PSYLOGIC COMPANY PROFILE

2019

PSYLOGIC INC.



COMPANY PROFILE

1. COMPANY : PSYLOGIC INC (SINCE 2008. 1. 2)

2. CEO : Ph.D. TAEHWI LEE.

3. ADDRESS : Psylogic Building 5F, 41, Jungbodae-ro 447,

Youngtong-gu, Suwon-si, Gyeonggi-do, SOUTH KOREA

4. CARRIER : AUTOMOTIVE TESTING

DIGITAL SIGNAL PROCESSING

NVH APPLICATIONS

SYSTEM DESIGN

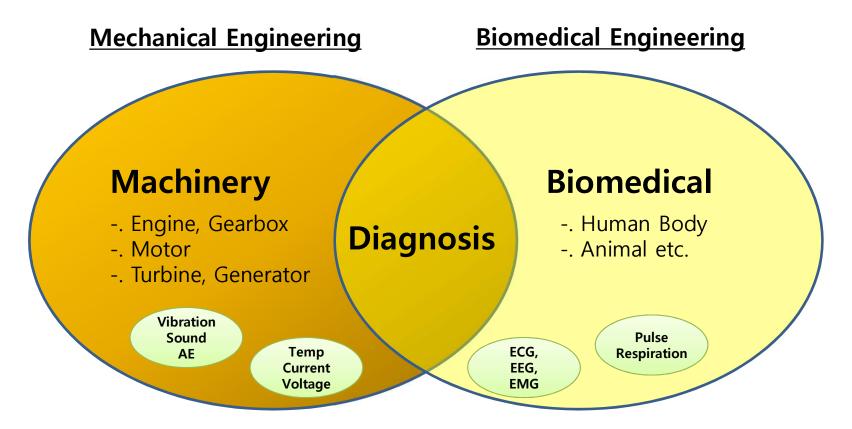
SOFTWARE ENGINEERING

(VISUAL C++, LABVIEW)





BUSINESS MODEL

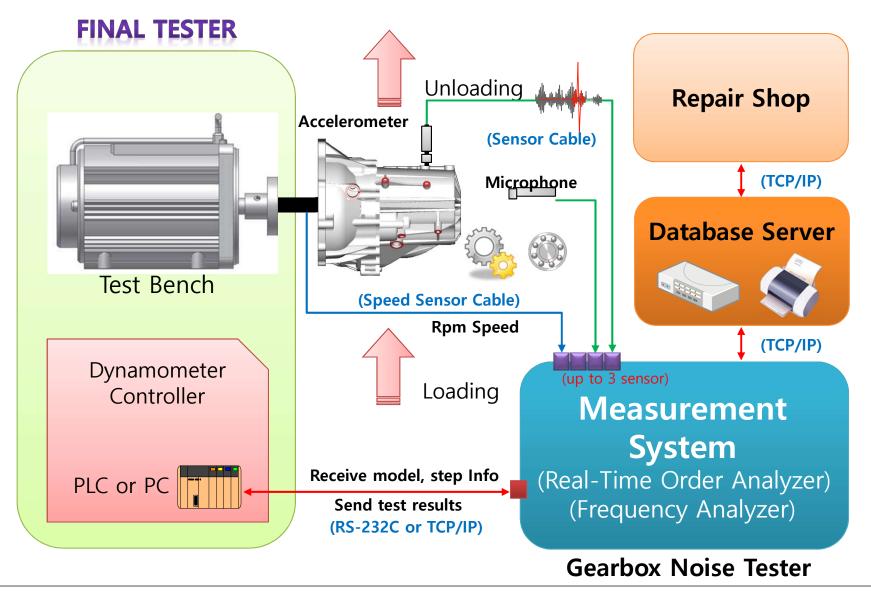


- (1) Sound & Vibration Measurement System
- (2) Engine, T/M, Motor, Wind Turbine
- (3) Vibration Monitoring System

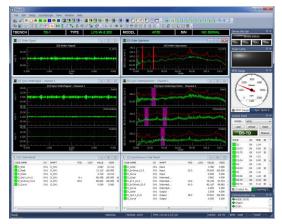
- (1) Biomedical Signal Measurement(ECG, EMG, EEG)
- (2) Magnetic Resonance Elastography



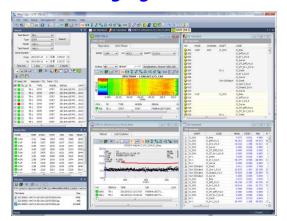
[1] Inline NVH Inspection System (iNisys)



