

Ever-Reliable **enertork**[®]

Company Brochure



KOREA

Ministry of SMEs and Startups | **KBIZ** Korea Federation of SMEs

أديبك | **ADNOC**

31 October - 3 November 2022
Abu Dhabi, United Arab Emirates



www.enertork.com

Ever-Reliable

Enertork Ltd. will always be at your service.
We are totally ready for the full support of
the needs and satisfaction of our customers.
This is our fundamental.

Enertork's 3Q Policy

Quick Delivery

Quick Service

Quick Response



04-07

Company Insight

08-15

Markets and references

- Waterworks
- Power Plant
- Oil & Gas
- Steel Mill & Etc



16-19

- Products
- Certificate and Quality Control



Ever-Reliable
enertork[®]

WE PROMISE SATISFACTION AND COMPLETE TRUST.

ENERTORK LTD. was founded in 1987, with confidence in 'the best quality' and 'customer satisfaction with trust'. Since then, we have been steadily growing and leading the Korean domestic market as an expert in developing, manufacturing, sales, and distributing the top-quality actuators in valve automation field.

Our actuators are used as widely as in waterworks and drainage system, petrochemical, refinery plants, energy plants, oil & gas industries, power plants, and many other industrial fields.

We are rapidly expanding our sales into Middle East, South East Asia, USA, Russia and other global market with the knowledge and reputation which gained from our customers in domestic market.

We aim to be one of the best in electric actuators by overcoming the competition with top brands with our on-going technological development and high quality of products.

In doing so, we promise we will continuously supply our valued customers with the products that can deliver the maximum satisfaction and complete trust.



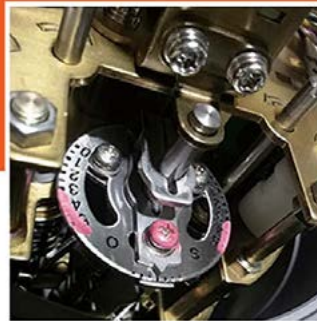
History

Since founded in 1987
Ever-Reliable



ESTABLISHMENT 1987-1990

- '87 Company founded
- '88 Conducted a trial run of KEPEC Pyeongtaek LNG plant
- '90 KEPEC registered as a localization supplier



TECHNOLOGY ACQUISITION 1991-2003

- '91 Forged an technology alliance with SEIBU, Japan
- '93 Acquired 'NT' mark from Korean Government
- '97 Acquired ISO-9001 Quality Management System certificate
- '98 Launched a newly developed actuator (co-developed with SEIBU)
- '01 Acquired 'Excellent product' certificate from Korean Government
- '03 Acquired 'Class IE' Nuclear power plant certificate from NTS in USA



DOMESTIC MARKET SHARE AS NO.1 2004-2009

- '04 Moved to a newly built factory in Yeosu
- '06 Listed into the public stock market 'KOSDAQ'
- '07 KHNP registered as an official supplier
- '07 Acquired 'Exd IIB T4' explosion proof certificate (KOSHA)
- '08 Built up the 2nd Yeosu factory
- '08 Acquired CE Marking
- '08 KEPEC registered as an approved vendor



ESTABLISHMENT OF BASE FOR OVERSEAS BUSINESS DRIVE 2010-2016

- '10 Registered and acquired Foundation Fieldbus certificate
- '10 Chosen as one of Asia 200 promising medium/small company (FORBES)
- '11 Awarded the Korean President prize
- '11 Renamed the company name to Enertork (from Morgan)
- '12 Built up the 3rd Yeosu factory
- '16 Open Dubai Branch Office

Waterworks



- Water works
- Sewage treatment
- Desalination
- Irrigation water
- Reservoir control
- Penstock
- Pumping station



Enertork has hands-on experience in water control industries such as water works, sewage treatment and desalination, and many more.

TM Series and TQ Series can be used for various types of valves and LEC Series are specialized for penstocks which perform emergency self-descending function.

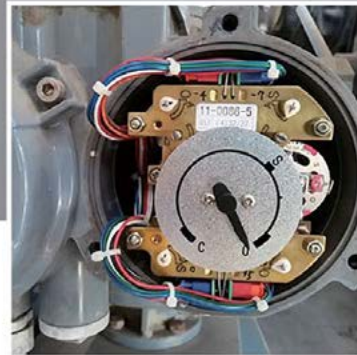
Not only electric actuator, we also supply pneumatic and heavy duty actuators to meet the customers demands.



