www.bumseo.com

Environment friendly company moving to brighter future!

BUM SEO



About Company

BUM SEO

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Eco-friendly Company BUMSEO Co., Ltd.

History

Human Customer Technology

> **On-going** Technology **Development and Quality Assurance** Based on the Management Philosophy, Customer Satisfaction Management

Bumseo Co., Ltd. was established as Namsung Industry in 1984, and changed from a boiler manufacturer to an automobile parts manufacturer in 1992. Through continuous research and technology development, we have contributed greatly to the development of the domestic automobile industry by manufacturing automotive air conditioner compressors, clutches, and fuel injection parts.

As a leader in the domestic auto parts industry, Bumseo has secured world-class technology and quality standards based on years of accumulated ultra-precision processing technology. Exporting to North America, Europe and China, we are growing into the world's best auto parts maker in fact as well as in name.

Consumers' preferences are diversified and their tendency to pursue more pleasant and comfortable cars is increasing constantly, and the market demand for environmental protection and alternative energy is also increasing as time passes by.

Bumseo Co., Ltd. is developing an optimal system in consideration of environment-friendliness to meet these customers' expectations and market demands. Bumseo Co., Ltd., which creates a more pleasant and comfortable automobile culture, is becoming a world-class company with the world' s best technology in the 21st century auto parts field.

We will endeavor to become a company that is trusted and loved by you by continuously developing technology, securing quality, and customer satisfaction management based on gement philosophy of "human, customer, and the mai

Gi-su Nam. CEO

| 1984 | 03 | \bigcirc | Established |
|------|----------------|------------|--|
| 1990 | 11 | Þ | Localized co conditioning |
| 2000 | 02 | ۲ | Selected as (by Daegu G |
| 2001 | 01 | ۲ | Selected as (The present |
| 2003 | 09 | ۲ | Acquired INI |
| 2004 | 12 | ۲ | Acquired Fo |
| 2005 | 11 12 | | Acquired ISC Introduced 1 (POPMIS: e-1 |
| 2008 | 03 05 | • | Expanded a 4th Industria Selected as |
| 2009 | 06 | ۲ | Certified as |
| 2011 | 10 | ۲ | Acquired PS (HMC Qualit |
| | 12 | ۲ | Created auto |
| 2012 | 02 06 09 | • | Created CNC Performed t Created CNC |
| 2016 | 11 | ۲ | Acquired the |
| 2018 | 02 | | Acquired the |
| | | | |

Environment-friendly company moving to brighter future! BUM SEO

Bumseo Co., Ltd.

ompressor and pulley for automotive air g system

Promising SMB Company

Syeongbuk SMB Export Support Center)

First-class Quality Company by Kdac

nt ESTRA Automotive System)

NO-BIZ Company Certification

ord System Audit "A" Grade

O/TS 16949: 2002 Certification (Germany DQS) the Production Information System Manufacturing Solution)

ind relocated to the new plant in Seongseo ial Complex Star Company" by Daegu Metropolitan City

