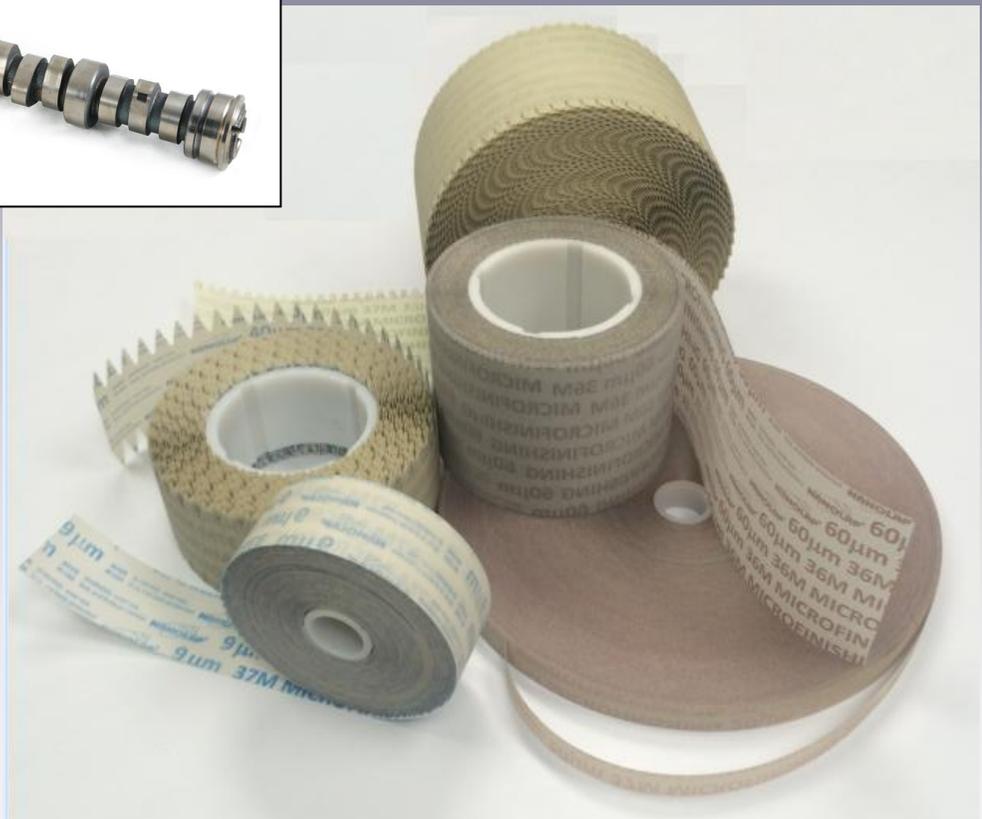


Master[®] Microfinishing Film

Premium, heat-treated aluminum oxide grain, precision coatings, durable bond and frictional backing technology are uniquely designed for demanding microfinishing applications delivering high stock removal rate, exceptional finish consistently.



Master Abrasives Ltd

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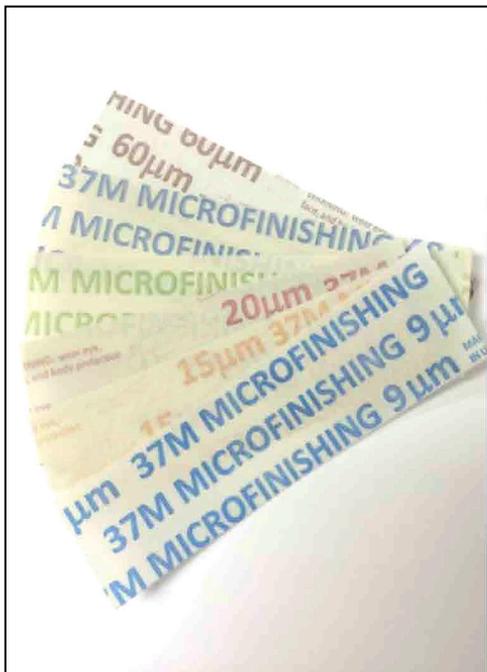
www.master-abrasives.co.uk

