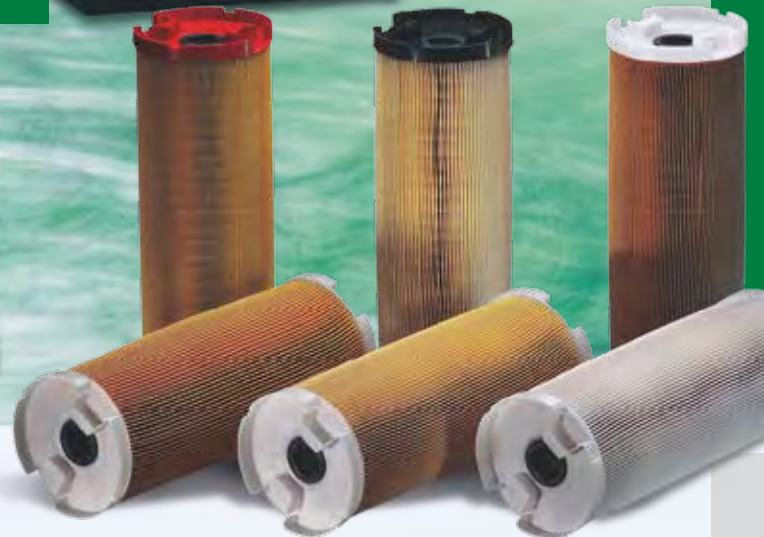


## High Performance Solutions! H 15 series for all requirements.



## The H 15 series in plastic: Innovative, economic and proven millions of times.

In the field of EDM the limits of what is technically possible are constantly being redefined. The quality of the machined part which can be realised is closely connected to the means of production and process technology. High quality EDM results require fine adjustment of the machining parameters and the use of materials especially designed for the process.

MANN+HUMMEL has been a development partner and filter supplier to AGIE and CHARMILLES for more than 20 years and now, with the H 15 series, has developed a range of filters which are exactly tailored to these requirements. Depending on the application, six different combinations for the standard filter size  $\varnothing 150 \times 375$  mm are available with various degrees of filter fineness and filtration surface area for all currently available EDM machines from the following manufacturers:

- |                     |                        |                    |
|---------------------|------------------------|--------------------|
| • AGIE & CHARMILLES | • Deckel               | • ONA              |
| • AEG               | • EMV Erodiermaschinen | • OPS Ingersoll    |
| • Agema             | • Hostek               | • Seibu-Walter     |
| • Agemaspark        | • Japax                | • Sinitron         |
| • BES               | • Multiform            | • Zimmer+Kreim     |
| • Brother           | • Nassovia             | • and many more... |

### Advantages of the H 15 series

- Maximum filtration quality and high separation efficiency
- Long service life and very stable EDM process characteristics
- Defined filter fineness through high quality filter media
- No chemical influence on dielectric fluid due to design without use of adhesive
- Easy removal of filter using optional reusable handle (Order No. 67 830 49 001)



Optional reusable handle

## High performance with innovative manufacturing technology

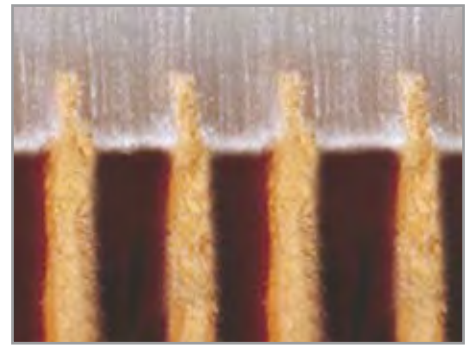
MANN+HUMMEL is the only producer of EDM filters to completely eliminate the use of adhesive for standard elements sized Ø 150 x 375 mm and uses a special butt-welding process to manufacture the H 15 series of EDM filters. In this process the filter bellows are welded directly to the plastic end cover and so form a durable and tight connection. This completely removes any possibility of an undesired chemical influence on the dielectric fluid, as is sometimes the case with filters assembled with adhesive in the conventional way.

In order to ensure that the filters meet your highest EDM requirements, filter media are exclusively used which have been developed and tested by MANN+HUMMEL. This maximises the contaminant holding capacity and enables a very long service.

The advanced design of the filter elements offers the following advantages compared to copies which are generally inferior:

- **Higher machining speed**
- **Finest surface quality of machined parts**
- **Improved accuracy of machined parts**
- **Reduced arcing**
- **Maximised use of resin used to condition the dielectric fluid**
- **Less wear with moving machine parts**

In total six different types of filters are available which are finely adjusted to all your EDM requirements and the respective application.



Buttwelded filter media



Complete metal-free element

	Order No.	Filter surface area in m <sup>2</sup> (ft <sup>2</sup> )	Filter fineness in µm (micron)	Dimensions in mm (inches)			Flow direction	Application, recommendation
				d1	d2	h		
	H 15 190/1	2.8 (30)	1-2	150 (5.9)	32 (1.26)	375 (14.8)	outside to inside	EDM machines for finishing processes with the highest requirements
	H 15 190/10	2.8 (30)	10					Cavity sink EDM machines with standard requirements
	H 15 190/25	2.3 (25)	25					Processing difficult materials (e.g. aluminium), for excellent filtration and long service life
	H 15 190/16	3.1 (33)	3-5					Top OEM quality for wire-EDM machines
	H 15 475/1	4.5 (48)	3-5					Top OEM quality for cavity sink EDM machines
	E-Line	2.7 (29)	3-5					Cost-effective filter element for all-round use

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



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