

MOTORS AND GEARMOTORS PANORAMA



- › Brush
- › Brushless
- › Stepper
- › Synchronous

ABOUT CROUZET MOTORS

All around the world for more than 50 years, Crouzet Motors has been providing an innovative engineering expertise, high quality service and a complete offer of standard and customized direct drives, geared motors and motion control solutions for all applications where performance is a key issue.

Crouzet Motors is a brand of InnoVista Sensors™.

www.crouzet-motors.com

With a long-term commitment to technological excellence, the engineering teams have mastered the following core technologies and know-how:

- › Electromagnetism
- › Thermal dynamics
- › Electromechanical systems
- › Electronic drives

Covering the power range from 1 to 1000 W peak (1/100 to 1HP+) and available with spur, worm or planetary gearboxes, plus adapted controllers, our offer is specifically designed for access control systems, pumps and valves, railway applications, electrical equipment, medical equipment and the industry.

INNOVISTA SENSORS

InnoVista Sensors™: your trusted partner of choice to face industrial challenges of today and tomorrow.

InnoVista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through its brands, Crouzet Aerospace, Crouzet Automation, Crouzet Control, Crouzet Motors, Crouzet Switches and Systron Donner Inertial, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial market and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

www.innovistasensors.com

Designs & Manufactures



Sensors



Controls



Actuators

For



Aerospace
& Defense



Transportation



Industry

With commercial brands



ADAPTATION WHEEL

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet Motors has structured all company processes around the different types of product: standard products, adapted products or products specially developed for a customer. Introducing the adaptation wheel...

SPECIAL PRODUCTS

When the adaptation is no longer suitable, we focus our design, manufacturing and qualification expertise on developing a new product designed to meet your requirements.

4

STANDARD PRODUCTS

We offer a full range of motors and geared motors, including AC synchronous, brush and brushless DC and stepper motors. Our products are available immediately so you can quickly implement your projects.

1

ADAPTED PRODUCTS

All projects are different, so we adapt the performance and functionality of each product to your requirements, ensuring the success of your most complex applications.

3

PRODUCTS WITH ADDED VALUE

All our standard products can be complemented by factory-installed extras, accessories or programs including connectors, special contacts, software etc., to assist integration into your equipment, simplify your logistics and maximize the reliability of your installations.

2

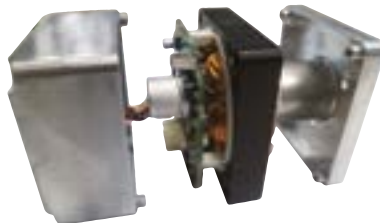


ACTUAL EXAMPLES



Releasable linear actuator for gas boilers equipped with a stepper motor.

- › Gas flow adjustment
- › Automatic closing in the event of a power failure
- › Gas-tightness measured on the production line



Gear pump equipped with a brushless motor.

- › Rotor with leak tight seal
- › Application-specific electronics
- › Shortened motor



Adjustment of steering column equipped with a brush motor.

- › Silent-running gearbox
- › Worm gear linear motion
- › Resistive encoder
- › EMC filter
- › Motor characteristics as per customer specifications

MOTORS, GEARBOXES AND CONTROL ELECTRONICS

MOTORS										
	Industrial Brush			DCmind Brush		DCmind Brushless		Stepper	Synchronous	
Series	82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140 180 280	80350 60 70	82910 20 30 40	82510 20 30 40	82340 82330
Nominal power (W)	0,9 / 3	9 → 33	30 → 95	15 → 35	55 / 104	66 → 170	260 → 620	0,5 → 5	0,3 → 3	0,2 / 0,4
Voltage	12 / 24 V _{DC}	12 → 48 V _{DC}	12 → 48 V _{DC}	12 → 48 V _{DC}	12 → 120 V _{DC}	9 → 72 V _{DC}	12 → 72 V _{DC}	3 → 64 V _{DC}	24 → 240 V _{AC} 50 → 60 Hz	24 → 240 V _{AC} 50 → 60 Hz
Front side (mm)	Ø 32	Ø 42	Ø 63	Ø 42	Ø 63	57x57	75x75	Ø 35 / 51 Ø 57 / 65	Ø 35 / 51 Ø 57 / 65	Ø 47
Nominal speed (rpm)	3700	3000	3000	3000	3000	3000	3000	0 - 1500	250 - 600	600 / 720
Nominal torque (mNm)	2,2 / 7,7	41 → 100	170 / 270	50 → 110	180 / 290	125 → 550	830 → 2100	15 → 300	10 → 110	2,5 → 8
Noise level (dBA)	55	55	55	35	35	45	50	35	30	45
Service life (hrs)	2000	3000	5000	4000	5000	20000	20000	20000	20000	10 M on / off
Certification	UL US CE RoHS			UL US CE RoHS		CE RoHS		UL US CE RoHS		
Gearboxes										
Connection										
Standard										
Options										

- EMC filter
- Interchangeable brushes
- Ball bearing
- Worm
- Planetary
- Parallel shaft
- Silent
- Connector
- Cable
- Lead
- Terminal

ACCESSORIES & OPTIONS

All our motor ranges can be accompanied by factory-mounted encoders and mechanical brakes:

- › Brakes from 0.25 Nm to 1.5 Nm
- › Encoders from 1 to 4000 points/rev
- › Special connectors
- › Special output shaft
- › IP65 or IP67



ADAPTED PRODUCTS

To meet your expectations, Crouzet Motors offers you custom products matching your requirements, in the following areas:

- › Control electronics
- › Motor characteristics
- › Gearboxes
- › IP69K
- › EtherCAT



CONTROL ELECTRONICS						
	Integrated			External		
Series	TNi21	SMi21	SMi22	Motomate	BDE 30	BDE 40

Characteristics						
Speed-torque	●	●	●	●	●	●
Position (c/t)		4096	4096	12		
Programming						
Communication bus		CANopen Optional	CANopen Standard			
Voltage	9 → 75 V _{DC}	9 → 75 V _{DC}	9 → 75 V _{DC}	18 → 36 V _{DC}	18 → 36 V _{DC}	10 → 36 V _{DC}
Maximum current (A)	17	17	75	6	10	14
Adaptations	Programs: Custom firmware as per customer specifications					

- Choice of programs
- To be programmed
- With regenerative energy absorber

GEARBOXES		
Parallel shafts	Planetary	Worm
10 models	7 models	2 models

Characteristics			
Torque (Nm)	0,5 → 6	4 → 120	2 → 20
Power (W)	1 → 50	10 → 600	10 → 300
Service life (Mt*)	1 → 10	50	50
Ratios	4 → 2500	4 → 308	5 → 100
Options	Shafts: stainless steel, pulleys, pinions, special bearings etc.		

* Million revolutions

AMERICAS

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