



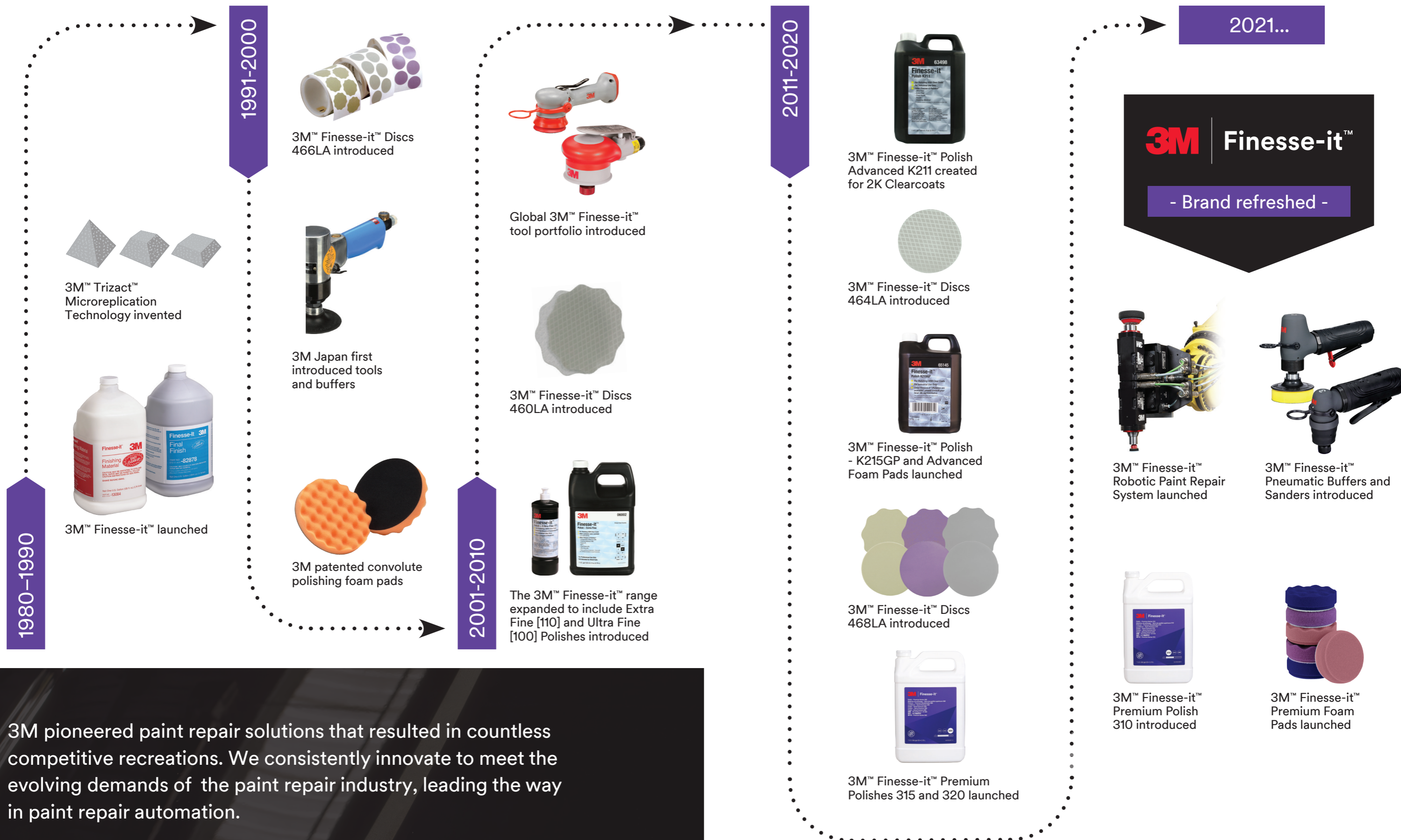
Finesse-it™

Brilliance. Every time.

