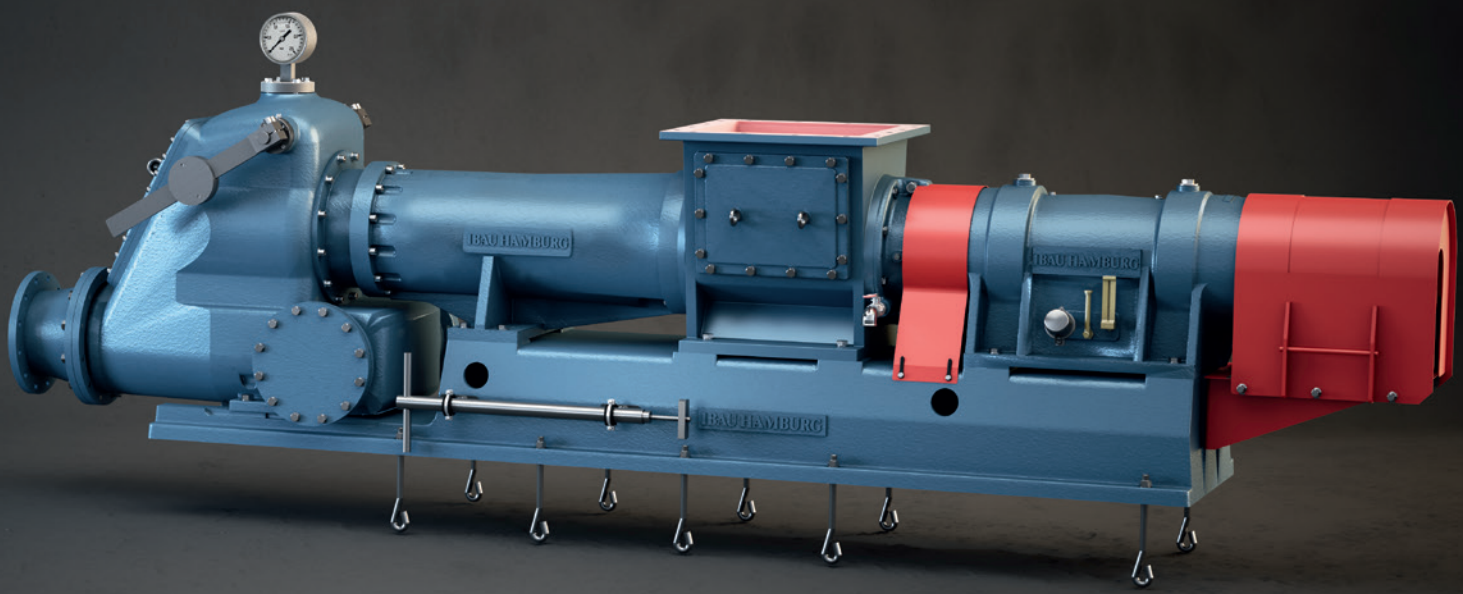
IBAU HAMBURG
A HAVER & BOECKER BRAND



SCREW PUMP

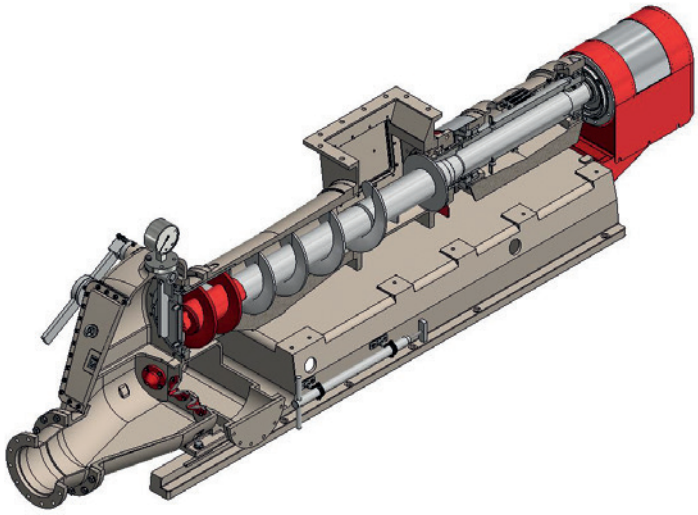
For every plant the right decision.

Two decisive features distinguish the **IBAU Screw pump** from conventional pumps:

