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Saia-Burgess Group

The human requirement for comfort and safety is central in driving technological progress. Our activities are inspired by this:

Smart solutions for comfort and safety.



Profile

Who

We are a successful international group focussing on expanding segments of the automotive, industrial and building automation markets. As a supplier, our core competency is the development of innovative solutions which integrate electronic and electromechanical technologies.

What

We want to be a leading supplier in our target market segments. Our global brand stands for innovation, reliability and value. Respecting ethical principles, we create sustained added value for all of our interest groups – employees, customers, shareholders.

How

Together with our customers we develop solutions which increase comfort, safety and economy. We manufacture switches, sensors, motors, solenoids, electronic controllers and subsystems in Europe, America and Asia. Our products are supplied and supported through our extensive international sales and tech-centre organisation.

Market led structure

Automotive Division

Supplies mechanical and electromechanical components in large volumes worldwide (switches, motors, solenoids, sensors) together with subsystems as innovative solutions for clearly defined applications in the comfort and safety areas of automotive design.

Industry Division

Supplies OEM customers worldwide with a broad product range comprising electromechanical and electronic components and subsystems. These cover increased demands for comfort and safety features, mainly in domestic appliances, heating, ventilation and air-conditioning applications, and in the general industrial sector.

Controls Division

Supplies customers in Europe with control technology based on programmable logic controllers for use mainly in the areas of infrastructure automation processing control.

Innovative Products

Our research and development is focused totally on market need and customer requirements. Substantial investment is made in the development not only of innovative, new products, but also of customised solutions. Our products are manufactured, according to type and technical requirements, on either highly automated, partially automated or manual production equipment.

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Saia-Burgess Industry Division

Solutions for comfort and safety



Vending and Gaming Machines

Special Vehicles

Office Equipment

The Industry Division offers a broad range of standard and customised products: switches, motors, solenoids, door locking systems, sensors, electronic control devices and sub-systems. The Division has a worldwide presence with its own sales network and tech centre organisation.

Combining the electromechanical with electronics

The fusion of electronic and electromechanical sub-assemblies has made new, innovative solutions possible for a variety of industrial applications.

Highly flexible production

The Division is involved with design and engineering, tool manufacture, electronics, plastic and metal parts production, assembly employing its own extensive quality procedures and test equipment. The options of partially automated or manual production for medium to small volumes offer a high level of manufacturing flexibility.

Domestic appliances are safer and more convenient

The use of control switches, microswitches, solenoids, sensors and sub-systems in coffee machines, extractor hoods, microwave ovens, washing machines, dishwashers, tumble dryers, mixers, etc. has brought greater safety and comfort to the user.

Improved energy efficiency in heating, ventilation and air-conditioning

The level of energy efficiency in buildings has been increased by the use of solenoids, motors, microswitches, sensors and sub-systems in gas and water valves, and in air valves for heating, ventilation, air-conditioning and fuel-cell applications.

More comfort and safety in very diverse applications

Comfort and safety have been improved by using microswitches, control switches, motors, solenoids and sub-systems in office machinery, postal sorting equipment and other very varied applications in vending machines, gaming machines, specialist vehicles, telecommunications and medical equipment.

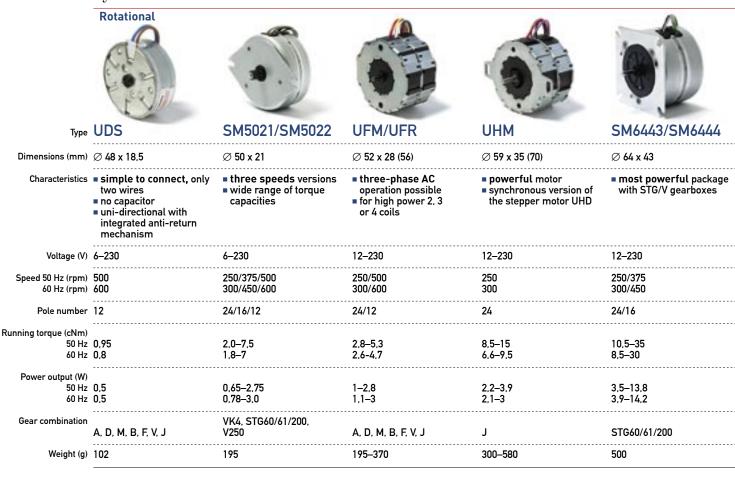
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Motors

