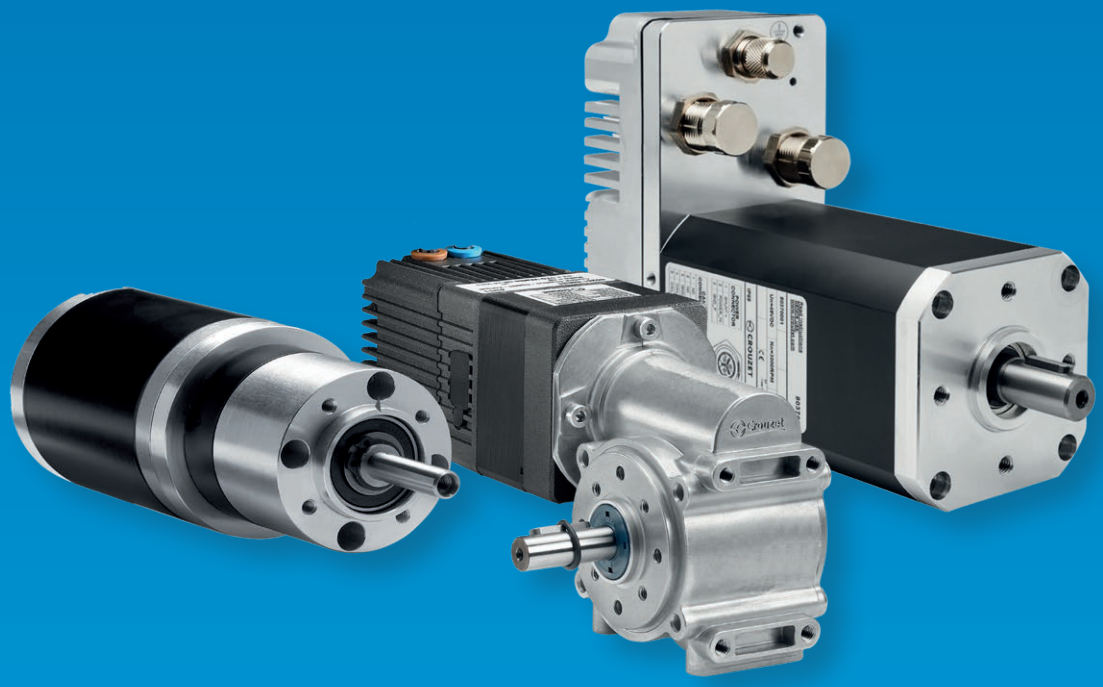
CROUZET

MOTION

OVERVIEW

MOTORS & GEARMOTORS



BRUSH

BRUSHLESS

SYNCHRONOUS

STEPPER

motors.crouzet.com

ABOUT CROUZET

The Motion product line provides innovative engineering expertise, high quality service and a complete offer of standard direct drives, geared motors and motion control solutions for applications where performance is key. Our ability to customize solutions as per virtually any customers' request makes us the right partner to tackle the most demanding projects.

Crouzet is a brand of InnoVista Sensors™.

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

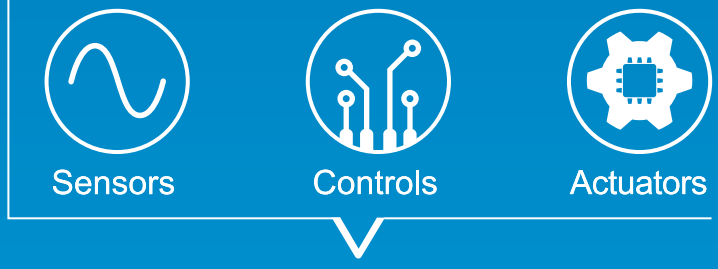
Through its brand Crouzet, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial markets and segments.

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

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

www.innovistasensors.com

Designs & Manufactures



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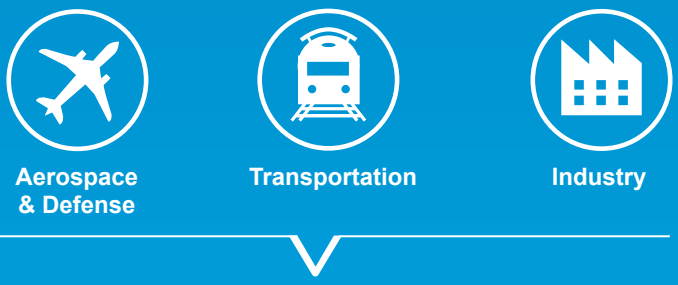


MOTORS, CONTROL ELECTRONICS AND GEARBOXES

MOTORS

CHARACTERISTICS / Series	Industrial Brush			DCmind Brush		DCmind Brushless		Synchronous		Stepper
										
