

Sovereign Tech Engineering Services Pvt. Ltd.

Case Study

Schmalenberger Cutter Pump - Type SZU 5016

For Aluminum Machining

**CUT pump
Type SZU 5016**

Long Curly Chips At Pump Inlet



Chips cutted by pump

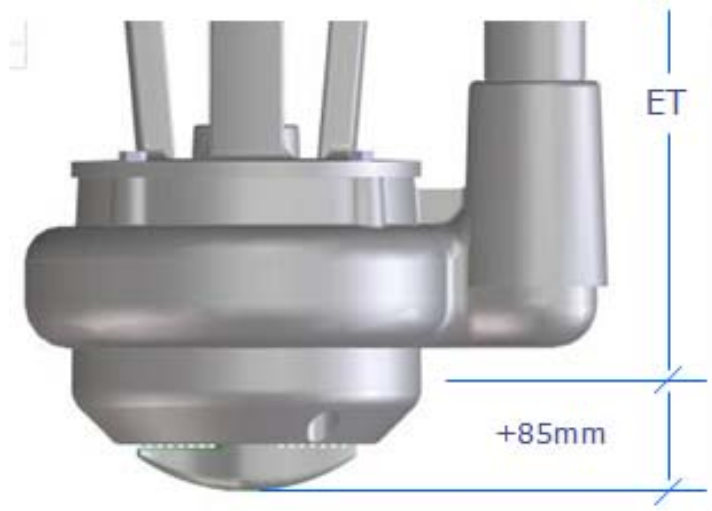


**Tank installation
pump with cutting
tool**



Technical Details

Immersion depth of SZU 5016



- Additional effect to the performance curves.
- Additional Pressure needs: $DH=2m$
- 20% additional engine power required

CUT pump Type SZU 5016

Please make sure:

- Only for Aluminum.
- Volume of chips up to 2%. (i.e. for $Q = 100 \text{ l/min} \text{ } \textcircled{\text{c}} \text{ } 2 \text{ kg Al/min}$)
- Chip balls max. $2D$
(i.e. SZU5016 $\textcircled{\text{c}} \text{ } 2D = 100 \text{ mm}$)
- Consider the dimension of the tank (angles + safety distance)
- Do not stop the pump during the operation – otherwise the pipe will be blocked by the chips.
- 2 m/s is the minimum flow rate in the pipe

