

FLEX
Das Original

Perfect polishing system

The FLEX range of polishers



FLEX

Shine with FLEX



Three things are needed for the perfect surface finish: skill, the right feel, and FLEX, of course. Whether you are a professional working in a paint shop, an automotive all-rounder or have ambitious aims for your hobby - FLEX allows everyone to shine with the optimum system of polisher, pad and polish. Particularly important is the right combination, because with the correct components to suit your experience, the material and the condition of the paintwork, you are certain to achieve brilliant results.

Strong performance with system

The right combination for perfect surfaces



Polisher

There are good reasons why FLEX polishers are the first choice of the professionals. FLEX has been defining the high technological standard for premium polishers for more than 80 years and thus has unique know-how which ensures our tools are noticeably better.



NEW

Pad

The optimum result is achieved only with the correct choice of polishing medium. The user must be familiar with the different effects produced by foams or fibre-based products such as fleece, wool and microfibre pads if they are to achieve the desired abrasive effect. The new FLEX pads with colour-coded system provide clear guidance here.



Polish

The FLEX system is rounded off with perfectly coordinated abrasive, finishing and sealing polishes. They are the perfect match for our system and are silicone-free, of course.



**Achieve your goal
with the correct
drive**

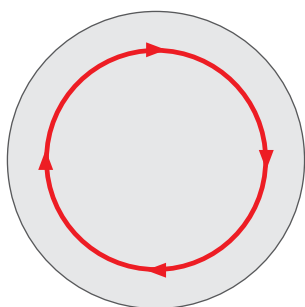
Experience and task determine the technology needed

FLEX provides the whole range of drive technologies for polishers and thus solutions for all types of user, be they a professional or a beginner with little experience. As a matter of principle: rotary polishers belong exclusively in experienced hands because of their high removal rate and usually require subsequent finishing with a random orbital polisher.

Drive

Properties

Rotary



- Highest removal rate
- Rotary polishers require experience
- Quickest way to remove scratches
- Hologram formation possible

Abrasiveness



Speed ¹⁾



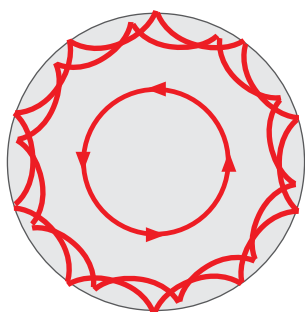
Holograms ²⁾



Hologram removal



Random orbital, with positive-action drive



- Good removal rate
- No hologram formation
- Ideal for removing scratches and for finishing
- Wide range of applications

Abrasiveness



Speed ¹⁾



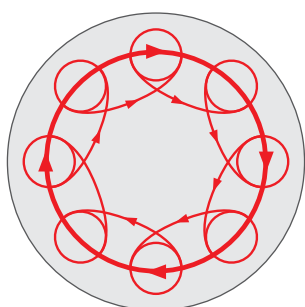
Holograms ²⁾



Hologram removal



Random orbital, free running



- Suitable for all types of user
- Easy handling
- No hologram formation
- Low removal rate
- Perfect for finishing

Abrasiveness



Speed ¹⁾



Holograms ²⁾



Hologram removal



1) Time required to remove damage

2) Risk of hologram formation

Rotary polisher

Concentrated power with high speed
for high removal rate



PE 14-2 150

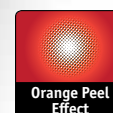
The high-end polisher for professional car restoration.
Perfect speed range plus high torque.

Technical features

- VR electronic control: continuously adjustable speed selection, tachometer-controlled constant speed, overload protection, restart protection and temperature monitoring
- Powerful 1,400-watt motor with powerful fan for optimum cooling.
- Optimised air flow for best possible cooling of motor and gearbox. No exhaust air to annoy the user.
- Novel combination of planetary and angle gear reduces noise to a minimum
- Flat gear head reduces separation between tool and surface. This allows the tool to be operated correctly in any position
- Grip hood: ergonomically shaped with SoftGrip. The tool can be guided with precision and always provides a pleasant and safe grip
- Spindle lock: ideally positioned to prevent accidental operation and obstruction of the grip
- With rubberised resting surface for safe setting down
- 4-metre PUR H05-BQF cable: wear resistant, flexible with high abrasion and notch resistance
- Accelerator trigger switch for a slow and gentle start (starting speed at setting 1 (380 rpm)) and lock for continuous operation.