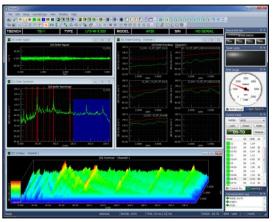
[1] Inline NVH Inspection System (iNisys)



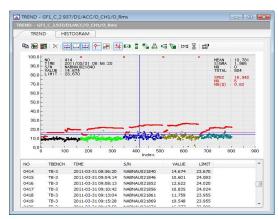
Revolution Synchronous Averaging Method



Database Application (MS-SQL, Statistics)



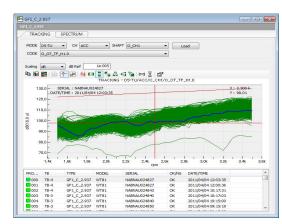
Order Tracking (whine noise)



Trend & Histogram



NG Position Display



Overlap Analysis (Order Tracking, Spectrum)



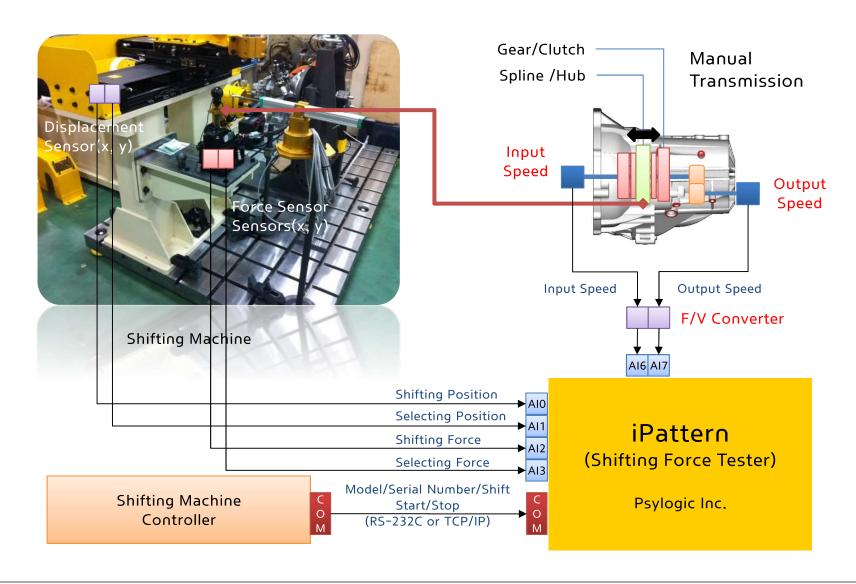
[1] Inline NVH Inspection System (iNisys)

- 6 country, over 90 Sites, over 300 systems installed
- Korea, USA, China, India, Czech, Mexico, Australia

Psylogic's Customer HYUNDRI NEW THINKING, NEW POSSIBILITIES. HYUNDRI POWERTEC DYMOS RENAULT NISSAN RENAULT

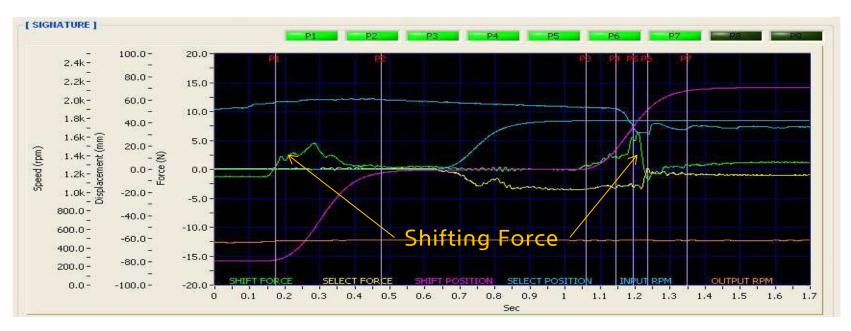


[2] Synchro Test Machine (Manual Transmission)

