



SONCEBOZ

The driving force

Products overview



Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Automation
Paint dosing



Medical
Syringe pump



Medical
Peristaltic pump



Telecom
Antenna frequency modulation



Mobile Hydraulics
Tractor

Hybrid stepper motors

The hybrid stepper motor comes into its own where torque at low speed, positioning and accuracy are determining factors.



Step angle : 1.8 °
Size : □ 42 / Ø 57 / Ø 86
Holding torque : 130 to 8900 mNm

standard products *

type	6540		6600			6630		
	1.3"	1.8"	1.5"	2.0"	3.0"	2.4"	3.7"	5.0"
steps/rev.	200	200	200	200	200	200	200	200
holding torque [mNm]	130	265	540	925	1950	2750	6000	8900
nominal power [W]	5	8	7,2	10,5	16,5	18,5	30,5	40
rotor inertia [g.cm ²]	18	35	131	248	425	1390	2660	3950
size [mm]	□ 42	□ 42	ø 57	ø 57	ø 57	ø 86	ø 86	ø 86
length [mm]	33	44,9	38,7	50,8	76,2	62,2	94,2	127,2
weight [kg]	0,2	0,3	0,37	0,57	0,95	1,5	2,8	4,0

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Automation
Display



Truck
Tachograph



Medical
Syringe pump



Telecom
Antenna position's cell



Automation
Wood machine

Permanent magnet stepper motors

Compact in size,
light and
noiseless

this motor is used when
low power is needed.
Easily integrated
in a wide range
of applications.



Step angle : 7,5 ° - 15 °
Size : Ø 25 Ø 35 Ø 42 Ø 57
Holding torque : 11 to 120 mNm

standard products *

type →	6154	6181	6184	6231	6161
steps/rev.	24	48	24	48	48
holding torque [mNm]	11.5	16	15.5	57	120
nominal power [W]	1.5	3.1	3.1	4	8.3
rotor inertia [g.cm ²]	1.3	2.4	2.4	12	30
size [mm]	ø 25.4	ø 35	ø 35	ø 42	ø 57
length [mm]	18.3	19.8	19.8	22.5	25
weight [g]	37	75	75	120	275

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Motorbike
Electronic suspension



Safety
Locking device



Automotive
Lighting



Automotive
Idle air control



Heating
Gas valve

Linear actuators

The **reliability**
of the actuator enable to
use it under
extrem conditions, where
limited space
and **precision**
are required.



Force : 30 to 146 N
Stroke : 8.5 – 80 mm
Size : Ø 25 / Ø 34 / □ 39 / Ø 63

standard products *

	type →	7214	7211	7217	7220	7230
step/rev.		24	48	24	48	48
increment	[mm]	0.042	0.021	0.042	0.0254	0.0254
force	[N]	35	60	35	up to 70	146
nominal power	[W]	3.4	3.4	3.3	5	10
stroke	with articulation	18	18	8.5	22	-
	without articulation	80	80	-	63	76.2
size	[mm]	ø 25.4	ø 25.4	ø 34	□ 39	ø 63
length	[mm]	25.6	25.6	57.2	32.5	38.5
weight	[g]	50	50	70	135	450

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Truck
Tachograph



Automotive
Instrument clusters



Automotive
Instrument clusters



Automotive
Instrument clusters



Automotive
Air conditioning

Slimline stepper motors

Light and silent in operation,
this motor is used for smooth
movement,
in applications where reliability
and compactness
are crucial.



Torque : 1.3 to 25 mNm
Speed : 200 to 1000 degree/s
Weight : 7 to 16 g

standard products *

type →	6405	6415	
gear ratio	1 : 36	1 : 90	1 : 10
dynamic torque [mNm]	1.3 or 1.6 at 200 degree/s	25 at 50 degree/s	3.2 at 400 degree/s
noise level (at 200 degree/s) [dB(A)]	26	32	32
speed at 22°C [degree/sec]	800	200	1500
operating voltage [V]	5	5	5
operating current [mA]	22	30	30
operating temperature [°C]	-40 to +105	-40 to +85	-40 to +85
weight [g]	7	16	14

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Automotive
Variable Turbine Geometry



Automotive
Exhaust Gas Re-circulation
(EGR)



Automotive
Diesel throttle



Automotive
Exhaust Gas Re-circulation
(EGR)



Automotive
Diesel throttle

Torque motors

This motor is
contactless
direct drive and
exhibits high torque
and dynamics.

