

PORTESCAP Product Brochure

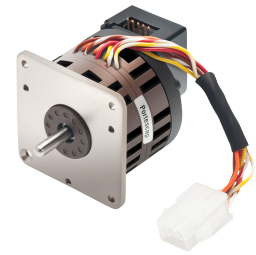
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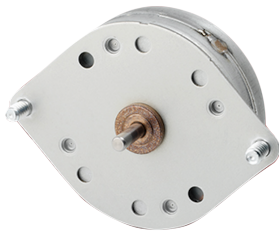
14.1 Portescap Brushless DC



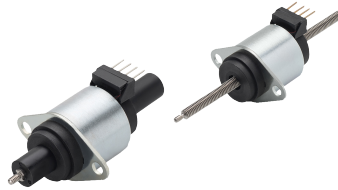
14.2 Portescap Brush DC



14.3 Portescap Disc Magnet Motors-DMM



14.4 Portescap CanStack



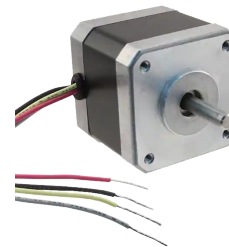
14.5 Portescap CantSack



14.6 Portescap Gearheads



14.7 Portescap Encoders



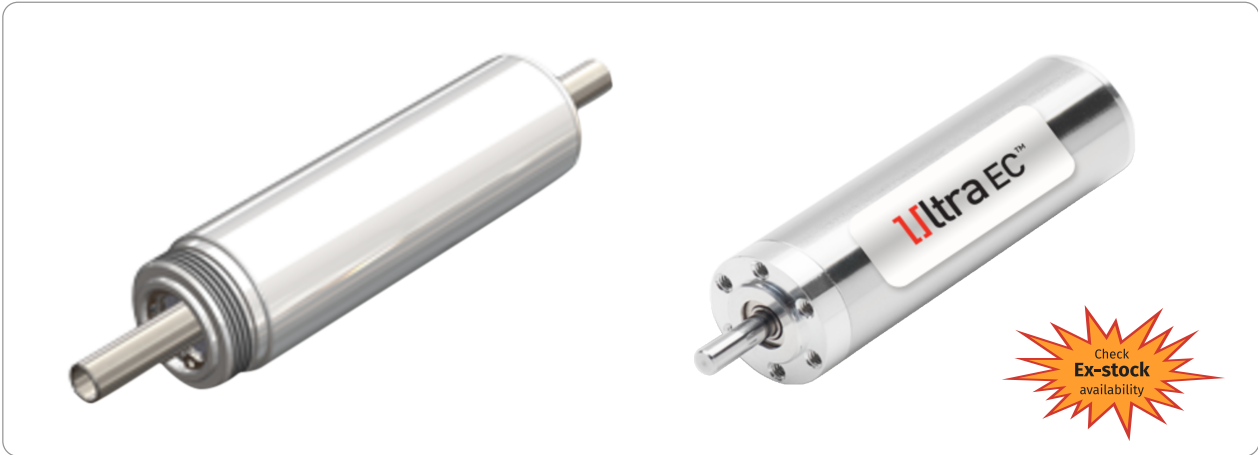
14.8 Hybrid Stepper Motor

Portescap is the innovation leader in miniature motors and precision motion control technologies for performance-critical applications that save, improve and enhance lives. We continually advance the state of the art for power, precision and efficiency in miniature motion. Driven by our passion for innovation, technical excellence and quality service, we deliver best-in-class products and custom engineering services to ensure a perfect fit for your applications.

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14.1 Portescap Brushless DC Motors – BLDC



14.1.1 BRUSHLESS DC SLOTTED MOTORS



Selection parameters

Parameters	Min	Max
Frame Size	12.7 mm	50.8 mm
Speed	-	100000 rpm
Torque	-	6,526.6 mNm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Product application

Bograma Machine
Ruti Weaving Machine
Ventilator-Data Automation

Built for precision, efficiency and reliability, these motors offer the power density needed to deliver top performance in the most compact applications.

14.1.2 BRUSHLESS DC SLOTLESS MOTORS



Selection parameters

Parameters	Min	Max
Frame size	26 mm	32 mm
Speed	-	70000 rpm
Torque	-	225 mNm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Product application

Bograma Machine
Ruti Weaving Machine
Ventilator-Data Automation

Built for precision, efficiency and reliability, these motors offer the power density needed to deliver top performance in the most compact applications.

