



Flygt N-technology parts and upgrade kits

CLOG-FREE PUMPING. MINIMIZED ENERGY COSTS.

- Self-cleaning impeller
- Cutting groove provides seal protection
- Well-balanced and modular design
- High energy efficiency
- Resistant materials
- Adaptive N-hydraulics
- Upgrade kits
- Tight tolerances



FLYGT
a xylem brand

Flygt N-technology parts & upgrade kits KEY FEATURES

Self-cleaning impeller

The back-swept leading edges of the impeller, in combination with the relief groove in the insert ring, provide self-cleaning performance and continuous trouble-free pumping.

Cutting groove

A close gap and an induction-hardened cutting groove between the impeller and the seal housing cover prevent objects from entering the space above the impeller, thereby reducing the risk of seal failures.

Tight tolerances

Machined gap surfaces, created in high-precision manufacturing processes, provide tight tolerances and ensure high pumping performance.



Hard-Iron impeller and insert ring including chopper version

Well-balanced design

The unique two- or three-bladed impeller design minimizes radial forces, thus reducing bearing loads and minimizing the risk of vibrations and hydraulic imbalance.

Resistant materials

Gray cast iron, with induction-hardened edges on the impeller vanes, provides exceptional wear resistance and long lifetime. Optional Hard-Iron™, a unique alloy with superior hardness (HRC 60) and 25% chrome content, is available for the toughest wastewater challenges.

Flexible, modular design

Choose the gray cast iron standard impeller with induction-hardened edges for typical wastewater applications, the Hard-Iron option for abrasive and corrosive applications, and the chopper ring version for cutting long fibers or solids in wastewater.



Adaptive N-hydraulics

Adaptive N-technology

Adaptive N-hydraulics further improve the self-cleaning, clog-free, energy-saving pump performance of N-technology. The Adaptive N-impeller moves axially upwards when needed to enable bulky material and tough debris to pass through smoothly. The axial movement reduces stress on the shaft, seals and bearings, thereby extending their lifespans.

Upgrade kits

We also provide N-technology parts in competitively priced and easy-to-handle upgrade kits. The kits include all the hydraulic parts needed to upgrade your pump.

Kit type	From	To	Upgrade benefits
N upgrade kit	Previous generation of hydraulics (C-hydraulics)	N-hydraulics (impeller and insert ring, supporting material)	Self-cleaning, clog-free pumping
Adaptive N upgrade kit	N-hydraulics	Adaptive N-hydraulics	Axially moving impeller enables easy passage of large solids
Hard-Iron upgrade kit	Grey cast iron with hardened edges (N-hydraulics)	Hard-Iron impeller, Hard-Iron insert ring (N-hydraulics)	Extra durable material for abrasive and erosion/corrosion applications
Chopper kit	Standard impeller and insert ring in grey cast iron with hardened edges (N-hydraulics)	Hard-Iron chopper insert ring, Hard-Iron impeller (N-hydraulics)	For cutting long fibers or solids
Chopper kit - long fibrous manure	Standard impeller and insert ring in grey cast iron with hardened edges (N-hydraulics)	Hard-Iron chopper insert ring, Hard-Iron impeller and Hard-Iron upper insert ring (N-hydraulics)	Especially suitable for manure applications

Kits are available for most wastewater pumps. For more information, please contact your local Xylem representative.