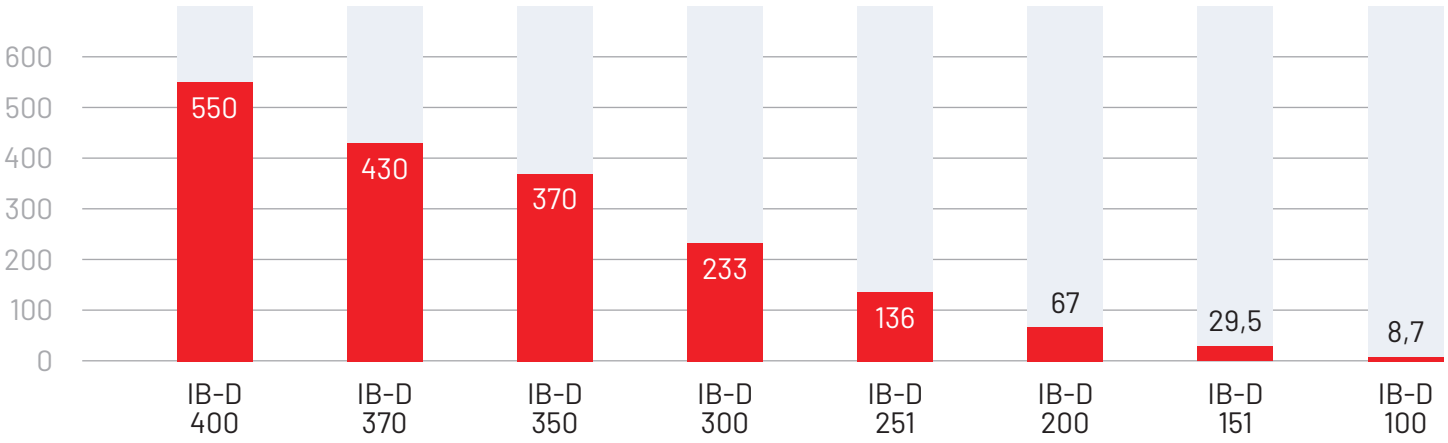
OPERATION & DESIGN

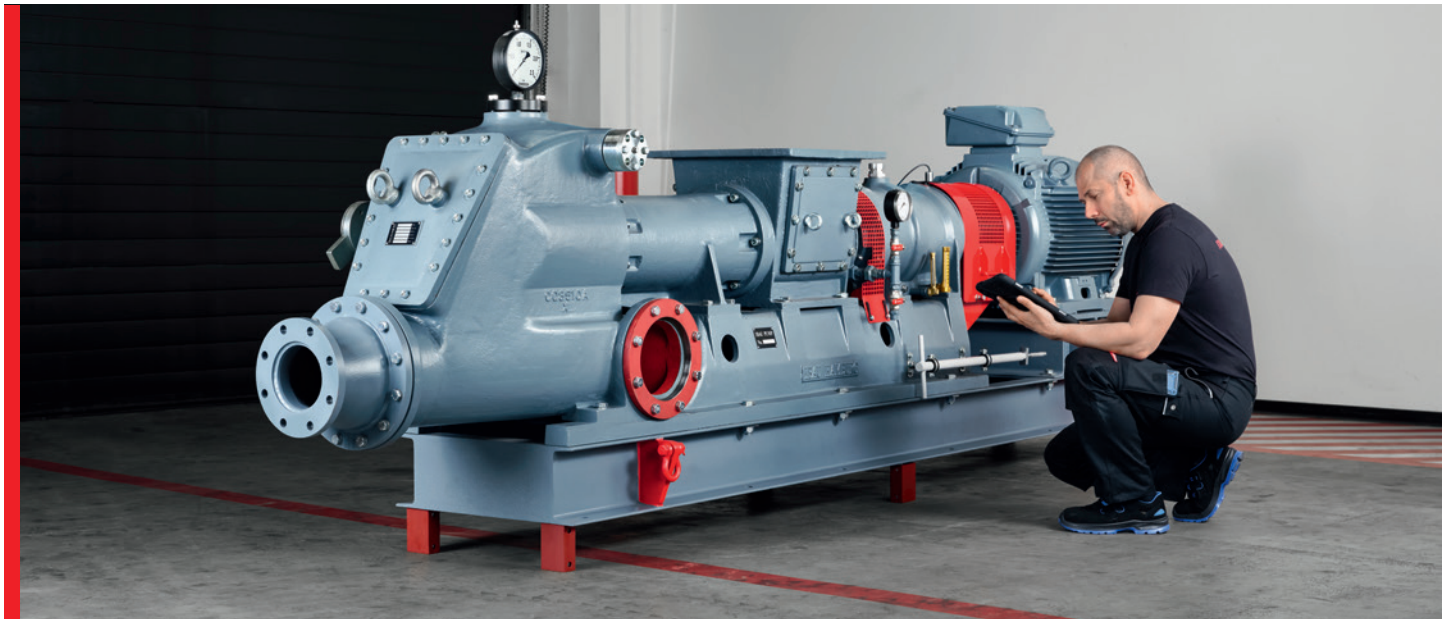
With IBAU Screw pumps there is a short cylindrical space between the end of the screw and the non-return flap which is filled with pulverized material during conveying. Even when the feeding is totally shut down and at pressures above 1 bar there is no blowback of air. This means:

- **Low** wear
- For abrasive materials, the IBAU Screw pump is equipped with a **special armored screw** and **endflight.**
- Incomparably **quieter running,** even under no-load condition
- **Easy removal** and refitting **of the screw** without disturbing the bearing seats
- **Pulsation-free feeding** of material into the conveying line due to sealing plug
- No penetration of the screw shaft into the **pressurized discharge box**



Capacity max (m^3/h)