References

- Seoul Amsa Water treatment :
1.6 mil. ton/day (Korea / Seoul City)
- Busan Hwaryeong Water Treatment :
2.8 mil. ton/day (Korea / Busan City)
- Seoul Seonam Sewage Treatment :
2 mil. ton/day (Korea / Seoul City)
- Seoul Joongrang Sewage Treatment :
1.7 mil. ton/day (Korea / Seoul City)
- Libya Great Man-made River (Libya / Al Nahr)
- Ras Al Khair Desalination Plant(Saudi Arabia / SWCC)
- A seeb Sewage Treatment(Oman / Haya)
- Thailand Province Waterworks Authority
- Sri Lanka Water Works
- Turkey ISKI Water Works and Sewage Treatment Plant
- Modunaghat Water Treatment Plant
(Bangladesh / Chittagong WSS)

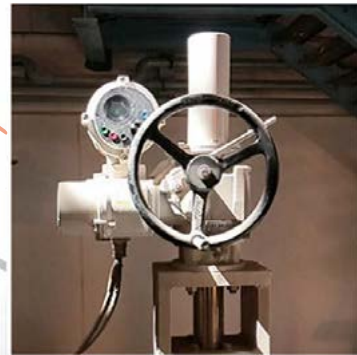
Power Plant



- Thermal Power Plant
- Combined Cycle Power Plant
- Hydroelectric Power Plant
- Pumped Storage Power Plant
- Tidal Power Plant
- Nuclear Power Plant
- Renewable Energy



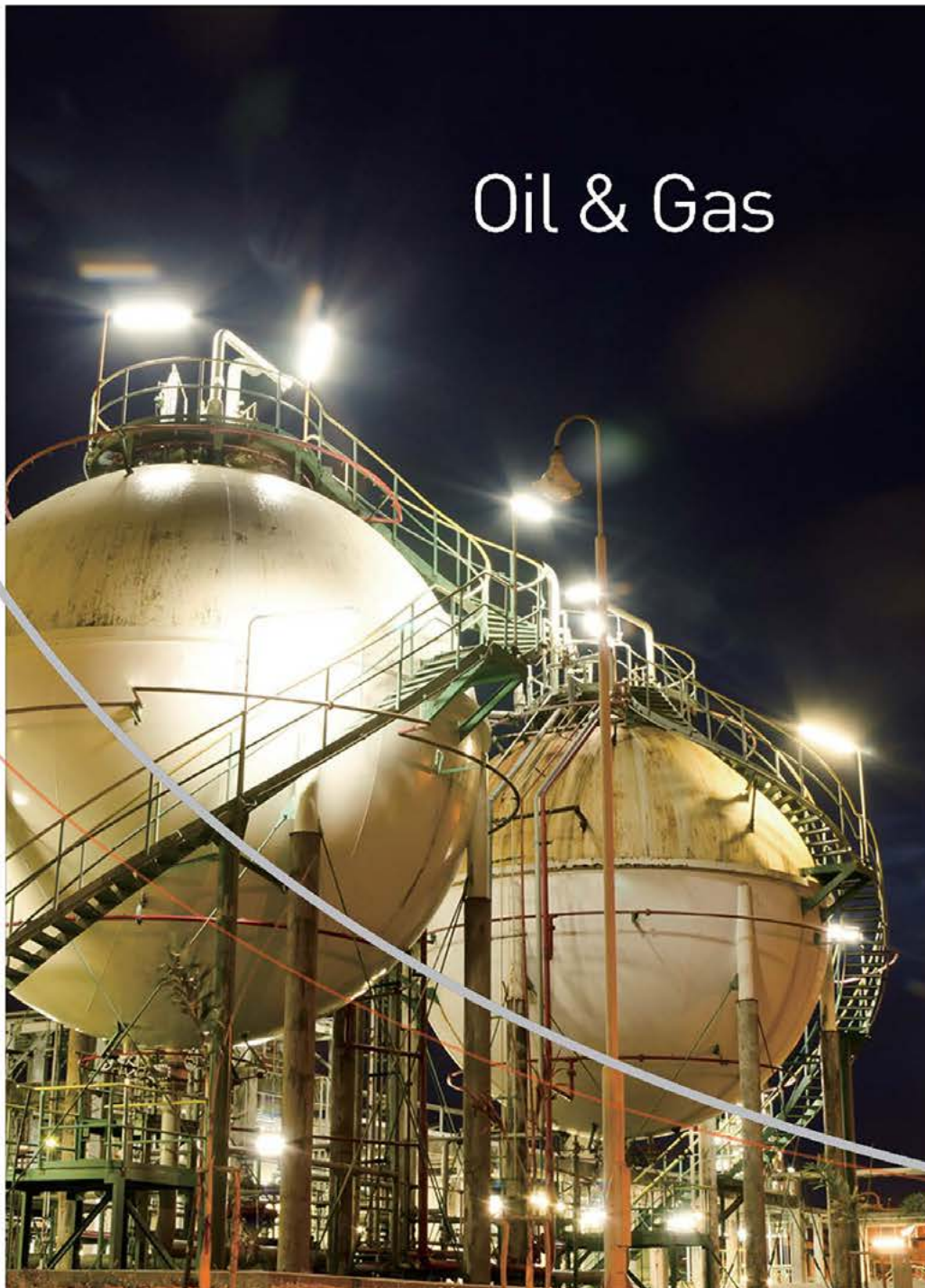
Power generation industries requires high torque actuators and various types of control system. Enertork actuator meets any types of customer demands in power plant industry. LTMD Q Series can be used in nuclear power plant which has Q Class certification.



