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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.

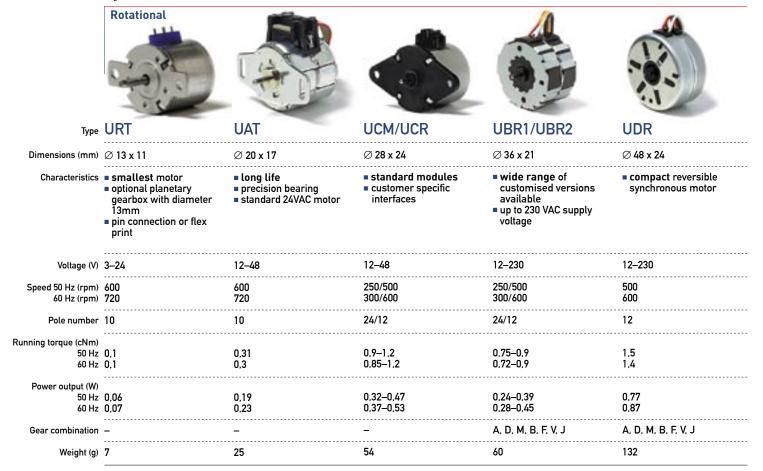
More comfort and safety in very diverse applications

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.

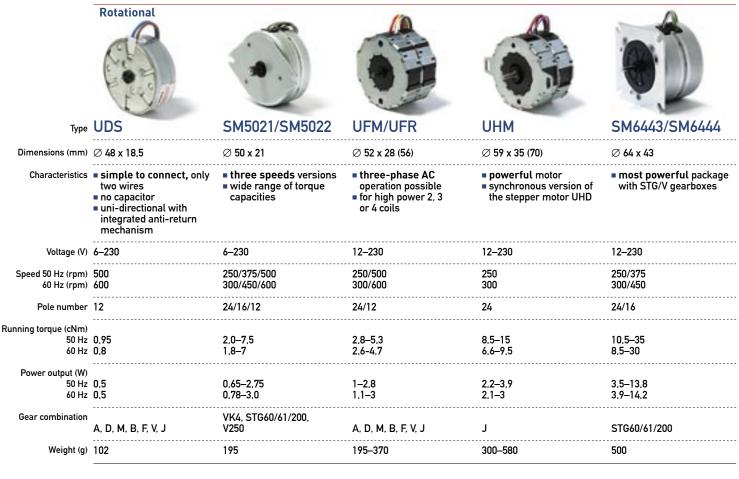
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Motors

Synchronous Motors



Synchronous Motors



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Synchronous Motors









Type SM3532R0	j
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SM5032RG

SM6469RG

Dimensions (mm) Ø 28 x 31

Dimensions (mm) Ø 35 x 32

То

Ø 50 x 32

 \emptyset 64 x 69

Characteristics • torque limiting feature

abrasion-free, integrated low noise magnetic hysteresis clutch

======================================				
Voltage (V)	24–230	24–230	24–230	
Speed 50 Hz (rpm)		375	375	
60 Hz (rpm)	450	450	450	
Pole number	· -	16	16	
Rotational, orque Limited (cNm)				
50 Hz	0.6	2	7	
60 Hz	0,6	2	7	
Power output (W)				
50 Hz	0,25	0,8	2,75	
60 Hz	0,3	0,95	3	
Gear combination	STG60/61/200, V250	STG60/61/200, V250	STG61/200, V250	

Characteristics • new linear motor using modules of the UC range

integrated non-rotational thread spindle

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)*

Weight (g) 67

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

Synchronous Motors











Type UBK

Weight (g) 100

Dimensions (mm) Ø 36 x 36

 \emptyset 36 x 41

190

 \emptyset 36 x 25

SP3520SM

600

Ø 50 x 76

LA5021SM

Ø 50 x 27

standard linear motor

spindle has to be

retained externally

for extended travel the

linear actuator with

3 speeds

20 mm travel

threaded spindle

LA3520SM

spindle type

threaded spindle has to

be retained externally integrated non-rotationalfor extended travel

- linear actuator with
- 3 speeds
- 50 mm travel
- threaded spindle
- spindle type
- threaded spindle has to be retained externally
- integrated non-rotational for extended travel

