

# 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.

## 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.

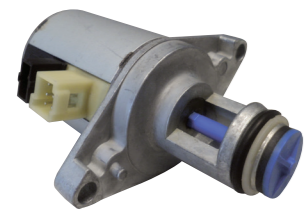
## ADAPTED PRODUCTS

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.

## PRODUCTS WITH ADDED VALUE

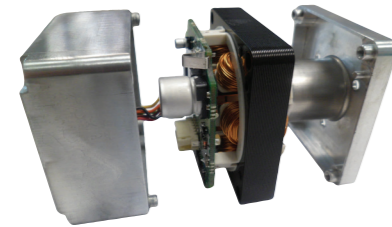
All our standard products can be complemented by factory-installed auxiliaries, accessories or programs including connectors, special contacts, software etc., to assist integration into your equipment, simplify your logistics and maximize the reliability of your installations.

## ACTUAL EXAMPLES:



Disengageable 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 leaktight bell
- › 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

## AMERICAS

### CANADA

InnoVista Sensors™  
1461 Lawrence Drive  
Thousand Oaks, CA 91320  
USA  
Tel.: +1 (800) 677 5311  
Fax: +1 (619) 923 2088  
dcmind@crouzet.com

### MEXICO

InnoVista Sensors™  
Calzada Zavaleta 2505-C  
Santa Cruz Buenavista  
Puebla, 72150 - MEXICO  
Tel.: +52 (222) 409 7000  
mexico@crouzet.com

### USA

InnoVista Sensors™  
1461 Lawrence Drive  
Thousand Oaks, CA 91320  
USA  
Tel.: +1 (800) 677 5311  
Fax: +1 (619) 923 2088  
dcmind@crouzet.com

### COUNTRIES NOT LISTED

InnoVista Sensors™  
1461 Lawrence Drive  
Thousand Oaks, CA 91320  
USA  
Tel.: +1 (800) 677 5311  
Fax: +1 (619) 923 2088  
dcmind@crouzet.com

## EUROPE / MIDDLE EAST / AFRICA

### BELGIUM

InnoVista Sensors™  
Dieweg 3 B  
1180 Uccle - BELGIQUE  
Tel.: +32 (0) 2 462 07 30  
Fax: +32 (0) 2 461 00 23  
klantenservice@crouzet.com

### FRANCE

InnoVista Sensors™  
2 rue du Docteur Henri Abel,  
CS 60059  
26902 Valence Cedex 9  
FRANCE  
Tel.: +33 (0) 475 802 101  
Fax: +33 (0) 475 828 900  
relacionclient@crouzet.com

### GERMANY / AUSTRIA

InnoVista Sensors™  
Otto-Hahn-Str. 3  
40721 Hilden  
DEUTSCHLAND  
Tel.: +49 (0) 2103/980-0  
Fax: +49 (0) 2103/980-222  
kundenservice@crouzet.com

### ITALY

InnoVista Sensors™  
Via Viganò De Vizzi, 93/95  
20092 Cinisello Balsamo (Mi)  
ITALIA  
Tel.: +39 (02) 66 599 211  
Fax: +39 (02) 66 599 218  
assistenzaclienti@crouzet.com

### SPAIN / PORTUGAL

InnoVista Sensors™  
C/Leó, 11-13 2ª4ª  
08911 Badalona - Barcelona  
ESPAÑA  
Tel.: +34 (93) 484 39 70  
Fax: +34 (93) 484 39 73  
atencionalcliente@crouzet.com

### SWITZERLAND

InnoVista Sensors™  
Gewerbepark - Postfach 56  
5506 Mägenwil - SCHWEIZ  
Tel.: +49 (0) 2103/980-0  
Fax: +49 (0) 2103/980-222  
kundenservice@crouzet.com

### THE NETHERLANDS

InnoVista Sensors™  
Industrieweg 17  
2382 NR Zoeterwoude  
NEDERLAND  
Tel.: +31 (0) 71-581 20 30  
Fax: +31 (0) 71-541 35 74  
klantenservice@crouzet.com

### COUNTRIES NOT LISTED

InnoVista Sensors™  
2 rue du Docteur Henri Abel,  
CS 60059  
26902 Valence Cedex 9  
FRANCE  
Tel.: +33 (0) 475 802 102  
Fax: +33 (0) 475 828 900  
customer.relation@crouzet.com