14.2 Portescap Brush DC Motors.



Product application

Zimmer Austria Textile Machine
Ruti Weaving Machine
Rieter India Spinning and Weaving Machine
Orlicon Machine
Wheel Alignment Machine
Lynsen Andridz - Germany

Selection parameters

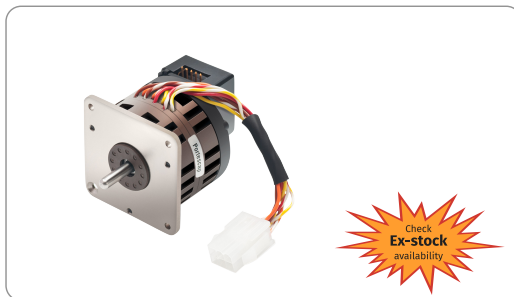
Parameters	Min	Max
Frame Size	8 mm	35 mm
Speed	-	16000 rpm
Torque	-	160 mNm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Featuring a permanent magnet, coreless design, our brush DC motors deliver high efficiency and power density in a small, lightweight package.

14.3 Portescap Disc Magnet Motors-DMM



Selection parameters

Parameters	Min	Max
Frame Size	10 mm	74 mm
Speed	-	10000 rpm
Torque	-	325 mNm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Product application

Fadis Textile Machine
Ruti Weaving Machine
Premier Yarn Testing Machine

The unique thin disc magnet enables finer step resolutions compared to a conventional permanent magnet stepper, while the low inertia and a shorter magnetic circuit with lower iron losses deliver significantly higher acceleration and maximum speed.

14.4 Portescap Can Stack Motors



Selection parameters

Parameters	Min	Max
Frame Size	15 mm	60 mm
Speed	-	1000 rpm
Torque	-	300 mNm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Product application

Flocon Actuator
Ruti Weaving Machine
Schlafhorst Autoconner Textile machine
Shilfi Textile Machine

Our can stack motors are the simplest motion solution for a wide range of applications that require high continuous motor torque but don't require the absolute positioning of a servo system.

14.5 Can Stack Linear Actuators



Selection parameters

Parameters	Min	Max
Frame Size	20 mm	42 mm
Speed	-	500 full steps
Force	-	102 N
Stroke Length	13.2 mm	76.2 mm

Industries it caters to

Medical Industry
Aerospace Industry
Instrumentation Industry

Product application

Thunderbolt Instrument
Biomedical Suction Pump
Conveyor Systems

By eliminating the need for external gears, belts or separate threaded shafts, these compact linear actuators help lower total costs while increasing the performance and reliability of your machine.

14.6 Portescap Gearheads



Selection parameters

Parameters	Min	Max
Frame Size	8 mm	40 mm
Speed	-	10000 rpm
Torque	-	10 Nm

Industries it caters to

Medical Industry

Aerospace Industry

Instrumentation Industry

Product application

Surgical Hand Tools

Laboratory Automation

Medical Analyzers

Our can stack motors are the simplest motion solution for a wide range of applications that require high continuous motor torque but don't require the absolute positioning of a servo system.

14.7 Portescap Encoders



Selection parameters

Parameters	Min	Max
Frame Size	8 mm	40 mm
Line Count	-	10000 rpm
Operating Temperature	-	10 Nm

Industries it caters to

Medical Industry

Aerospace Industry

Instrumentation Industry

Product application

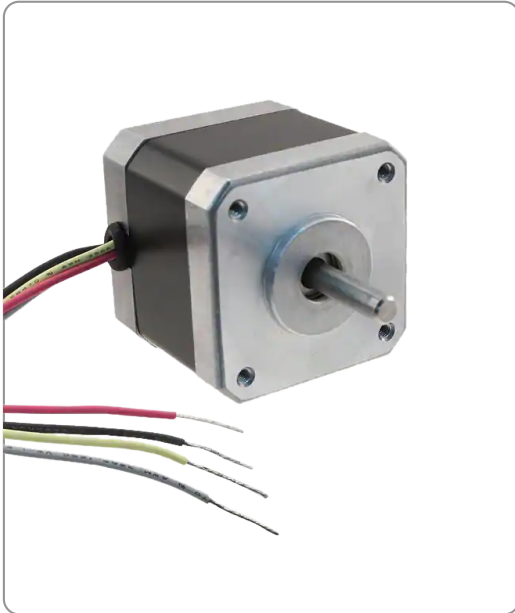
Fadis Textile Machine

Tube Drawing Machines

Conveyor Systems

Encoders provide feedback for accurate control of speed and positioning. We offer three types – optical, magnetic and magnetoresistive – all featuring a robust design suitable for severe environments.

14.8 Hybrid Stepper Motor



Selection parameters

Parameters	Min	Max
Frame Size	8 mm	40 mm
Line Count	-	10000 rpm
Operating Temperature	-	10 Nm

Product application

Medical Industry

Aerospace Industry

Instrumentation Industry

Industrial Automation

Portescap Hybrid stepper motors are precise steppers with very fine resolutions(1.8° or 0.9° step angles).We have NEMA 17 & NEMA 23 unipolar & Bipolar motor.