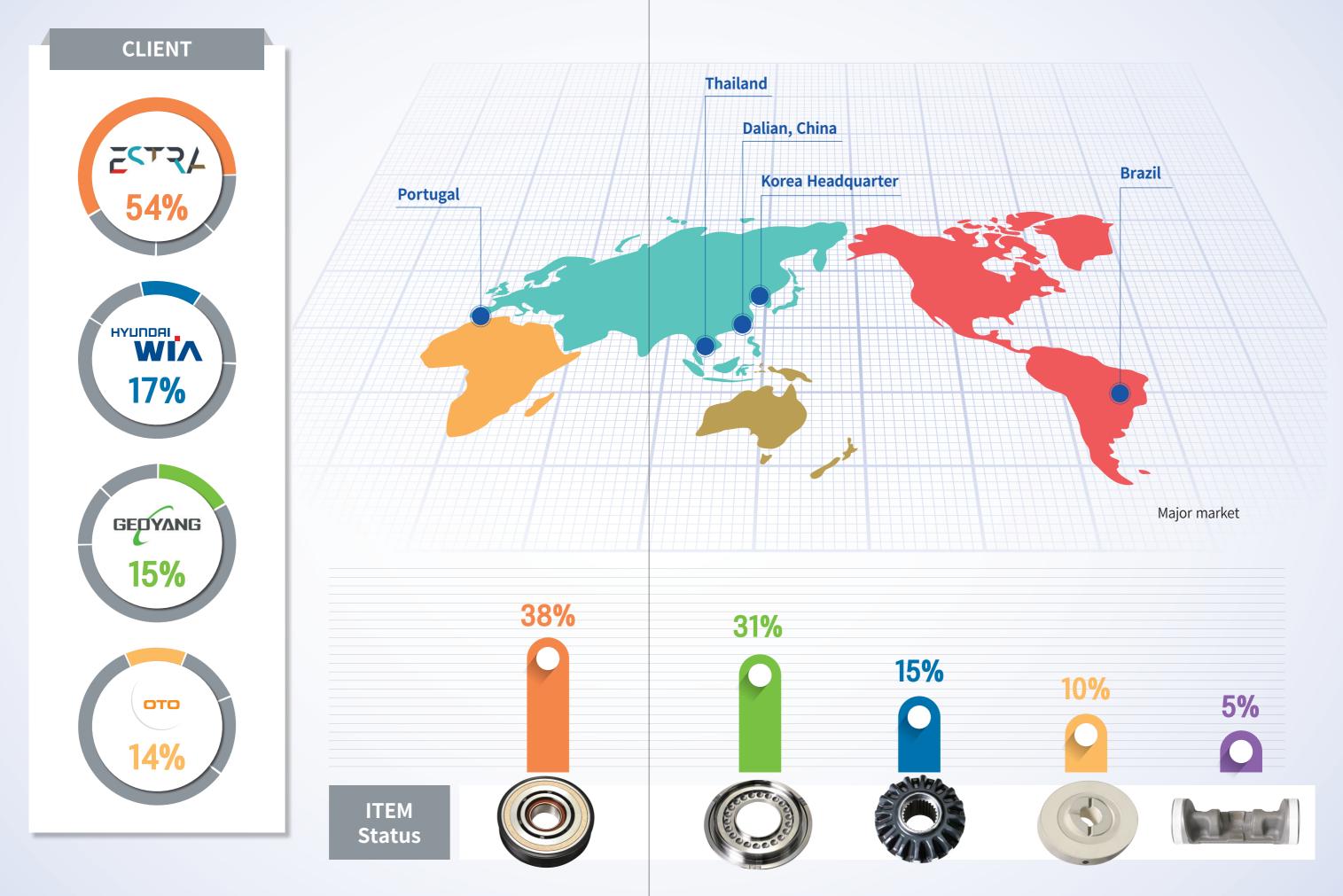
"Venture Company"

SQ Certification ty System for Machining) to washing machine in-house.

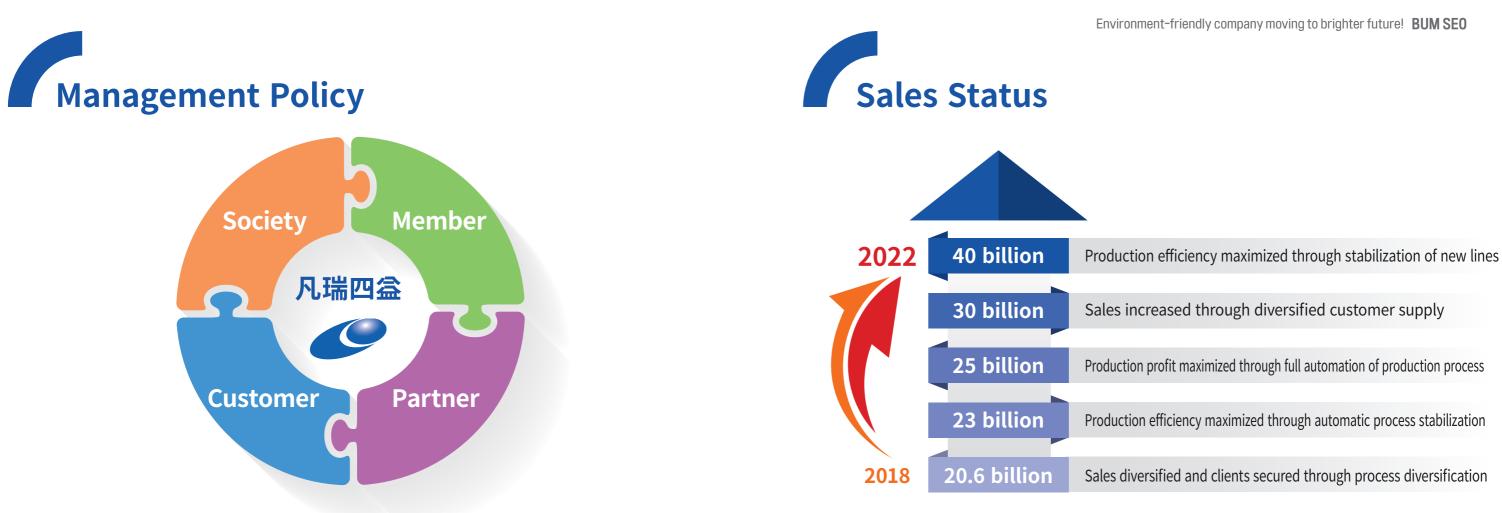
C lathe auto loader in-house. technology innovation development task (scroll) C lathe 3-axis gantry in-house

e Patent for Self-aligning Bearing Indenter

e Patent for Bearing Indentation System.