Synchronous Motors



Synchronous Motors



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Synchronous Motors











Type SM3532RG	Туре	SI	М3	53	2	R	G
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SM5032RG

SM6469RG

Type UCC/UCK

Dimensions (mm) Ø 35 x 32

 \varnothing 50 x 32

 \emptyset 64 x 69

Dimensions (mm) Ø 28 x 31

Characteristics • new linear motor using modules of the UC range

integrated non-rotational thread spindle

Characteristics • torque limiting feature

abrasion-free, integrated low noise magnetic hysteresis clutch

Voltage (V)	24–230	24–230	24–230
Speed 50 Hz (rpm) 60 Hz (rpm)		375 450	375 450
Pole number	16	16	16
Rotational, orque Limited (cNm)			
50 Hz	•	2	7

Tor

60 Hz 0,6 2

Power output (W) 50 Hz 0.25

60 Hz 0,3

Gear combination STG60/61/200, V250

Weight (g) 100

7

0.8 2.75 0,95 3

STG60/61/200, STG61/200, V250 V250 190 600

Travel (mm) 10/13 Voltage (V) 12-48 Thread pitch (mm) 1,0 Speed (mm/s) 50 Hz 60 Hz 5/10

Pole number 24/12

Max Force (N)* 35

Weight (g) 67

* Depends on winding, frequency and lifetime required. Drive against end stops only permissible after charification of operational conditions

Synchronous Motors



for extended travel the

spindle has to be

retained externally









Type UBK

Dimensions (mm) Ø 36 x 36

Characteristcs standard linear motor

 \emptyset 36 x 41

LA3520SM

linear actuator with 3 speeds

20 mm travel

integrated non-rotationalfor extended travel threaded spindle

SP3520SM

Ø 36 x 25

spindle type

threaded spindle has to be retained externally

LA5021SM

 \varnothing 50 x 76

3 speeds

■ 50 mm travel threaded spindle

linear actuator with

spindle type

 \varnothing 50 x 27

threaded spindle has to be retained externally

SP5021/5022SM

■ integrated non-rotational ■ for extended travel

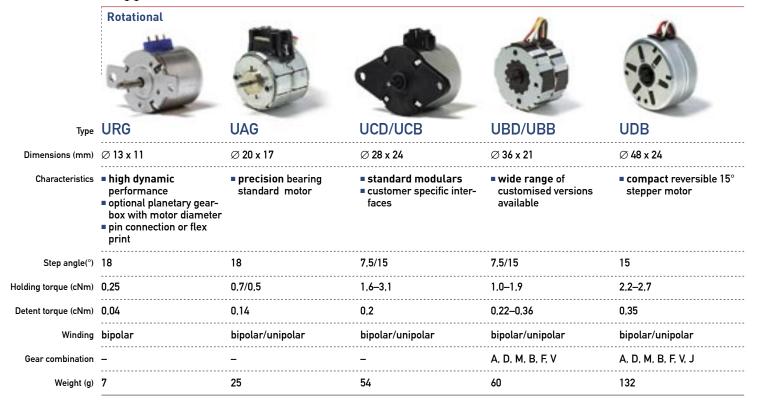
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Travel (mm)	8/13/56	20	24–134	45–50	68–130
Voltage (V)	12–230	24–230	24–230	12–230	12–230
Thread pitch (mm)	1,0	0,75/0,75/0,75	0,75/0,75/0,75	1,5/1,5/1,5	1,5/1,5/1,5
Speed (mm/s) 50 Hz 60 Hz	6,67/8,33 8/10	3,125/4,69/6,25 3,75/5,62/7,5	3,125/4,69/6,25 3,75/5,62/7,5	6,25/9,37/12,5 7,5/11,25/15	6,25/9,37/12,5 7,5/11,25/15
Pole number	12	24/16/12	24/16/12	24/16/12	24/16/12
Max Force (N)*	35	20	20	45–50	45–70
Weight (g)	90	100	100	220	220

