



NEW



**Helical inline
Bevel helical
Parallel shaft helical**

rossi.com



A smarter way to drive

iFIT, the **i**nnovative, **i**nternational, **i**nterchangeable gearmotors designed for a world in motion. Equipped with compact IE3 premium efficiency electric motors (IEC or NEMA), available with **i**IoT based smart **i**nverter. A compact design solution, fully **i**nterchangeable with a superior quality to **Fit** all **i**ndustrial applications **i**mproving companies' productivity. **iFit** gearmotor is directly **i**ntegrated with your machine and, unlike most driving solutions with comparable

integrations, is fitting it with a real-time replacement without engineering costs.

A wide range of design options to **Fit** a smarter way to move your machines, more reliable than expected. Manufactured in our ISO-certified factories, the **iFIT** is the result of Rossi proven expertise in designing, reliable working processes and new state-of-the-art technologies.

Features

Benefits

Fully interchangeable with market standards	→	"Plug & Play" with no re-engineering costs
Made in Europe	→	Superior quality, minimum maintenance
Full range with robust cast iron housing	→	High performance and reliability: minimum deformation, no gearing misalignment, no vibration, and low noise level
Gear precision as per DIN/ISO 6 or better	→	Energy saving, low noise level, reduced backlash
New IE2, IE3 compact electric motors	→	Premium efficiency
High quality sealing solutions	→	Long lifetime, no oil leakage
Round shaped, smooth housing surface	→	Wash down capability
Higher torque	→	Up to 12% higher than competition

Additional benefits



- High Customer Value
- Short Lead Times for standard products
- 3 Years Guarantee
(as per our Guarantee terms)

Helical inline, Bevel helical & Parallel shaft helical

- Several mounting positions (B3, B6, ...)
- Constant and reduced backlash
- Torque up to 12% higher than competition
- Exactly same ratios as market standard
- Dedicated solutions for high radial loads
- Hardened and ground motor shaft lip seal raceway
- Metric or inch shafts

Product family	<i>iC</i>	<i>iO</i>	<i>iP</i>
Size range	27... ÷ 97...	373 ÷ 973	27... ÷ 97...
M_{N2} [N m]	145 ÷ 3 350	224 ÷ 4 870	145 ÷ 4 870
Fr_2 [N]	4 230 ÷ 19 800	5 640 ÷ 40 000	4 500 ÷ 29 900
i	3,4 ÷ 290	5,4 ÷ 197	3,8 ÷ 282
$P_{1\text{ mot}}$ (4 poles) [kW]	3 ÷ 30	3 ÷ 30	3 ÷ 30



Several output flange dimensions as market standard



OIL SEALING AND PLUGS

- Gearboxes supplied with oil
- Advanced synthetic oil PAG (polyalkylene glycol) - Long oil life, maintenance and energy saving
- Oil drain and breather plugs
- Breather plugs with protection strip ready to use
- Oil level plugs