## ASIA / PACIFIC

### CHINA

InnoVista Sensors™  
11<sup>th</sup> floor, Chang Feng  
International Tower,  
89 Yunling Road (East),  
Putuo District,  
Shanghai 200 062 - CHINA  
Tel.: +86 (21) 8025 7166  
Fax: +86 (21) 6107 1771  
china@crouzet.com

### INDIA

InnoVista Sensors™  
4<sup>th</sup> floor, Trident Towers, #23 100  
Feet Ashoka Pillar Road,  
2nd Block, Jaynagar  
Bangalore 560 011 - INDIA  
Tel.: +91 (80) 4113 2204/05  
Fax: +91 (80) 4113 2206  
india@crouzet.com

### SOUTH KOREA

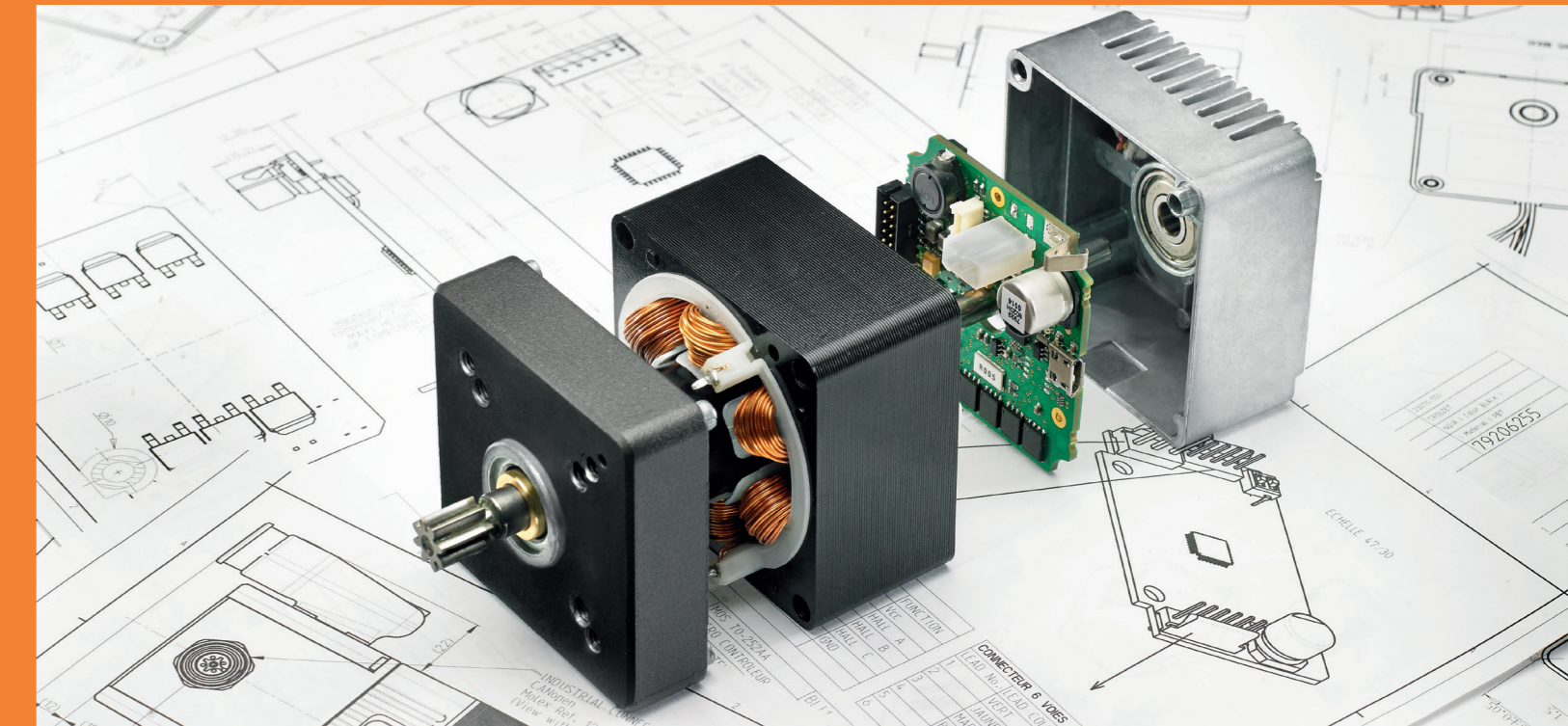
InnoVista Sensors™  
14F, Kbiz DMC Tower,  
189, Seongam-Ro, Mapo-Gu,  
Seoul 121-904  
SOUTH KOREA  
Tel.: +82 (2) 2629 8312  
Fax: +82 (2) 2630 9800  
korea@crouzet.com

