

Value Delivered.

Kollmorgen's new PMX™ stepper motor line delivers breadth and design flexibility at competitive lead times.

Kollmorgen is excited to continue its winning heritage in hybrid stepper motors by introducing the PMX family. Leveraging the best practices from customer preferred products in the POWERMAX and POWERPAC families, the PMX lines will deliver breadth and design flexibility at a very competitive lead time. Look no further for that hybrid stepper motor family with local support that gives you the flexibility you need to succeed.

- **Large range of sizes and options** supports numerous performance and size requirements to meet your application needs from a single motion source.
- **Lower Unit Cost.** PMX motors are priced competitively in today's current stepper market and are the lowest of all Kollmorgen stepper products.
- **Quality construction** translates to reliability in the field and a long service life
- **Localized Support** gives you the delivery terms and immediate technical support you need, meaning to quicker time to market and less downtime.
- **Flexible Manufacturing** enables Kollmorgen to immediately evaluate modifications and co-engineered solutions for rapid prototyping.



Many Applications.

PMX motors allow Kollmorgen customers to fulfil their automation needs at an affordable cost, enabling higher throughput in a wide variety of equipment. In addition, leveraging Kollmorgen's technical expertise and flexible engineering, the PMX is ready for seamless special and co-engineering options, allowing for swifter and easier integration into both new and existing applications.

Standard



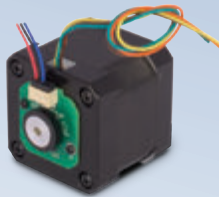
Features

- Six frame sizes (08, 11, 14, 17, 23, 34) each with several stack length and winding options available
- Multiple front and rear shaft configuration
- CE, RoHS, and REACH compliant
- Use with Kollmorgen Stepper drives for system solution

Benefit

- Increased design flexibility
- Reliability over long service life
- Low unit cost without sacrificing performance and support

Added Modification



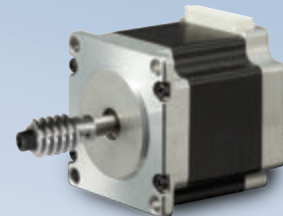
Features

- Shaft modification
- Special windings
- Special connectors and cabling
- Encoders
- Gearboxes

Benefit

- Swifter integration and prototyping
- Reduction of on-site labor requirements
- Modifications can match and replace pre-existing motors at a lower cost

Customized Solutions



Features

- Complete motor subassemblies and system design available through full co-engineering with Kollmorgen


Benefit

- Design optimization
- Assembly is "drop-in" ready for plug & play machine integration
- Reduced machine SKU count
- Reduction in machine assembly time

PMX™ Stepper Motor Overview

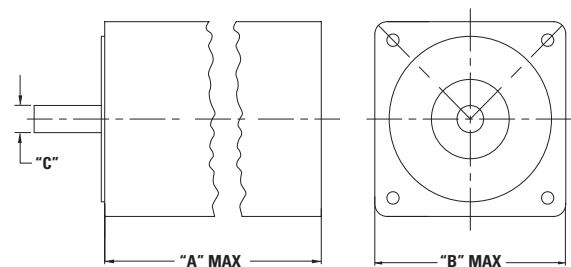
Standard Options

○ available option

	Product Family	NEMA	Step	Stacks	Holding Torque (oz-in)			CE Mark	RoHS	Integral Connector	Leadwire	4-Lead Bipolar	6-Lead Unipolar	IP Sealing	Front Shaft			Rear Shaft
					400	1200	2000								Normal	Flat	Keyway	
 Economy, Push	PMX08	08	1.8°	2	4.0			•	•		•	•	30	○	•		•	
	PMX11	11	1.8°	3	19.2			•	•	•	•	○	30	○	•		•	
	PMX14	14	1.8°	3	26.2			•	•	•	•		30	○	•		•	
	PMX17	17	0.9° 1.8°	5	124.5			•	•	•	•	○	30	○	•		•	
	PMX23	23	0.9° 1.8°	3	386			•	•	•	•	○	30, 65 ¹	○	•		•	
	PMX34	34	1.8°	4	1695			•	•		•		30, 65 ¹	○	•	○	•	

PMX™ Dimensional Overview

NEMA Frame	"A" MAX					"B" MAX	Ø "C"
	Stacks					Frame Size	Shaft Diameter
	1	2	3	4	5		
08	30 [1.18]	42 [1.65]		-	-	20.2 [0.80]	4 ^{0.013} [0.16 ^{0.0005}]
11	32 [1.24]	45 [1.75]	51 [1.99]		-	28.2 [1.11]	5 ^{0.013} [0.20 ^{0.0005}]
14	26 [1.02]	28 [1.10]	36 [1.42]		-	35.2 [1.39]	5 ^{0.013} [0.20 ^{0.0005}]
17	25 [0.98]	33 [1.30]	38 [1.50]	47 [1.85]	60 [2.36]	42.3 [1.67]	5 ^{0.013} [0.20 ^{0.0005}]
23	41 [1.61]	56 [2.20]	76 [2.99]			56.4 [2.22]	6.35 ^{0.013} [0.25 ^{0.0005}]
34	65 [2.56]	80 [3.15]	118 [4.65]	156 [6.14]		85.85 [3.83]	12.7 ^{0.012} [0.50 ^{0.0005}]



Dimensions in mm [inches]

PMX™ Nomenclature

PMX 11 2 0 - G 1 0 - U N 0 - 00

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

	Available Motor					Available Options					Available Options									
	PMX					PMX					PMX									
① Motor Series	08	11	14	17	23	34	Motor Series	08	11	14	17	23	34	Motor Series	08	11	14	17	23	34
② NEMA Frame	08	11	14	17	23	34	NEMA Frame Sizes	08	11	14	17	23	34	NEMA Frame Sizes	08	11	14	17	23	34
③ Rotor Stack Length	•	•	•	•	•	•	⑥ Connection/Option	•	•	•	•	•	•	⑧ Rear Shaft Option	•	•	•	•	•	•
1 = 1 stack	•	•	•	•	•	•	B = 4 lead Bipolar	•	•	•	•	•	•	O = No rear shaft	•	•	•	•	•	•
2 = 2 stacks	•	•	•	•	•	•	U = 6 lead Unipolar	•	•	•	•	•	•	R = Rear shaft	•	•	•	•	•	•
3 = 3 stacks	•	•	•	•	•	•	X = Integrated Connector	•	•	•	•	•	•	⑨ Sealing Option	•	•	•	•	•	•
4 = 4 stacks	•	•	•	•	•	•	⑦ Front Shaft Option	•	•	•	•	•	•	00 = IP30	•	•	•	•	•	•
5 = 5 stacks	•	•	•	•	•	•	N = Smooth front shaft	•	•	•	•	•	•	01 = IP65 sealing	•	•	•	•	•	•
④ Motor Winding	•	•	•	•	•	•	F = Flat front shaft	•	•	•	•	•	•							
Bipolar (A through F)	•	•	•	•	•	•	K = Open keyway	•	•	•	•	•	•							
Unipolar (G through J)	•	•	•	•	•	•														
⑤ Step Angle	•	•	•	•	•	•														
1 = 1.8°	•	•	•	•	•	•														
9 = 0.9°	•	•	•	•	•	•														