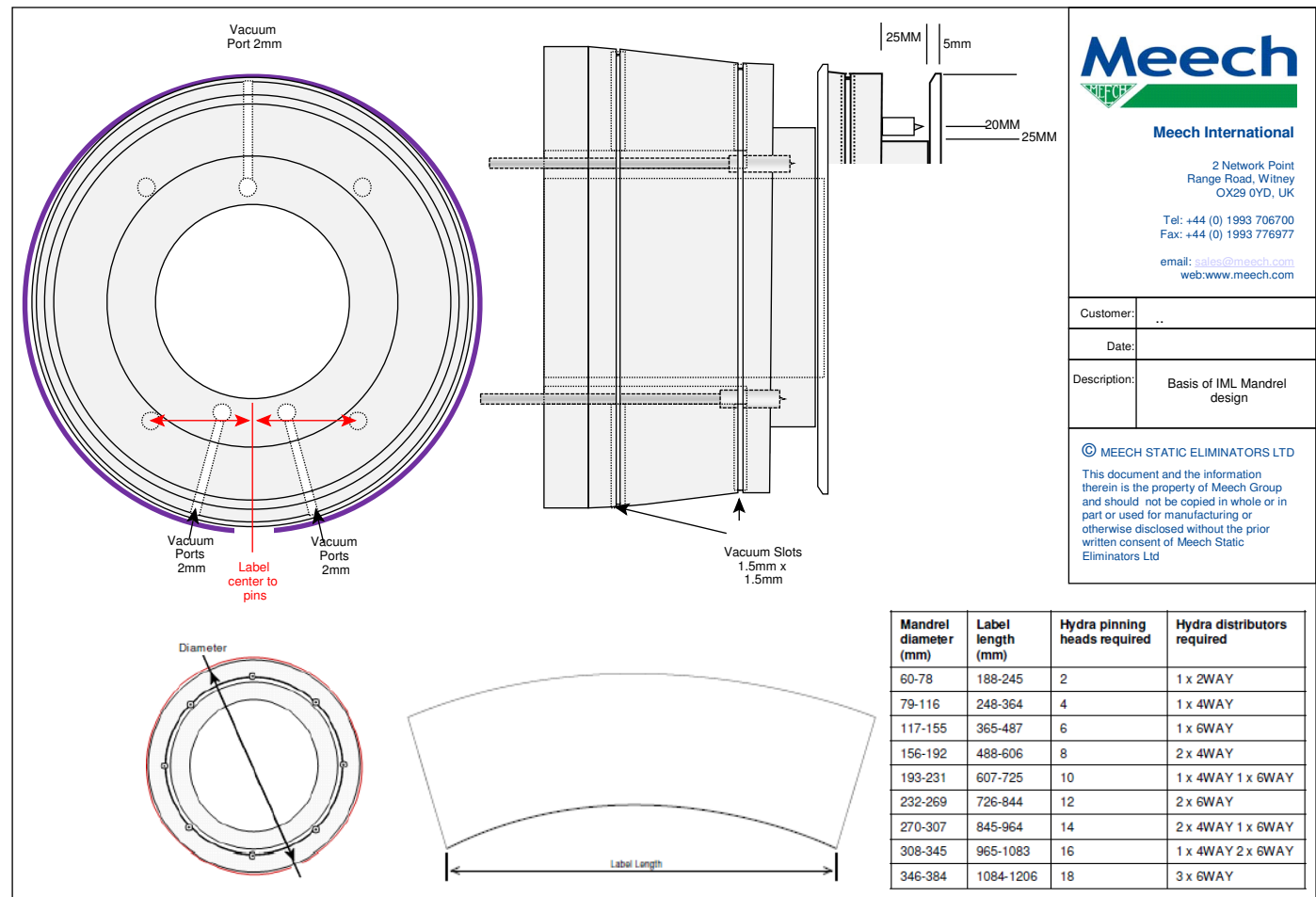
As standard the Hydras are supplied with 500mm supply cable length and 300mm Pinner cable length. Other lengths can be supplied to suit design requirements are available at time of ordering. Below is a table which can be used.



Mandrel Design



The below drawing shows the basic principles of an IML application requiring the label to be applied to the side walls of a container. The pin requirement is calculated by the diameter of the container or the length of the label as seen in the table bottom right of the drawing.