3M™ Finesse-it™ Paint Repair System



Trailblazing paint defect repair

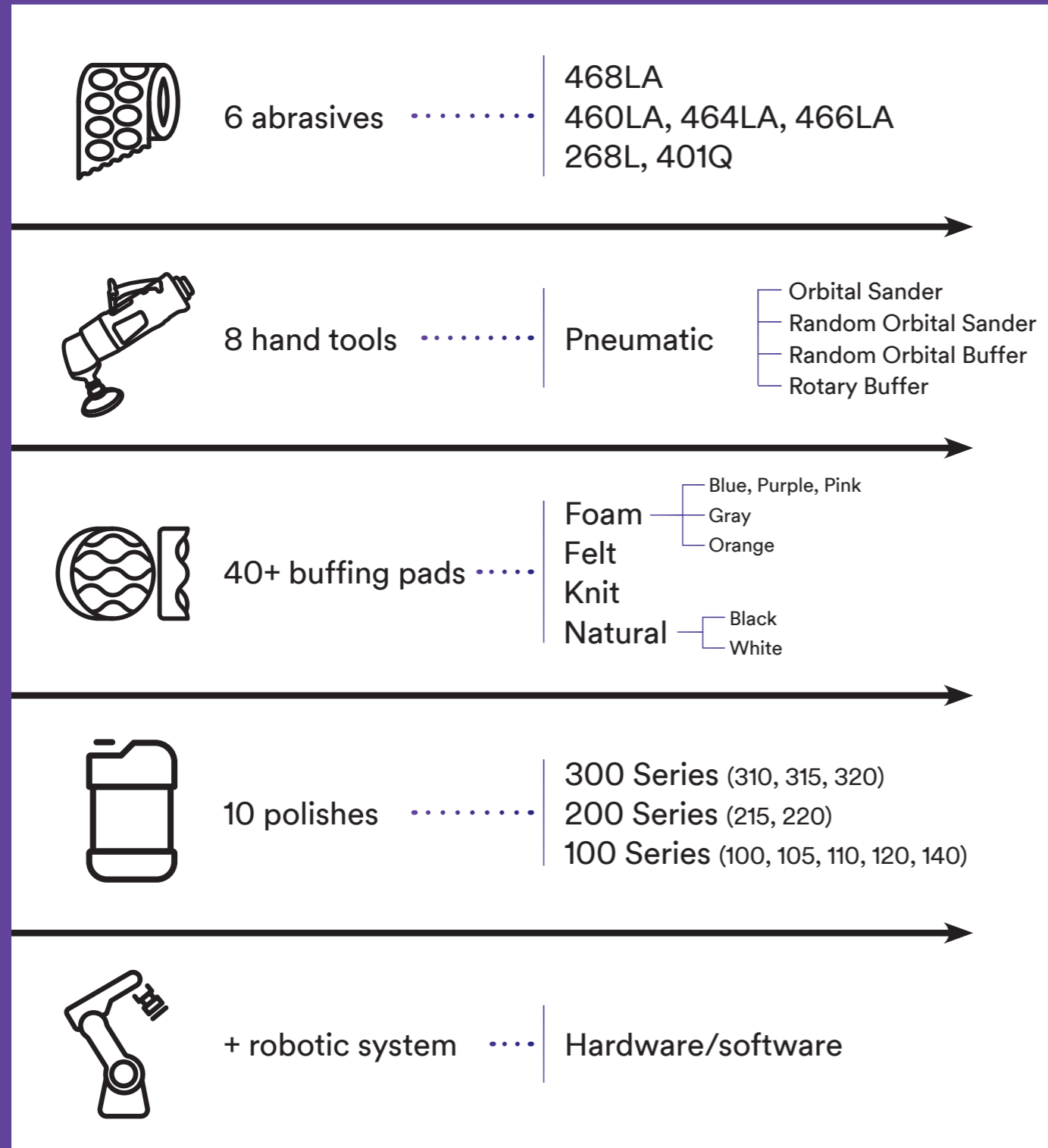


3M pioneered paint repair solutions that resulted in countless competitive recreations. We consistently innovate to meet the evolving demands of the paint repair industry, leading the way in paint repair automation.

A complete system

3M is the only supplier that offers a complete system of paint repair solutions with options for every preference.

3M knowledge and support



17+ global
Application labs

100+
years
supporting
Global OEM
repair processes

Global
network
of industry experts

A tailored
solution
customised
to your
OEM
needs.

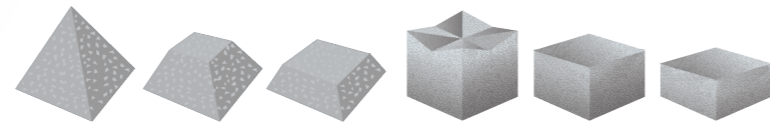


Challenge us today at
[3M.co.uk/finesse-it](https://www.3m.co.uk/finesse-it)
or contact your local
3M sales rep



A complete system

Whether you want longer life, faster cut or the finest finish to reduce overall process cycle time, we have the abrasives to meet your exact needs.

