

SHINWOOSHIN

Automotive parts with innovation and smart factory

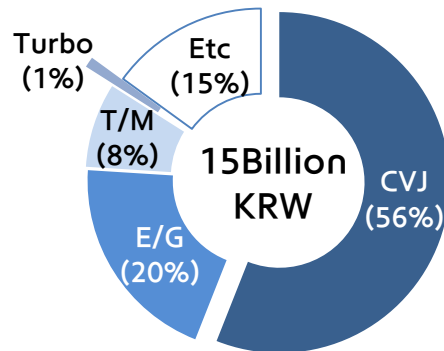


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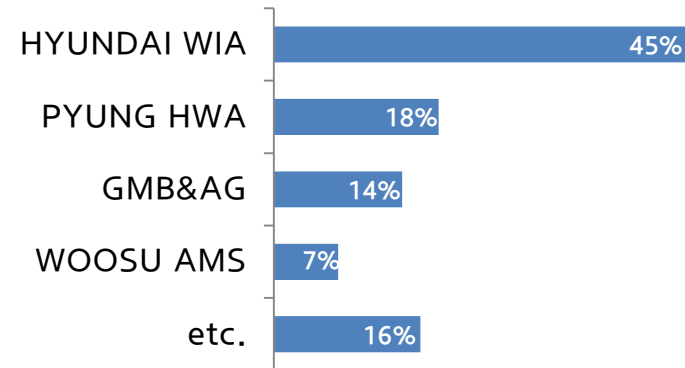
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Name	ShinWooShin Co., Ltd.	Sales	KRW 15Billion ('18)
President & CEO	Ji-Woo Lee	Credit Ratings	BBB ('17)
Establishment	2001. 9. 25	Total Workforce	63 employees
Business Type	Automobile Parts (Clamp Band, Press, etc.)	Customer	HYUNDAI WIA, PYUNG HWA, etc.

