

## Q-Mag

### Q-Mag® Magnetic separator

**Q-Mag® is the solution to effectively use magnets in your process.**

**Remove chips and metal particles from your coolant or cleaning fluid easily, without having to clean the magnet time and time again. With Q-Mag® it is all automatic!**

- *Fully automatic*
- *Efficient*
- *Maximum effectiveness*
- *Continuous separation*
- *Concentrated sludge*
- *Easy integration*

#### **Automatic**

The particles, attracted by the magnet, are forced down to the bottom section continuously and collected in the sludge chamber, which is emptied automatically.

#### **Efficient**

The medium spirals around the magnet, that way bringing every particle within the magnetic field for at least 2 seconds. The result is an extremely efficient separation of even the finest magnetisable particles.

#### **Maximal effectiveness**

Metal particles do not get a chance to build up on the magnet and cover it completely. The magnetic field can stretch out fully, into the medium circling around the magnet, at all times.

#### **Continuously**

The sludge chamber is emptied automatically, without interrupting the flow or removing the magnet. The separation continues all the time.



### Concentrated sludge

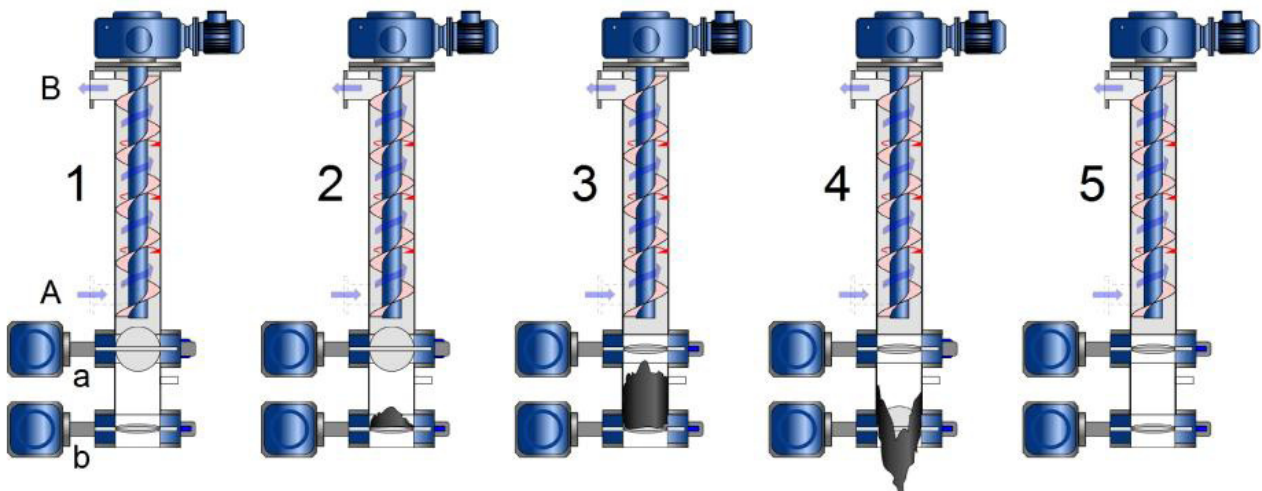
A sensor detects when the sludge chamber is full and starts emptying it, thereby discharging only very little medium with the sludge. There is no need for further de-watering of the sludge.

The Q-Mag® can easily be integrated in the existing piping. The pressure drop is negligible which means it can be installed on the suction side of a pump without any problems.

It is even possible to run the medium through the Q-Mag® under gravity.

If there is already a pump, there is no need to replace it for a more powerful model.

Model	QM-05
Capacity	0 - 5 m <sup>3</sup> /h (10m <sup>3</sup> /h)
Length	1310 mm
Max. width	400 mm
Weight	100 kg
Power	400vac - 50 Hz
Inlet	DN40
Outlet	DN40
Sludge outlet	DN80
Max. temperature	70°C



#### OPERATION:

Medium enters at A, spirals upwards around the magnet (blue arrows) and leaves the body at B.

The magnet rotates in the opposite direction (red arrows). The screw-shaped insert in the housing causes any material, which has deposited on the magnet, to be forced to the bottom section of the housing.

At the end of the magnet the dirt falls into the sludge chamber (between valves a and b) from where it is discharged automatically (see description hereafter).

#### SLUDGE DISCHARGE:

1. The sludge chamber is empty; valve a is open, valve b is closed
2. The sludge falls from the magnet into the sludge chamber, onto valve b.
3. The sensor detects that the sludge chamber is full; valve a is closed.
4. Valve b is opened and the sludge chamber is emptied by blowing out any material, using pressurized air.
5. Valve b closes and valve a can be opened again.

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