References

- Boryeong Power Plant 7500MW (Korea / KOMIPO)
- Fadhili CHP (Saudi Arabia/Aramco, SEC)
- Samchuk Power Plant 2400MW (Korea / KOSPO)
- Kori Nuclear Power Plant (Korea / KHNP)
- Chungpyeong Pumped Storage Power Plant (Korea / KHNP)
- Dangjin Tidal Power Plant (Korea / EWP)
- Hwasung Fuel-Cell Power Plant (Korea / IPP)
- Mapna 4 boiler 42 HRSG (Iran / Mapna Boiler)
- Riyadh PP11 (Saudi Arabia / SEC)
- Braka Nuclear PP (UAE / KEPCO)
- Mongduong TPP (Vietnam / EVN)
- Cebu TPP (Philippines / KEPCO)
- Cirebon TPP (Indonesia / PLN)
- Ain Sokna PP (Egypt / EEHC)
- BHEL (India)
- Singori Nuclear Power Plant (Korea / KHNP)
- SAFI IPP (Morocco / Daewoo)
- Mor upule A TPP (Botswana / BPC)

Oil & Gas



- Refinery
- Oil and gas pipe line
- Oil and gas storage tank
- Petrochemical plant



Oil and gas industries require higher level of reliability and special functions such as explosion proof and fire retarding. Enextork products have FM and ATEX explosion proof certification and certified technology of fieldbus communications.

References

- Stockpiling (Korea / KNOC)
- Oil Tanking (Korea / KNOC)
- LNG Terminal (Korea / KOGAS)
- Residue Upgrading Complex (Korea / S-oil)
- BTX, Crude Oil Tank (Korea / SK energy)
- Osan Crude Oil Tank (Korea / S-oil)
- Residue Upgrading Complex (Korea / S-oil)
- City Gas Supply (Korea / District Gas Company)
- Sinopec Oil Storage (China / Sinopec)
- Tehran Refinery (Iran / National Iranian Oil E&C)