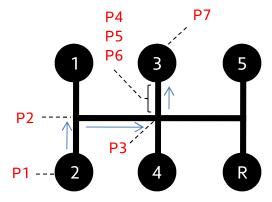




[2] Segmentation Definition

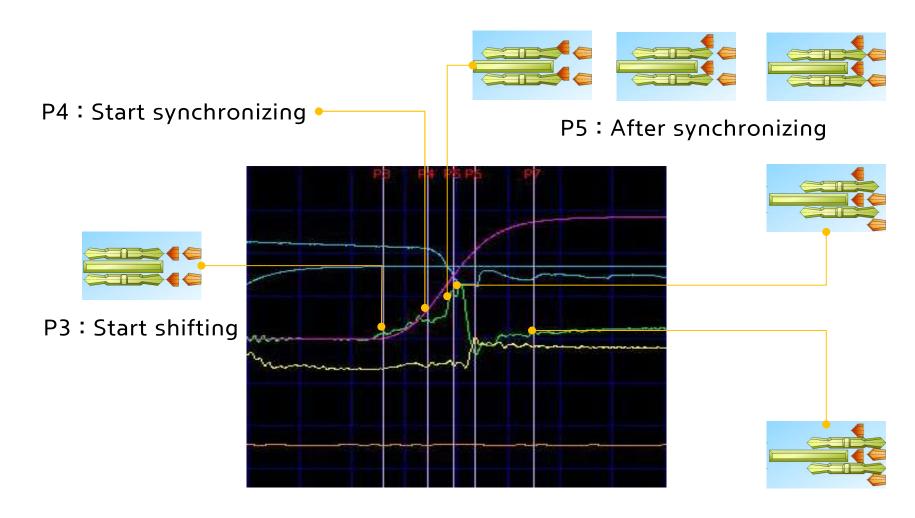


Period	Description			
P1	Previous Shifting Step			
P2	First Neutral Position			
P3	Second Neutral Position			
P4	Starting Position for Synchronization			
P5	Speed Synchronization Position			
P6	Shifting Process Complete			
P7	Shifting End Position			





[2] Shifting In Force



P7: Stop shifting



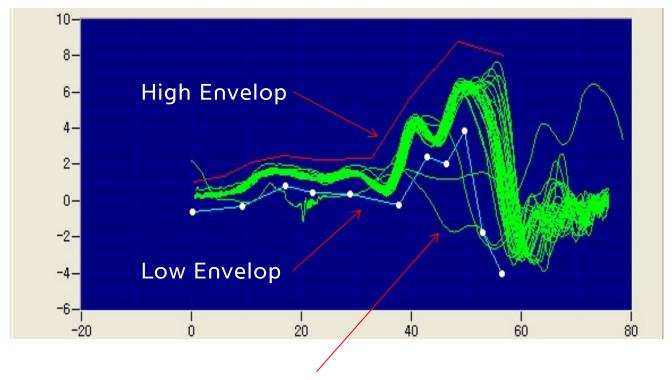
[2] Test Functions (2) - Envelop

(4) Envelop Test

P1~P2: Shift Out Force Envelop

P2~P3: Select Force Envelop

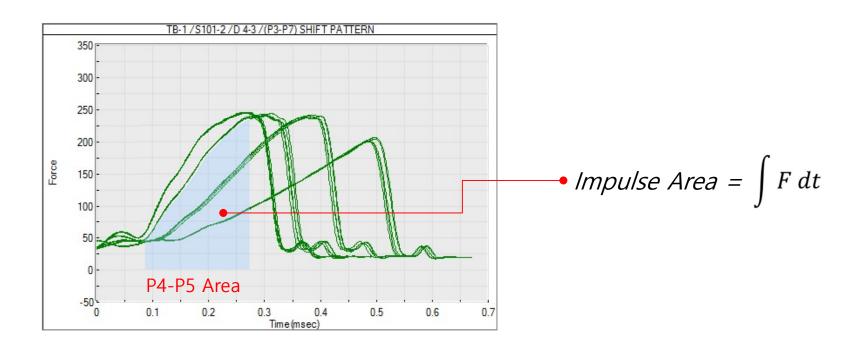
P3~P7: Shift In Force Envelop



Defect Syncromesh Mechanism



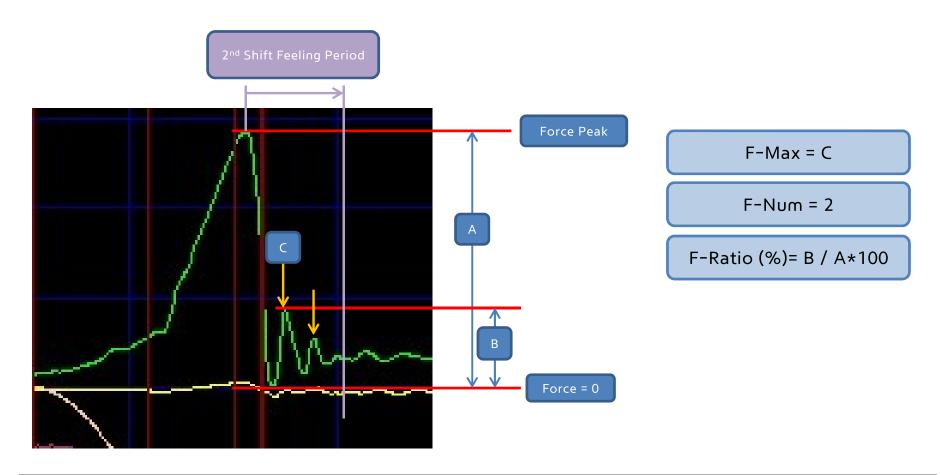
[2] Test Functions (3) - Impulse Analysis