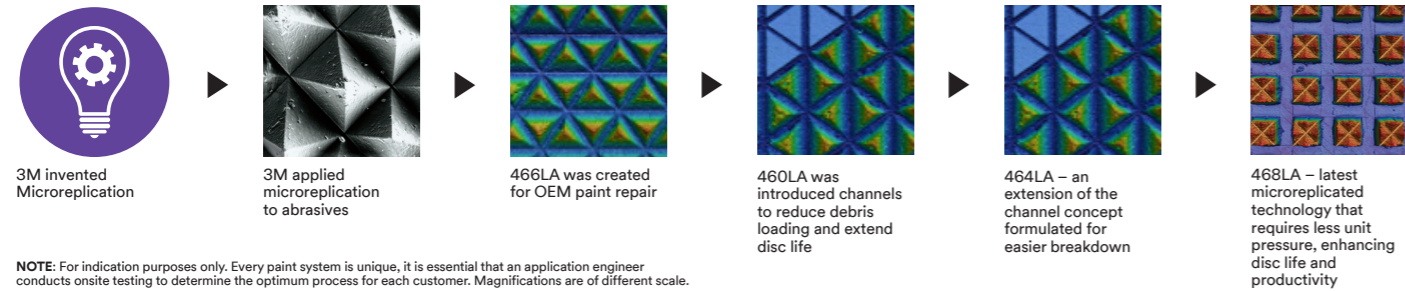


Powered by microreplication: a 3M innovation

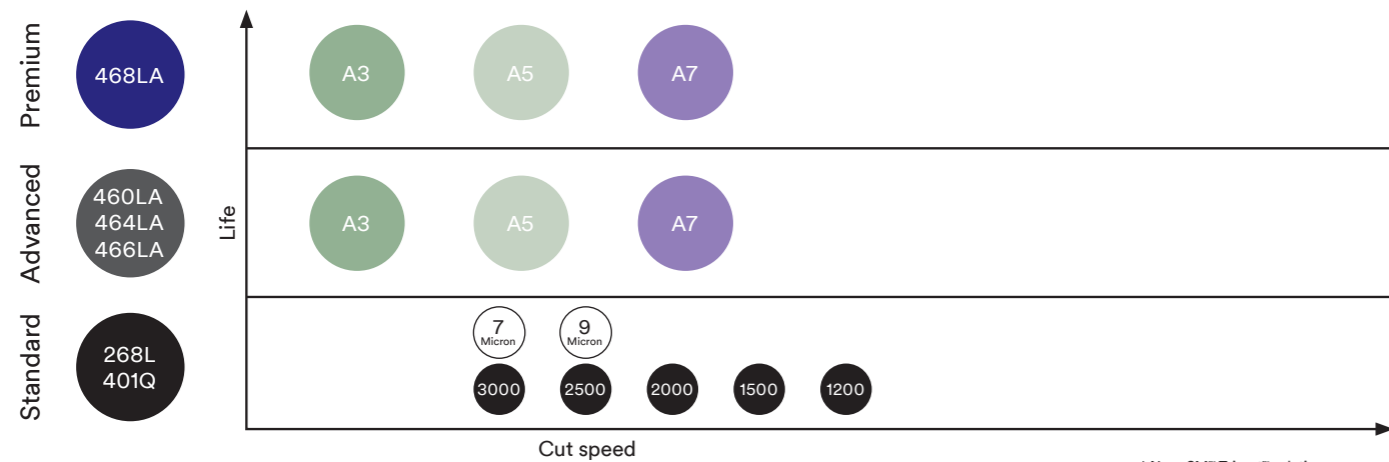
3M™ Finesse-it™ Film Discs are made possible through microreplication – the science of creating precisely shaped three-dimensional structures distributed uniformly over the abrasive backing. The abrasives continually expose fresh cutting surfaces as they wear. This evenly-spaced configuration results in truly consistent performance – disc after disc.

Exacting finishes, repair after repair

Unlike other brands, 3M has more than one option of microreplicated sanding discs. We have been evolving our technology to fit with the changing demands of OEM paint repair. Giving you consistent finish, time and time again.



Selection guide: abrasives



Objective

Remove small paint defects efficiently, ready for polishing.



Equipment and consumables

- 3M™ Finesse-it™ Film Discs
- 3M™ Finesse-it™ Roloc™ Sanding Pad
- 3M™ Finesse-it™ Pneumatic Sanders
- 3M™ Finesse-it™ Hand Sanding Pad
- Scotch-Brite™ High Performance Cloth

Tips and tricks

- ▶ For prolonged disc life, spray disc with water to remove debris after sanding
- ▶ Regularly inspect the back-up pad for wear and tear
- ▶ Maintain the tool as per the instruction manual
- ▶ Start and stop tool on the work surface
- ▶ Sanding with distilled (DI) water is strongly recommended
- ▶ Sand in a small circular motion with the pad flat against the surface – do not tilt the tool



Whether you are set up for one or two polishing steps, we have the right polish and pad combinations to meet your exact needs.

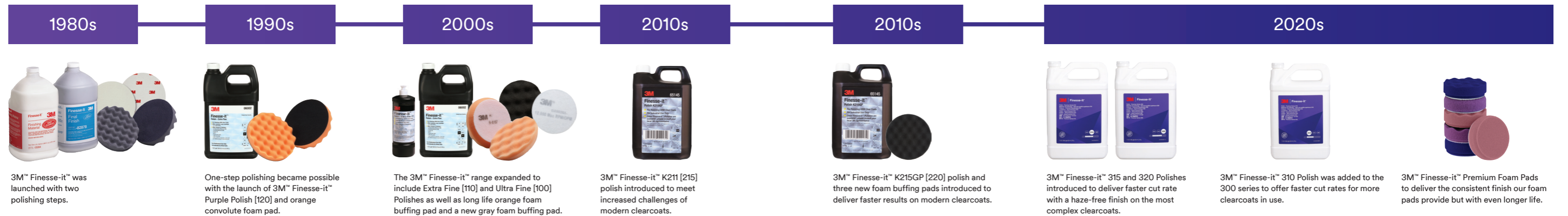
3M has always been a leader in polishing.

Since the days when two polishing steps were standard right up to today where one-step polishing is preferred, 3M has been at the forefront of change.