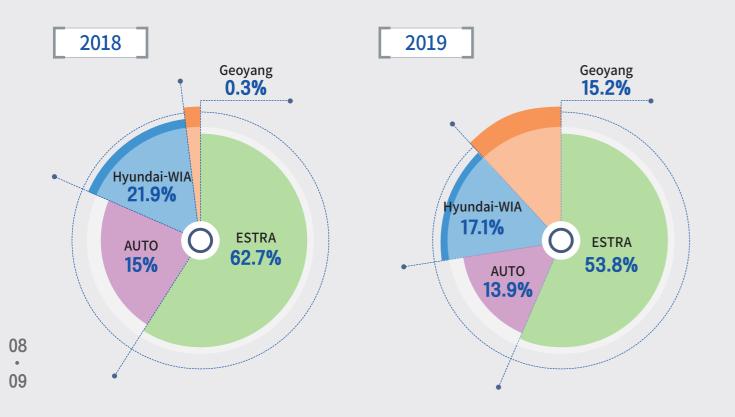


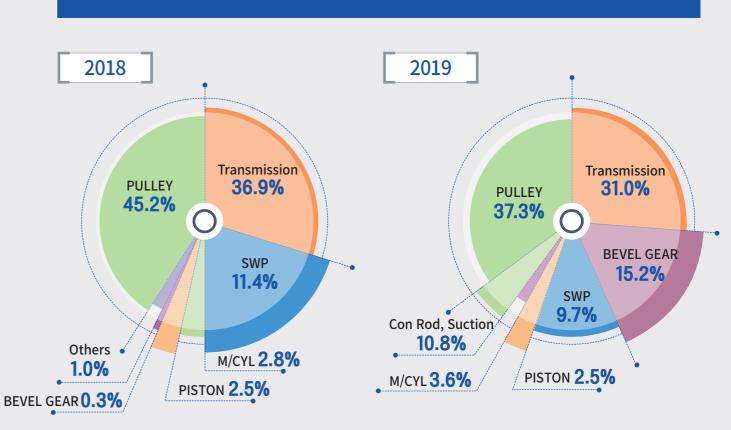
Environment-friendly company moving to brighter future! **BUM SEO**



Variation in Customer Sales in 2019 compared to 2018







Listh Line oi Lollon

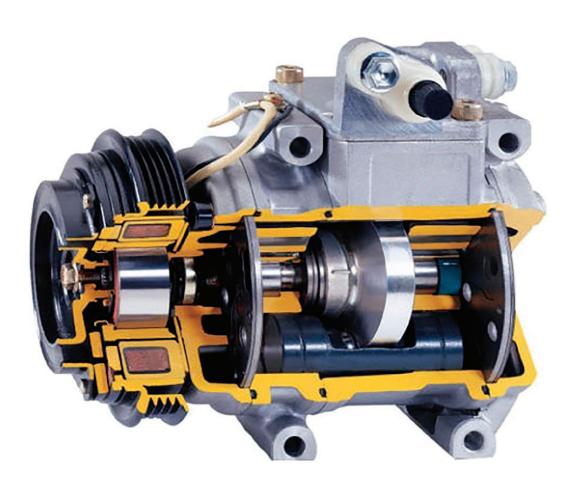
0)

Based on efficient product management system and automated process, we will produce more reasonably priced and high-quality products to meet the delivery deadline set by customers.

-

PRODUCT

A/C Compressor **For Automotive**

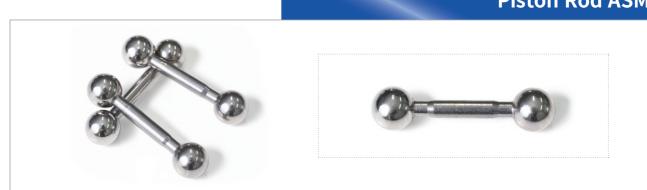


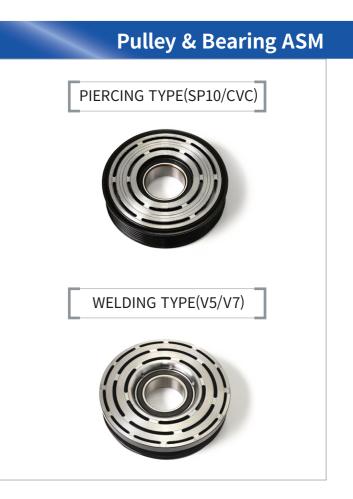
FACING TYPE (SP15/17)





| 6CVC Piston | Coated Piston |
|-------------|---------------|
| | |
| 6CVC Piston | Coated Piston |