Steel Mill & ETC

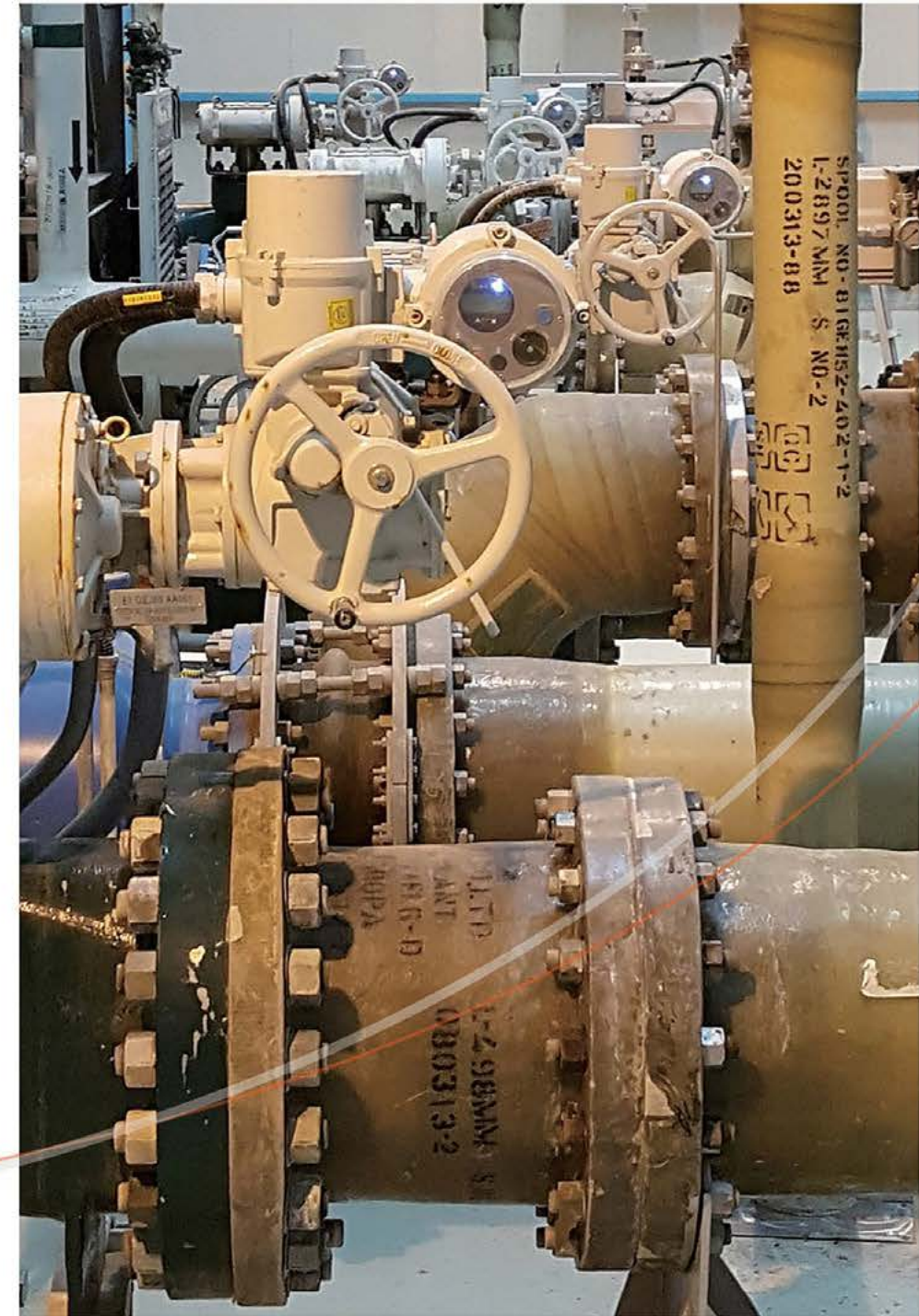
- Steel Mill
- Cement plant
- Garbage collection
- Food and drink packing
- Automation line



Entertork's wide versatility allows smooth integration into a diverse array of industries and control systems.

References

- Ara Waterway (Korea / K Water)
- Songdo Garbage Collection Facility (Korea / IFEZ)
- Hanil Cement Danyang Plant (Korea / Hanil Cement)
- DSME RD-4 Floating Dock (Korea / DSME)
- CSP Steel Plant (Brazil / Dongkuk Steel)
- Kobe Steel mill (Bahrain / Kobe Steel)
- Al Khaleej Sugar Factory (UAE / Al Khaleej Sugar)



Products



TX-Series Intelligent Multi-turn Actuator

Multi-functional smart type actuator

- Non-intrusive settings
- Local operation with wireless device (Remote controller, Bluetooth device)
- Wide LCD display
- Data logging and Diagnostics