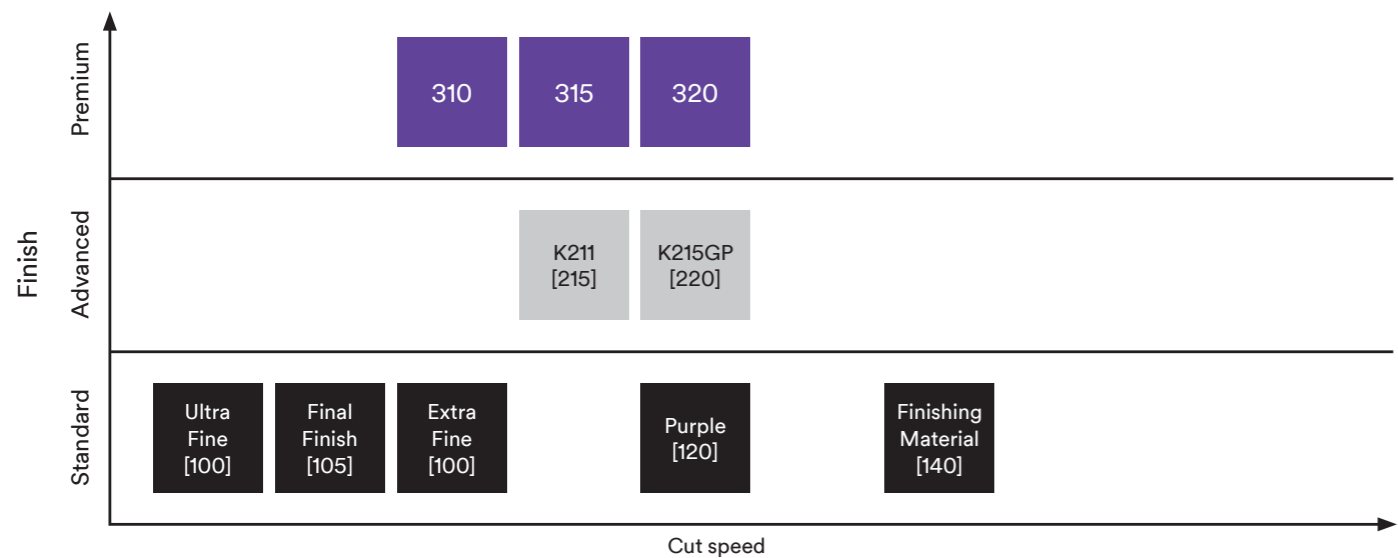
We introduced the first one-step polishing system using patented convolute foam pads and revolutionised the paint repair deck. This allowed many to reduce cycle time and improve their productivity.

Keeping pace with ever changing paint technology

To achieve a high level of cut without compromising the finish, our polishing solutions have evolved to deliver best-in-class performance on even the most challenging of clearcoats.

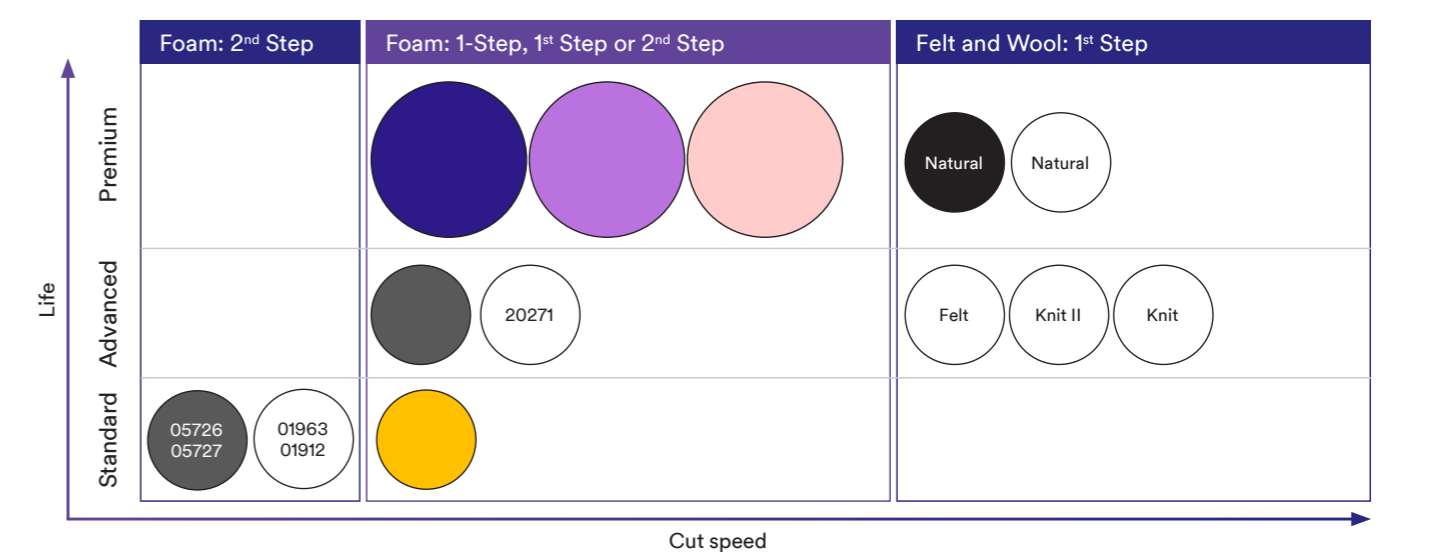


Selection guide: polishes



NOTE: For indication purposes only. Every paint system is unique, it is essential that an application engineer conducts onsite testing to determine the optimum process for each customer.

Selection guide: buffing pads



NOTE: Every paint system is unique and it is essential an application engineer conducts onsite testing to determine optimum process for each customer.

