

Portescap's Miniature Motion Solutions for Performance-Critical Applications

Innovative motion technologies and custom engineering services that ensure a perfect fit for your individual application.

RESPIRATORY CARE

BLDC motors provide responsiveness and efficiency for improved patient acceptance and extended device life.

CLINICAL DIAGNOSTICS

Portescap offers the required breadth of motor technology to optimize movement and meet your application needs.

INDUSTRIAL POWER TOOLS

High torque-to-weight ratio, lower noise and high efficiency offer best-in-class performance.

AUTOMATION/ROBOTICS

Smooth motion and improved accuracy at higher speeds increase machine throughput and handling performance.

INFUSION SYSTEMS

Highly efficient mini motors allow for compact pump design with longer battery life.

AEROSPACE

Highly powered brushless and brush DC motors reduce weight and size and provide high precision.

SURGICAL POWER TOOLS

High power and performance for better surgical outcomes.

OTHER INDUSTRIES

Extraordinary torque density, efficiency and reliability for a wide variety of OEM markets and applications.


We leverage our miniature motor technologies and **application know-how** to serve a spectrum of motion control applications

Portescap


www.portescap.com

Compact, Powerful Motors for Your Application


Choose the **motor technology** that meets your needs for speed, torque, size, efficiency and acceleration. And rely on our advanced **custom engineering** to get the exact windings, magnet types, commutation technologies, shafts, leads and other features you need for an **optimized solution**.




Brushless Slotted DC
Frame Size: 12.7 to 50.8 mm*
Speed: up to 100,000 rpm
Torque: up to 6,526.6 mNm
**upon request*



Stepper Disc Magnet
Frame Size: 10* to 74 mm
Speed: up to 10,000 rpm
Torque: up to 325 mNm
**upon request*




Gearheads
Frame Size: 8* to 40 mm
Speed: up to 10,000 rpm
Torque: up to 10 Nm
**upon request*



Brushless Slotless DC
Frame Size: 16 to 35 mm
Speed: up to 70,000 rpm
Torque: up to 225 mNm




Stepper Can Stack
Frame Size: 15 to 60 mm
Speed: up to 1,000 rpm
Torque: up to 300 mNm



Encoders
Frame Size: 8* to 30 mm
Technology: Magnetic, Optical
Line Count: 1 to 1024
**upon request*



Brush DC Coreless
Frame Size: 8 to 35 mm
Speed: up to 16,000 rpm
Torque: up to 160 mNm



Digital Linear Actuator
Frame Size: 20 to 42 mm
Speed: up to 500 full step/s
Force: up to 125 N

Choose the Right Technology for Your Application

	Brushless DC Slotted	Brushless DC Slotless	Brush DC	Disc Magnet	Can Stack	Can Stack Linear Actuator
Efficiency/battery life	++	+++	++++	+	+	+
Motor lifetime	++++	++++	++	++++	+++	++
Autoclavability	++++		+			
Ability to withstand harsh environments	++++	+++	++	++	+	+
High power/weight ratio	++++	++++	+++	+++	+	+
High motor acceleration	++	++	+++	++++		
Open loop positioning	+	+		++++	++	+++
Simple control	+	+	++++	++	++	++
Low noise	+++	++++	+++	++	++	+
Ease of achieving linear motion						++++
Max rated continuous torque	++++	++++	+++	++++	+	
Max speed	++++	++++	+++	++	+	+

Contact Us

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