CERTIFICATIONS

- Products complying with ATEX
- Adapters complying with ATEX



PROTECTION/PAINTING

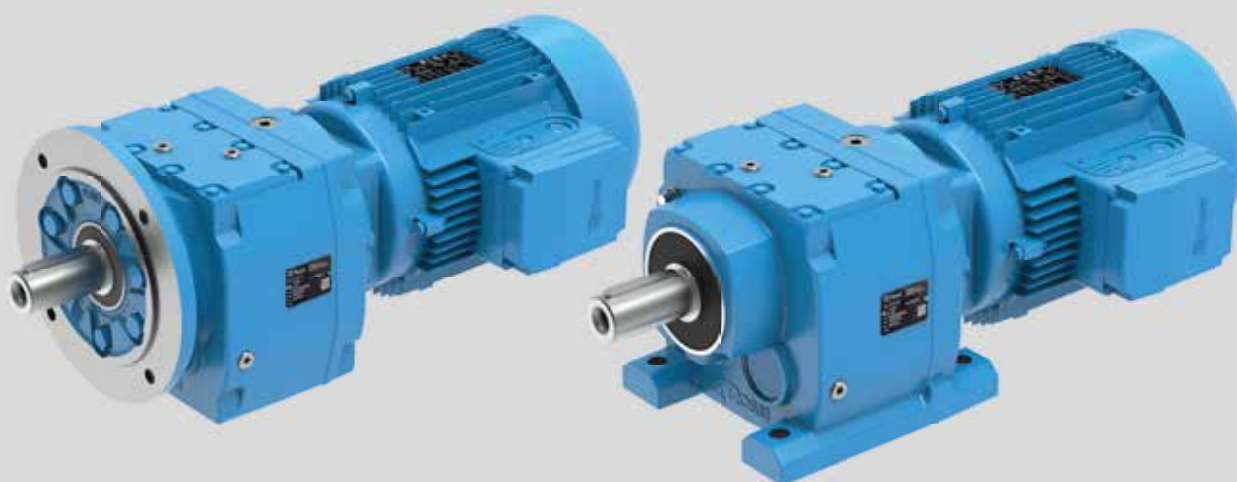
- RAL 5010 C3 paint as standard (hard and smooth clinging painting)
- IP 55 as standard



OPTIONS

- Universal mounting positions supplied with oil
- Strengthened low speed shaft
- Food grade oil
- IP 66 for motors
- Special paints suitable for aggressive environments on request
- Condition monitoring (coming soon)

Helical inline



Frame size	M_{N2} [N m]	F_{r2} [N]	Ratio i	Max applicable power (4 poles) [kW]
iC 272	140	4 230	3,4 ÷ 135	3
iC 273	145			
iC 372	205	4 940	3,4 ÷ 135	3
iC 373	224			
iC 472	335	5 420	3,8 ÷ 177	5,5
iC 473	335			
iC 572	470	7 100	4,4 ÷ 187	7,5
iC 573	500			
iC 672	655	6 980	4,3 ÷ 200	7,5
iC 673	670			
iC 772	830	9 900	5,3 ÷ 195	11
iC 773	925			
iC 872	1 690	16 900	5,3 ÷ 247	22
iC 873	1 750			
iC 972	2 930	19 800	4,5 ÷ 290	30
iC 973	3 350			

Bevel helical



Frame size	M_{N2} [N m]	F_{r2} [N]	Ratio i	Max applicable power (4 poles) [kW]
iO 373	224	5 640	5,4 ÷ 106	3
iO 473	450	5 920	5,8 ÷ 132	3
iO 573	670	7 630	6,6 ÷ 145	4
iO 673	925	12 300	7,3 ÷ 145	5,5
iO 773	1 750	16 100	7,2 ÷ 192	11
iO 873	3 000	27 300	7,2 ÷ 197	22
iO 973	4 870	40 000	8,7 ÷ 176	30

Parallel shaft helical



Frame size	M_{N2} [N m]	F_{r2} [N]	Ratio i	Max applicable power (4 poles) [kW]
iP 272	145	4500	4,2 ÷ 141	1,5
iP 273	145			
iP 372	224	4290	3,7 ÷ 128	3
iP 373	224			
iP 472	450	5920	4,9 ÷ 191	3
iP 473	450			
iP 572	615	9200	5,2 ÷ 200	5,5
iP 573	650			
iP 672	825	10300	3,9 ÷ 228	5,5
iP 673	900			
iP 772	1700	15700	4,3 ÷ 282	11
iP 773	1700			
iP 872	3350	19800	4,1 ÷ 271	22
iP 873	3350			
iP 972	4620	29900	4,6 ÷ 277	30
iP 973	4870			

iFit
Gearmotors

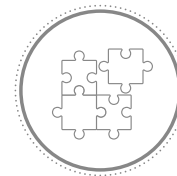
+

dDrive
by Rossi




Electric motors

- Standard and brake motors
- IE3 class of the international efficiency standard (IEC 60034-30) $\geq 0,75$ kW
- IE2 class of the international efficiency standard (IEC 60034-30) $\leq 0,55$ kW
- Multivoltage, 2, 4 and 6 poles
- Aluminium frames
- Cable entry possible from two sides
- Motor insulation class F, rise temperature B



