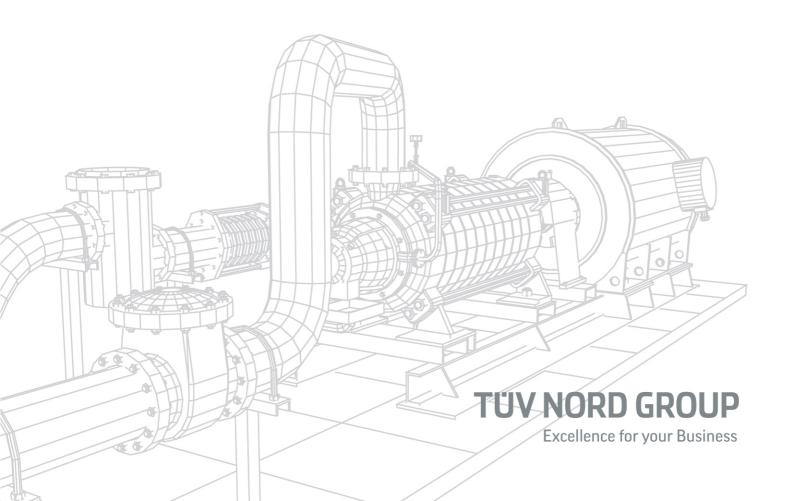


The ONLY & the BEST Choice

For ROTATING MACHINERY INSPECTION



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TÜV

1964

The **ONLY** & the **BEST** Choice

TÜV INCOK's outstanding expertise accumulated in the filed of Rotating, is the result of experience over last 50 years, continuous innovation with TÜV NORD Group and sharing the responsibility on safety of the world. TÜV INCOK has earned the trust in customers, and been recognized its ability on performing both domestic and international projects successfully.

Only one with many experiences

Since 1979 to present, TÜV INCOK has been performing inspections for one of the largest rotating equipment in the world as a designated inspection company. We are proud to share our experience in rotating equipment inspection that no other companies in Korea can match.

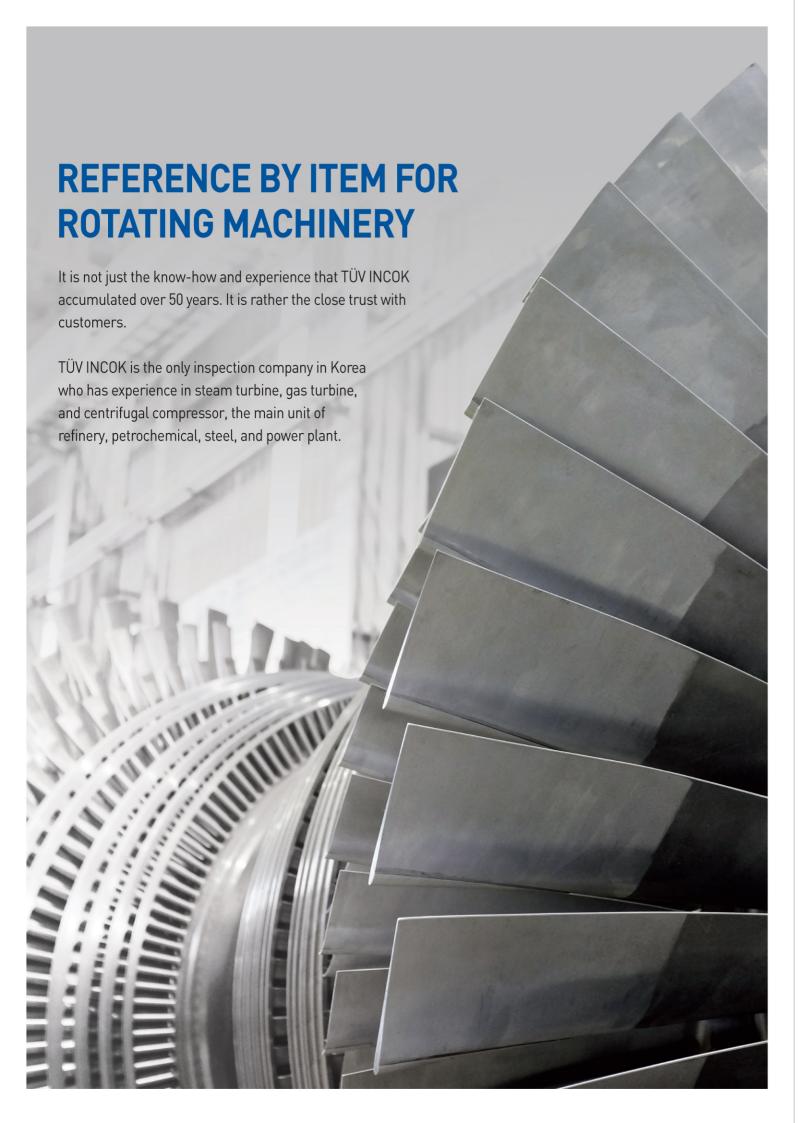
As a result, TÜV INCOK has been recognized as No. 1 inspection company in Korea.

