Plymouth Machine Integration, LLC

Engineering and Design Consultancy

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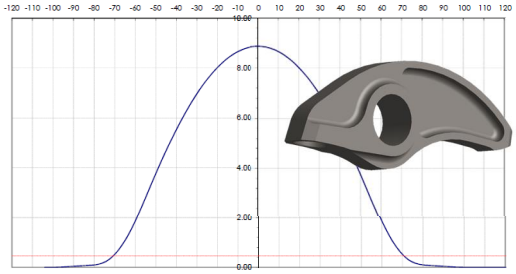
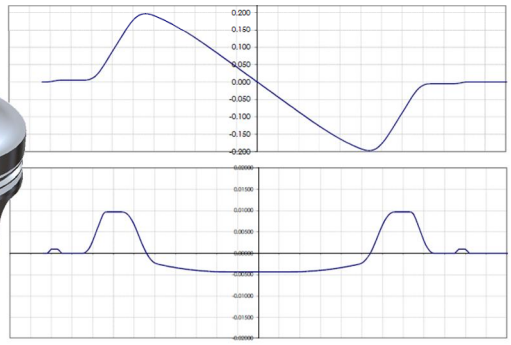
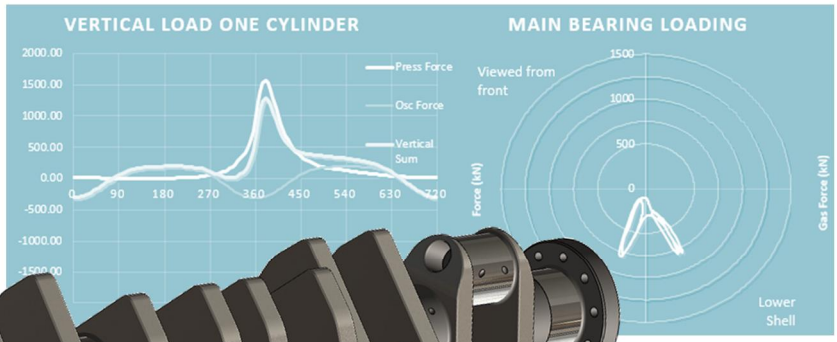




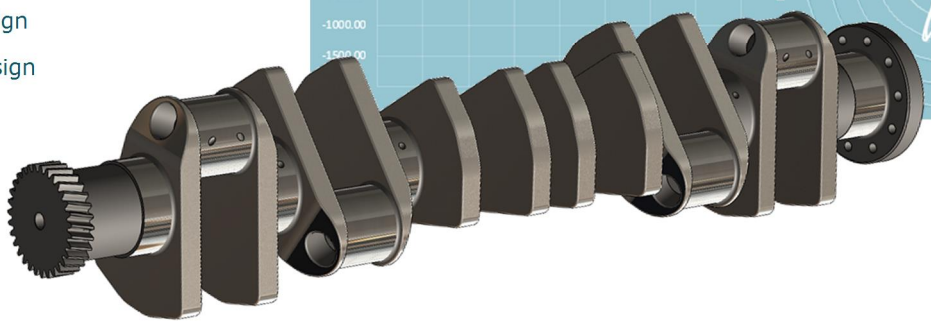
We can help with the following:

- Modeling in SolidWorks including animation and dynamics simulation
- Engineering analysis, FEA, dynamic models from first principles
- Problem solving in design, development, production
- Machine assembly design and development
- Casting design, including double walled
- Manufacturing analysis and troubleshooting
- Wiring loom design and prototye manufacturing
- Machine control software specification and development
- Gearing and gearbox design and analysis




Engine design and development:

- Crankshaft/connecting rods/piston design
- Intake manifold design
- Camshaft profile design
- Valve train
- Performance
- Reliability
- Calibration
- Lubrication system



Extensive and successful experience in open wheeled racing, marine high performance and pleasurecraft including emissions certified, motorcycle engine design and manufacture, and alternative energy and fuels.