

GEOYANG METAL CO.,LTD.

The most competitive supplier of
automotive cold-forging parts



Company Motto



Creativity



Faith



Challenge

Management goal

- Strengthen the Global Competitiveness
- Close to the Customers. Emotional Management
- Build the Leading Business

Management Policy

- We provide the best products and services to our customers, through continuous improvements and creativity.
- We contribute to the society, through creating additive values and steady employment.



History

2002

JUN / Founded GEOYANG METAL Co., LTD

2005

JUN / Moved to Uiryong Guryong Industrial Complex for volume raising
OCT / Established Technology Institute

2006

MAY / Certificated TS 16949
AUG / Certificated SQ-Mark from HYUNDAI/KIA for Cold Forging

2007

JAN / Achieved INNO-BIZ Certification for Technology
JUL / Installed phosphating, Heat Treatment Line

2008

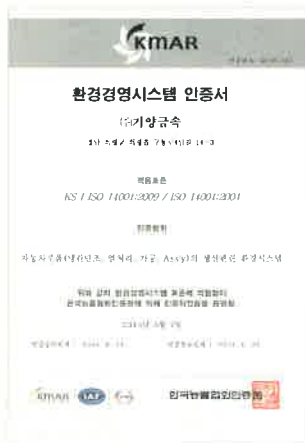
JUN / Certificated ISO14001

Company Profile

- Company : Geoyang Metal Co., Ltd. - President : Kim Hak-Soon - Established : 2002
- Location : Uiryeong-gun, GyeongNam, Korea (Guryong Industrial Complexes) - Dalsung PLANT
- Capital : US\$1.3M - Employee : 150 People



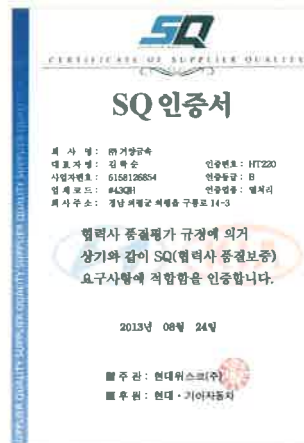
Certificates



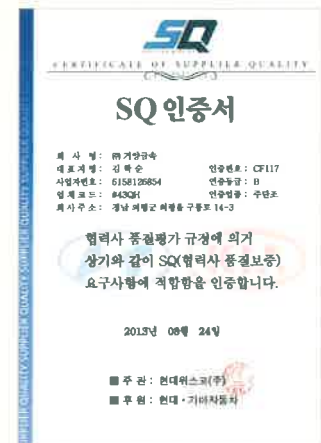
ISO 14001 : 2009



ISO/TS 16949 : 2009



SQ by HT220



SQ by CF177

2009

DEC / Awarded Partnership Prize from HYUNDAI WISCO for Quality Improvement and Management

2011

NOV / Production Volume Up for DIFF GEAR (Land : 5,610 M2, Building : 1,650 M2)

2012

DEC / Awarded as 1 M(USD) Exporter from the governor

2013

JAN / Established "GYM JAPAN", Nagoya, JAPAN
AUG / Certificated SQ-Mark from HYUNDAI/KIA for Heat Treatment, Casting and Forging
DEC / Certificated Honourable Exporter from the governor
OCT / Awarded "기술우수기업 (Technical Excellence Corporate)" from SMALL & MEDIUM BUSINESS CORPORATION