Piston & Ring ASM



Piston Rod ASM

PRODUCT

A/C Compressor **For Automotive**











CYLINDER ASM

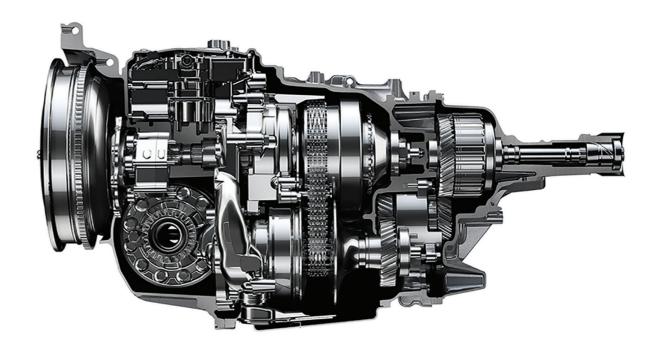


PRODUCT

Differential Gear For Automotive

PRODUCT **Automatic Transmission**









PRODUCTION EQUIPMENT

Possessing the Technology to Produce and Manufacture Automated Equipment!!

Auto Loader & Robot Automation Equipment



Gantry Automatic Equipment



Automatic Washing Equipment



Automatic Inspection Equipment





INSPECTION EQUIPMENT

Possessing Precision Measuring Equipment to Secure Quality Competitiveness!!

Inspection Equipment Status

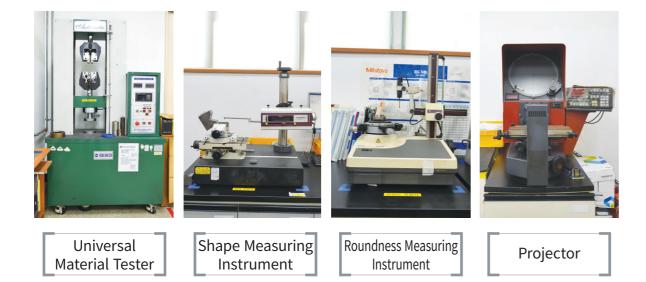


3D Measuring Instrument

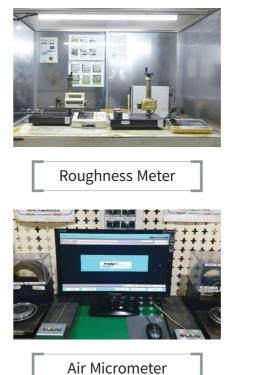
2D Measuring Instrument

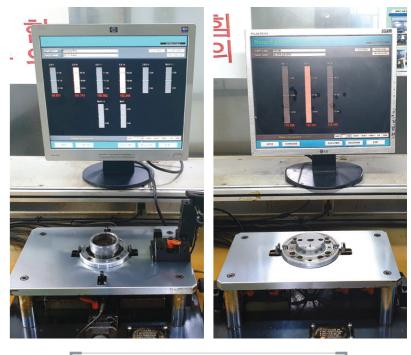
Vickers Hardness Tester

Rockwell Hardness Tester



Inspection Equipment Status



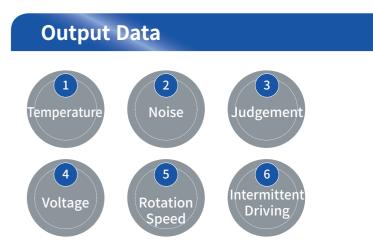


Performance Tester

Equipment to test the durability of automobile compressor and the combination of pulley, coil and clutch separately.