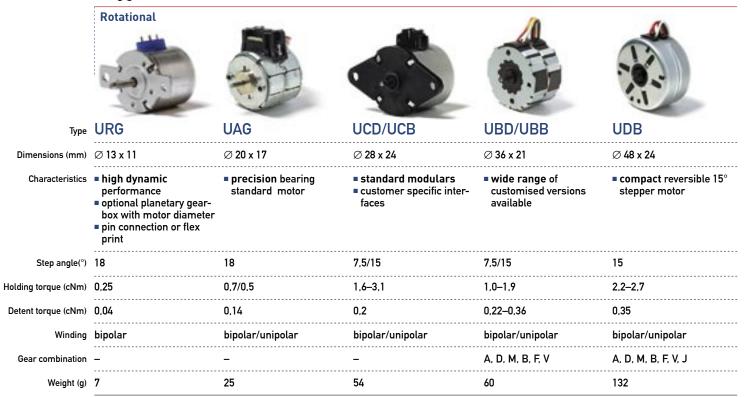
SP5021/5022SM

		•		•	
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

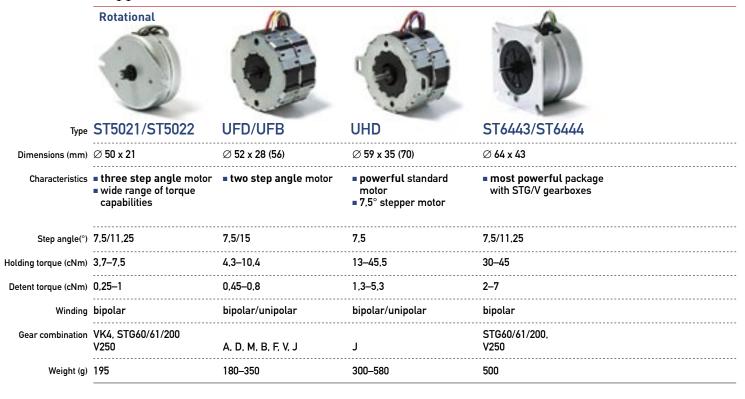
^{*} Depends on winding, frequency and lifetime required. Drive against end stops only permissible after clarification of operating conditions

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Stepper Motor



Stepper Motor



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Stepper Motor



3,125/4,69/6,25

7,5/11,25/15

20

100

3,125/4,69/6,25

7,5/11,25/15

20

100

6,25/9,37/12,5

7,5/11,25/15

45-50

220

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

6,67/8,33

15

35

90

Stepper Motor

at 200 Hz 4,16/8,33

Step angle (°) 7,5/15

Weight (g) 67

Max. Force (N)*



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



Type SAMOTRONIC101	SAMOTRONIC102	Evaluation Kit 2
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iype	SAMOTRONICIO	SAMOTRONICIOZ	Evaluation Att 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







51 x 65.2



imancione	(mm)	α

Characteristics - compact

cylindrical shape

55 x 62/65,6

established plastic gears

wide range of ratios gears rotate on hardened steel shafts optional integrated

meter design

cylindrical 52 mm dia- volume metal and plastic spur gears

hardened steel shafts encluded in plastic housing and metal plate

• robust metal spur gears,

plastic primary gears

58 x 81

die-cast aluminium housing

		slipping clutches			
Height	19	12/13	20	15	17
Max. torque (cNm)1)	20	32	40	100	250/500
Ratios	61/42250	A: 4 ¹ / ₆ 360.000 D: 4 ¹ / ₆ 6.048.000	61/41875		B: 41 ² /3345.600 F: 4 ¹ /65000
Internal slipping clutch	_	optional	_	_	optional (UGB)
Standard shaft (mm)	Ø 3 x 10	Ø 4 x 10	Ø 3 x 10	Ø 4 x 10	Ø 8 x 12
Weight (g)	depends on ratio	55/35	depends on ratio	45	130

VK4

Ø 52

Gearboxes





STG60/STG61







Type UGV

Dimensions (mm) 70×70

housing

Characteristics - solid metal spur gears die-cast aluminium

Ø 65/68 x 68

high performance hardened steel spur gears

low teeth profile optional interface plates

for DC motors option additional housing for IP 65

65 x 107

■ the most extensive gear ratio range

medium torque two plate gear type with metal spur gears

70 x 130 • high performance me-

tal gear type robust aluminium twin plate design

can be used with DC motors

70 x 100 • high torque spur gears

type

30-382) 38 Height 17 28 36 2000 Max. torque (cNm)1) 500 1500 2500 600 Ratios 81/3...2.000 41/6...36 Mill. 61/4...375 125...1500 61/4...5400 \geq 2500 with UGD Internal slipping clutch Standard shaft (mm) \varnothing 8 x 12 Ø 8 x 22 \emptyset 12 x 20 Ø 12 x 35 Ø 12 x 35 Weight (g) 130 230-330 480 depends on ratio depends on ratio

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¹⁾ max. value, for higher ratios

¹⁾ max. value, for higher ratios

²⁾ depends on ratio

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