Overseas inspection experiences

TÜV INCOK has long partnership and many experience with well-known international rotating machinery manufacturer, such as GE, MAN TURBO, SIEMENS, and MHI.

Inspected world largest steel plant

TÜV INCOK has been the designated inspection service provider for the largest steel plant in the world, and therefore has many experience in large rotating machinery. We are the inspection company that you can rely on.



Pump

Company	Project	Specification	Vendor	Year
SK E&C	NSRP COMPLEX PROJECT	210m³/hr x 155,46m x 185KW	Young Poong Precision	2015
Daelim	Sohar Refinery Improvement Project	107m³/hr x 347m x 200KW	ITT Goulds Pumps	2015
ADCO	Rumaitha/Shanyayel Facilities Phase III	195m³/min x 244m x 209KW	Hyosung Goodsprings	2015
LS-Nikko Copper	Chile Plamen	12m³/min x 150m x 75KW	Wilo	2015
DOCCO	Curany and #E Plant Europe Paramains	75.5m³/min x 20m x 1,100KW	Shin Shin Machinery	2015
POSCO	Gwangyang #5 Blast Furnace Revamping	3,400m³/hr x 50m x 560KW	Dukji Industrial	2015
Boryeong LNG Terminal	Boryeong LNG Terminal Project	13,500m³/hr x 59.5m x 3,000KW	Hyosung Goodsprings	2015
POSCO	Gwangyang LPG	80m³/hr x 300m x 90KW	EBARA Corporation	2015
eTEC E&C	ETEC Seagull GE4 Cogeneration Plant	710m³/hr x 255m x 720KW	Dongyang Chemical	2015
Daewoo E&C	Ras Djinet Electric Power Station in Algeria	330m³/hr x 1,685m x 2,400KW	Hyundai Heavy Ind.	2014
Daelim	Thai Bihn 2 Thermal Power Plant	1,180m³/hr x 92m x 320KW	Hyundai Heavy Ind.	2014
Hyundai E&C	SARB4	3,700m³/hr x 85.5m x 1,060KW	Hyosung Goodsprings	2014
Samsung Engineering	BADRA CPF Phase 2	19.3m³/hr x 657m x 55KW	Hyosung Goodsprings	2014
KEPCO E&C	CIPREL Power Plant	217m³/hr x 1,211m x 858KW	Hyosung Goodsprings	2014
Lotte E&C	R1 Project	1,650m³/hr x 40m x 270KW	Young Poong Precision	2013
MHI	RABIGH PH-2 Project	4,100m³/hr x 39m x 570KW	Hyosung Goodsprings	2013
Hanwha E&C	5 Nitric Acid Plant	3,000m³/hr x 50.2m x 560KW	Young Poong Precision	2013
POSCO	Gwangyang #4 Hot Rolling Mill Making Equipment	2,33m³/min x 450m x 355KW	Chungwoo Hydro	2013
Daewoo E&C	JORF LASRAR Units 5&6 PJT(JORF)	639,7m³/hr x 2,110m x 5,200KW	Hyundai Heavy Ind.	2012
Hyundai Steel	Continuous Casting Plant Scaffing Machine	762m³/hr x 145m x 450KW	Young Poong Precision	2012
Daewoo E&C	SUR Independent Power PJT(PHOENIX)	495m³/hr x 1,780m x 3400KW	Hyundai Heavy Ind.	2012
00 500	GSC VGOFCC Project	170.3m³/hr x 341m x 330KW	ITT Goulds Pumps	2012
GS E&C		153m³/hr x 167,82m x 750KW	Dongyang Chemical	2012
Hanwha E&C	YANBU2 POWER PLANT	2,363m³/min x 256m x 150KW	Chungwoo Hydro	2012
W	ORANGE Project	2,900m³/hr x 103.1m x 1,200KW	Dongyang Chemical	2012
Hanwha E&C		1,213.4m³/hr x 90m x 550KW	Young Poong Precision	2012
Hanjin Heavy Ind.	Namyangju Byulnae Mass Energy Facility	68,52m³/hr x 974,3m x 380KW	Chungwoo Hydro	2012
Hanjin Heavy Ind.	Uijeongbu Minrak #2 Mass Energy Facility	1,300m³/hr x 115m x 600KW	Iljin Electric	2012
PHOENIX	SUR INDEPENDENT POWER PJT	2,350m³/min x 42m x 348KW	Wilo	2012
Korea District Heating Corp.	Multifunctional Administrative City Mass Energy	4,000m³/hr x 80m x 1,200KW	Shin Shin Machinery	2012
Hitachi Zosen	Ruwais Refinery Expansion Package	3,528m³/hr x 75.5m x 889KW	Hyundai Heavy Ind.	2011
Korea District Heating Corp.	Goyang Samsong CHP Project	126.5m³/hr x 1,210m x 650KW	Hyosung Goodsprings	2011
SK E&C	TAKREER RRE Project	200m³/hr x 157,49m x 132KW	ITT Goulds Pumps	2011
TERNA S.A GEK GROUP	THIVA Combined Cycle Power Plant	368.2m³/hr x 2,064m x 3,200KW	Torishima Pump	2009