Electric Measuring M/C



Manufacturing Facility Status

Patents and Certificates

| Facility name C.N.C Lathe C.T & Tapping Center | Quantity 84 | Details LYNX-220A-NT, KIT-4500 etc | Remarks | A CONTRACTOR OF A CONTRACTOR O | 19443-880-size-size-size R 2001015 6 DIGIHI (2017) D. OLTUBL | | A 3965890 8 |
|--|------------------|---|---------------------------------------|--|---|--|--|
| | 84 | IYNX-220A-NT KIT-4500 etc | | | | | |
| 2.T & Tapping Center | + | | | s s manage manage | 기업부설연구소 인정서 1. 명 3 소 방 범시 과용하고 (요수지방: (여제비) 2. 소 광 강 영양해스 방산 회사대회인은 3세 | | 벤처기업확인서 |
| | 25 | ACR-V400, VX380TD etc | | | 3. 42 변화 2000 (##689 : 2007 미래창조과학부 | Ţ | 대 표 지 : 88-7 쇼 제 지 : 0-2040 547 8448598.34 확 인 8 명 : 가용다자용가입가정지하지) 해 가 가 관 : 가용자유가입 에 가 가 관 : 가용자유가입 이 요 지 가 관 : 가용자유가입 이 요 지 가 관 : 가용자유가입 |
| Press | 5 | 10ton, 15ton | Hydraulic | | '기초반구진동 및 기술계발가원에 분한 법률, 제44.6, 같은 및 시험적 해외도리방 및 제22.8.1만에 대하 위하 같이 기업부질단구소로 인생합니다. | | 위 업체는 벤처기업육성에관한특별조지별 제25조 규정에 의해에 벤처기업임을 확인합니다. |
| Broach M/C | 2 | 12ton | КМ Тес | | 27050 48 58 2707316786822 | | 2018년 66월 27 |
| Welding M/C | 1 | Specialized M/C – 10RT | Projection(400KVA) | | | - | ····································· |
| Grinding M/C | 1 | GUN-35 | | | ETensor excession and an | | |
| riction Bonding M/C | 2 | High Frequency Radio Heating | 25KVA | | | | 특허증 created in Albert |
| iston Rod ASM M/C | 1 | Welding, Grinding, Washing etc | | | 496 | | 4 H N 10-1682567 B |
| Suction Screen M/C | 1 | Front Spot Welding | | | eas much make und | | 8573 43-2050-2018255 2 857 20152 10-2102 858 20152 10-2102 858 20152 10-2102 958 20152 2019 958 2017 958 20000 |
| 5 | | | | | ere an anna anna anna an anna an anna an an | The state of the s | 주요년의 1000년 주요년의 북산(1912)) 부산(2년 북산(1912)) 일양(2년)2년) 일양(2년)2년) 일양(2년)2년. 일양(2년 11, 1888) 2012), 문란(1849) 410() |
| on Manufacture Line | 3 | Specialized M/C – Machined | Al Forged Machining | | 위의 일명은 '독취업,에 대하 특위율유원부에 등유의권을 방법입니다. This is unify the, is associate with the Nater Act, a patent for the investion he have replaced at the Grane Indicated Report Office. | | 위의 발명은 '특이업'에 다친 특히들특별부에 등록되었음을 6 This is to certly that, in accordance with the Patent Act, a patent for t has been registered at the Konea Intellectual Property Office. |
| iston Assembly Line | 2 | Specialized M/C – Assembly | Ring Assembly | | 지 아이 | | AND IN THE CARE NOTION OF A STATE |
| | | | | | | 4 | |
| | | | | | | | |
| s S | ction Screen M/C | ction Screen M/C 1 n Manufacture Line 3 | ction Screen M/C 1 Front Spot Welding | ction Screen M/C 1 Front Spot Welding n Manufacture Line 3 Specialized M/C – Machined Al Forged Machining | ction Screen M/C 1 Front Spot Welding n Manufacture Line 3 Specialized M/C – Machined Al Forged Machining | ton Rod ASM M/C 1 Welding, Grinding, Washing etc ction Screen M/C 1 Front Spot Welding n Manufacture Line 3 Specialized M/C – Machined Al Forged Machining | ton Rod ASM M/C 1 Welding, Grinding, Washing etc Image: Comparison of the second |

Patent Status

| Contents of Patents and Utility Models | Acquisition Date | Patent Number | Remarks |
|---|------------------|-----------------------|---------|
| Fieldcore Assembly Bobbin | 2010. 06. 14 | Patent No. 10-0965228 | |
| CNC Lathe Workpiece Automatic Feeding and Drawing Unit | 2013. 08. 08 | Patent No. 10-1296872 | |
| Piston for Vehicle Air Conditioning Compressor | 2014. 11. 10 | Patent No. 10-1462244 | |
| Piston Ring Coupling Structure | 2015. 02. 23 | Patent No. 10-1496772 | |
| Self-aligning Bearing Indenter | 2016. 11. 29 | Patent No. 10-1682562 | |
| Bearing Indentation System | 2018. 02. 14 | Patent No. 10-1831145 | |









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