Chemtrol® **ACCELERATED FINISHING COMPOUNDS**

ACCELERATED SURFACE FINISHING CASE STUDY:

Custom Cams Inc. of Martinsville VA, (www.customcamsco.com)

Custom Cams Inc. of Martinsville VA, a manufacturer of cam shafts for the racing and street industry, contacted Precision Finishing to improve the RMS finish obtained by their current finishing process. We were able to meet these requirements using Chemtrol® Accelerated Surface Finishing (ASF) compounds.

PROCESS RESULTS

Accelerated Surface Finishing with Chemtrol® combines the benefits of low RMS non-directional mass finishing with chemical accelerants. The chemical accelerants significantly reduce the process time for hardened surfaces compared to mechanical abrasive methods. This reduced process time enables you to achieve a very low surface roughness with minimal metal removal and radiusing of the part.

ADVANTAGES OF ACCELERATED SURFACE FINISHING WITH CHEMTROL®

- Achieve Low RMS finishes without heavy metal removal or radiusing
- Achieve negative skew values by removing surface peaks while retaining micro valleys for lubricant retention
- Refine surfaces to mirror-like brightness and very low surface roughness
- Reduce friction, lower torque requirements and minimize surface wear thereby reducing operating temperatures
- Precision components are imparted with a "Run-In" surface condition
- Increase fatigue life

Precision Finishing, Inc.

708 Lawn Avenue Sellersville, PA 18960 Phone: 215.257.6862

Fax: 215.257.4162

sales@precisionfinishinginc.com www.precisionfinishinginc.com

Chemtrol ASF Process Finishing and waste treatment equipment utilized in the finishing process.





Crankshaft: Viper

Accelerated Finishing Process:

Surface Measurements Of 3rd Rod Journal

START FINISH 5.75 1.39 Ra 42 9.2

Treated Crank Shafts See the difference! Crank shafts treated with Chemtrol Accelerated Finishina Compound.

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BEFORE

Pertho	ometer M2 11/10/2008
Time	15:11 0.070 in
Lc Ra	0.010 in 5.75 µi
Rz Rmax	42 µ1 53 µ1
Rp Rpk	13 µi 2.3 µi
Rk Rvk	15 µi
Rk list	15 11
Lc Rk	0.010 in 15 µi
Rpk Rvk	2.3 µi
Mr1	6.5 %
Mr2	84 %
R Profile	0.010 in
VER	20.0 µi
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Townson Pro-	2
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AFTER

Perthometer M2

Daire Tit Ray as x RRP k RRP k RV RP k RV RP k	11/12/20 0.010 0.010 1.39 9.22 3.1 1.3 4.0	900 C C
Rk list Lc Rk Rpk Rvk Mr1 Mr2	0.010 4.0 1.3 3.4 8.2 80	אאבבב
R Profile Lc VER	0.010 20.0	<u> </u>

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Measurable Results *Specialists take RMS readings on a profilometer to measure finishing results.*



Treated Crank Shafts *See the difference! Crank shafts treated with Chemtrol Accelerated Finishing Compound.*