Company	Project	Specification	Vendor	Year
SK E&C	NSRP Complex Project	8,344m³/min x 335mmAq x 920KW	Suewon Poongryuk	2015
POSCO	Gwangyang #5 Blast Furnace Revamping	20,400m³/hr x 1,100mmAq x 1,250KW	Shin Pung	2015
Brazil CSP	CSP Brazil Iron and Steel Plant	15,000m³/min x 450mmAq x 1,250KW	Tongyang Plant	2015
POSCO	Pohang 2 ZRM	400m³/min x 800mmAq x 375KW	Dong-A Fan & Blower	2015
eTEC E&C	ETEC Seagull GE4 Cogeneration Plant	15,607m³/min x 1,115.6mmAq x 3,850KW	Tongyang Plant	2015
POSCO	Replacement of Gwangyang 2 POL	9,000m³/min x 400mmAq x 1,000KW	Dong-A Fan & Blower	2015
SNNC	#2 Fe-Ni Environmental Facility	6,800m³/min x 400mmAq x 700KW	Suewon Poongryuk	2014
POSCO E&C	Pohang STS #1 Rolling Mill Revamping	4,500m³/min x 200mmAq x 390KW	Samwon E&B	2014
SNNC	SNNC #2 Plant Revamping	10,000m³/min x 450mmAq x 1,150KW	Suewon Poongryuk	2014
SNNC	Gwangyang SNNC Fe-Ni Plant	3,110m³/min x 340mmAq x 280KW	Suewon Poongryuk	2014
		1,750m³/min x 1,130mmAq x 500KW	Dong-A Fan & Blower	2013
POSCO	Gwangyang #4 Hot Rolling Mill	11,500m³/min x 715mmAq x 2,100KW	Suewon Poongryuk	2013
Hyundai Engineering	UGCC Utilities & Offsites	2,338m³/min x 596mmAq x 420KW	Tongyang Plant	2013
POSCO	Pohang #1 Steel Making	5,000m³/min x 650mmAq x 800KW	Yujin Fan	2013
POSCO	Pohang #3 FINEX	8,750m³/min x 650mmAq x 1,350KW	Tongyang Plant	2013
POSCO	Pohang High Purity Fe-Si Plant	4,170m³/min x 580mmAq x 650KW	Shin Pung	2013
Hyundai Steel	#2 Fe-Ni Environmental Facility	6,800m³/min x 400mmq x 700KW	Suewon Poongryuk	2013
POSCO	Gwangyang Fe-Powder Bag Filter	2,160m³/min x 530mmAq x 350KW	Tongyang Plant	2013
POSCO	Pohang #1 Steel Making Bag Filter	5,000m³/min x 650mmAq x 800KW	Yujin Fan	2013
KRAKATAU-POSCO	PT. K-P CCP	3,000m³/min x 204mmAq x 160KW	Dong-A Fan & Blower	2012
POSCO	Pohang #1-5 Cokes P-CAR Bag Filter	2,200m³/min x 715mmAq x 400KW	Tongyang Plant	2012
Hyundai Engineering	PVTEX - PET PJT	1,400m³/min x 730mmAq x 300KW	Dong-A Fan & Blower	2012
POSCO	Gwangyang Cokes ECS Bag Filter	5,000m³/min x 560mmAq x 750KW	Tongyang Plant	2012
Hyundai Steel	Hyundai Hysco Furnace Facility (CGL)	1,268m³/min x 660mmAq x 230KW	Samwon E&B	2012
POSCO	Pohang Steel Mill Limeburner #1, 2	1,000m³/min x 450mmAq x 1,150KW	Suewon Poongryuk	2012
POSCO Plantec	PIG Casting Machine of No.1 BF	6,400m³/min x 415mmAq x 670KW	Tongyang Plant	2012
Samsung Engineering	TAKREER RRE Utilities & Offsites	3,620m³/min x 830mmAq x 770KW	Tongyang Plant	2011
POSCO	Gwangyang Fe-Mn Plant	6,500m³/min x 600mmAq x 950KW	Tongyang Plant	2011
SeAH CSS	Rolling Mill Revamping	2,667m³/min x 505mmAq x 350KW	Tongyang Plant	2011
Poshimetal	Gwangyang Fe-Mn Plant	7,200m³/min x 600mmAq x 1,050KW	Tongyang Plant	2011

