

# Selecting a Frameless Servo Motor

Kollmorgen TBM2G, TBM and KBM frameless servo motors offer exceptionally compact, precise, environmentally resilient motion. **How do you make the right choice for your application?**



Do gears, belts and couplings limit your application performance?

**YES** ↓

**NO** → Choose a housed servo motor.



Are one or more of these performance criteria important to you?

- Compact form factor: A smaller, lighter, more efficient machine.
- Precision: Direct drive, zero backlash motion.
- Environmental resilience: Extreme operating conditions.

**YES** ↓

**NO** → Choose a housed servo motor.



Have you considered embedding a servo motor directly into your machine?

**YES** ↓

**NO** → Learn about frameless technology



What are your motion requirements?

TBM2G, TBM, KBM ← 48 volts or less ← Bus voltage? → Over 48 volts → KBM

TBM, TBM2G ← ≤ 2 hp & ≤ 6 Nm ← Performance load points → > 2 hp → KBM

Do the math:  $HP = T[\text{ft.lbs}] \times \text{RPM} / 5252$



TBM2G, TBM



Axially short, flexible diameter

Do you need the shortest motor possible?

Axially longer, smaller diameter



→ KBM

TBM

Temperature, vacuum, radiation etc.

Do you need customized materials for extreme environments?

Contact Kollmorgen for all your frameless motor questions

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