High-end basic polisher for:

- Car restoration
- Car body manufacture
- Paint shop
- Car repair shop
- Smart repair
- Aviation
- Maritime
- Furniture
- Acrylic glass



TECHNICAL DATA

Max. polishing pad Ø	200 mm
Max. back-up pad Ø	150 mm
No load speed	380 – 2,100 rpm
Power input	1,400 watt
Tool fixture	M 14
Weight	2.3 kg

PE 14-2 150

Standard supply

- 1x PE 14-2 150
- 1x handle

Part	Part no.
PE 14-2 150	373.680

PE 14-2 150 Set

Standard supply

- 1x PE 14-2 150 + 1x handle
- 1x Velcro backing pad, cushioned Ø 150 mm
- 1x Polishing sponge PS-B 160 and 1x PS-BL 160
- 1x Polishing wool pad TW-PT 160
- 1x Microfibre cloth MW-P
- 1x Finishing polish P 03/06-LD 250 mL
- 1x Abrasive polish P 05/04-LD 250 mL
- 1x Carrying case + 2x case inserts

Part	Part no.
PE 14-2 150 Set	376.175



PE 14-1 180

The specialist for large areas and heat-sensitive materials or when large polishing discs are required.

High-end basic polisher for:

- Maritime
- Aviation
- Car restoration
- Furniture
- Acrylic glass

Technical features

- As PE 14-2 150
- Accelerator trigger switch for a slow and gentle start (starting speed at setting 1 (250 rpm)) and lock for continuous operation.
- Specially designed for polishing large horizontal and vertical surfaces. For automotive, maritime, aviation applications
- Polishes with extremely low speed and high torque, e. g. for heat-sensitive surfaces



TECHNICAL DATA

Max. polishing pad Ø	250 mm
Max. back-up pad Ø	180 mm
No load speed	250 – 1350 rpm
Power input	1,400 watt
Tool fixture	M 14
Weight	2.3 kg

PE 14-1 180

Standard supply

- 1x PE 14-1 180 + 1x handle

Part	Part no.
PE 14-1-180	395.749



PE 8-4 80

The handy polisher for small areas.

Ideal as an ancillary tool

Ancillary polisher for

- Car restoration
- Car body manufacture
- Smart repair

Technical features

- VR electronic control: with tachometer-generator constant speed control, soft start, overload protection, and speed selection
- Light and handy for use on smaller areas, difficult to reach places
- Spindle lock



TECHNICAL DATA

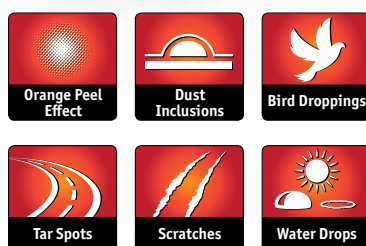
Max. polishing pad Ø	80 mm
Max. back-up pad Ø	75 mm
No load speed	1,300 – 3,900 rpm
Power input	800 watt
Tool fixture	M 14
Weight	1.8 kg

PE 8-4 80

Standard supply

- 1x PE 8-4 80 + 1x side handle

Part	Part no.
PE 8-4 80	405.817



PE 14-3 125

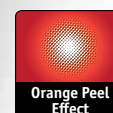
The all-rounder for small to medium-sized polishing discs.
Lower speed, but a strong performance.

Technical features

- VR microprocessor electronic control: with tachometer-controlled constant speed, soft start, accelerator trigger switch, restart protection after power failure, overload protection, temperature monitoring, and speed selection
- Accelerator trigger switch for a slow and gentle start
- Its wide range of speeds makes it the best tool to work to perfection with polishing pads from Ø 80 to max. Ø 160 mm
- Recommended polishing pad Ø 140 mm
- Ergonomic design
- Slim shaft grip and ergonomic grip hood for optimal handling and fatigue-free polishing
- 4-metre PUR H05-BQF cable: wear resistant, flexible with high abrasion and notch resistance
- Spindle lock