Torque range : 30 – 3000Nm



TM-Series Multi-turn Actuator

Actuator for any type of valves and dampers

- Easy to assemble and disassemble
- Simple maintenance
- Large torque range

Torque range : 30 – 15,000 Nm



LTMD Series Multi-turn Actuator

Actuator for nuclear power plant

- Cast iron body
- Simple and strong structure
- Q class certified

Torque range : 40 – 11,760 Nm



TQ Series Quarter-turn Actuator

Actuator for small sized ball valves, butterfly valves and dampers

- Light weight and compact size
- Easy to set

Torque range : 100 – 3,000 Nm



LEC Series Emergency Shutdown Actuator

Actuator for penstock with rack and pinion structure

- Emergency self descending close function included
- Easy to control



ED Series Pneumatic & Heavy Duty Actuator

- Single acting type Pneumatic Actuator
- Double acting type Pneumatic Actuator
- Single acting type Heavy Duty Actuator
- Double acting type Heavy Duty Actuator



MW Series Worm gear reducer

Worm gearbox for manual or actuator mounting operation

- Robust cast iron body
- Simple and strong structure
- 90/180/270 degree action

Torque range : 500 – 550,000 Nm



Certificate and Quality Control



Quality control

All processes from designing through to the delivering of actuators, including preinspection of individual parts or modules, proceeds with strict accordance with the Quality Assurance Procedures certified by ISO9001. Before delivery, each actuator is tested and a Final test report is issued. Customised torque values, sleeve rotational speed, motor current, voltage, performance of position limit and torque limit switches, and manual/automatic switch-over are checked at the specially developed test console and test report is recorded.



ISO9001 Certified by DNV



CE Certification



FM/ATEX Certification

Bill of materials (TM Series)

Parts	Material	KS/JIS NO.	ASTM NO.	
Case & Cover	TM-01,04,07,1	Alloy die casting(ALDC)	D6004/H5302	B85
	TM-3,6,12	Gear case: Cast iron(GC)	D4301/G5501	A126
		Integral case : Alloy die casting(AL DC) etc. : Ductile cast iron(GCD)	D6004/H5302 D4302/G5502	B85 A536
Thrust Unit	Ductile cast iron(GCD)	D4302/G5502	A536	
Worm	Chromium molybdenum(SCM)	D3711/G4105	A322	
Worm wheel	High strength Brass casting(HBeC)	D6007/H5102	B584	
Stem bush	Key	Carbon steel(SM45C)	D3752/G4051	1050
	Screw	TM-01, 04, 07, 1 : Copper alloy(C6782BE)	D5101/H3250	B16
		TM-3, 6, 12: High strength Brass casting(ALBC3)	D6007/H5102	B584
Grease	Lithium grease(EP 0)	M2130/K2220	ISO. KGBCA (MULIS)	

Customer Service

- **SIZING** : The performance of motor operated valve (MOV), water gate, and damper depends on the proper sizing of actuator in terms of rotation speed and torque. Also, economic feasibility is another crucial element for sizing properly. We are ready to assist our customers with torque/thrust calculation, method of mounting, selection of options, and other enquiries at all times for achieving proper sizing.
- **SUPPLYING SPARES** : Prompt response as an individual part and/or as modules, with immediate action.
- **MOV SUPPLY** : Basically, we supply actuators to customers. However, if customer requests, Enertronic may supply valves, dampers, and water gates along with our actuators under our quality guarantees.
- **RETROFIT/ATTACHMENT SUPPLY** : In case of retrofitting or site installation of actuators, customers often need various attachments in relation with actuator such as mounting flanges, iron stands, levers, rods, metal fittings, and many others. We are ready to attend and help out from designing stages to supplying the product, until the customer satisfaction is reached.



Quality Control

Automatic warehouse

Design

Head Office & Factory

#344 Neungyeo-Ro, Neungseo-Myeon, Yeosu-Gun, Gyeonggi-Do, Korea
Tel: 031880-2800, Fax: 031881-5860
E-mail: enertork@enertork.com

Seoul Office

18F. Un-Ik B/D. #706-13, Yeoksam-Dong, Gangnam-Gu, Seoul, Korea
Tel: 02)555-0883, Fax: 02)556-3026

UAE Office|Enertork Middle East Genetral Trading L.L.C.)

