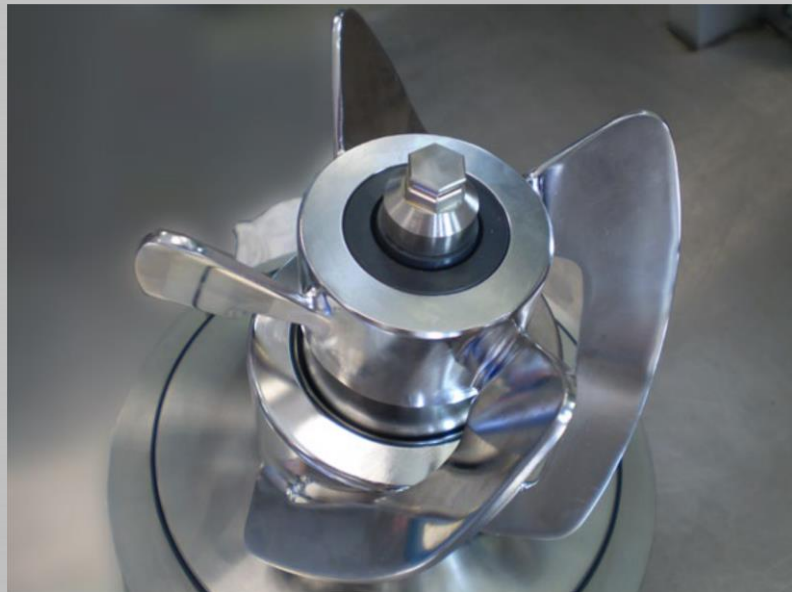


PG-MAG® AGITATOR
Aseptic magnetic agitators
for pharmaceutical applications and
food mixing



PG-MAG® AGITATOR

ASEPTIC MAGNETIC AGITATORS



Combining its know-how in aseptic processes with its expertise in agitation, PIERRE GUERIN offers you the PG-MAG™ range, a new generation of magnetic-drive tank bottom agitators. These systems are particularly well suited to pharmaceutical and food storage tanks, for applications requiring strict asepsis, high agitation performance and in-place cleaning.

Main benefits

- PG-MAG™ agitation systems guarantee perfect tightness (no mechanical seals or lubrication systems) and a total absence of contamination.
- The design and manufacture of this equipment meets the requirements of cGMP and EHEDG standards: suitability for in-place cleaning and sterilization, drainability, absence of dead zones, finish $Ra \leq 0.8 \mu\text{m}$ with electropolishing of the mobile (option: $Ra \leq 0.4 \mu\text{m}$, electropolishing of the base) material traceability for all parts in contact with the product.
- The design of the agitator blades ensures maximum circulation rate at low rotation speeds, generating optimum mixing time and minimum shear.
- The range of just 4 units covers a volume range from 20 liters up to 50,000 liters, limiting the diversity of the stock of wearing parts.
- The systems are supplied with full documentation to support validation.



Technical features

Tank volume (L)	20-200	200-2000	2000-20000	20000-50000
Power (kW)	0.37	0.75	3.0	5.5
Speed (RPM)	80-500	80-500	80-500	42-300

Information suitable for liquids having approximatively viscosity and density such water

Material

- Stainless steel EN 1.4404 - 316L for all contact parts
option: EN 1.4435
- Bearing ring in silicon carbide
option : Peek
- Magnet in Samarium Cobalt
- EPDM gasket - Other on request
- Material certificate 3.1.

Finishing

- Finishing of all wetted parts: $Ra 0.8 \mu\text{m}$
option : $Ra \leq 0.4 \mu\text{m}$ electropolished



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Other available options

- Bell assembly on removable flange
- Bell housing extension for insulated tank bottoms
- Speed sensor
- Motor with integrated frequency inverter
- Control box
- Magnetic retaining device for sterilization in autoclave
- Dismantling tool (for **PG-MAG-1B & 10B**)



Selection guide

Note your selection here...

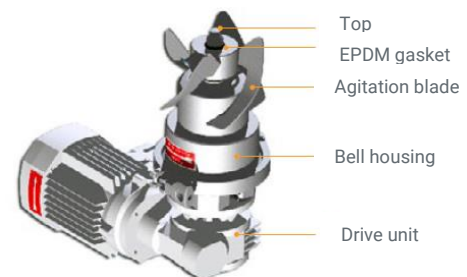
Code	Tank nominal volume (L) -indicative	
PG-MAG-1B	20-200	
PG-MAG-10B	200-2000	
PG-MAG-50B	2000-20000	
PG-MAG-100B	20000-50000	
Code	Material	
04	1.4404	
35	1.4435	
Code	Roughness	
S8	Ra ≤ 0.8 µm	
S4	Ra ≤ 0.4 µm	
Code	Assembling	
AS	Bell housing weld pad	
BD	Bell housing on removable flanged	

Available options		
01	Speed sensor	
02	Motor with integrated frequency inverter	
03	Bell housing extension	
04	Peek material bearing ring in lieu of Silicon	
05	Electropolished of all wetted parts	
Available accessories		
A01	Magnetic retaining device for sterilization by autoclave (PG-MAG-1B & 10B only)	
A02	Dismounting tool (PG-MAG-1B & 10B only)	
A03	Leak proof bell housing control tool (recommended if AS assembling)	
A04	Supply of bell flange to be welded to the vessel (if BD assembly)	

Example of agitator coding: **PG-MAG-50B-04-S4-AS/04-02**
 Example accessories coding: **PG-MAG-50B/A01/A03**

3D view - Dimensions and weight

Model	Weight (kg)	Dimensions (mm) L x H x I
PG-MAG-1B	10	354 x 302 x 197
PG-MAG-10B	17	417 x 371 x 225
PG-MAG-50B	60	586 x 508 x 270
PG-MAG-100B	120	810 x 724 x 361



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