TÜV INCOK EXPERIENCE EXPERTS WHY INCOK FAST & EASY HISTORY

Steam & Gas Turbine

Company	Project	Specification	Vendor ///	Year
Daelim	POCHEON LNG Power Plant	272MW	Doosan Heavy Ind.	2012
Hanwha E&C	YANBU 2 Power Plant	270MW	Doosan Heavy Ind.	2012
Hanwha E&C	Saudi Arabia Power Plant	100MW	Doosan Heavy Ind.	2011
Hanwha E&C	MARAFIQ STG Units #5 & #6	275MW	Doosan Heavy Ind.	2010
Korea District Heating Corp.	Goyang Samsong CHP Project	27MW	HITACHI	2009
Korea District Heating Corp.	Pangyo CHP Project	68MW	Mitsui Eng. & Shipbuilding	2008
Korea District Heating Corp.	Paju CHP Project	188MW	MHI	2007
POSCO	Pohang #3 FINEX	600MW	Kawasaki Heavy Ind.	2001

Compressor

Company	Project	Specification	Vendor	Year
STAR Refinery	Aegean Refinery Project (ARP)	11,446m³/hr x 10.103kg/cm² x 1,567KW	Hanwha Techwin	2016
POSCO	Gwangyang Continuous Casting Plant	7,000Nm³/hr x 8.0Kg/cm² x 1,250KW	Seah E&T	2016
Samsung Engineering	SOCAR Ammonia and Urea Complex Project	1,530Nm³/hr x 9.3Kg/am² x 300KW	CompAir	2015
Samsung Engineering	SEMV	5,150Nm³/hr x 8,0Kgt/om² x 587,5KW	Hanwha Techwin	2014
Hyundai E&C	SARB4	4,447.4Nm³/hr x 8.6bar.g x 553KW	Hanwha Techwin	2014
Brazil CSP	CSP Brazil Iron and Steel Plant	8,000Nm³/hr x 8.0Kg/cm² x 1,150KW	Hanwha Techwin	2014
POSCO Engineering	KUMHO KPA	4,592Nm³/hr x 2,69Kgf/cm² x 1,629KW	Hanwha Techwin	2014
SNNC	#2 Fe-Ni Plant	8,600m³/hr x 8.0kg/cm² x 1,100KW	Hanwha Techwin	2014
POSCO	Pohang #2 Plate Mill UST Roller Table	33,3Nm³/min x 7,0Kg/om² x 225KW	AIRPLUS	2013
POSCO	Indonesia Continuous Casting Plant	208.3Nm³/min x 7.0Kg/cm² x 1,866KW	Seah E&T	2013
Samsung Engineering	SMPW-1	3,429.6Nm³/hr x 8.0Kgt/cm² x 150KW	Kwangshin Machinery	2012
POSCO	Pohang #4 Sintering Plant Revamping	9,800m³/hr x 7.8kg/cm² x 1,200KW	Hanwha Techwin	2012
Korea District Heating Corp.	Goyang Samsong CHP Project	9,741Nm³/hr x 29.0Kg/cm² x 699KW	Kwangshin Machinery	2011
POSCO	Steel Mill Making Plant	3400Nm³/Hr x 2,0Kg/cm² x 2400kW	EBARA Corporation	2001
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^{*} Full reference available upon your request.