	82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140 180 280	80350 60 70	82510 20 30 40	82340 82330	82910 20 30 40
Nominal power (W)	0.9 / 3	9 → 33	30 → 95	15 → 35	55 / 104	66 → 170	310 → 600	0.3 → 3	0.2 / 0.4	0.5 → 5
Voltage	12 / 24 V⎓	12 → 48 V⎓	12 → 48 V⎓	12 → 48 V⎓	12 → 120 V⎓	9 → 75 V⎓	9 → 75 V⎓	24 → 240 V∿ 50 → 60 Hz	24 → 240 V∿ 50 → 60 Hz	3 → 64 V⎓
Front side (mm)	Ø 32	Ø 42	Ø 63	Ø 42	Ø 63	SQ57	SQ75	Ø 35 / 51 Ø 57 / 65	Ø 47	Ø 35 / 51 Ø 57 / 65
Nominal speed (rpm)	3700	3000	3000	3000	3000	3000	3000	250 - 600	600 / 720	0 - 1500
Nominal torque (mNm)	2.2 / 7.7	41 → 100	170 / 270	50 → 110	180 / 290	125 → 550	830 → 1900	10 → 110	2.5 → 8	15 → 300
Noise level (dBA)	55	55	55	35	35	45	50	30	45	35
Service life (hrs)	2000	3000	5000	4000	5000	20000	20000	20000	10 M on / off	20000
Certification	cULus CE RoHS			cULus CE RoHS		CE RoHS		cULus CE RoHS		CE RoHS
Gearboxes	●	●	●	●	●	●	●	●		●
Connection	●	●	●	●		●	●	●		●
Standard		●		●	●	●	●			
Options	●		●							
IP	IP20			IP65*		IP54	IP65*, IP67* IP69*	IP40	IP30	IP40

** Except front face & shaft*

CONTROL ELECTRONICS

CHARACTERISTICS / Series	Integrated			External	
					
	TNi21	SMi21	SMi22	BDE 30	BDE 40
Compatible models	SQ57		SQ75	SQ57	
Speed-torque	●	●	●	●	●
Position (c/t)		4096	4096		
Programming		DCmind Soft & DCmind Soft + CANopen	DCmind Soft + CANopen	PWM or 0 → 10 VDC	
Communication bus		CANopen Optional	CANopen Standard		
Voltage	10 → 36 V⎓	9 → 75 V⎓	9 → 75 V⎓	18 → 36 V⎓	10 → 36 V⎓
Maximum current (A)	17	17	75	10	14
Adaptations	Programs: Custom firmware as per customer specifications				

GEARBOXES

CHARACTERISTICS	Parallel shafts	Planetary	Worm
			
	10 models	7 models	2 models
Torque (Nm)	0.5 → 6	0.8 → 120	10 → 20
Power (W)	0.2 → 50	8 → 600	25 → 600
Service life (Mt*)	1 → 10	50	50
Ratios	4 → 4500	4 → 308	5 → 100
Options	Shafts: stainless steel, pulleys, pinions, special bearings etc.		

** Million revolutions*

LEGENDE

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

ACCESSORIES & OPTIONS

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

- Brakes from 0.25 N.m to 4.5 N.m
- Encoders from 1 to 3600 points/rev
- Special connectors
- Special output shaft





ADAPTED PRODUCTS

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

- Control electronics
- Motor characteristics
- Gearboxes
- IP65, IP67, IP69
- EtherCAT





ADAPTATION WHEEL

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet 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...

1 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.

2 PRODUCTS WITH ADDED VALUE

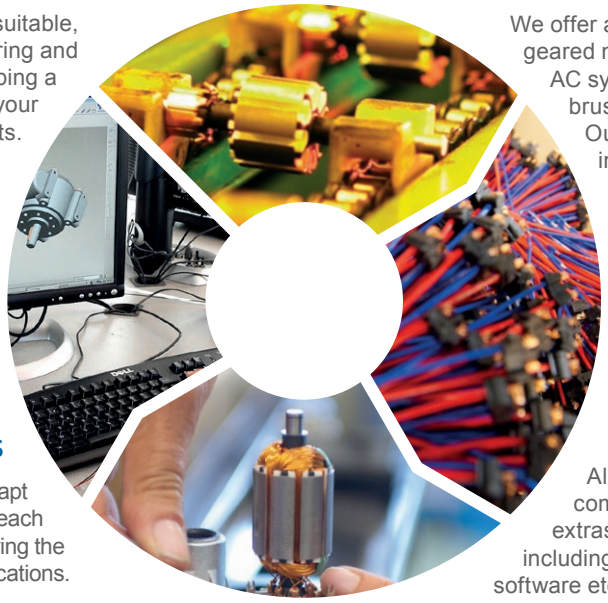
All our standard products can be complemented by factory-installed extras, accessories or programs including connectors, special contacts, software etc., to assist integration into your equipment, simplify your logistics and maximize the reliability of your installations.

3 ADAPTED PRODUCTS

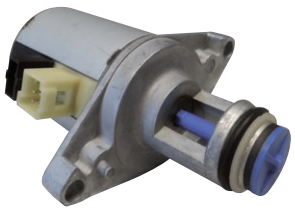
All projects are different, so we adapt the performance and functionality of each product to your requirements, ensuring the success of your most complex applications.

4 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.

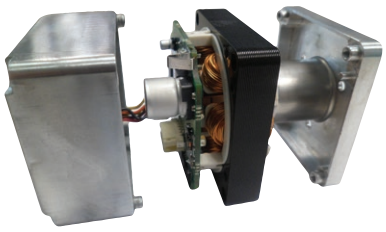


ACTUAL EXAMPLES



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



Brushless motor with integrated electronics for Access Control in public transportation applications:

- Autonomous torque, speed and position control
- Specific firmware with integrated emergency mode
- Reinforced gearbox
- CANopen communication
- High resistance against vandalism

CROUZET

MOTION

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