



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

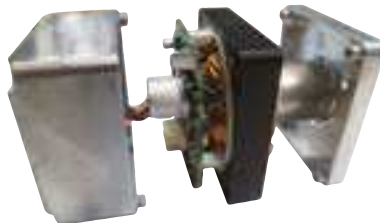


ACTUAL EXAMPLES



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

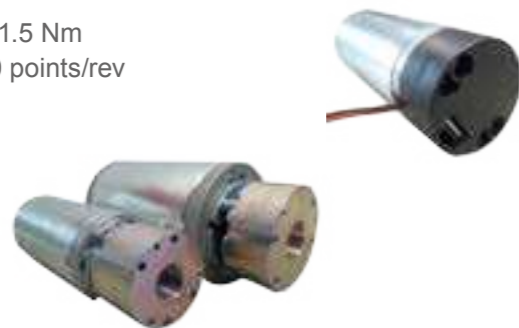
| MOTORS | | | | | | | | | | | |
|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|------------------------|-------------------------|------------------------|--|--|--|
| | Industrial Brush | | | 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 | | 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 |
| | | | | | |
| | | | | | |

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

CANADA

InnoVista Sensors™
Tel.: +1 (800) 677 5311
Fax: +1 (619) 923 2088
americas.custserv@crouzet.com

MEXICO

InnoVista Sensors™
Tel.: +1 (800) 677 5311
Fax: +1 (800) 677 3865
americas.custserv@crouzet.com

USA

InnoVista Sensors™
Tel.: +1 (800) 677 5311
Fax: +1 (619) 923 2088
americas.custserv@crouzet.com

COUNTRIES NOT LISTED

InnoVista Sensors™
Tel.: +1 (800) 677 5311
Fax: +1 (619) 923 2088
americas.custserv@crouzet.com

EUROPE / MIDDLE EAST / AFRICA

BELGIUM

InnoVista Sensors™
Tel.: +32 (0) 2 462 07 30
Fax: +32 (0) 2 461 00 23
klantenservice@crouzet.com

FRANCE

InnoVista Sensors™
Tel.: +33 (0) 475 802 101
Fax: +33 (0) 475 828 900
relationclient@crouzet.com

GERMANY / AUSTRIA / SWITZERLAND

InnoVista Sensors™
Tel.: +49 (0) 2103/980-0
Fax: +49 (0) 2103/980-222
kundenservice@crouzet.com

ITALY

InnoVista Sensors™
Tel.: +39 (02) 66 599 211
Fax: +39 (02) 66 599 218
assistenzaclienti@crouzet.com

SPAIN / PORTUGAL

InnoVista Sensors™
Tel.: +34 (93) 484 39 70
Fax: +34 (93) 484 39 73
atencionalcliente@crouzet.com

THE NETHERLANDS

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

UNITED KINGDOM

InnoVista Sensors™
Tel.: +44 (0) 1202 416 172
Fax: +44 (0) 1202 416 198
customer.relation@crouzet.com

COUNTRIES NOT LISTED

InnoVista Sensors™
Tel.: +33 (0) 475 802 102
Fax: +33 (0) 475 828 900
customer.relation@crouzet.com

ASIA / PACIFIC

CHINA

InnoVista Sensors™
Tel.: +86 (21) 8025 7166
Fax: +86 (21) 6107 1771
china@crouzet.com

INDIA

InnoVista Sensors™
Tel.: +91 (80) 4113 2204/05
Fax: +91 (80) 4113 2206
india@crouzet.com

SOUTH KOREA

InnoVista Sensors™
Tel.: +82 (2) 2679 8312
Fax: +82 (2) 2679 9888
korea@crouzet.com

EAST ASIA PACIFIC

InnoVista Sensors™
Tel.: +86 (21) 8025 7177
Fax: +86 (21) 6107 1771
eap@crouzet.com

WWW.CROUZET-MOTORS.COM



WWW.INNOVISTASENSORS.COM



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