The Leading Service Provider, Giving Customer Satisfaction

Since establishment in 1964, TÜV INCOK has been working steadily to secure excellent inspectors. TÜV INCOK has the largest number of top inspectors in Rotating machinery in Korea.

We value the quality of service.

TÜV INCOK has 100 own inspectors who are managed and monitored by TÜV NORD Group. Our experts performs and supervise inspection to ensure steady quality and competitiveness.



Speciality in Rotating Field

TÜV INCOK inspectors have wide range of experience in the Rotating field. More than 90% of inspectors have over 10 years of experience in the field of major Rotating Machinery such as fan, blower, pump, compressor, and etc.



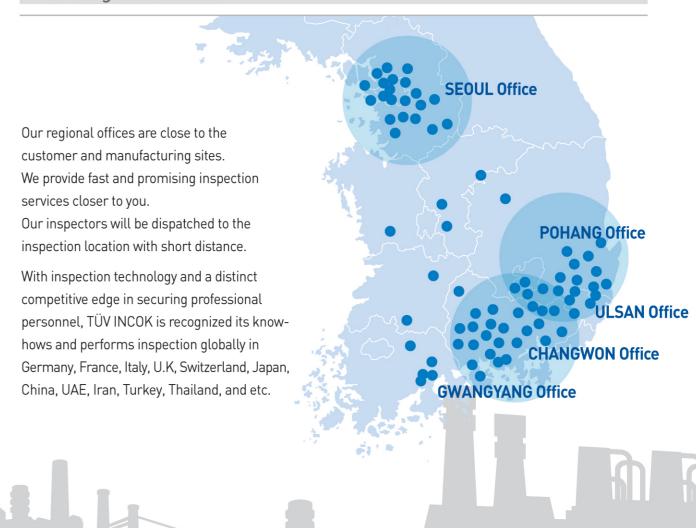
Speed and Quality

TÜV INCOK values customer's time. Timely service without compromise quality of service is our promise to customers.

Inspection quality is guaranteed. We review detailed procedures of approved drawing, inspection items, and performance result that manufacturers submitted.

Closer to the Site

- 70 Inspectors with rotating machinery experience
- 22 Rotating special Item experts
- 5 Regional Offices



Credit Rate

Out of all companies in Korea, only less than 0.5% receives credit rate A. On top of our proven technology, we are offering you the trust based partnership.

TÜV INCOK is the most reliable partner that you are looking for.



100

Our own inspector

More than 90% of TÜV INCOK inspectors have over 10 years of experience in the field of major Rotating Machinery such as fan, blower, pump, compressor, and



150

TÜV INCOK

EXPERIENCE

70 countries 150 offices

Dresden Völklingen Mumbai Praha Hannover Essen Plovdiv Forbach Jakarta Hamburg Brisbane Apeldoorn Waiblingen Bangkok Seoul Rijswijk Taipei Taiwan Donetsk Vantaa Olpe Hangzhou Calgary Bangkor Croydon Praha Hagen Mumbai Moscow Riga Matsusaka Athen Katowice Roma Riga Matsusaka Attleti Nordhausen Petalin Jaya Hong Kong Mönchengladbach Kolding Bratislava Greifswald Frankfurt Cane Town Greifswald Frankfurt Cape Town San Sebastian de los Reyes
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Potsdam Slavonski Brod Wien Nicosia Hong Kong Maardu Riga Leuna City of Muntinlupa Buenos Aires Barueri Pekan Seria Monte Feio, Sines Erfurt Grevenbroich Barueri Rar Centro Sur



TÜV

EXPERTS

Our Value

With TÜV INCOK, your product can be inspected based on the international standard. We are member of TÜV NORD Group and our quality of inspection is well managed under TÜV NORD Group, the leading global inspection company.

1964

Established in

Being the pioneer of inspection company in Korea for over 50 years means more than the period itself. For last 50years, TÜV INCOK took responsibility in safety of every industrial facilities in Korea.





Known Before **Inspection**









People

More than 100 own inspector

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ar



TÜV INCOK

in Service
More than 90% of inspections
are performed by TÜV INCOK's
own inspector

Know At the **Inspection**



We analyze inspection result since 1994

Data Analysis

We prevent risks and problems even before the inspection.
We have(collected) data on inspection results since 1994 for each item and manufacturer TÜV INCOK s inspection experience.