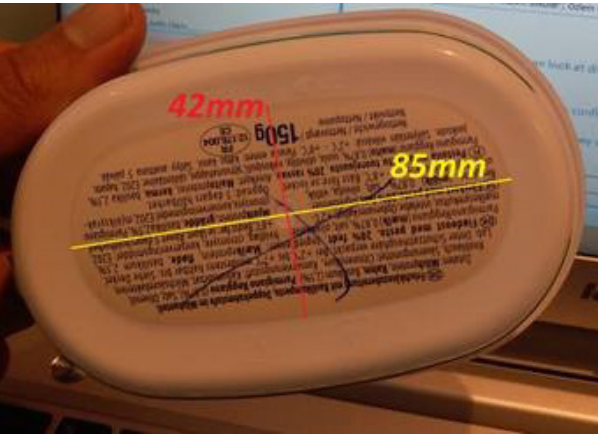


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Customer: ..
Date:
Description: Basis of IML Mandrel design

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Mandrel Design for Smaller Containers



Smaller containers will require a smaller pinning recess. This smaller recess will require a reduced output voltage thereby reducing the pinning radius of each pin.

Where the 25x 25mm recess will allow 14-17kV providing 30mm pinning radius. The smaller 10 x 15mm recess will limit the output voltage to 8-12kV, to prevent sparking in the mould tool.

Failure to prevent sparking can result in label slip, and or electrical noise.

Technical drawing of a container cross-section showing pinning recess dimensions: 10mm width, 10mm height, and 10mm depth. A vacuum line is indicated.

Technical drawing of a container cross-section showing pinning recess dimensions: 15mm width, 20mm height, and 15mm depth. A vacuum line is indicated.

Technical drawing of a container cross-section showing pinning recess dimensions: 10mm width, 10mm height, and 10mm depth. A vacuum line is indicated.

Technical drawing of a container cross-section showing pinning recess dimensions: 10mm width, 10mm height, and 10mm depth. A vacuum line is indicated.

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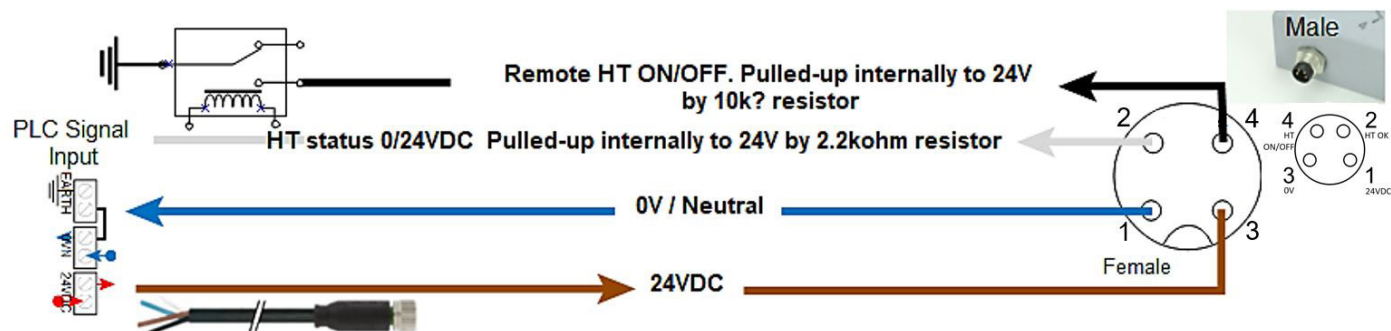
Mandrel diameter (mm)	Label length (mm)	Hydra pinning heads required	Hydra distributors required
60-78	188-245	2	1 x 2WAY
79-116	248-364	4	1 x 4WAY
117-155	365-487	6	1 x 6WAY
156-192	488-606	8	2 x 4WAY
193-231	607-725	10	1 x 4WAY 1 x 6WAY
232-269	726-844	12	2 x 6WAY
270-307	845-964	14	2 x 4WAY 1 x 6WAY
308-345	965-1083	16	1 x 4WAY 2 x 6WAY
346-384	1084-1206	18	3 x 6WAY

Wiring

The output voltage of the generator needs to be controller. This is done using a remote set point controller or a PLC interface.

Remote Set Point Controller

The four pin MURR cable from the PLC to the Remote Set Point Controller requires the following wiring configuration.



PLC Interface

The M12 5 pin MURR cable connected directly to the PLC will require the following wiring configuration.