Ancillary polisher for

- Workshops
- Car body manufacture
- Paint shop
- Smart repair



TECHNICAL DATA

Max. polishing pad Ø	140 mm (160 mm)
Max. back-up pad Ø	150 mm
No load speed	1,100 - 3,700 rpm
Power input	1,400 watt
Tool fixture	M 14
Weight	2.2 kg

PE 14-3 125

Standard supply

- 1x PE 14-3 125
- 1 x side handle

Part	Part no.
PE 14-3 125	406.813

PE 14-3 125 Set

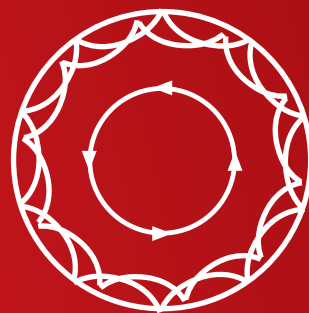
Standard supply

- 1x PE 14-3 125 + 1x side handle
- 1x Velcro backing pad 125 Ø
- 1x Polishing sponge PS-B 160 and 1 x PS-W 160
- 1x Microfibre cloth MW-C
- 1x Finishing polish P 03/06-LD 250 mL
- 1x Abrasive polish P 05/04-LD 250 mL



Part	Part no.
PE 14-3 125 Set	407.569

Random orbital polisher with positive-action drive



Powerful performance with continuous motion



XC 3401 VRG

Rotary and random orbital motions combined in one polisher.
For effective and efficient surface finishing.

Technical features

- VR microprocessor electronic control: with tachometer-controlled constant speed, soft start, accelerator trigger switch, restart protection after power failure, overload protection, temperature monitoring, and speed selection
- 8 mm polishing stroke for high efficiency
- Permanent positive-action drive for an evenly polished surface
- Cushioned special Velcro backing pad for polishing
- Removable, ergonomic bail handle and grip hood for optimum handling in all fields of operation
- Low heat generation on the surface makes it ideal for temperature-sensitive paints
- Counterweight ensures low-noise operation
- Low profile and low weight
- Spindle lock
- The tool is available for 110 V as well

Random orbital polisher for:

- Car restoration
- Automotive trade
- Paint shop
- Car repair shop
- Smart repair
- Maritime



TECHNICAL DATA

Max. polishing pad Ø	160 mm
Max. back-up pad Ø	140 mm
No load speed	160-480 rpm
Orbit rate, no load	3,200 - 9,600 opm
Orbit	8 mm
Power input	1,010 watt
Weight	2.6 kg

XC 3401 VRG

Standard supply

- 1x XC 3401 VRG
- 1x Bail handle

Part	Part no.
XC 3401 VRG	322.008

XC 3401 VRG Set

Standard supply

- 1x XC 3401 VRG + 1x bail handle
- 1x Special Velcro backing pad 140 Ø
- 1x Polishing sponge PS-W 160
- 1x Microfibre cloth MW-C
- 1x Finishing polish P 03/06-LD 250 mL
- 1x Abrasive polish P 05/04-LD 250 mL
- 1x Carrying case



Part	Part no.
XC 3401 VRG Set	334.081

Random orbital polisher, free running

Gentle to the surface and easy to operate



XFE 7-15 150

Ideal for beginners or when working on two-stage processes.
As a supplementary tool to the rotary polisher, it provides fast hologram removal and a perfect finish.

Technical features

- VR microprocessor electronic control: with tachometer-controlled constant speed, soft start, accelerator trigger switch, restart protection after power failure, overload protection, temperature monitoring, and speed selection
- Free-running drive for hologram-free finishing
- 15 mm polishing stroke for high efficiency
- Accelerator trigger switch for a slow and gentle start and lock for continuous operation
- Cushioned special Velcro backing pad for polishing
- Counterweight ensures low-noise operation
- Optimised air flow for best possible cooling of motor and gearbox No exhaust air to annoy the user
- Flat gear head reduces separation between tool and surface. This allows the tool to be operated correctly in any position
- Grip hood: ergonomically shaped with SoftGrip. The tool can be guided with precision and always provides a pleasant and safe grip
- Low heat generation on the surface makes it ideal for temperature-sensitive paints