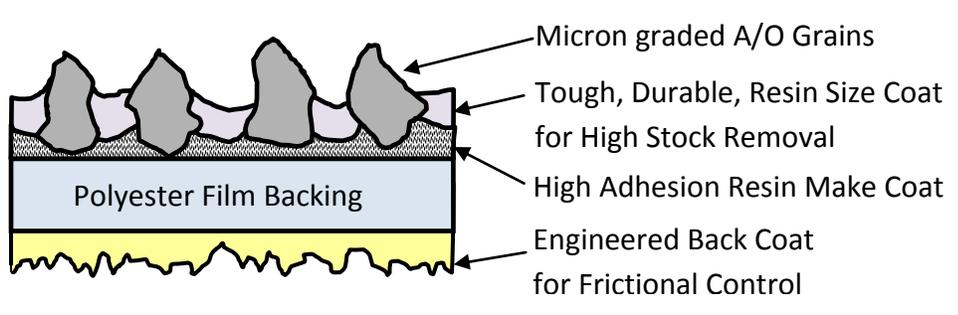
MASTER
ABRASIVES

Also offering tape finishing devices by
Thielenhaus Superfinish Innovation

FEATURES	BENEFITS
Premium, heat-treated, precision micron-graded aluminum oxide	<ul style="list-style-type: none"> • Superior stock removal rate and consistent finish
Tough, durable, high performance, reinforced adhesive bond system	<ul style="list-style-type: none"> • Higher stock removal rate with better surface finish • Excellent adhesion for grain retention contributes to scratch-free, uniform, consistent finishes • Excellent durability for long product life
Strong and uniform 5 mil polyester film back with non-abrasive engineered anti-slip back-coat layer	<ul style="list-style-type: none"> • Excellent friction control • Non tape slip results in excellent cut and finish • Non-abrasive coating for minimum tool wear • Universal design for both soft and hard shoes
Full Grit range: 100 – 9 micron	<ul style="list-style-type: none"> • Extensive grit offering for broad range of microfinishing film applications
Colour coded back print by grit size	<ul style="list-style-type: none"> • Ease of product identification
Available in straight and scallop edged rolls	<ul style="list-style-type: none"> • High-precision edge cutting : +/- 0.03mm • Custom designed scalloped-edge rolls for perfect fit to finish diesel crankshafts, and curved parts • Generate superior part tolerances

37M Microfinishing Film Design





FEATURES

- Colour coded back print by grit
- Engineered frictional coatings for soft and hard shoes

AVAILABILITY

Back print colour	Abrasive Micron Size	Backing	Shapes Available
Purple	80 µm	5 mil And 3 mil Polyester Backing with Engineered Frictional coating	Straight-edge rolls Scallop rolls Belts
Yellow	60 µm		
Black	50 µm		
Blue	40 µm		Discs & Sheet with or without pressure sensitive adhesive
Green	30 µm		
Red	20 µm		
Orange	15 µm		
Light blue	9 µm		



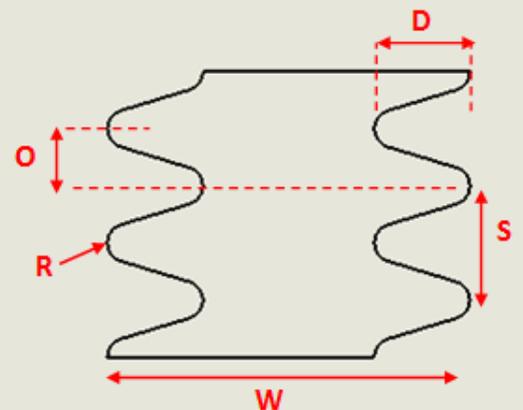
MAIN APPLICATIONS

- Camshaft lobes and journals
- Crankshaft mains, pins, thrust walls, and oil seals
- Transmission shafts
- Axles
- Cylinder shaft
- Hydraulic Spool Valves
- Compressor Shafts
- Torque Convertor Covers
- Engine Balance Shaft
- Drive Sprocket Assemblies
- Turbine Shaft
- Gears
- Bearings
- Roll finishing



SCALLOP ROLL SPECIFICATION

- W: Total width
- D: Depth from peak to valley
- S: Step from peak to peak
- R: Radius
- O: Offset from peak on one side to peak on the opposite side (we recommend that $O = S/2$ or zero)



CASE HISTORY EXAMPLES

<p>Roll Finishing Product: Master® 37M 15 µm film rolls vs. competitive 15 and 9 µm microfinishing film rolls Material: Steel Results: Higher cut-rate of Master® film rolls achieved target finish with the 15 µm product only and replaced the two-step 15 and 9 µm process; customer improved productivity by 60% and saved 50% film consumption cost</p>	<p>Diesel Crankshaft Polishing Product: Master® 37M 40 and 20 µm scalloped edge film rolls vs. competitive 40 and 20 µm scalloped edge film rolls Material : Forged Steel Tooling : Urethane and Diamond shoes Results: Master® film rolls achieved similar cut and finish as the competitive film rolls at slower film index rate, results in 30% cost and labor savings for the customer</p>
<p>Compressor Polishing Product: Master® 37M 30 µm film rolls vs. competitive 30 µm film rolls Material: Cast Iron Results: Master® film rolls produced 10% better Ra finishing than the competitor product with 90% cycle time, generated 20% saving for the customer.</p>	<p>V12 Diesel Crankshaft Polish Product: Master® 37M 40 and 20 µm film rolls vs. competitive 40 and 20 µm film rolls Material: Forged Steel Results: Master® film rolls worked well on Pins and Mains – equal or better than the competition with a 10% cost savings; product approved by customer</p>
<p>Automotive Camshaft Polishing Product: Master® 37M 40 and 15 µm film rolls vs. competitive 40 and 15 µm film rolls Material: Forged Steel Tooling: Urethane and Diamond Results: Master® film rolls achieved Ra 0.08 micron, better than the competitor’s Ra 0.10 at slow film tape index rate with 20% cost savings Master® 37M product approved by customer</p>	<p>Automotive Transmission Shaft Polishing Product: Master® 37M 20 µm and 36M 15 µm film rolls vs. competitive film rolls Material: Forged steel Coolant: Oil-based Tooling: Urethane Results: Master® film rolls worked well on the journal and nose of the transmission shaft; equal to or better than competition</p>
<p>Axle and related Parts Polishing Product : Master® 37M 50 µm film rolls; new machine Material: Hardened steel 60 HRC Coolant: Water based Results: Master® film roll met customer’s stock removal, cycle time and finish requirements for the newly- installed machine, product approved by customer</p>	