2014

MAR / Established DALSUNG PLANT -Forging Line's Volume Up

Products



Transmission Differential Parts

Differential Pinion / Differential Side



Transmission Diff ASSY



Starter System Parts

Pinion / Clutch, Shell



Other Parts / Electronic Parts

Inner Race / Spider / Connector SHAFT



Engine & Aircon Parts

Scorpion Body / Tappet Body / Hub





KNUCKLE PRESS / 1,000Ton / 800Ton / 650Ton / 630Ton / 600Ton / 400Ton / 250Ton

CNC Lathe Line



Carburizing Furnace Line



Annealing Furnace Line



Bonderizing Line



Measuring Equipment



CNC Coordinate
Measuring Machine



Bevel Gear Rolling
Tester



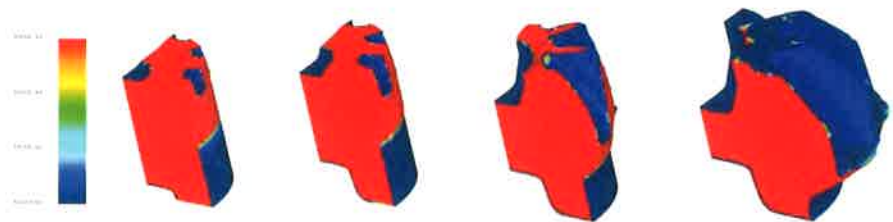
Vickers Hardness
Tester



Development of Forging Process



Development of Diff Pinion Gear Result of Deform 3D Simulations

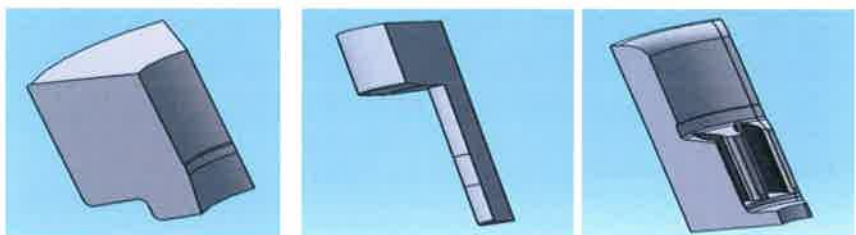


Result of Cold Forging

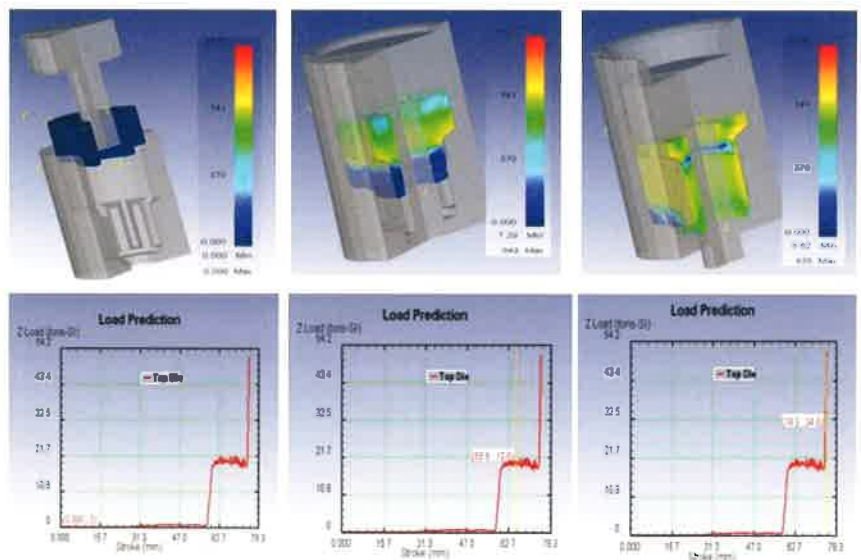


Development of Cold Forging Technology for Improving
Dimensional Accuracy and Tool Life

Development of starter Motor Pinion Die and Mold Design with CATIA



Result of Deform 3D Simulation



Diff Bevel Gear Tooth Quality Assurance

Bevel gear for CMM Measurement



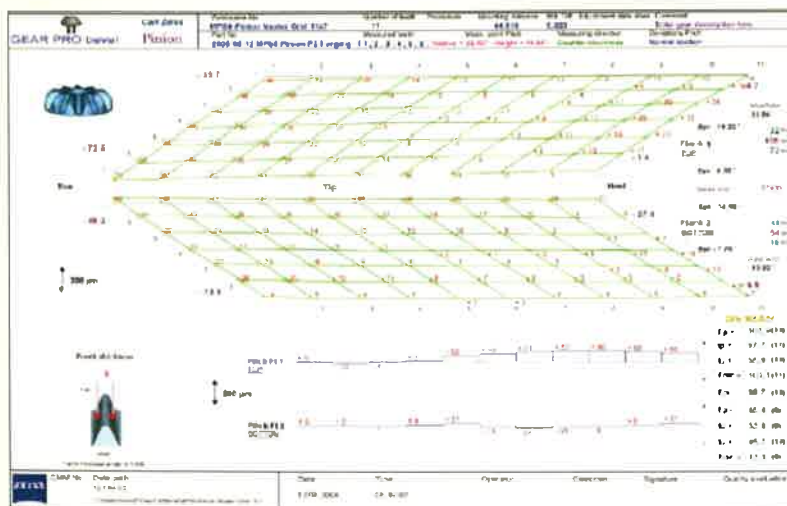
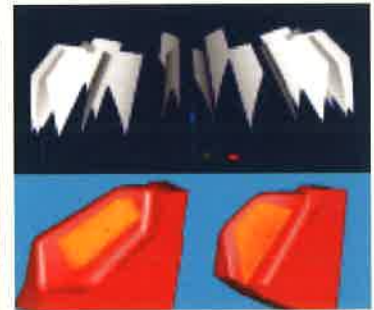
Carl Zeiss/CONTURA G8