■ Product distribution



■ Customer distribution



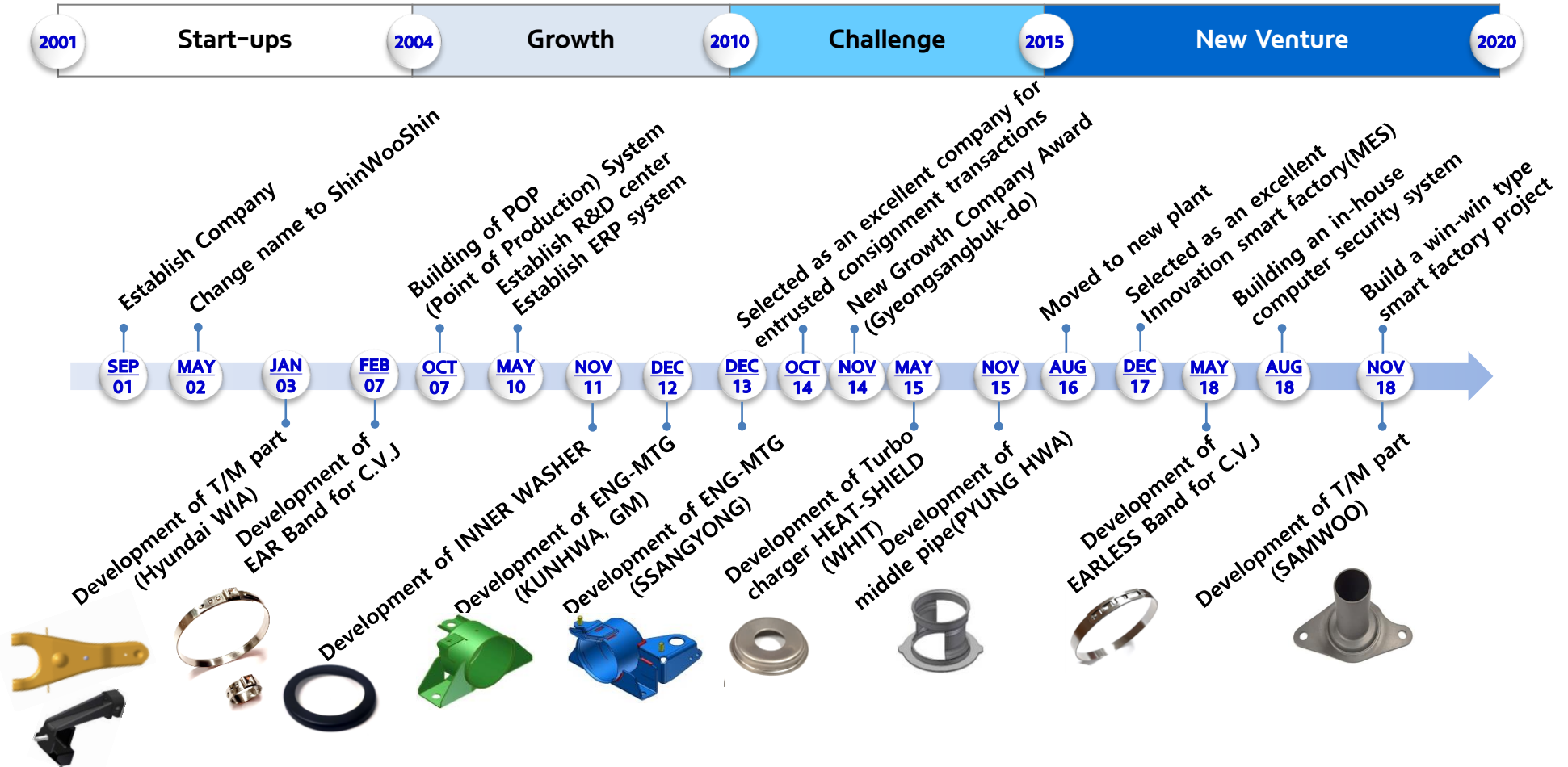
■ Customers



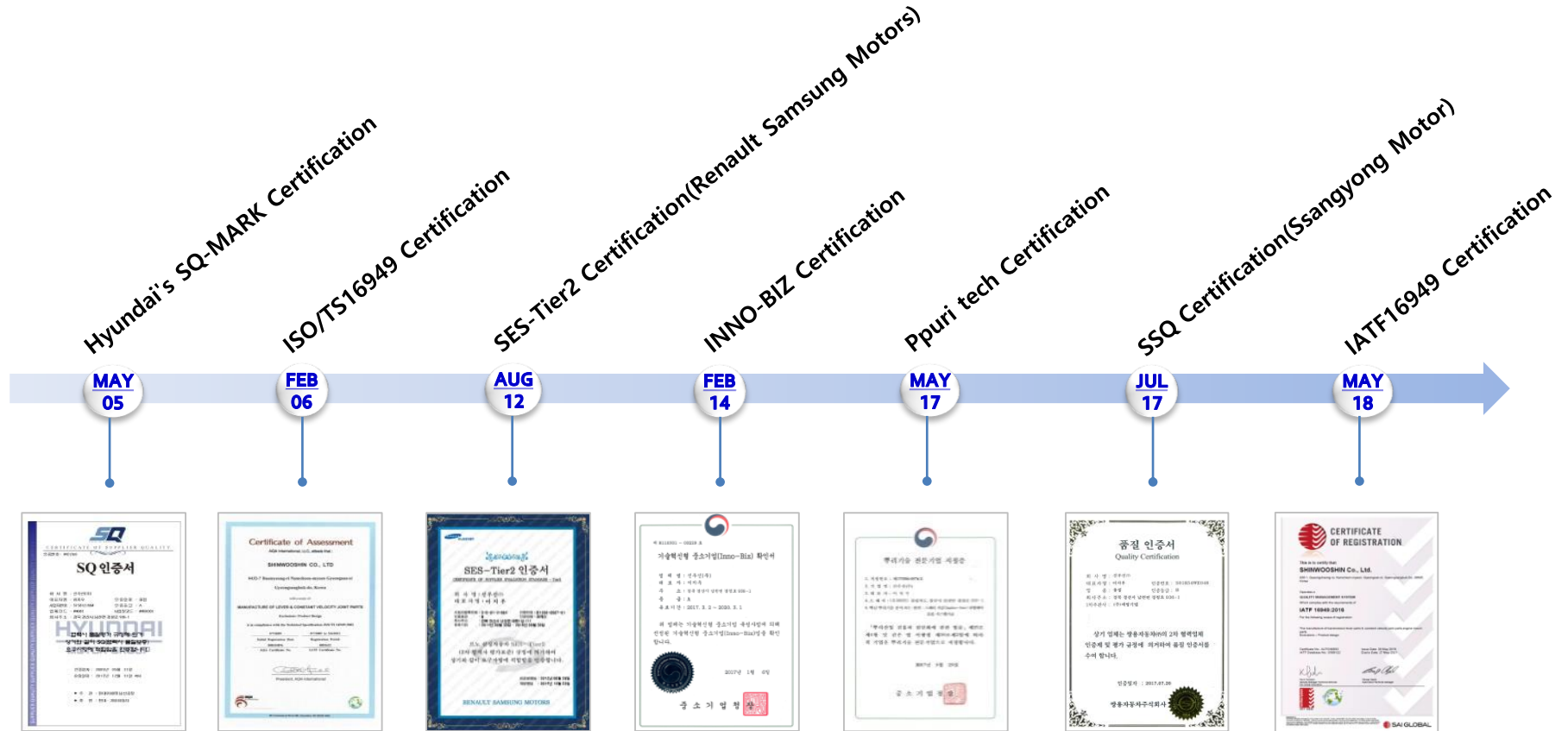


Shin (新) *Newly*
Woo (又) *Renewed every day*
Shin (信) *Unlimited trust for our customers*

Steady *Sustainable Systems*
World-best *With the best quality & technology*
Solution *Provide expertise to customers*