Velocity (mm/sec)	380	280	180	100
D4-3	25.8	28.2	28.3	20.5

[2] Shift Feeling Measurement

- F-Max (Feeling Max)
- F-Num (Feeling Number)
- F-Ratio (Double Bumping Ratio)



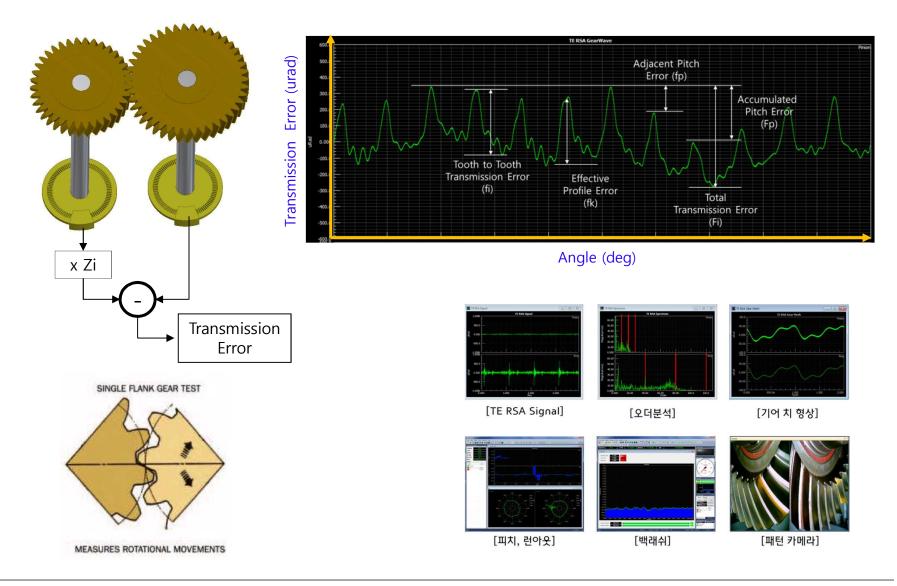


[2] Windows Applications

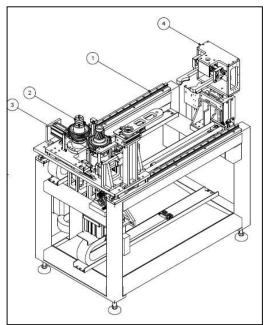




[3] Transmission Error Measurement System (Gear Test Machine)

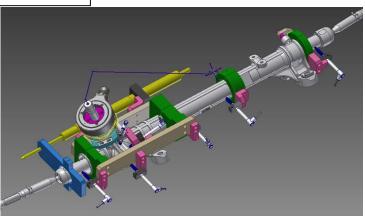


[3] Transmission Error Measurement System











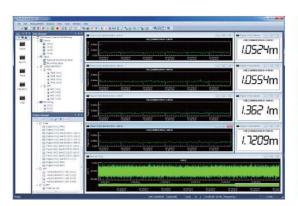


[4] Monitoring Systems (PC or Stand Alone)

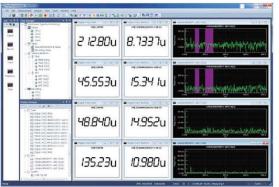


sb-RIO

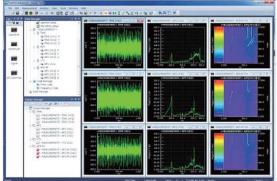






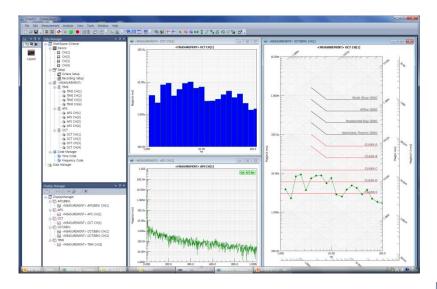








[4] Monitoring System



- 0.1Hz Octave Analysis
- Vibration Nomograph



• Trigger Vibration Monitoring



• SMS send