OPTIONALS

- Motor insulation class H
- Thermistor type thermal probes PTC
- Bi-metal type thermal probes
- Motor with connectors
- Anti-condensation heater
- Forced fan cooling (IC 416)
- Drip proof cover
- Double shaft extension
- Incremental encoder sin/cos
- Optional painting
- Optional protection grades IP 56 ... 66
-  US motors certified to UL
- EISA Premium Efficiency (IE3)
- INMETRO ABNT NBR-17094-1 (IR3)



COMPLIANCE

- Test reports
- Machinery Directive 2006/42/EC
- Directive 2011/65/EC RoHS
- Directive «ErP» 2009/125/EC



PROTECTION/PAINTING

- RAL 5010 C3 paint as standard (hard and smooth clinging painting)
- IP 55



INVERTER (on demand) **dDrive**

- Maximum overload: up to 200%
- Best sensor-less ability to handle overload on the market
- Flexibility in motor-mounted or wall-mounted installation
- Full "Plug & Play"
- Autotuning and Software programming and updating included
- In compliance with IE2 class ECODESIGN EN 50598 IEC/EN 60034-30-1 and Ecodesign Directive in accordance with IEC 61800-9-2
- Remote commissioning, monitoring and diagnostics, Bluetooth, App and Safety (STO)
- Communication and connection among several inverters
- A wide range of Field buses
- Comprehensive options range, components and design concept guarantee the best reliability and vibration resistance. Dust-tight and protected against water jets (IP 65)

Inverter



Monitoring app

Solutions for an evolving industry

In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi we utilize change as a strategic lever for our growth.

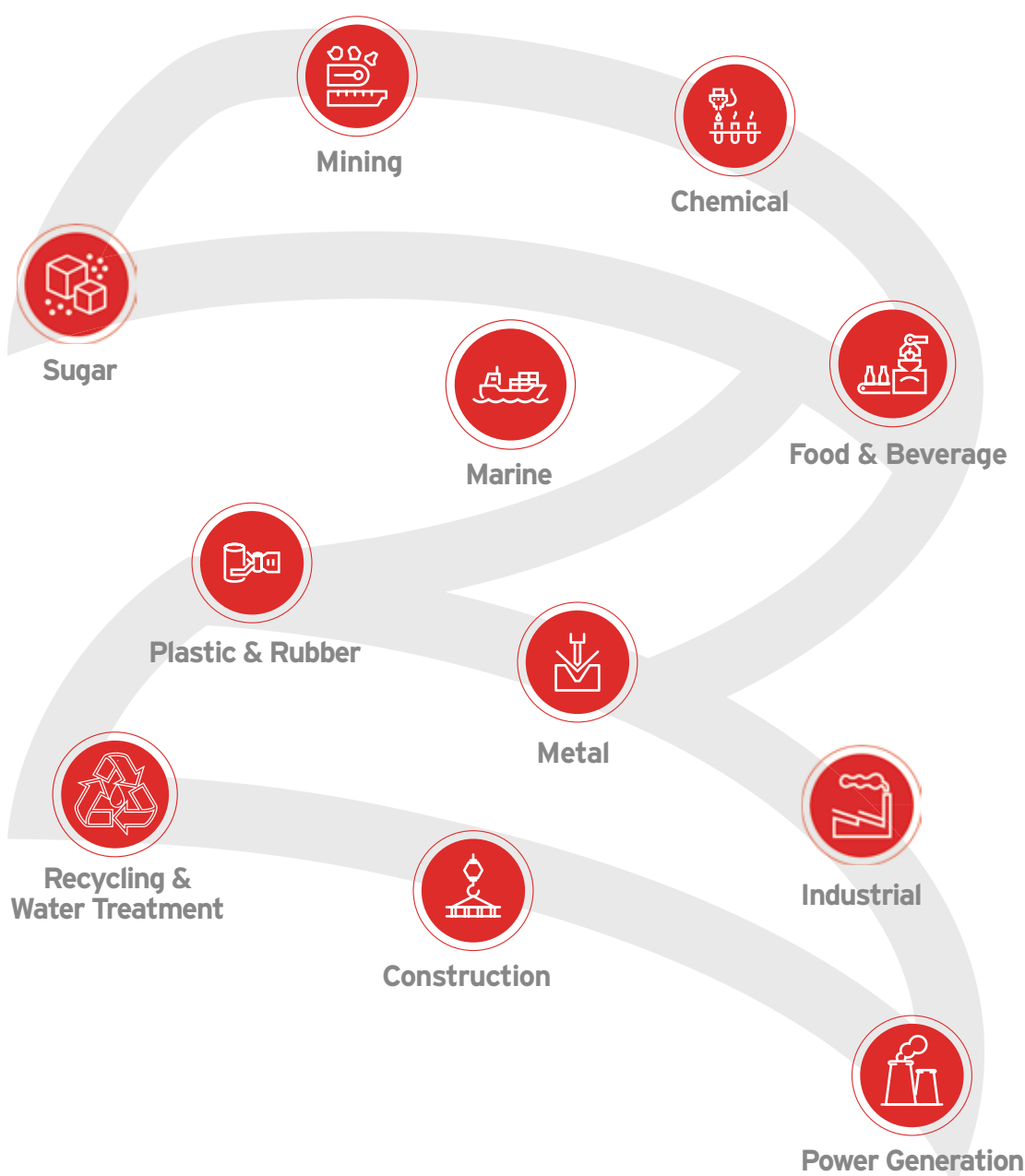
“Solutions for an evolving industry” fully expresses