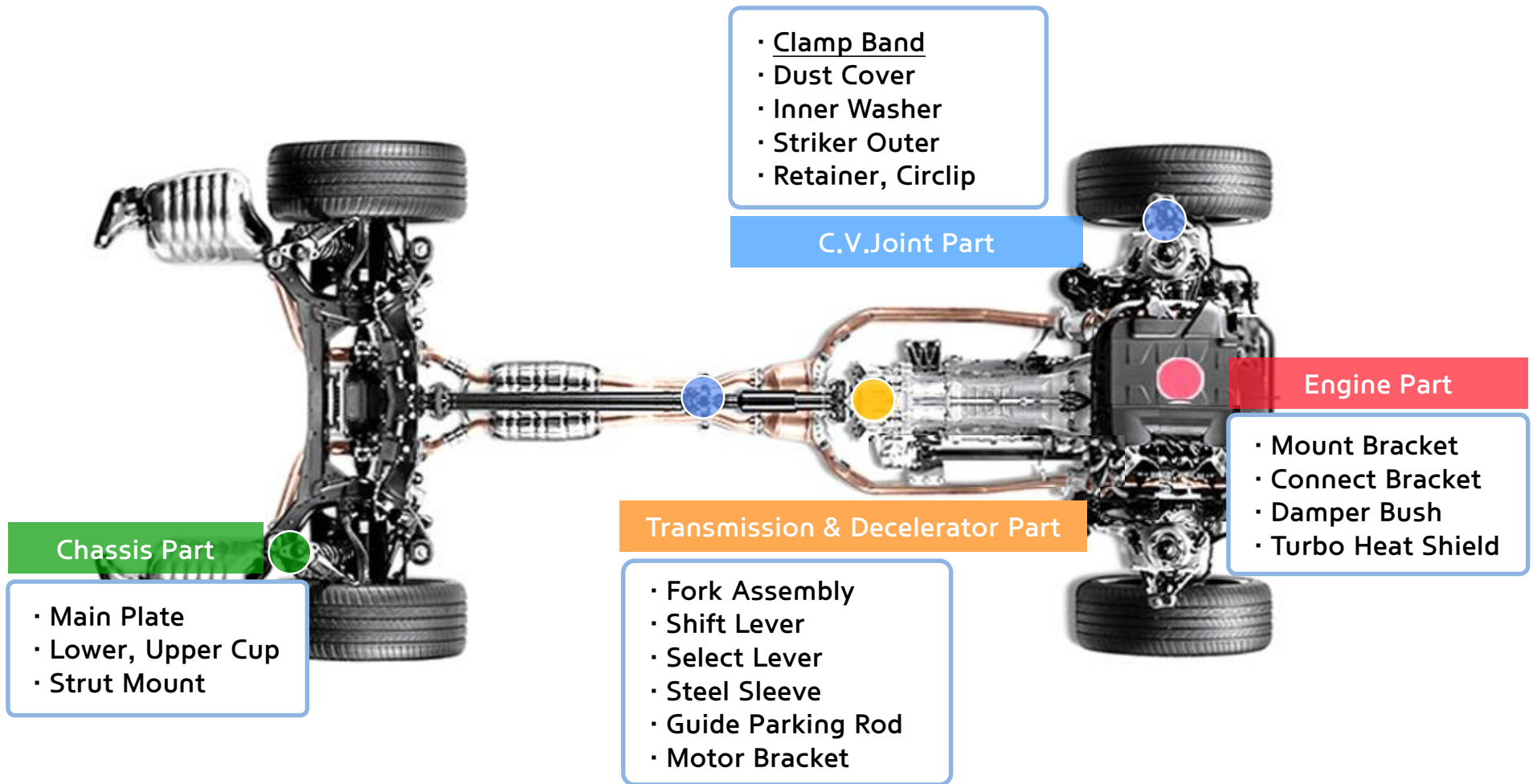


Certification Status



- JUL.06** ■ [Utility] Clamping Band (20-0421736)
- JAN.07** ■ [Design] Tone Wheel for Vehicle (30-0438382)
- JAN.07** ■ [Design] Tone Wheel for Vehicle (30-0438384)
- MAY.08** ■ [Design] Clamping Band (30-0492260)
- APR.10** ■ [Utility] Material transfer structure (20-0448426)
- AUG.10** ■ [Patent] Processing for Tone Wheel (10-0979965)
- NOV.10** ■ [Patent] Manufacturing device for Tone Wheel (10-0996436)
- AUG.13** ■ [Design] Clamping Band (30-0707402)
- OCT.16** ■ [Design] C.V.Joint Clamping Band (30-0876275)
- OCT.16** ■ [Design] C.V.Joint Clamping Band (30-0876276)
- DEC.16** ■ [Design] Clamping Band (30-0884844)
- DEC.16** ■ [Patent] Clamping Tool (10-1684783)
- APR.18** ■ [Patent] Clamping Band for Clamping the C.V.Joint Boot (10-1854293)







C.V.Joint Part



Steady
World-best
Solution



C.V.Joint Assembly



Clamp Band



Inner Washer



Dust Cover



Sensor Ring



Striker Outer Retainer, Circlip



Inner Shaft



Cross Groove Type



Heat Protector



Dust Cover

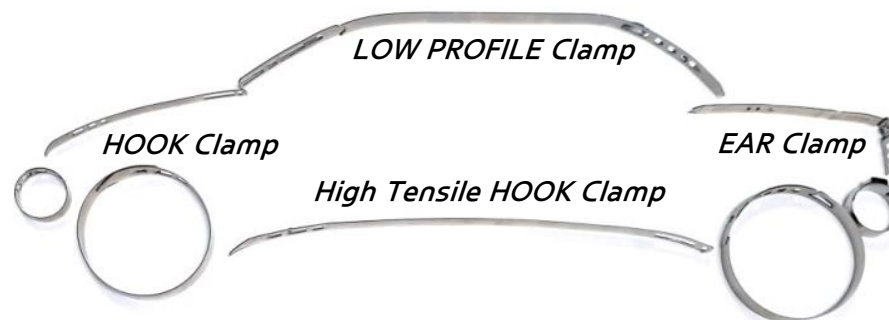


Adaptor



Back Cover

■ Clamp Band



LOW PROFILE Clamp

Close Dia.	Thick.	Band Width
$\Phi 70.6 \sim \Phi 101.0$	0.8	10

HOOK Clamp

Close Dia.	Thick.	Band Width
$\Phi 27.1 \sim \Phi 100.8$	0.4 ~ 0.5	7



Stepless EAR Clamp

Open Dia.	Thick.	Band Width	Ear Width Inside
$\Phi 27.0 \sim \Phi 531.1$	0.8 ~ 1.0	10	10

High Tensile HOOK Clamp

Close Dia.	Thick.	Band Width
$\Phi 71.1 \sim \Phi 101.6$	0.7	10



Transmission & Reducer part



Fork Assembly



Shift Lever



Select Lever



Steel Sleeve



Transmission



Transaxle



Reducer



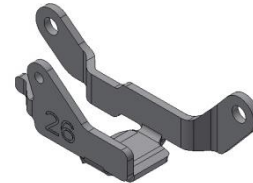
Motor Bracket



Control Lever



Cable Bracket



Guide Parking Rod



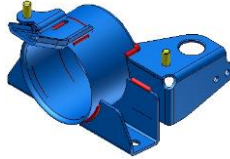
Manual Lever



Engine & Turbo charger part



Mount Bracket



Outer Ring



Core



Rod



Engine



Turbo charger



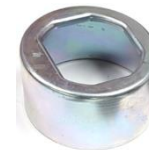
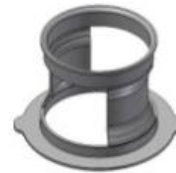
Lower Insert



Outer Sleeve



Middle Pipe



Sleeve



Heat Shield





Chassis & etc.