Objective

Remove sanding marks and returning the paint to a scratch-free, high gloss finish.

3M recommends a one-step polishing method, but we understand that some circumstances require a two-step solution. Our 3M experts can help optimise the right process for your line.

One-step polishing

Most one-step polishing will use a random orbital buffer, but some will still use rotary.



If the foam buffing pad is new, apply the polish evenly on the face, otherwise go straight to step 2.

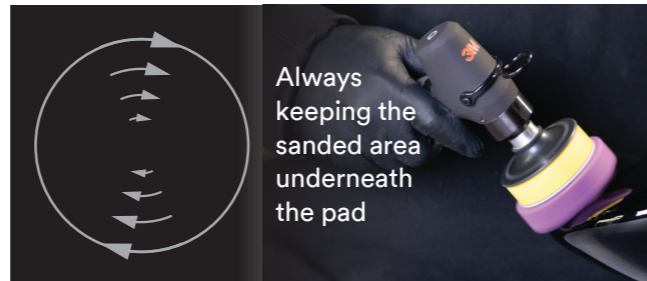


Apply a small drop of polish on the sanded area.



Always keeping the sanded area underneath the pad

or



Always keeping the sanded area underneath the pad

Polish for 6–10 seconds, moving the tool in a random motion. When using random orbital polisher try to keep the foam pad as flat as possible. Be sure to move the pad to avoid generating excessive heat.

Polish for 6–8 seconds, always keeping the sanded area underneath the pad. When using a rotary tool, tilt the tool at a slight angle to maintain control of the polisher. Be sure to move the pad to avoid generating excessive heat.



Wipe the area clean with a microfibre cloth and inspect.

Two-step polishing

Repeat the same process with the same or different tool.

Recommended options for two-step polishing are:

A

Rotary – Random Orbital

B

Rotary – Rotary

C

Random Orbital – Random Orbital

In many cases, these will use a different pad and polish combination for each step.

Equipment and consumables



3M™ Finesse-it™ Buffing Pads



3M™ Finesse-it™ Polishes



3M™ Finesse-it™ Pneumatic Buffer



Scotch-Brite™ High Performance Cloth

Tips and tricks

- ▶ If a new wool pad is used, the polish is applied directly to the panel rather than the pad itself
- ▶ Start and stop tool on the work surface
- ▶ Do not 'free spin' the tool
- ▶ The buffer air line pressure needs to be set at 90 psi while the tool is running
- ▶ Allow the pads to oscillate (move back and forth) and rotate (spin) to allow optimal cut and finish
- ▶ 3M™ Finesse-it™ polishes can be used for freshly painted and fully cured surfaces
- ▶ For small repair, use the 3" rotary or random orbital buffer
- ▶ For large and flat repair, use the 5" random orbital buffer
- ▶ Consider cleaning the repair area with solvent before inspection

Revolutionise your paint defect repair through automation

The 3M™ Finesse-it™ Robotic Paint Repair System is an automated solution that matches or exceeds the performance of your current paint repair process.

We have experienced integration partners that have integrated our solution for both greenfield (new) and brownfield (existing/retrofit) lines, moving lines and stop stations.



Award-winning automation

Our automated solution is the only fully-ready-to-integrate solution on the market today. It has revolutionised the paint repair industry and has been recognised for multiple awards.



Why automate paint defect repair?

Automating paint defect repair in automotive OEMs addresses challenges like manual labour variability. It offers a return on investment through improved efficiency and reduced costs.

-  Consistency in quality
-  Helps with long term cost savings
-  Steps towards lights out manufacturing

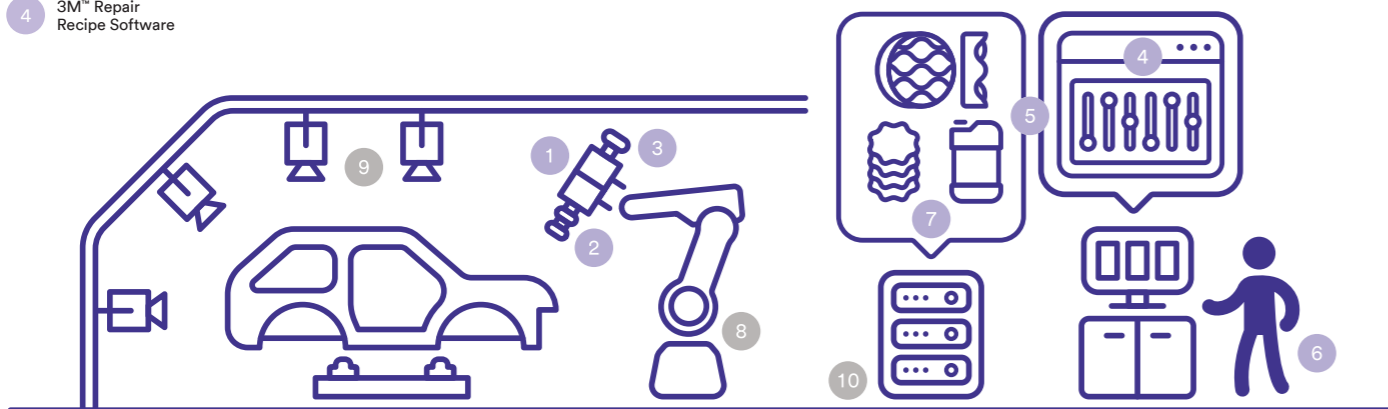
A fully-ready-to-integrate system for clear coat, e-coat and primer.

