

## The Precision Range!

Filter elements H 34 1290/3 and H 34 1790  
for SODICK EDM machines.



## EDM filter elements H 34 1290/3 and H 34 1790: Universal, precise and reliable

The field of electrical discharge machining is constantly setting new standards. The quality of the work piece in this process is closely linked to the production means used and the respective process technology. In order to realize the desired machining results an exact adjustment of the parameters is required in combination with the appropriate materials.

The two filter elements H 34 1290/3 and H 34 1790 both offer excellent performance for SODICK high precision EDM machines, with the innovative plastic filters being well-suited as a replacement for conventional metal filter elements (Ø 340 x 300 mm and Ø 340 x 450 mm) designed for use with the following machines:

- **H 34 1290/3** AQ(300, 327, 537, 750)L, AQ(325, 535, 600)
- **H 34 1790** A280, A280L, A300, A300W, A320, A3200, A320D, A325, A350, A350W, A500, A500W, A530, A530D, A600, A600W, A750, A750W, AQ(325, 535, 750)L, BF(250, 75, 280, 280L, 320L)

Further machine types possible. See specification sheet for filter connection dimensions.

### Advantages of the EDM filters H 34 1290/3 und H 34 1790

- Economic alternative to conventional metal filters
- Long service life through high filter surface area and very high dirt holding capacity (Macro-pleating technology)
- Easy handling during fitting and removal through integrated handles
- High reliability through modern housing concept with pressure stability up to 3 bar
- No chemical influence on the dielectric fluid due to use of corrosion-free materials (complete metal-free design)
- 30% less weight compared to similar design in metal



Previously: Metal

New: Plastic

## Leading technology for excellent results

The high performance of MANN+HUMMEL filters in the EDM application is guaranteed by the exclusive use of filter media and components which are developed and tested in-house. For example, the filter elements H 34 1290/3 and H 34 1790 designed for use in SODICK EDM machines use pleated bellows with a special increased pleat height of 75 mm. The combination of these macro-pleats and a special new filter medium with a defined fineness of 3-5  $\mu\text{m}$  offer the following advantages for EDM operations:

- High machining speeds
- Finest surface finishes
- Improved accuracy of work pieces
- Reduction of secondary arcing
- Extended use of ionising resin
- Less wear on moving machine parts

In some SODICK EDM machines either filter can be used short or tall, because the sealing surface fit up dimension is the same on both filters. If a longer service life is required the tall filter can be chosen instead of the lower one. To be on the safe side, please confirm your machine will accept either filter dimensionally!



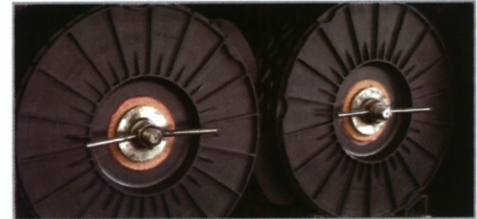
Macro-pleating technology



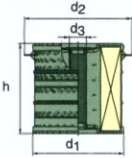
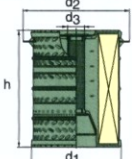
H 34 1790 with conical clearance



H 34 1290/3



H 34 1790

	Order No.	Filter surface area in m <sup>2</sup> (ft <sup>2</sup> )	Filter fineness in $\mu\text{m}$ (micron)	Dimensions in mm (inches)				Flow direction
				d1	d2	d3	h	
	H 34 1290/3	10.5 (113)	3-5	340 (13.4)	404 (15.9)	70 (2.8)	300 (11.8)	inside to outside
	H 34 1790	17 (183)	3-5	340 (13.4)	404 (15.9)	47,5 (1.9)	450 (17.7)	inside to outside

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



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