Main Plate



Lower Cup



Upper Cup



Side Bracket



Main Case



Sleeve



Suspension



Propeller shaft



Steering gear



Hose Bracket



Seat Damper Bracket

Press Line Overview



Press Robot Line



Press Line (L)



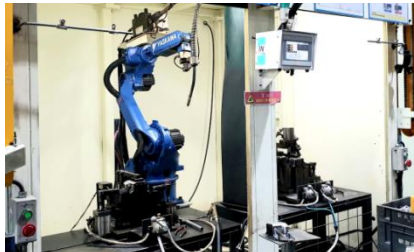
Press Line (S)



Roll Forming Line



Welding Line



Fool Proof Line



Assembly Line



Band Line 1



Band Line 2



Coiling Line



Measure & Test room



**3D Coordinate
Measuring Machine**



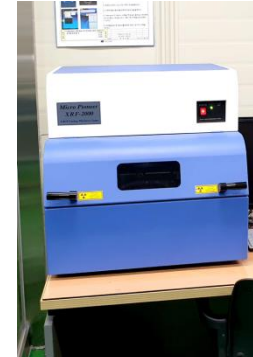
**Video Measuring
System**



**Shape Measuring
Instrument**



**Coating Thickness
Gauge**



Salt Spray Tester



**UTM &
Band Extend tester**



**Band Contact
Stress Tester**



**Band Clamping
Force Tester**

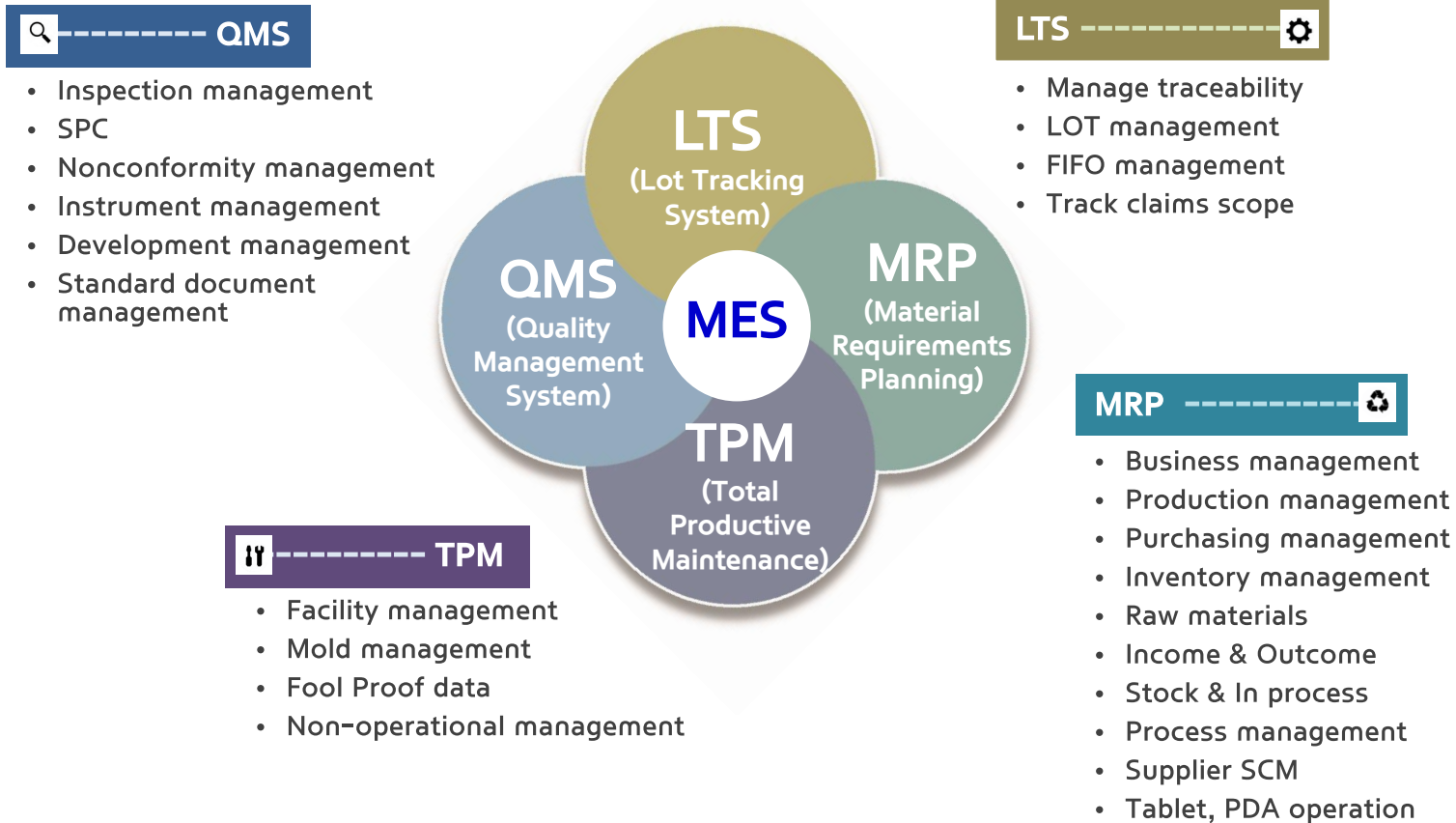


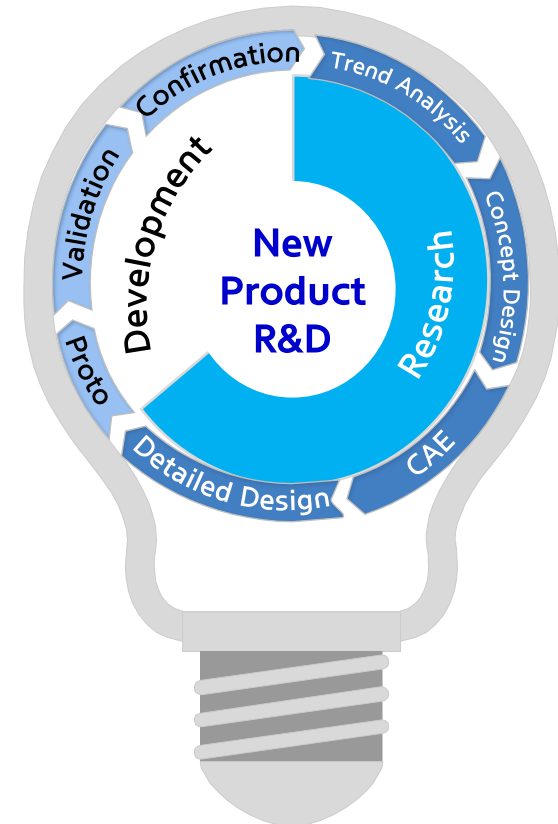
**Impulse Air Leak
Tester**



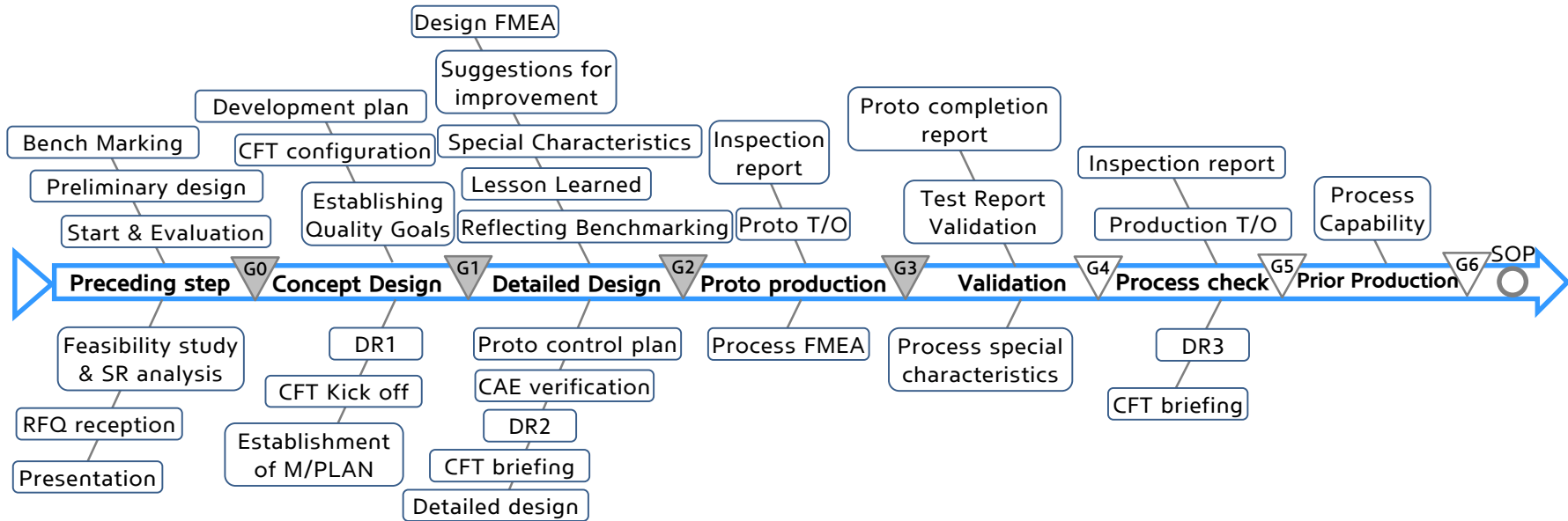
**Complex Environmental
Strength Tester**



