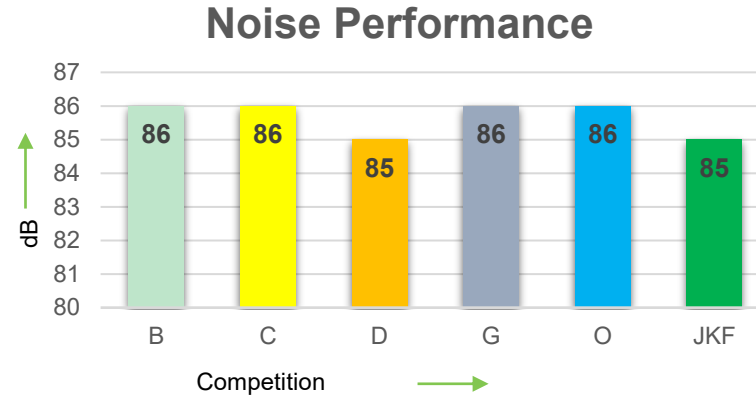
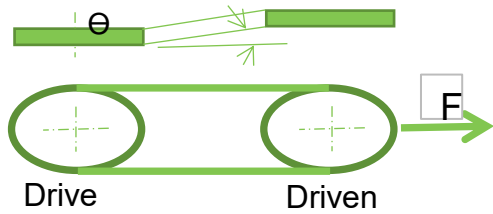
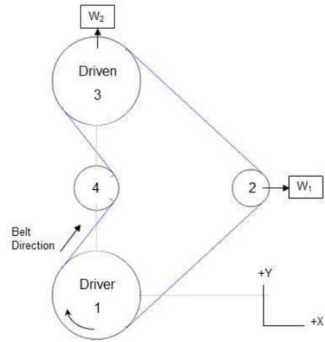
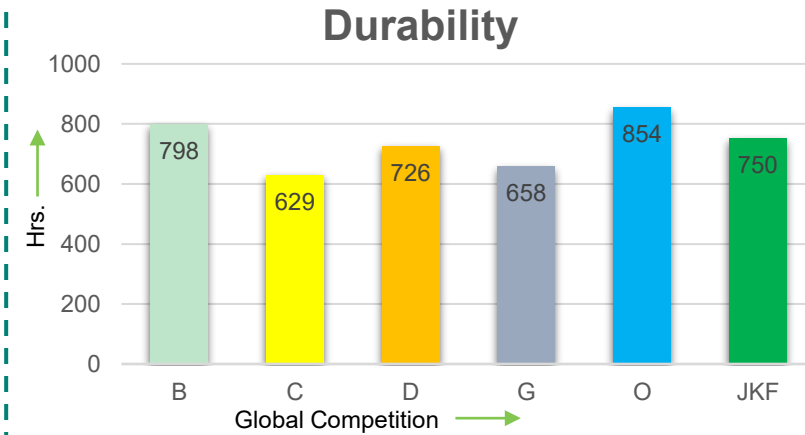


Belt Drive System Benchmarking & Validation capability

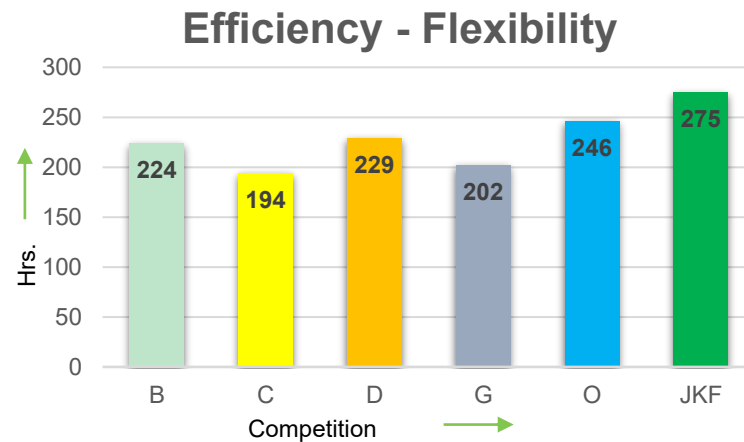
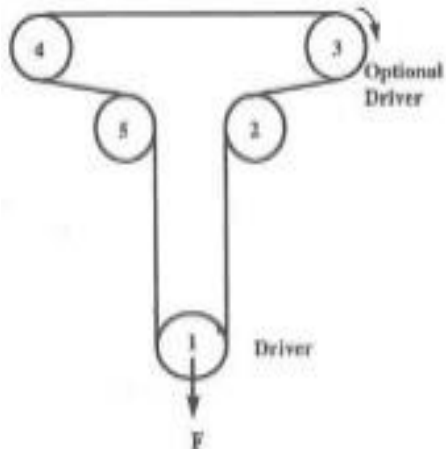
Noise Performance Test:



