

MPTK-GI

The MPTK-GI chopper pump is an integrated part of the Landia GasMix System. The pump is ideal for pumping sludge with a high dry matter content. The knife system prevents clogging and ensures a steady chopping of organic material, leading to increased biogas production.

APPLICATION EXAMPLES

➤ Landia GasMix mixing system

PUMP RPM

1,800 rpm



MATERIAL OF CONSTRUCTION

Motor housing and oil chamber	Cast iron AISI A48-40B
Pump housing	Cast iron AISI A48-40B
Pump impeller	Cast iron AISI A48-40B Cast iron AISI 100-70-03 (optional) Cast iron FC-8M (optional)
Pump shaft	AISI4340
Bolts	Steel AISI 316
Sealing system	Mechanical shaft seals: silicon carbide/silicon carbide
Knife system	Hardened steel A 570 GR 36 Steel AISI 316 (optional)
Extended knife system	Hardened steel A 570 GR 36 (optional) Steel AISI 316 (optional)
Oil type	15W-40 Vario HDX (with moisture detection)

SERVICE AND MAINTENANCE

Recommended service interval/oil change	Maximum 2,000 operating hours/minimum once a year
Motor	Lifetime lubricated bearings
Oil chamber	Periodic oil change

SURFACE TREATMENT

Machinery enamel: RAL 9005 (Jet Black)	Jet Black
2-component coating: RAL 7005 (Mouse Grey) (optional)	Mouse Grey

MONITORING FUNCTIONS

Thermistor 284 °F

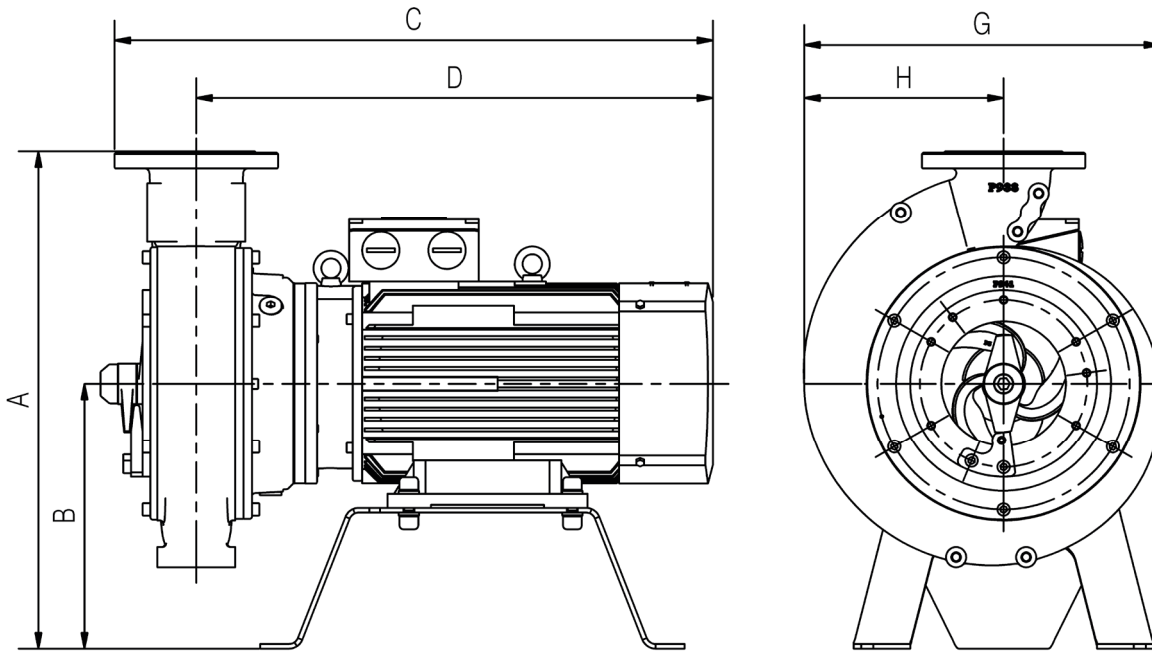
Moisture detection system (optional)

ELECTRICAL DATA

Motor type	3-phase AC motor
Nominal voltage	460 V
Minimum voltage allowed	415 V
Nominal frequency	60 Hz
Suitable for VFD-operation	Yes
Cage class	IP 55
Insulation class	F

Model	Nominal power	Motor	Full load current (460 V)	Connection method		Start current (DOL)	cos phi	Efficiency (100%)
	[HP]	[rpm]	[A]	[V]	Y/Δ	[A]		[%]
MPTK-GI 105 30.2 HP-1800 rpm	30.2	1760	36.0	460	Δ	241	0.85	90.0

OVERALL DIMENSIONS



Model	A [inch]	B [inch]	C [inch]	D [inch]	G [inch]	H [inch]	Weight [lb]
MPTK-GI 105 30.2 HP-1800 rpm	25.2	13.4	28.7	24.6	18.1	9.8	463

We reserve the right to make technical changes.