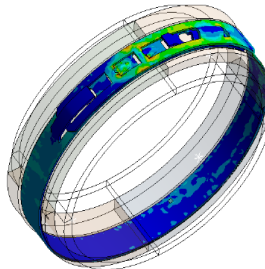
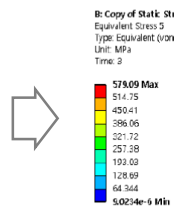




■ APQP Fish Bone



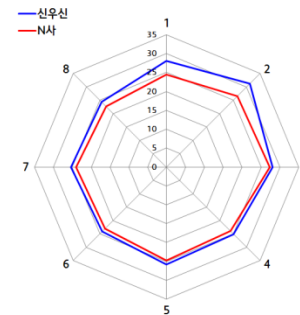
Design



CAE

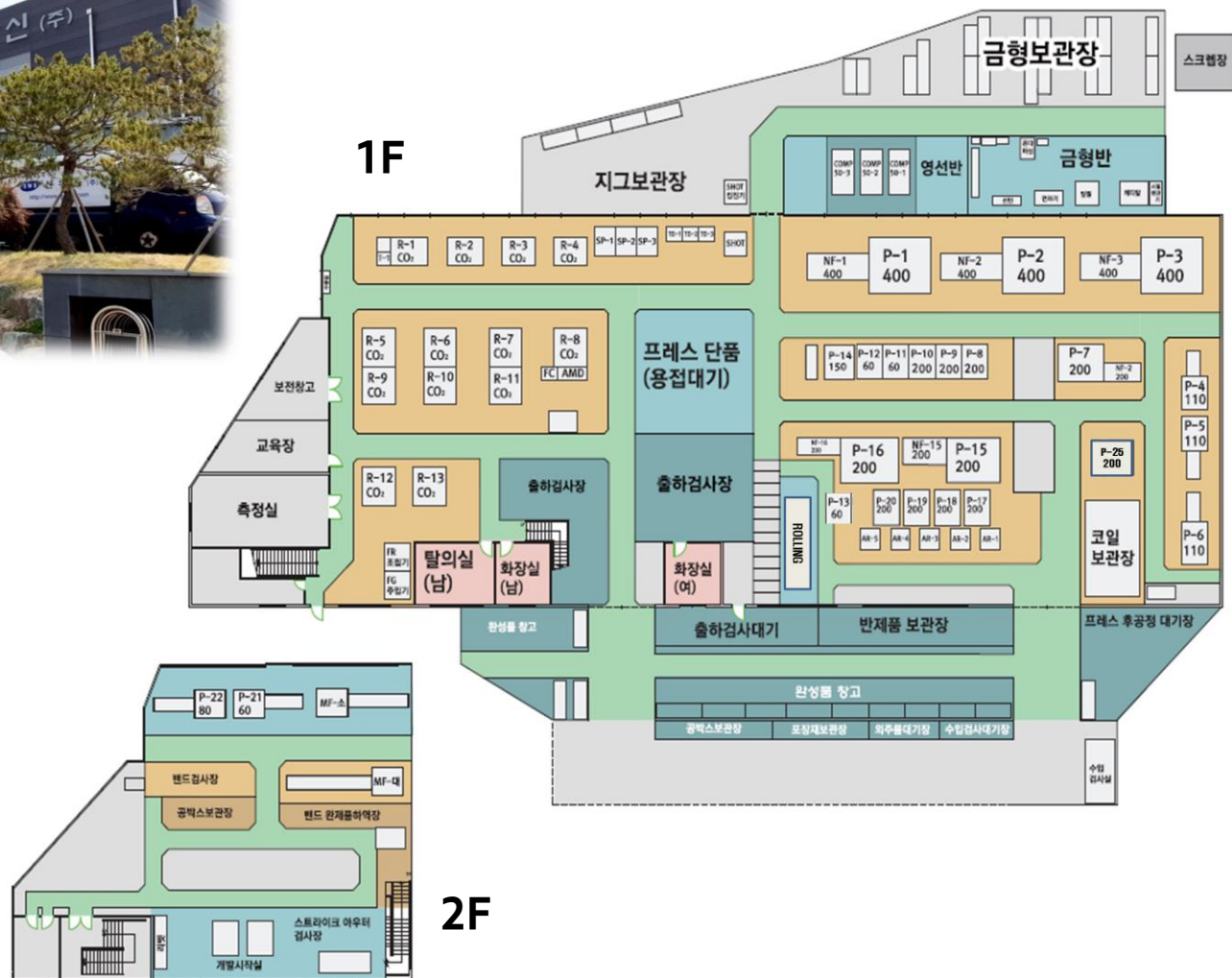


