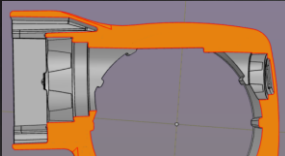


Gear housing

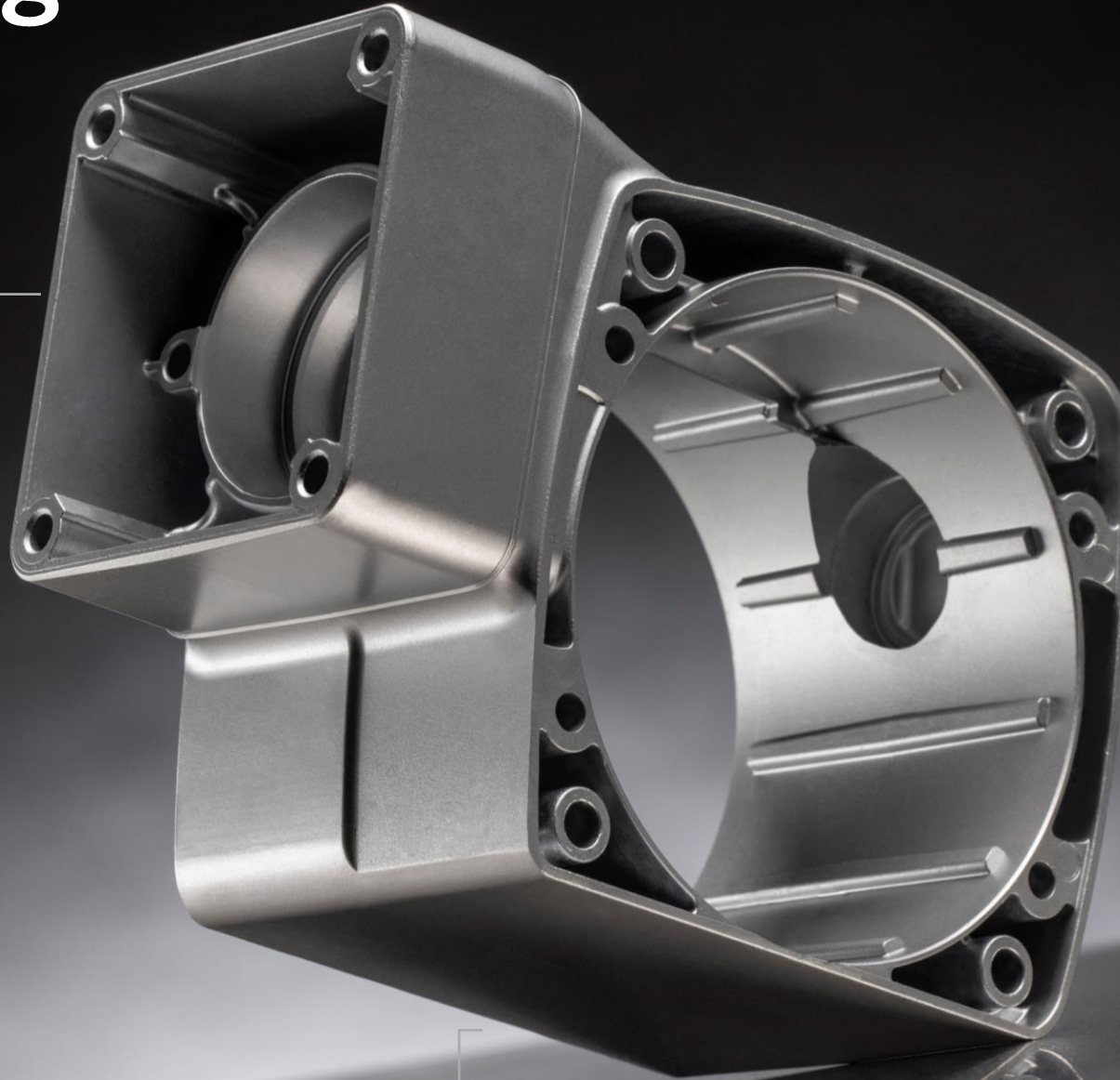
Complex housing – weight: 910 g
Dimension: 127 x 98 x 65 mm

Housing without
downstream machining
Very sophisticated
slide design



Tolerances bearing seats at
0.06 mm

Tooling concept : 1 cavity



- Reference SEW Eurodrive**
Why does SEW use zinc instead of aluminum?
- Unavoidable machining with aluminum die casting
→ Huge cost pressure: Cost reductions with aluminum difficult to implement.
 - A production process without additional machining was needed.
 - Zinc die casting offered the only chance to achieve their set goals.
 - Zinc has very high dimensional stability → process temperatures for zinc die casting are significantly lower than those for aluminum die casting.
 - The new design structure is incomparable to the existing:
→ Automated robotic assembly possible.
→ Not comparable to steel/aluminum casting.
 - The design has a variety of patented details: Ex. The rolling bearing assembly in an unmachined hole:
→ Compliance with small tolerance fields
→ The product has the required strength.
 - The result were 2 types of gearboxes, which were able to achieve the required target cost.