Travel angle : up to 70 °
Response Time : < 50 ms
Sensor signal : 0.5 to 4.5 V

standard products *

	type →	4136	4276	4146	4156
motor constant	[mNm/√W]	45	60	75	145
torque constant	[mNm/A]	80	95	140	260
resistance	[Ω]	2.6	2.1	3.1	3
peak torque @ 13.5V	[mNm]	360	560	560	1050
length x diameter	[mm]	52 x 54	52 x 54	60 x 54	57 x 67
operating temperature	[°C]	-40 to +150	-40 to +150	-40 to +150	-40 to +150
weight	[g]	320	330	470	700

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



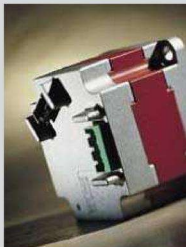
Heating
Blower



Textile
Loom



Automation
Elevator door



Medical
Peristaltic pump



Automation
Marking and engraving

Brushless-DC motors (BLDC)

Dynamic, speed

and accuracy

are the keywords
of BLDC technology.

Used when positioning
or speed regulation
are critical.

Stall torque : 210 to 520 mNm
Power : 80 to 140 W
Speed : 6500 to 12000 rpm

standard products *

	type →	5455		
		1.5"	2.0"	3.0"
motor constant	[mNm/√W]	46,5	66	92
continuous stall torque	[mNm]	210	335	520
continuous output power	[W]	80	110	140
rotor inertia	[g.cm ²]	126	204	371
size	[mm]	∅ 57		
length	[mm]	38.8	50.8	76.3
weight	[g]	435	630	1055

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Mobile Hydraulics
Tractor



Telecom
Frequency regulation filter



Medical
Peristaltic pump



Textile
Yarn tension



Automotive
LPG regulation

Smart actuators

The smart actuator is a complete drive system with electronic, able to detect position and / or can be interfaced via a communication BUS.

standard products *

linear smart actuator		8623
power supply	[V]	9 to 16
interface PWM	[Hz]	140
stroke	[mm]	8.5
resolution	[mm]	0.042
force	[N]	15
speed	[mm/s]	8
dimensions	[mm]	∅ 44 x 70
weight	[g]	157

rotative smart actuators		8656	8660
power supply	[V]	24	24
interface pulse	[KHz]	0 to 200	0 to 200
torque	[mNm]	170 to 280	325 to 950
input power	[W]	31 to 38	35 to 65
micro step/revolution	[μ step]	400 - 51200	
dimension	[mm]	∅ 42 x 54 to 66	∅ 57 x 56 to 93
weight	[g]	250 to 367	392 to 982

* Data sheets available

Specific Solutions

DEVELOPED FROM A STANDARD PRODUCT



Driver for Textile application



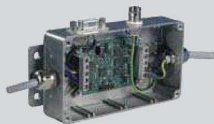
Brushless DC Driver 9522



Stepper motor Driver 9103



Driver for tractor application



Torque motor Driver 9402

Electronic drivers

Flexible,
compact

and easy to use,

the different electronic

control cards cover a

broad spectrum

of currents, voltages

and speeds.



standard products *

torque motor driver		9402
operating voltage	[V]	9 to 16
peak current	[A]	6
user interface		PWM signal + RS-232
position control		PID regulator
dimension	[mm]	115 x 65 x 30

BLDC motor driver		9522
operating current	[A]	10
peak current	[A]	20
operating voltage	[V]	18 to 48
dimension	[mm]	100 x 102 x 32

stepper motor driver		9103
current nominal / phase	[A]	0.2 to 3.75
current / phase with boost	[A]	4
programmable step angle		8 position from 1/1 to 1/128
operating voltage	[V]	12 to 40
dimension	[mm]	100 x 102 x 32

* Data sheets available