

cLEAN System



Interior Permanent Magnet Motor vs. Surface Permanent Magnet Motors vs. Induction (Asynchronous) Motors

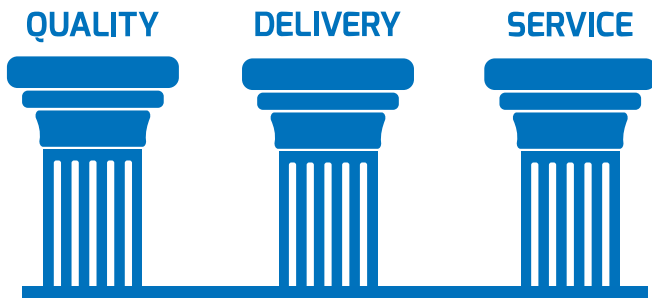
Motor Type	 Surface Permanent Magnet (SPM) Synchronous Motor	 Interior Permanent Magnet (IPM) Synchronous Motor	 Asynchronous Motor
Motor Example	STÖBER EZ Motor	STÖBER cLEAN Motor	NEMA Motor
Magnet Location	Outer Diameter or the rotor	Embedded inside the rotor	No Permanent Magnets; Cooper Windings
Drive Requirements	Servo Drive	VFD	VFD (optional)
Feedback Requirements	Encoder	Resolver (optional)	None
Advantages	Precise speed and location; level speed/torque curve	Level speed/torque curve, higher speeds	Inexpensive, readily available, powered directly from mains
Cost	\$\$\$	\$\$	\$
Application Examples	Pick and place robots, packagin machines, and machine tool	Conveying and electric vehicles	Conveying
Efficiency	++	+++	+



STÖBER

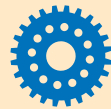
Our Three Pillars

STOBER is your **trusted partner** in providing the ultimate customer experience. From unsurpassed quality to rapid response support to fast delivery, we are the **gold standard** for gearboxes.



STÖBER 
CONFIGURATOR

With the new STOBER Configurator, engineers and designers will save time in product selection and designing. Everything is a simple click away!



World's Toughest Gearbox
Best components and quality



Quick Delivery
Build & Ship in 1 Day



24/7, 365 Support
Real people all the time

9.1 YEARS

Average mean time to failure for STOBER gearboxes in 24/7 harsh environment application.

Asset reliability means you can depend on a STOBER gear reducer for years, increasing profits and surpassing plant efficiency and targets.