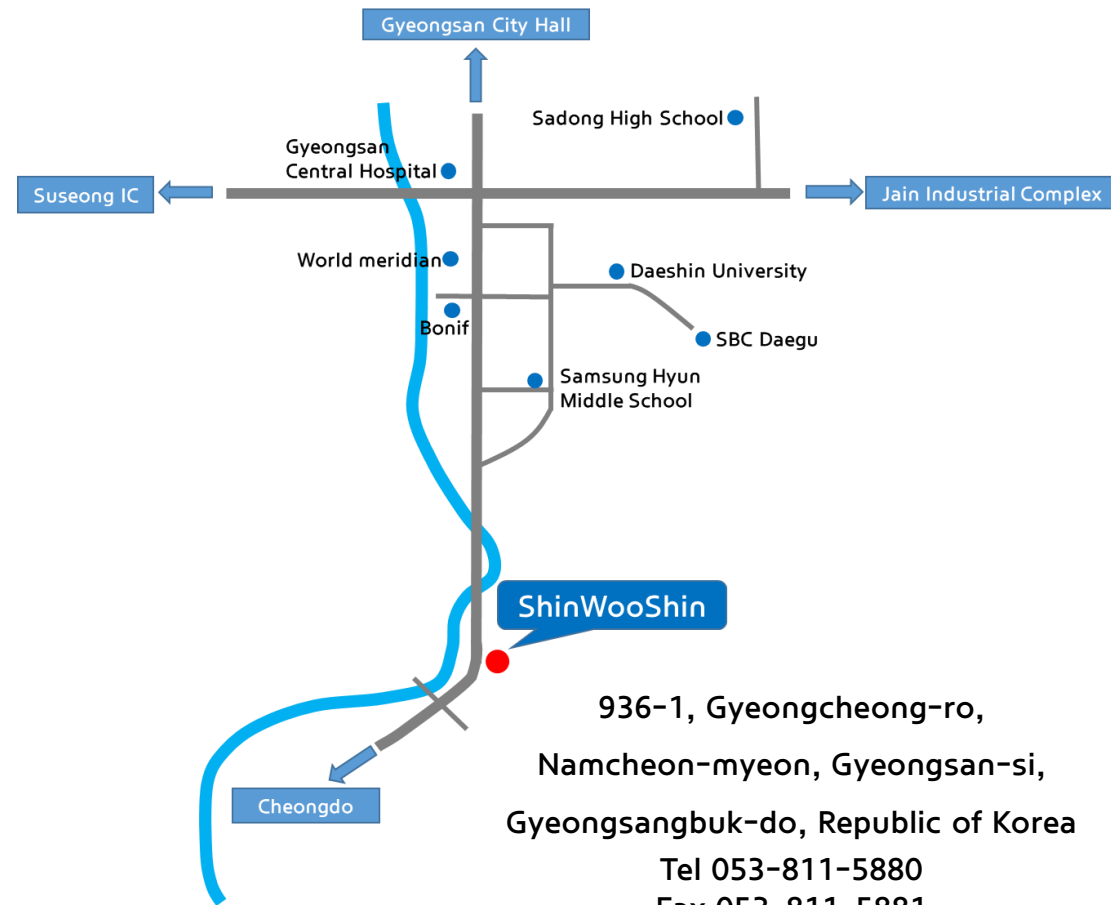
Proto & Validation



Design Fix

Plant View & Lay-out





Thank you

 **ShinWooShin Co., Ltd.**

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