Durability Test:



Efficiency Flexibility Test:



- Competitor – B
- Competitor – C
- Competitor – D
- Competitor – G
- Competitor – O
- Competitor – JKF

Note: All tests are performed as per **SAE J2432 - 2000**

Conclusion : JKF serpentine belts deliver performance that matches or surpasses leading global competitors.

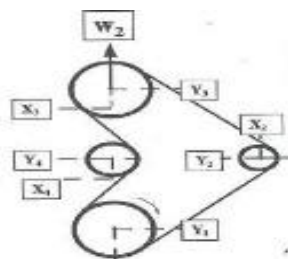
Testing & Validation Capability

Belt Drive System

3 / 4 Pulley Dynamic Life Test :



Test Layout
Poly-V



Test Features

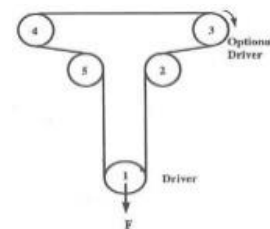
- Predict premature failures related to application.
- Predict & develop correlation between Dynamic life hours to original application in kms.

Applicable standard: SAE J2432, JASO E107

Belt Dynamic Flex Test :



Test Layout



Poly-V

Test condition

- Drive speed, rpm: 3900 ± 100
- Tension load: 80 kg
- Chamber temp.: 130 ± 3 °C

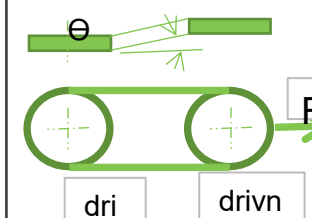
Test Features

- To evaluate the belt characteristics at flex / Bending condition in 5 or 9 pulley configuration.
- Evaluate the dynamic flexibility for serpentine drive application

Belt Noise Test:



Test Layout



Poly-V

Test condition

- Two pulley misalignment Test @ $-20^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Load on belt = 60kg
- Drive Pulley RPM = 3000 ± 50 .

Test Features

- Belt noise properties with 2 pulley misalignment of 0 deg to 5 deg.
- Can evaluate the Noise characteristics of rib rubber in poly-V belt

Belt Torque Slip Test



Test Layout



Test condition

- Chamber Temperature : $20 \pm 5^{\circ}\text{C}$
- Drive rpm: 2000
- Belt Tension: 200N, 400N & 600N

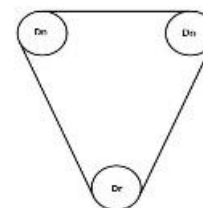
Test Features

- To evaluate noise characteristic under dry / wet
- To evaluate slip% under wet condition
- To evaluate premature failure under small stone

Dynamic Abrasion Test :



Test Layout



Poly-V

Test condition

- Test temperature : $-20^{\circ}\text{C} +10/-3^{\circ}\text{C}$
- Load on belt = 539N (55kgf)
- Drive pulley RPM = 2000
- Test duration = 24hrs

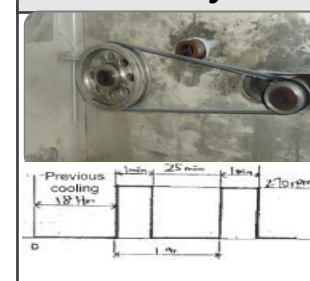
Test Features

- To evaluate the abrasion characteristics of rib rubber(Poly-V) and compressive rubber(Cogged).

Belt Cold cyclic Test



Test Layout



Test condition

- Chamber temperature = $-35 \pm 3^{\circ}\text{C}$
- Load Weight = 294N
- Drive rpm: 270
- Chocking time: 18 hrs
- Cycle run: in every 20 mins

Test Features

- To evaluate the crack proof characteristics of rib rubber(Poly-V) under low temperature

Thank you