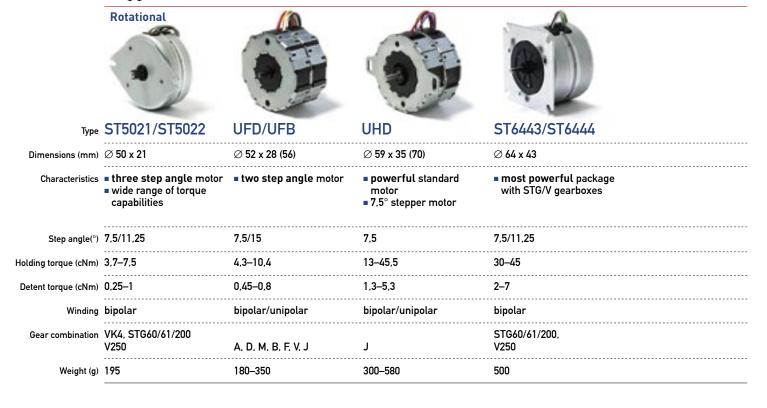
^{*} Depends on winding, frequency and lifetime required.
Drive against end stops only permissible after clarification of operating conditions

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Stepper Motor



Stepper Motor



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Stepper Motor









					Charles of the Control of the Contro
Туре	UCE/UCL	UBL	LA3520ST	SP3520ST	LA5021ST
Dimensions (mm)	Ø 28 x 31	Ø 36 x 36	Ø 36 x 41	Ø 36 x 25	Ø 50 x 76
Characteristics	 new linear motor using modules of the UC range integrated non-rotational threaded spindle 	 general purpose linear motor for long travel version the spindle has to be retained externally 	 linear actuator with 3 step widths and 20 mm travel integrated threaded spindle is prevented from rotating 	be retained externally for extended travel	 linear actuator with 3 step widths and 50 mm travel integrated non- rotating threaded spindle
Travel (mm)	10/13	8/13/56	20	24–134	45–50
Travel per step (mm)	0,021/0,041	0,033/0,041	0,016/0,023/0,031	0,016/0,023/0,031	0,031/0,047/0,063
Thread pitch (mm)	1,0	1,0	0,75/0,75/0,75	0,75/0,75/0,75	1,5/1,5/1,5
Speed (mm/s) at 200 Hz	4,16/8,33	6,67/8,33	3,125/4,69/6,25	3,125/4,69/6,25	6,25/9,37/12,5
Step angle (°)	7,5/15	15	7,5/11,25/15	7,5/11,25/15	7,5/11,25/15
Max. Force (N)*	35	35	20	20	45–50
Weight (g)	67	90	100	100	220

^{*} Depends on winding, frequency and lifetime required, Drive against end stops only permissible after clarification of operational conditions

Stepper Motor





		-
Туре	SP5022ST	UKE
Dimensions (mm)	Ø 50 x 27	Ø 57 x 45
Characteristics	 spindle type threaded spindle has to be retained externally for extended travel 	 the most powerful 7,5° linear stepper motor integrated non-rotating threaded spindle
Travel (mm)	68–130	13/30
Travel per step (mm)	0,031/0,047/0,063	0,031
Thread pitch (mm)	1,5/1,5/1,5	1,5
Speed (mm/s) at 200 Hz	6,25/9,37/12,5	6,25
Step angle (°)	7,5/11,25/15	7,5
Max. Force (N)*	50–70	50–100
Weight (g)	220	325

