

# The innovative solution!

## The H 34 2090 filter element for CHARMILLES and MITSUBISHI ELECTRIC EDM machines



## The H 34 2090 EDM filter: Innovative, high-performance and efficient.

Good filtration of the dielectric fluid used in the EDM process is essential for the machining of high quality parts which in turn results in economic running costs.

The MANN+HUMMEL H 34 2090 filter element offers a unique performance range for demanding EDM processes. The innovative plastic filter element is ideal to replace conventional metal filter elements (Ø 340 x 450 mm, requires connector). It has been specially designed for use in the following EDM machines:

- CHARMILLES TECHNOLOGIES  
WEDM Robofil with 4-pack filter system:  
240 SL, 440 SL, 240cc, 440cc, 640cc, 240 SLP, 440 SLP  
WEDM Robofil with 3-pack filter system:  
2050 TW + 6050 TW
- MITSUBISHI ELECTRIC  
FX, FX-K, QA, RA, FA series

### Advantages of the H 34 2090 EDM filter element

- Economic alternative to a metal filter
- Long filter service life through large filter surface area
- Integrated handles enable easy handling when fitting and changing the element
- Easy connection for each machine through special supplied connector
- High process reliability through modern housing concept with pressure stability up to 3 bar
- No chemical influence on dielectric fluid due to use of corrosion-free materials
- 30% less weight compared to metal versions



## Your benefit through innovation

The central connection thread G 3/4" enables extremely flexible use and easy connection. Connectors exactly dimensioned for the EDM machines from MITSUBISHI ELECTRIC are available. EDM machines from CHARMILLES are already equipped with the respective connectors from the factory.



The filter media developed by MANN+HUMMEL offers excellent filtration. The enlarged filter surface area and the double-bellow technology used enable a very long service life through an extremely high dirt holding capacity.

The H 34 2090 filter has a highly specified cellulose medium with a filter fineness of 3-5 µm.

The R&D department at MANN+HUMMEL has field tested to determine the best possible combination of medium and filter surface area and to fine-tune these to comply with the high process requirements found in EDM applications.



	Machine application	Order No.	Filter surf. area in m <sup>2</sup> (ft <sup>2</sup> )	Filter fineness in µm (micron)	Dimensions in mm (inches)			Connection thread
					d1	d2	h	
	<b>CHARMILLES</b>  <b>MITSUBISHI ELECTRIC</b>	<b>H 34 2090</b>	20.6 (222)	3-5	340 (13.4)	404 (15.9)	450 (17.7)	G 3/4"

Further detailed information for your application is available from your qualified EDM-distributor.

# MANN FILTER

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