Random orbital polisher for:

- Car restoration
- Automotive trade
- Paint shop
- Car repair shop
- Smart repair
- Maritime



TECHNICAL DATA

Max. polishing pad Ø	160 mm
Max. back-up pad Ø	150 mm
No load speed	1500 - 4500 rpm
Orbit rate, no load	2,900 - 8,600 opm
Orbit	15 mm
Power input	710 watt
Weight	2.4 kg

XFE 7-15 150

Standard supply

- 1x XFE 7-15 150
- 1x Special Velcro backing pad 150 Ø

Part	Part no.
XFE 7-15 150	418.080

XFE 7-15 150 Set

Standard supply

- 1x Special Velcro backing pad, 150 Ø
- 1x Polishing sponge PS-O 160
- 1x Polishing sponge PS-R 160
- 1x Microfibre cloth MW-C
- 1x Polish P03/06-LDX 250 mL
- 1x Sealant W02/04 250 mL
- 1x Carrying case L-BOXX® 238 + case insert

Part	Part no.
XFE 7-15 150 Set	447.110



Note: If the original FLEX accessories are not used with the XFE/XCE models, this can result in increased vibrations, a worse finish, increased wear, or even damage to the equipment!

XFE 7-12 80

The small, compact tool is the ideal complement to larger polishers. Perfect for spot repairs. It can be used for a large number of applications when working with difficult shapes.

Technical features

- VR electronic control: with tachometer-generator constant speed control, soft start, overload protection, and speed selection
- Free-running drive for hologram-free finishing
- 12 mm polishing stroke for high efficiency
- Grip hood: ergonomically shaped with SoftGrip. The tool can be guided with precision and always provides a pleasant and safe grip
- Lightweight and handy for use on smaller areas, difficult to reach places
- Low heat generation on the surface makes it ideal for temperature-sensitive paints

Supplementary polisher for:

- Car restoration
- Car repair shop
- Smart repair
- Maritime
- Acrylic glass



TECHNICAL DATA

Max. polishing pad Ø	80 mm
Max. backing pad Ø	75 mm
Orbit rate, no-load	1,800 - 5,500 opm
Orbit	12 mm
Power input	700 watt
Weight	2.1 kg



XFE 7-12 80

Standard supply

Part	Part no.
XFE 7-12 80	447.129

Available from
July 2017

XFE 7-12 80 Set



Available from
July 2017

Standard supply

- 1x Special Velcro backing pad, 75 Ø
- 1x Polishing sponge PSX-G 80
- 1x Polishing sponge PS-O 80
- 1x Polishing sponge PS-R 80
- 1x Microfibre cloth MW-C
- 1x Polish P05/05-LDX 250 mL
- 1x Sealant W02/04 250 mL
- 1x Carrying case L-BOXX® 136 + case insert

Part	Part no.
XFE 7-12 80	447.137

Note: If the original FLEX accessories are not used with the XFE/XCE models, this can result in increased vibrations, a worse finish, increased wear, or even damage to the equipment!



Strong performance with system

Polish and pad play a crucial role in the polishing process. FLEX therefore provides a perfectly coordinated system with an optimum range of sponges for every application: simply use the correct colour to successfully achieve your goal.



Abrasive paste P 05/05-LDX

High removal rate with maximum sheen

The universal high-performance abrasive paste removes P1500 grit abrasion marks in seconds.

- Suitable for all types of paint
- Contains no wax, silicone, or odorous solvents
- For use with rotary and random orbital polishers
- Abrasiveness 5 / gloss level 5

Part no.

443.271



Special polish P 03/06-LDX

Scratch removal with a deep sheen

Ideal for polishing P2000 grit abrasion marks and for reviving old paintwork.

- Suitable for all types of paint
- Low-dust and silicone-free polish
- For single-stage random orbital polishing or rotary polishing
- Abrasiveness 3 / gloss level 6

Part no.