3M™ Robotic Paint Repair System

- 1 3M™ Active Compliant Tool
- 2 3M™ Servo Random Orbital Sander
- 3 3M™ Servo Random Orbital Buffer
- 4 3M™ Repair Recipe Software
- 5 3M™ Repair Robot Trajectory Software
- 6 3M™ Application Engineer Support
- 7 3M™ Finesse-it™ Abrasives, compounds, and accessories

Partner components

- 8 Robot
- 9 Vision system
- 10 Integration



Global integration partnerships



Process expertise



Complete systems



Automation experience

3M innovation first created the 3M™ Finesse-it™ System, the area which many OEMs refer to as the 'Finesse Deck'. Now, 3M innovation has created the automated 'Finesse Deck' of the future. Robotic solutions available for clear coat paint repair, e-coat and primer.



To learn more or ask an expert, visit 3M.co.uk/robotic-abrasives

3M™ Finesse-it™ Film Discs

3M™ Finesse-it™ PSA Film Disc Rolls

Film Disc Roll 468LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7100115358	32	A3	Round	10,000
	7100115361	32	A5	Round	10,000
	7100115360	32	A7	Round	10,000
	7100091087	35	A3	Scalloped	10,000
	7100115363	35	A5	Scalloped	10,000
	7100115345	35	A7	Scalloped	10,000

Film Disc Roll 466LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7000008789	32	A3	Round	10,000
	7000008786	32	A5	Round	10,000
	7000037932	32	A7	Round	10,000
	7000008787	35	A5	Scalloped	12,000
	7000008788	35	A7	Scalloped	12,000

Film Disc Roll 464LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7000103646	32	A3	Round	10,000
	7000103644	32	A5	Round	10,000
	7000103645	32	A7	Round	10,000
	7000103643	35	A5	Scalloped	10,000
	7000103641	35	A7	Scalloped	10,000

Film Disc Roll 460LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7000045135	32	A3	Round	10,000
	7000045050	32	A5	Round	10,000
	7000045245	32	A7	Round	10,000

3M™ Finesse-it™ Hookit™ Film Discs

Film Disc 468LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max RPM
	7100337349	36	A3	Scalloped/Stacked	10,000
	710033711	36	A5	Scalloped/Stacked	10,000
	7100337563	36	A7	Scalloped/Stacked	10,000

Film Disc 466LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max RPM
	7100016753	36	A3	Scalloped	10,000
	7000028142	35	A5	Scalloped	10,000
	7000028143	35	A7	Scalloped	10,000
	7100335628	36	A3	Scalloped/Stacked	10,000
	7100335793	36	A5	Scalloped/Stacked	10,000
	7100335006	36	A7	Scalloped/Stacked	10,000

3M™ Finesse-it™ Hookit™ Film Discs (cont.)

Film Disc 464LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7100335317	36	A3	Scalloped/Stacked	10,000
	7100335318	36	A5	Scalloped/Stacked	10,000
	7100335681	36	A7	Scalloped/Stacked	10,000

Film Disc 460LA					
	3M Stock no.	Diameter (mm)	Grade	Shape	Max. RPM
	7100335554	36	A3	Scalloped/Stacked	10,000
	7100335497	36	A5	Scalloped/Stacked	10,000
	7100335187	36	A7	Scalloped/Stacked	10,000

3M™ Stikit™ Roloc™/Finesse-it™ Roloc™ Sanding Pads






Sanding Pad					
	3M Stock no.	Part no.	Diameter (mm)	Density Rtg	Max. RPM
	7000045674	82271	32	Soft	6,000
	7000028224	13442	32	Soft	6,000
	7000000442	02345	32	Medium	10,000
	7000045730	02511	32	Firm	10,000

3M™ Hookit™ Roloc™/Finesse-it™ Roloc™ Disc Pads

Disc Pad						
	3M Stock no.	Part no.	Diameter (mm)	Density Rtg	Hook Type	Max. RPM
	7100291638	65779	29	Soft	Type 1	10,000
	7100291639	65741	29	Medium	Type 1	10,000
	7100290979	65780	29	Firm	Type 1	10,000
	7100304363	66164	29	Soft	Type 1	10,000
	7100304313	66163	29	Medium	Type 1	10,000
	7100304312	66162	29	Firm	Type 1	10,000
	7000045755	67415	27	Medium	Type 1	10,000
	7100056128	28655	32	Medium	Type 1	10,000

Finishing Disc Pad						
	3M Stock no.	Part no.	Diameter (mm)	Density Rtg	Hook Type	Max. RPM
	7100022172	14736V	76	Firm	Type 1	6,000
	7000000573	14736U	76	Firm	Type 3	6,000
	7000060935	9998	75	Firm		