1256601 Makateb Bldg. #914, Airport Road, Deira, Dubai, UAE
Tel : +971 4 2948 355, Fax : +971 4 2943 455
E-mail: uaef@enertork.com

Japan

Seibu Electric & Machinery Co., Ltd.
Tel : +81-92-941-1530
Fax : +81-92-941-1512
E-mail : kitajima-chi@seibudenki.co.jp

Taiwan

Wonder Chance Machinery Industrial Co. LTD.
Tel : +886-3-475-9299
Fax : +886-3-475-9399
E-mail : wonder2k@ms51.hinet.net
RCS ENGINEERING CO., LTD
Tel : +886-2-2557-9657
Fax : +886-2-2557-9478
E-mail : cindy@rcstaiwan.com.tw

Singapore

X-Torque & Gates Pte Ltd
22 Woodlands Link #01-56 Singapore
738734
Tel : +65-6776-6119
Fax : +65-6776-1473
E-mail : michael@xtorque.com

Indonesia

PT. SAHABATAGUNG CITRA
Tel : +62-21-6296185
Fax : +62-21-6594739
E-mail : franky.pety@sacgroup.co.id

India

Indian Devices and Engineering Corporation (IDEC)
Malhotra House, 2nd Floor, #5A,
Opp. C.P.O. V.T. Fort,
Mumbai - 400001, India.
Tel:+91.22.22703131/3232
Fax:+91.22.22653827
E-mail : idecindia@gmail.com

Qatar

Technical Oilfield Supplies Control (TOSC)
P.O. Box : 35369, Doha - Qatar
Tel : +974-44653426 Fax : +974-44669256
E-mail : isaac@tosccom.qa

Vietnam

SAI GON INDUSTRIAL SERVICE JSC
Head Office: 24/10 Dinh Tien Hoang, Ward 1,
Binh Thanh Dist., Ho Chi Minh City, Vietnam.
Tel : +84-8-3589-7878
Fax : +84-8-3589-7788
E-mail : tonry@saigon-service.vn

China

Changsha Duke Control Valve Tech Co., Ltd
Tel : +86-731-85230918/28/78
Fax : +86-731-85230908
E-mail : zhangwk@doctreev.com

Owen Kelly

Tel : +86-21-5109 5660
Fax : +86-21-5109 5661
E-mail : owenkellycn@gmail.com

Jinan Foss

Tel : +86-531-81612666-8016
Fax : +86-531-81612665
E-mail : firstmark@vip.163.com

Thailand

High Quality Industrial Products Co., Ltd
43/160-43/161, Soi Latphrao 80, Latphrao rd.,
Wangthonglang, Bangkok, 10310, Thailand.
Tel : +66-2-932-6975
Fax : +66-2-935-5079
E-mail : hqipc@yahoo.com

Malaysia

Maslina
Tel : +60-3-9132-0096
Fax : +60-3-9134-1414
E-mail : sales@maslina.com.my

Philippines

Tradepoints Inc.
Tel : +632-719-4688 to 89
Fax : +632-533-0672
E-mail : rolycalamiong@tradepoints.com.ph

Iran

Pishgamane Sahar Afarin Co. (PSA Co.)
Tel : +98-21-22640968-22640996
Fax : +98-21-22640850
E-mail : m.bahrami@psaco-intl.com

Ever-Reliable
enertork®

Kuwait

Al-Zahem International Group
P.O. Box : 26212, 13123 Safat, Kuwait
Tel : +965-24829160
Fax : +965-24829166
E-mail : george@alzahemgroup.com

Oman

Development Services
P.O. Box : 2463 Ruwi, Postal Code 112,
Sultanate of Oman
Tel : +968-2481-5021
Fax : +968-2481-6017
E-mail : vivek@dsoman.com

Turkey

ARS Endüstriyel Kontrol San. Tic. A.Ş.
Halikali Merkez Mh. Sonmez Ski.
No:6/1A TR-34303 Kucukcekmece
- Istanbul, Turkey
Tel : +90-212-486-0202
Fax : +90-212-486-0330
E-mail : info@arsendustriyel.com

UAE

CMETS
P.O. Box : 48301, Abu Dhabi,
United Arab Emirates
Tel : +971-55-902-1537
Fax : +971-2-55-93-224
E-mail : kasim@cmets.net

USA

UniTorq Actuators and Controls
Tel : +1-770-446-7074
Fax : +1-770-447-1825
E-mail : jcurtin@unitorq.com

Russia

FTC Cheboksaryelectroprivod Ltd.
Tel : +7 8352 280004
E-mail : chep2005@yandex.ru

Memo