^{*} Depends on winding, frequency and lifetime required, Drive against end stops only permissible after clarification of operating conditions

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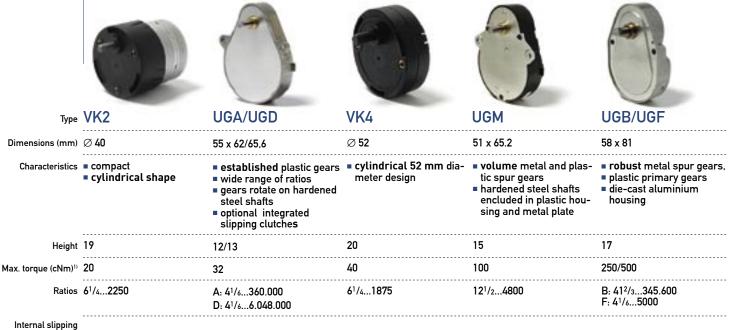
Electronics for Stepper Motors



Туре	SAMOTRONIC101	SAMOTRONIC102	Evaluation Kit 2
Dimensions (mm)	55 x 40	84 x 54	metal case 160 x 100 x 30 (Euro-PCB)
Characteristics	small unipolar driver board	 small bipolar driver board flash controler optional customised software 	 tool for development, test and optimisation of stepper drive systems windows-based software quick parameter setup visualisation of speed and position positioning sequences capability
Driver	■ for unipolar motors	■ for bipolar motors	■ for unipolar and bipolar motors
Supply voltage (V)	10–24 (DC)	standard version 10–24 (DC) enhanced version 10–42 (DC)	3–55 (DC) 24 (AC)
Motor current	constant voltage drive	constant current drive (chopper controlled) adjustable via potentiometer	constant voltage drive and constant current drive (chopper controlled)
Step mode	full/half step	full/half step	full/half/micro step
Clock source	internal or external	internal or external	internal, programmable
Control inputs to	 inhibit internal clock inhibit motor current change direction of rotation 	 inhibit internal clock inhibit motor current change direction of rotation 	 3 digital inputs 4 signal outputs 1 analog input 010 VDC 1 relay contact
Configuration	via DIP-switch, potentiometer	via DIP-switch potentiometer	RS 232, USB

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Gearboxes



Ø 3 x 10

depends on ratio

optional (UGB)

Ø 8 x 12

130

 \emptyset 4 x 10

45

optional

Ø 4 x 10

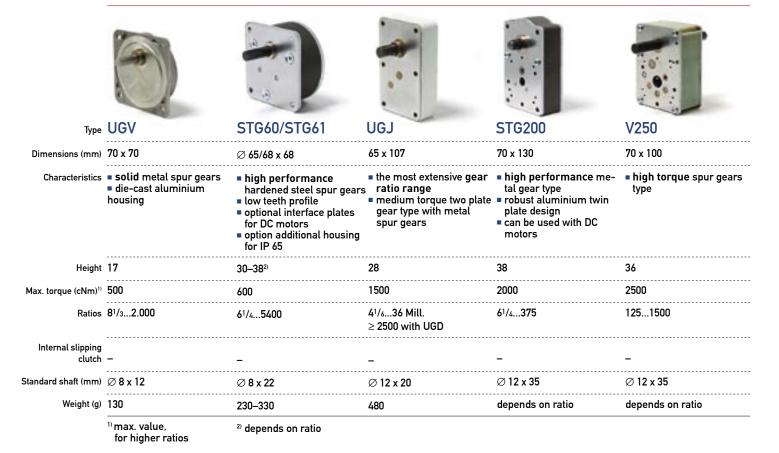
55/35

Gearboxes

Weight (g) depends on ratio

clutch

Standard shaft (mm) Ø 3 x 10



¹⁾ max. value, for higher ratios

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