3M™ Finesse-it™ Tools

Pneumatic Orbital Sander										
	3M Stock no.	Part no.	Diameter (mm)	Orbit (mm)	Air flow SCFM (l/min)	Motor (W)	Weight (kg)	Length (mm)	Height (mm)	Max RPM
	7100307282	65993	32	3	23 (651)	358	0.6	194	102	8,000
Pneumatic Random Orbital Buffer										
	3M Stock no.	Part no.	Diameter (mm)	Orbit (mm)	Air flow SCFM (l/min)	Motor (W)	Weight (kg)	Length (mm)	Height (mm)	Max RPM
	7100036729	28333	76	12	17 (481)	336	0.8	304.8	88.9	11,000
Pneumatic Random Orbital Palm Buffer										
	3M Stock no.	Part no.	Diameter (mm)	Orbit (mm)	Air flow SCFM (l/min)	Motor (W)	Weight (kg)	Length (mm)	Height (mm)	Max RPM
	7100097653	28769	76	12	17 (481)	209	1.2	322.6	134.6	10,000
Pneumatic Rotary Buffer										
	3M Stock no.	Part no.	Diameter (mm)	Orbit (mm)	Air flow SCFM (l/min)	Motor (W)	Weight (kg)	Length (mm)	Height (mm)	Max RPM
	7100307284	65994	76	-	22 (626)	261	0.97	204	119	3,200
Pneumatic Buffer Tool Kit										
	3M Stock no.	Part no.	Diameter (mm)	Orbit (mm)	Air flow SCFM (l/min)	Motor (W)	Weight (kg)	Length (mm)	Height (mm)	Max RPM
	7100307279	65995	76	-	22 (626)	261	0.86	204	150	3,200

Spare parts available. Please talk to your local 3M sales representative for further details.












Recommended air pressure is 6.2 bar for the above tools. Recommended minimum airline diameter is 10 mm and should not exceed the length of 8 m.

3M™ Finesse-it™ Robotic Paint Repair System

Servo Random Orbital Sander				
	3M Stock no.	Part no.	Size (mm)	Max. RPM
	7100230884	77539	290 × 142 × 70	12,000
Servo Random Orbital Buffer				
	3M Stock no.	Part no.	Size (mm)	Max. RPM
	7100230885	77540	258 × 142 × 70	12,000
Active Compliant Tool				
	3M Stock no.	Part no.	Size (mm)	Weight – lb (kg)
	7100210736	06530	366 × 264 × 231	15.3 (6.9)
Paint Repair Controller				
	3M Stock no.	Part no.	Size (mm)	Weight – lb (kg)
	7100261620	88858	457 × 203 × 229	24.8 (11.3)
Cables				
	3M Stock no.	Part no.	Description	Size (m)
	7100243933	88522	Servo Feedback Whip Cable	0.3
	7100243880	88523	Servo Power Whip Cable	0.3
	7100243879	88525	Compliance Control Cable for ACT	30
Wiping Accessories				
	3M Stock no.	Part no.	Description	
	7100296761	65946	3M™ Finesse-it™ Robotic Paint Repair Pneumatic Slurry Wiping Tool	
	7100291550	65785	3M™ Finesse-it™ Robotic Paint Repair Wiping Pad	

More accessories and spare parts available. Please talk to your local 3M sales representative for further details.




3M™ Finesse-it™ Polishing Compounds

Premium Series 300					
	3M Stock no.	Part no.	Colour	Description	Size – Gal (Liter)
	7100210640	77317	Blue	320	3.785
	7100210642	77197	White	315	3.785
	7100325774	48051	White	310	3.785
Advanced Series					
	3M Stock no.	Part no.	Colour	Description	Size – Gal (Liter)
	7100025167	28695	White	K211 [215]	3.785
	7100236246	63498	White	K211	3.785
General Purpose Series					
	3M Stock no.	Part no.	Colour	Description	Size – Gal (Liter)
	7000060125	60168	White	Ultra Fine [105]	1
	7100009019	51056	Purple		3.785
	7000000630	06002	White	Final Finish [105]	3.785
	7100075516	82877	Gray		1
	7100075516	87877	Gray	Extra Fine [110]	1
	7100075470	82878			3.785
	7000000630	6002	?		3.785
	7100009019	51056	Purple	Purple [120]	3.785
	7100075517	13084	White	Finishing Material [140]	3.785
	7100236247	9639	White		1
	7100007892	81820	Original formula		3.785

3M™ Finesse-it™ Compounds, Polishes and Pads

3M™ Finesse-it™ Premium Foam Buffing Pad








3M™ Finesse-it™ Premium Foam Buffing Pads were developed to last longer between changes than our 3M™ Finesse-it™ Advanced Foam Pads whilst delivering consistent, repeatable finishes each time. They are available with a convolute or flat shape for use with our specially developed 3M™ Finesse-it™ polishes to achieve satin, semi-gloss or high-gloss finishes on premium OEM coatings in automotive, marine, aerospace and wood.