our corporate philosophy: We are a flexible and dynamic reality, able to satisfy all requirements of a continuously evolving industrial world, thanks to our innovative solutions.

- Cutting-edge manufacturing
- Specialized housing machining
- Extensive systematic controls
- Experience and know-how
- Excellence and innovation
- Reliable customer support.



We have a solution for every segment



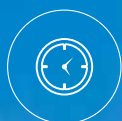
Key figures



over
1,000 people around
the world



5,000 customers
worldwide



over
70 years of
experience



50 million euros investments
in new technologies and methodologies
to improve manufacturing efficiency



17 affiliated
companies



5 production
facilities



8 assembly
plants

After-sale service



Highly trained mechanics and support teams can ensure a fast and efficient after-sale service providing support worldwide.

Digital support



Rossi Drawings, Selector and Download area enable real-time access to your order tracking, invoices, spare part tables download and contact to our service. Fast and easy online access is available 24/7, in 5 languages.

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www.rossi.com

Quality

3 years warranty*



Our drive is to innovate and boost operations by manufacturing performing, precise, reliable and high-quality products all over the world. We are always one step forward in offering and developing solutions that can satisfy an unlimited number of application needs, even in the most demanding conditions.

* As per our warranty terms.

System certifications

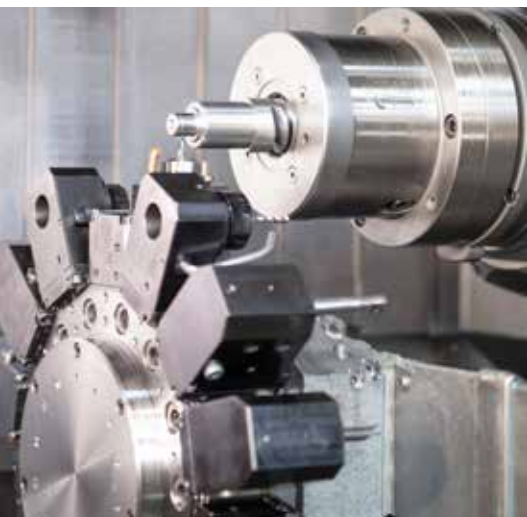
ISO
9001:2015

ISO
14001:2015

ISO
45001:2023

Product certifications





Solutions for
an evolving
industry

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