

## Inverted tooth chain as a gear rim at a foundry knock-out drum

### Technical description

Drive for a roller-supported drum with a diameter of approx. 2 m and a length of 9 m .

Instead of a milled annular gear, an inverted tooth chain is used as a gear rim and driven by a 24-tooth sprocket with a special tooth profile.

The inverted tooth chain is wrapped around the drum with the toothed side outward and bolted to the base by means of special link plates at every fourth link. The inverted tooth chain and the runner ring form one unit.

### Special features

- less expensive than a milled gear rim
- large gear ratios possible
- compensation of longitudinal thermal expansion in the drum
- higher load capacity and longer life than a pin wheel gear

### Technical data

Motor power N	9 - 11 [kW]
Impact coefficient k	1.5
Speed n	0.9 to 5.4 [min <sup>-1</sup> ]
Ratio i	6.8
Velocity v	0.09 - 0.56 [m/s]
Tooth chain type	300, with special link plates