The analysis of the data for each item is assessed and reviewed by our inspector prior to the inspection service.

Ensure Quality

With Qualified Inspector, We ensure quality in time Based on the data, our inspectors communicate with manufacturers on what to carefully prepare before the inspection, to reduce fail rate and save your time without compromising quality of course.

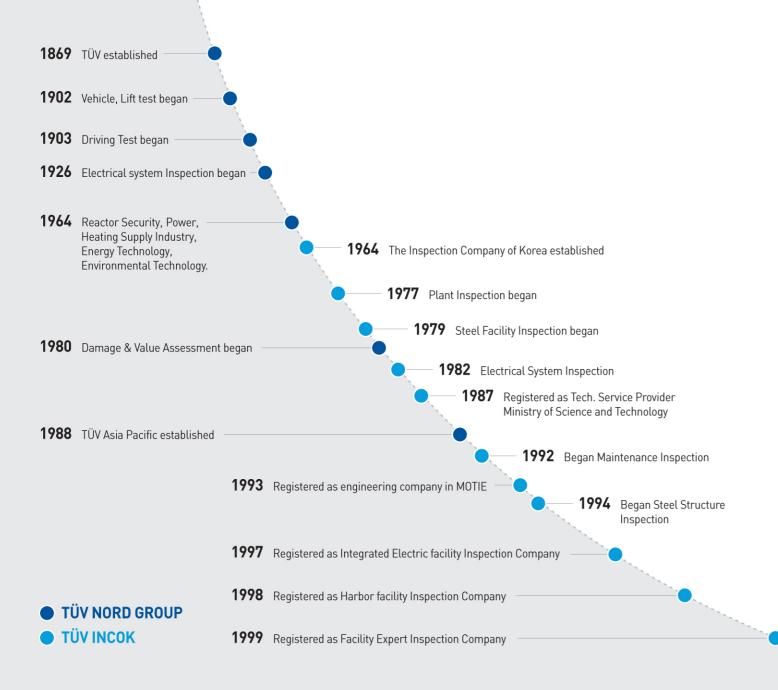
Our inspection services verify that your machinery and equipment are manufactured in compliance with all specified requirements.



Receive flash report through your mobile phone as soon as the inspection is finished.

You can check flash report quick and easy through mobile app. The inspection result will be sent to you right after our inspector perform inspection through mobile flash report. You will also receive through your e-mail in PDF.

HISTORY PROVES OUR VALUE



TÜV INCOK EXPERIENCE EXPERTS WHY INCOK FAST & EASY HISTORY

100% Owned by TÜV NORD Group

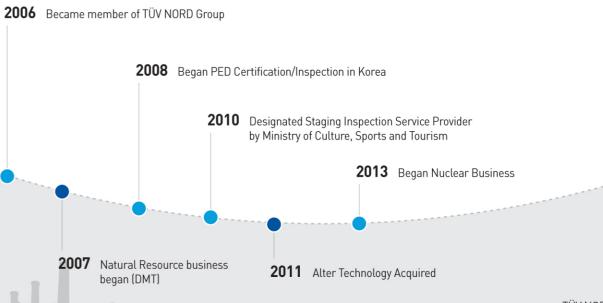
TÜV INCOK with TÜV NORD Group open new paradigm to inspection.

Driving forward with innovations and new developments is an important focus of TÜV NORD GROUP. New and innovative services open up new areas of the market, create a competitive advantage and help to overcome global challenges. Innovations are vital for the growth of TÜV NORD GROUP.

THE DIGITAL TRANSFORMATION FROM TODAY TO TOMORROW

As the focus on Industry 4.0 increases, so must the security of plant and machinery and their regulation, control and monitoring systems. Industry 4.0 is turning manufacturing facilities into complex cyber-physical systems that interconnect mechanical objects with embedded software over the Internet.

TÜV NORD has developed an innovative system that simulates and evaluates damage in pipelines. It is used to better plan and to replace defective sections of pipeline more cost effectively. We provide quality inspection services to our customers, earning a reliable reputation in wide range of areas. We will continue our efforts to satisfy the changing needs of our customers through both continuous training and applying state-of-the-art technologies.



Making our world safer TÜV INCOK

TÜV NORD INCOK

The Inspection Company of Korea