Tooth Die



Bevel Gear



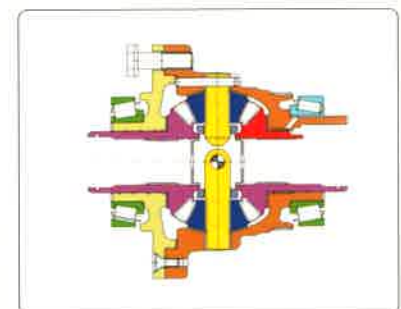
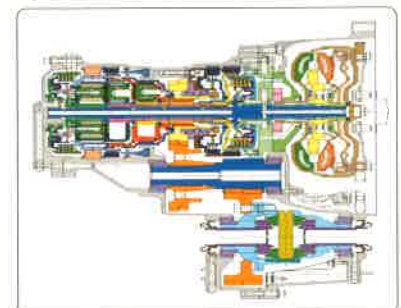
Pitch Variation (Fp, fp, Fr)

Mounting Distance

Tooth thickness should be in the range of $\pm 30\mu$

The grid deviation to the master grid has to be less than $\pm 30\mu$

T/M

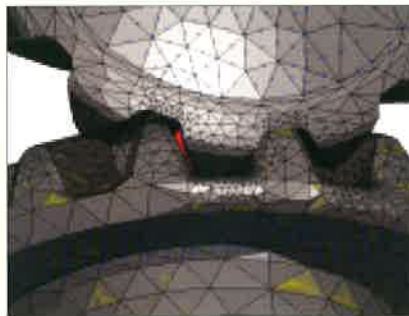


Bevel gear for Rolling Tester

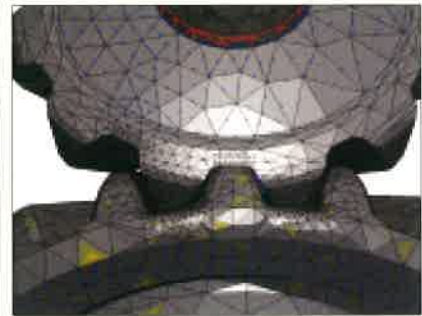
Osaka Semitsu / GTR25



Backlash



PTC

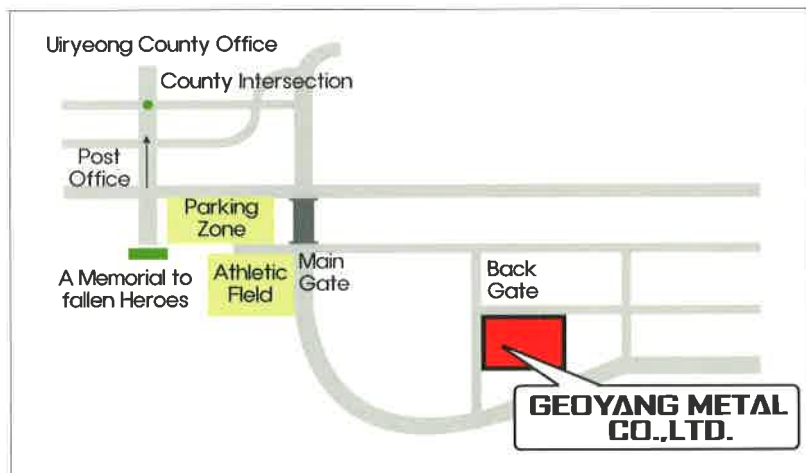


GTC

Tooth Contact Pattern



Backlash the GEAR & PINION
Tooth Contact Pattern
Run out & Kick out



● **Head Office / Plant**

4Nam-gil Guryong-ro 14-3 Uiryeong-gun Gyeongsangnam-do(Seoul 636-803)Korea
TEL.82-55-573-0274~6 FAX.82-55-574-0278 E-mail.hr@geoyang.kr
<http://www.geoyang.kr>

● **Dalseong Plant**

60,Nongong-ro 53-gil, Nongong-eup,Dalseong-gun,Daegu,Korea
TEL.82-53-615-8710-1 FAX.82-53-615-8722

● **Japan Office**

5-17,Minamiichibancho, Atsuta-ku,Nagoya-city, Aichi-pref,Japan(456-0055)
TEL/FAX.81-52-880-0290 E-mail:gym-Japan@tg.commufa.jp
<http://www.business1/gym-jp>