AREA OF APPLICATION

- Screw pumps are used for the **pneumatic conveying** of cement, raw meal, various kinds of lime, pulverized coal, fly ash, alumina and **many other powdered materials**
- Conveying of powdered materials, **continuously and in large quantities**, into a pneumatic conveying pipe without blowback
- Minimal space requirement and **low overall height**
- Conveying **pipe back pressures** of **up to 2.5 bar** can be accommodated (e.g. screw pumps for unloading ships)
- **Suitable for all types of pulverized bulk materials** and even available in ATEX design

FUNCTION

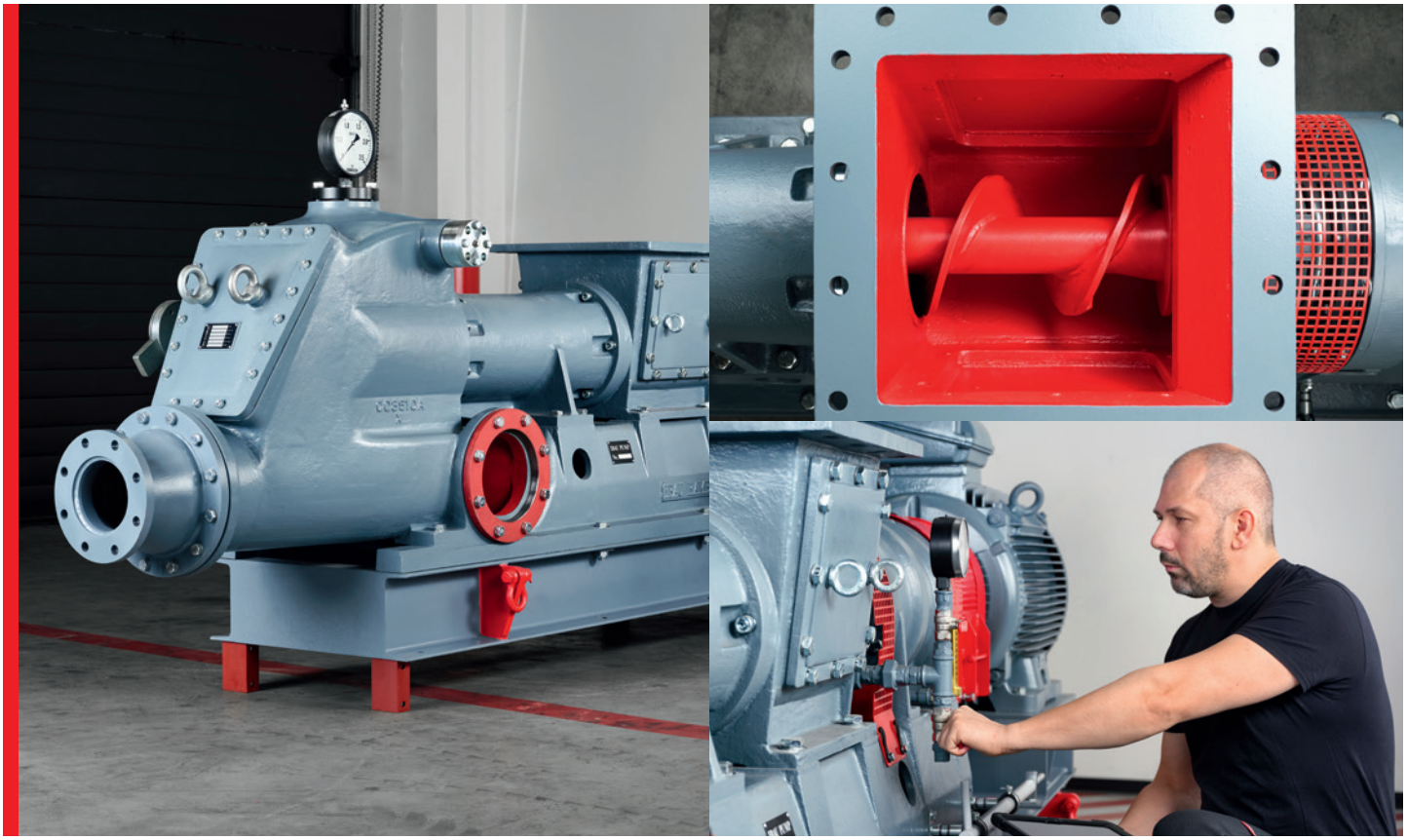
Fast-running screw rotating at between **750 and 1000 min**-1

Even when the feeding is totally shut down and at pressures above 1 bar there is **no blowback of air.**

Sealing between the unpressurized and the pressurized area **by a material plug**

Material feeding variable **0 – 100%**

Continuous discharge of the material to be conveyed from the **unpressurised material inlet** casing into the pressurized outlet casing



ADVANTAGES

of the IBAU Screw pump

- High conveying capacities
- Long conveying distances
- Continuous conveying
- Simple control system
- Quick spare parts delivery, with spare parts being stocked in our warehouses
- Easy exchange of the wear parts
- High bulk material temperatures up to T = 400°C possible
- Available as pressure shock resistant
- Maintenance at site

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