Product name	3M Stock no.	Part no.	Desc.	Diameter (mm)	Colour	Max. RPM	MOQ	
3M™ Finesse-it™ Premium Foam Buffing Pad		7100358358	41528	Convolute	51	Pink	12,000	100
		7100335995	41172	Convolute	82	Pink	12,000	120
		7100336144	41152	Flat	82	Pink	12,000	120
		7100358849	40971	Convolute	95	Pink	12,000	100
		7100359385	40593	Convolute	133	Pink	12,000	80
		7100333229	40559	Convolute	51	Purple	12,000	100
		7100333338	39930	Convolute	82	Purple	12,000	120
		7100333453	39836	Flat	82	Purple	12,000	120
		7100333337	39705	Convolute	95	Purple	12,000	100
		7100333415	39679	Convolute	133	Purple	12,000	80
		7100358721	39677	Convolute	51	Blue	12,000	100
		7100336153	39577	Convolute	82	Blue	12,000	120
		7100335924	39380	Flat	82	Blue	12,000	120
		7100359205	38783	Convolute	95	Blue	12,000	100
		7100359844	38730	Convolute	133	Blue	12,000	80











3M™ Finesse-it™ Compounds, Polishes and Pads

3M™ Finesse-it™ Advanced Foam Buffing Pad

3M™ Finesse-it™ Advanced Foam Buffing Pads are available with a convolute or flat shape for use with our specially developed 3M™ Finesse-it™ polishes to achieve satin, semi-gloss or high-gloss finishes on Advanced coatings in automotive, marine, aerospace and wood.



Product name	3M ID	Part no.	Desc.	Diameter (mm)	Colour	Max. RPM	MOQ	
3M™ Finesse-it™ Foam Buffing Pad		7010359979	20271	Open Cell Foam	95	White Foam/ White Loop	12,000	50
3M™ Finesse-it™ Advanced Foam Buffing Pad		7100322115	45235	Convolute	82	Gray	12,000	90
		7100321961	45227	Convolute	95	Gray	12,000	100
		7100322114	45156	Convolute	133	Gray	12,000	100
		7100323061	42889	Flat	64	Gray	12,000	90
		7100321959	46676	Flat	90	Gray	12,000	100
		7100322114	45156	Flat	133	Gray	12,000	100

3M™ Finesse-it™ Foam Buffing Pad

Product name	3M ID	Part no.	Desc.	Diameter (mm)	Colour	Max. RPM	MOQ	
3M™ Finesse-it™ Foam Buffing Pad		7100323019	43551	Convolute	51	Orange	12,000	100
		7100322228	46576	Convolute	82	Orange	12,000	180
		7100321960	43941	Convolute	95	Orange	12,000	100
		7100322517	46627	Convolute	133	Orange	12,000	80
		7100322227	45995	Deep Convolute	82	Orange	12,000	100
		7100322226	45781	Deep Convolute	133	Orange	12,000	80
		7100322228	46576	Flat	38	Orange	12,000	180
		7100322043	43594	Flat	64	Orange	12,000	90
		7000110557	69000	Flat	76	Orange	12,000	200
		7100079034	65883	Flat	80	White	12,000	300

3M™ Hookit™ Polishing Pads











3M™ Perfect-it™ Hookit™ Foam Polishing Pads are soft foam buffing pads used to buff out fine scratches created from sanding or compounding steps over intermediate-size surface areas. The waffle face provides a greater surface contact area than flat surface pads, minimises heat buildup during buffing and helps eliminates swirl marks. It also helps the pad hold the polish and reduce slinging.

Product name	3M ID	Part no.	Desc.	Diameter (mm)	Colour	Max. RPM	MOQ	
3M™ Perfect-it™ Hookit™ Foam Polishing Pad		7000028367	05726	Convolute	76	Black	12,000	10
		7000000584	05727	Convolute	133	Black	12,000	12

3M™ Finesse-it™ Compounds, Polishes and Pads



3M™ Finesse-it™ Buffing Pads

3M™ Finesse-it™ Buffing Pads provide a soft, smooth surface for applying 3M™ Finesse-it™ Polishes.

Product name	3M ID	Part no.	Desc.	Diameter (mm)	Pile height (mm)	Colour	Max. RPM	MOQ	
3M™ Finesse-it™ Natural Buffing Pads		7000000579	81470	Natural	76	White	12,000	50	
		7000000580	81471	Natural	133	White	12,000	50	
		7000028364	82531	Natural	178	White	12,000	10	
		7000000612	85103	Natural	76	Black	12,000	50	
		7000000611	85100	Natural	133	Black	12,000	50	
	3M™ Finesse-it™ Knit Buffing Pad	7000000598	85078	Knit	76	24	White	12,000	50
3M™ Finesse-it™ Knit II Buffing Pad		7000045701	85084	Knit II	76	24	White	12,000	50
		7000028394	85099	Knit II	76	17	White	12,000	50
		7000028387	85083	Knit II	133	24	White	12,000	50
3M™ Finesse-it™ Low Lint Knit II Buffing Pad		7100081888	28863	Knit II	76	12	White	12,000	50
		7100080336	28862	Knit II	133	12	White	12,000	50

3M™ Finesse-it™ Felt Buffing Pad

3M™ Finesse-it™ Buffing Pad, in 3- and 5-inch diameters, is a felt pad with a 3M™ Hookit™ attachment for applying 3M™ Finesse-it™ polishes to various types of clear coats using rotary or random orbital buffers and polishers.

Product name	3M ID	Part no.	Desc.	Diameter (mm)	Colour	Max. RPM	MOQ	
3M™ Finesse-it™ Felt Buffing Pad		7000016905	09357	Felt	76	Red/White	12,000	50
		7000016906	09358	Felt	127	Red/White	12,000	50



Finesse-it™



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