### EAST ASIA PACIFIC

InnoVista Sensors™  
10/F, Wharf T&T Centre, Harbour  
City, 7 Canton Road, Tsim Sha Tsui,  
Kowloon, HONG KONG  
Tel.: +86 (21) 8025 7177  
Fax: +86 (21) 6107 1771  
eap@crouzet.com

WWW.CROUZET-MOTORS.COM

# MOTORS AND GEARMOTORS PANORAMA



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

WWW.CROUZET-MOTORS.COM



WWW.INNOVISTASENSORS.COM



### Warning:

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

 **CROUZET**  
MOTORS

A BRAND OF  
**INNOVISTA**  
SENSORS

 **CROUZET**  
MOTORS

A BRAND OF  
**INNOVISTA**  
SENSORS

# ABOUT CROUZET MOTORS

All around the world for more than 50 years, Crouzet Motors has been providing engineering expertise, high quality support and a complete offer of standard and customized direct drive and geared motors for all applications where performance is the key issue

Crouzet Motors 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 1 to 400 watts (1/100 to 1/2 hp+) and available with spur, worm and planetary gearboxes plus adapted controllers, the Crouzet Motors' product offering is specifically designed for Medical Equipment, Railways, Aeronautics, Industry, Pumps and Valves.



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



CROUZET AEROSPACE



CROUZET AUTOMATION



CROUZET CONTROL



CROUZET MOTORS



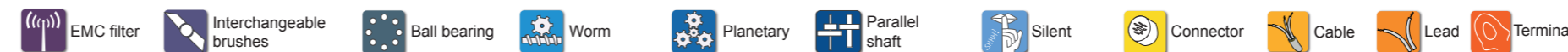
CROUZET SWITCHES



SYSTRON DONNER INERTIAL

## MOTORS, GEARBOXES AND CONTROL ELECTRONICS

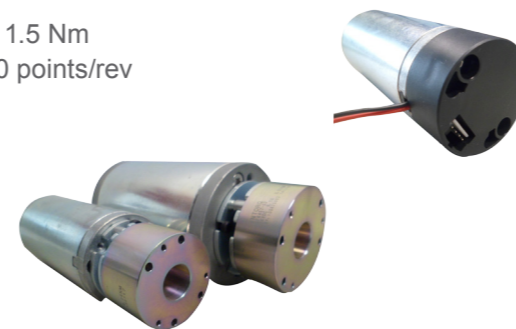
	MOTORS										
	Industrial Brush			DCmind Brush		DCmind Brushless			Stepper	Synchronous	
Series	82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140	80180	80280	82910 20 30 40	82510 20 30 40	82340 82330
<b>Characteristics</b>											
Nominal power (W)	0.9/3	9 → 33	30 → 95	15 → 35	55/104	66	110	170	0.5 → 5	0.3 → 3	0.2/0.4
Voltage	12/24 V~	12 → 48 V~	12 → 48 V~	12 → 110 V~	12 → 110 V~	9 → 56 V~	9 → 56 V~	9 → 56 V~	3 → 64 V~	24 → 240 V~ 50 → 60 Hz	24 → 240 V~ 50 → 60 Hz
Diameter (mm)	32	42	63	42	63	57	57	57	35/51 57/65	35/51 57/65	47
Nominal speed (rpm)	3700	3000	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	225	550	15 → 300	10 → 110	2.5 → 8
Noise level (dbA)	55	55	55	35	35	45	45	45	35	30	45
Service life (hrs)	2000	3000	5000	4000	5000	20,000	20,000	20,000	20,000	20,000	10 M on/off
Certification	C RU US CE RoHS			C RU US CE RoHS		CE RoHS			C RU US CE RoHS		
Gearboxes											
Connection											
Standard											
Options											



## 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, etc.



## CONTROL ELECTRONICS

### Integrated External



Series	TNi21	SMI21	Motomate	BDE 30	BDE 40
--------	-------	-------	----------	--------	--------

Characteristics					
Speed-torque					
Position (c/t)		4096	12		
Programming					
Voltage (V)	10 → 36	9 → 56	18 → 36	18 → 36	10 → 36
Maximum current (A)	17	17	6	10	14
Options	CANopen				
Adaptations	Programs: Custom firmware as per customer specifications				



## GEARBOXES

### Parallel shafts Planetary Worm



10 models	6 models	2 models
-----------	----------	----------

Characteristics			
Torque (Nm)	0.5 → 6	4 → 120	2 → 20
Power (W)	1 → 50	10 → 300	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