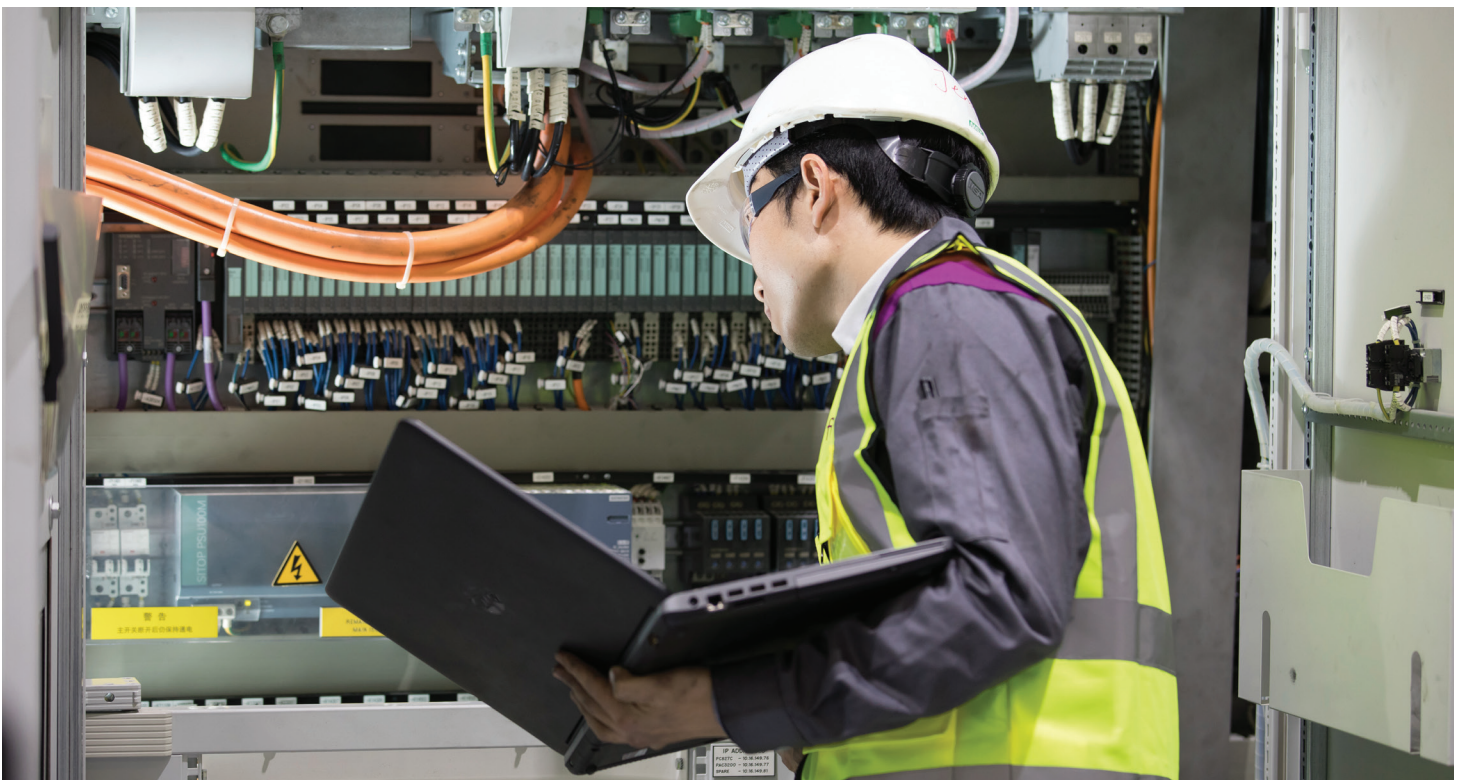**fives**

HIGH PRECISION MACHINES

Dongfeng Honda, China
Landis LT1 cycle time optimization

Using proprietary artificial intelligence GrindXelerator™ software along with experienced experts from the UK and China to optimize parameters of two Landis LT1 camshaft grinding machines

- **Optimized production volumes and quality**

- **Productivity gain estimation achieved: 18.6% cycle time saving (26 seconds)**

- **Responsive service completed within 2 months**

Operation
Optimization
Service
Evolution
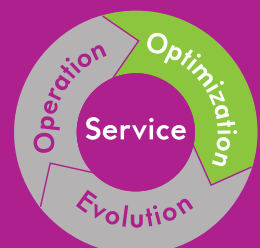
Scope of service:

— Study of the machine's operation and the existing process
— Use of GrindXelerator™ software to define and edit new profiles and parameters taking into account the characteristics of the Camshafts, their material, geometric constraints and DHAC specificities
— Installation and optimization of new parameters

CUSTOMER ID
— Dong Feng Honda Auto Components, Huizhou
— 2x Landis LT1 Cam Lobe Machines
— 5MS-Exhaust Shaft Type
— 13 Lobes Ground Using a Single Rim Wheel
— 1x Pump Lobe Plunge

18.6 %
cycle time saving

+

heat generation reduced by

289 °C

	Before GrindXelerator	After GrindXelerator
Shaft Cycle Time	140 seconds	114 seconds / **26 seconds saved**
Max Surface Heat Generated (theoretical)	**1247°C**	**958°C**
Worst Profile Error (measured)	10.7 microns	10.7 microns

BEFORE   **AFTER**   **BEFORE**   **AFTER**

Workspeed Profile

Surface Temperature
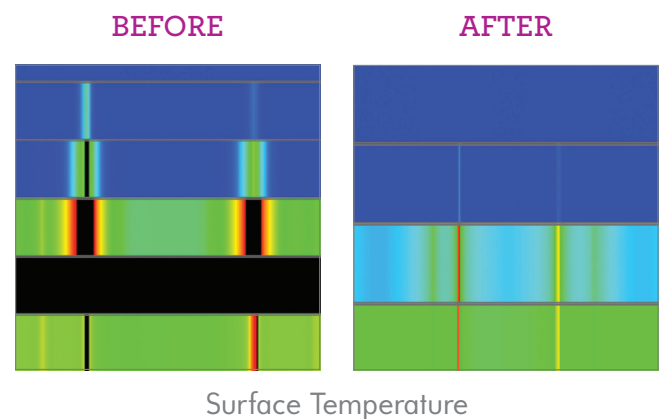
The information provided on this document is for information purposes only and does not constitute a legal obligation or a warranty, express or implied, of any kind.

fives
Industry can do it