

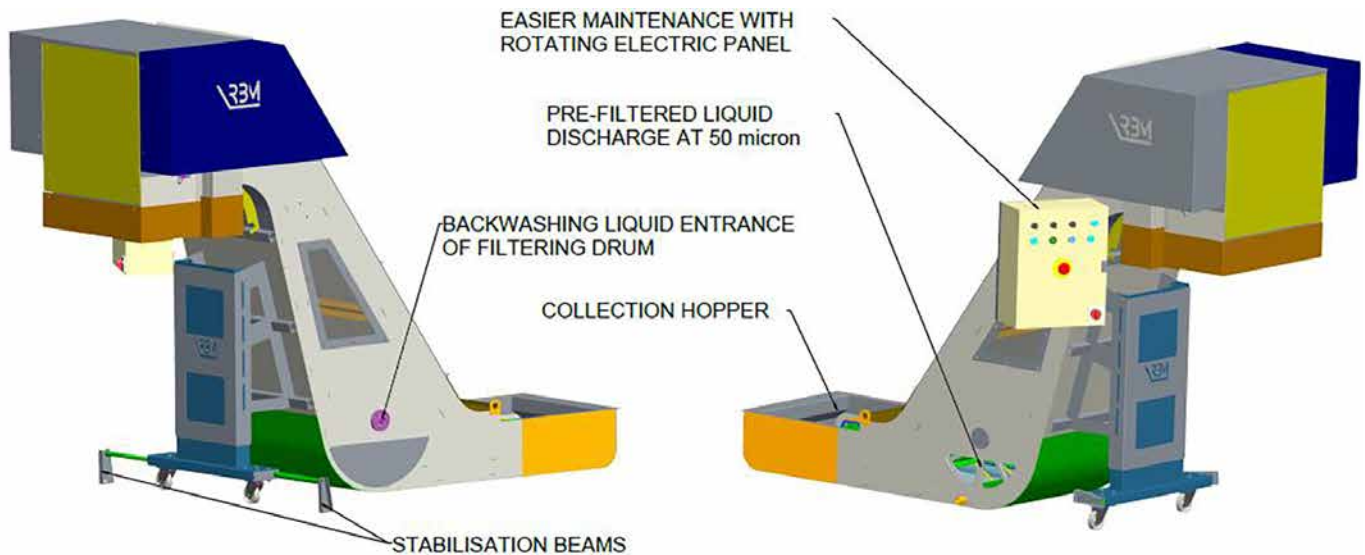
## A-I Conveyor with ROTOFILTER

The A-I conveyor with rotofilter (rotofilter) is the evolution of the A-I conveyor, characterized by the addition of a 50 µm prefiltration drum. It is produced in two models: Z31 and Z44, depending on its filtration flow rate.

The choice of the most suitable drum to guarantee the required filtration flow rate is the responsibility of RBM in relation to the overall flow rate of the pumps installed on the machine tool and the dimensions of the tank.

The advantages of rotofilters are:

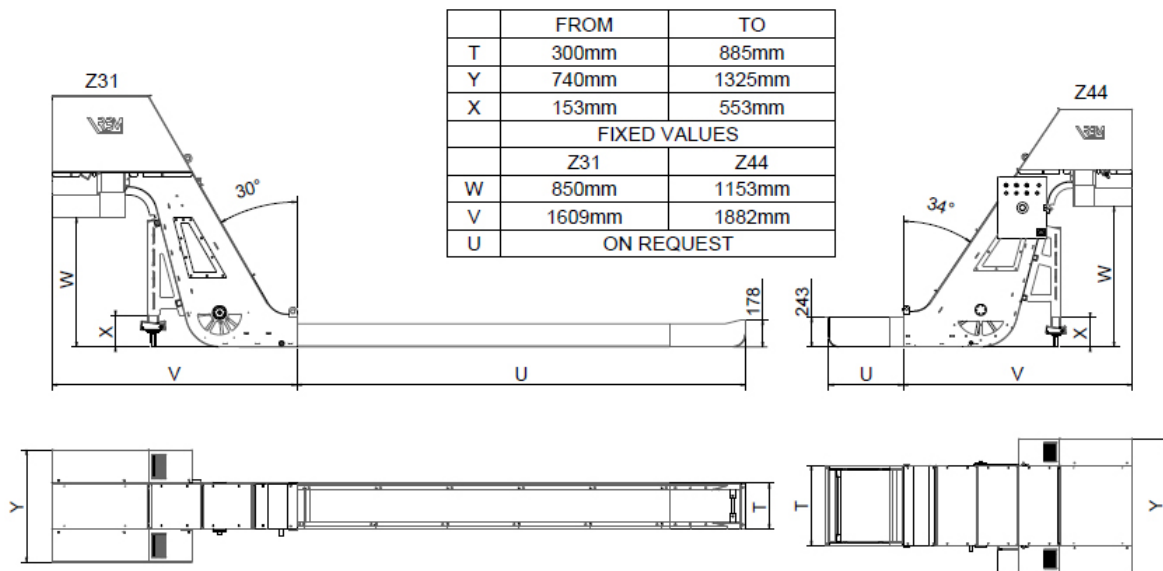
- 100% adaptability on every machine tool.
- 100% elimination of the problem of choosing the type of conveyor in advance based on the material processed, i.e., the conveyor has a hinged belt and a dredging belt at the same time, simply by reversing the direction of travel.
- 100% reduction of chips larger than 50 µm dispersed in the tank.



### TECHNICAL FEATURES

- Reversible operation (abbreviation A-I). This allows to have both a hinged conveyor and a dredging conveyor available on the same machine, simply reversing the direction of travel.  
If there are bulky chips, long string chips or coils, it can operate in the forward direction (A).  
If there are smaller chips that tend to float or form powders that are dispersed in the liquid (such as light alloys or cast iron), it can work in the reverse direction backward (I).
- 50 µm prefiltration drum made of stainless steel, for long life of the filter elements. It has side seals that prevent the liquid from flowing out without being filtered.

- Metal carpet with both inside and outside double scraping blades. They also remove the material held by the filter drum and transfer it to the conveyor head in order to be discharged into the swarf bin.
- Drum backwash spraying machine. It is powered by a pump that is usually assembled on IFDR fine filtration systems when they are combined with the conveyor, and works with coolant filtered below 10 µm.
- The rotostar solution can be implemented on the rotofilter. It allows to further reduce the filtration of the rotofilter and guarantees the liquid filtered under 20 µm for the backwashing of the drum.
- Both width and length of the rotofilter can be customised in relation to the machine tool which it is combined with.
- Rollover control beams inserted in the support foot to be extracted when maintenance work that requires the removal of the rotofilter from the machine tool tank is carried out.



The dimensions T, Y, and X can assume the following values (mm) to adapt the conveyor to the tank of the machine tool.

T	300	345	390	435	480	525	570	615	660	705	750	795	840	885
Y	740	785	830	875	920	965	1010	1055	1100	1145	1190	1235	1280	1325
X	153	[...]	553											

Dimension W assumes the following fixed values: Z31 → 850 mm and Z44 → 1153 mm.

Dimension V assumes the following fixed values depending on the W dimension: W: Z31 → 1609 mm and Z44 → 1882 mm.

Dimension U can be customised in relation to the machine tool, which the rotofilter is combined with.