443.298



Sealant W 02/04

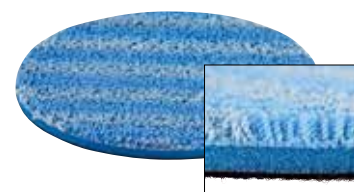
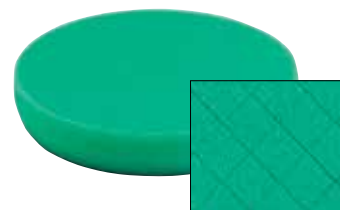
Liquid preservation

Perfect paintwork protection with Carnauba wax

- For new or freshly polished paintwork
- Can be painted over
- Contains no abrasive particles
- Protects, cares for and maintains high sheen
- Can be applied with the red manual applicator sponge or with the orange sponge and a polisher.
- Protective effect 2 / smoothness 4

Part no.

443.301



Sponge types

Green sponge – PSX-G

A very hard, reticulated foam with an innovative X-Cut surface that guarantees a uniform and very high removal rate even when used with the random orbital polisher. The X-Cut texture also reduces heat generation. The foam is heat resistant, tear resistant, and has a very good service life.

Cutting Power



Part Ø sizes

Part no.

PSX-G 40 VE2	442.631
PSX-G 80 VE2	434.264
PSX-G 140	434.272
PSX-G 160	434.280
PSX-G 200	434.299

Violet sponge – PS-V

A hard, reticulated foam for optimum cooling and a uniform and high removal rate. It is slightly less abrasive than the green sponge PSX-G and is ideal for fresh coats of paint. The foam is heat resistant, tear resistant and has a good service life.

Cutting Power



Part Ø sizes

Part no.

PS-V 40 VE2	442.658
PS-V 80 VE2	434.442
PS-V 140	434.450
PS-V 160	434.469
PS-V 200	436.410

Orange sponge – PS-O

A medium-hard, reticulated foam with a fine foam texture. It is heat resistant, very tear resistant and has a good service life.

Cutting Power



Part Ø sizes

Part no.

PS-O 40 VE2	442.666
PS-O 80 VE2	434.302
PS-O 140	434.310
PS-O 160	434.329
PS-O 200	434.337

Red sponge – PS-R

A very soft, reticulated foam with a fine foam texture. It has a special PerfectTouch sandwich structure with an additional, firmer, white foam layer which gives the pad greater rigidity. This special structure also increases the service life of the polishing pad.

Cutting Power



Part Ø sizes

Part no.

PS-R 40 VE2	442.674
PS-R 80 VE2	434.345
PS-R 140	434.353
PS-R 160	434.361
PS-R 200	434.426

Blue sponge – Microfibre polishing pad MC-PT 160

Especially for random orbital polishers, particularly those with a free-running pad. With these tools, a microfibre pad is more effective than a standard wool pad for heavy cutting work. The microfibre pad is also equipped with the tried and tested PerfectTouch sandwich surface. This ensures good pressure distribution without softening the orbital movement.

Cutting Power



Part Ø sizes

Part no.

MC-PT 160	434.434
-----------	---------

White pad – Wool polishing pad TW-PT

The TopWool pad is made of 90% natural wool and 10% polyester. This combination produces a better service life and more volume. The special PerfectTouch structure with the additional orange foam layer gives the pad gentle cushioning and greater rigidity.

Cutting Power



Part Ø sizes

Part no.

TW-PT 80	420.484
TW-PT 140	376.515
TW-PT 160	376.523

Small red sponge – manual application sponge PUK-R 130

This sponge has an ergonomic shape and a very soft, reticulated foam with a fine foam texture. It is perfect for the manual application of sealants and care products to painted and plastic surfaces. An ideal supplement for difficult to reach places or sensitive surfaces that are difficult to treat with a tool, for example.

Cutting Power



Part Ø sizes

Part no.

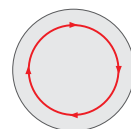
PUK-R 130	442.682
-----------	---------

The right choice

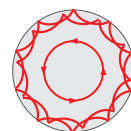
FLEX gives you a clear overview.
So that application, tool and accessories produce
the perfect result.



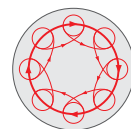
Rotary



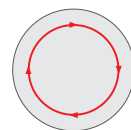
Random orbital,
with positive-
action drive



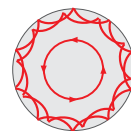
Random orbital,
free running



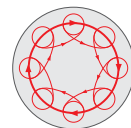
Rotary



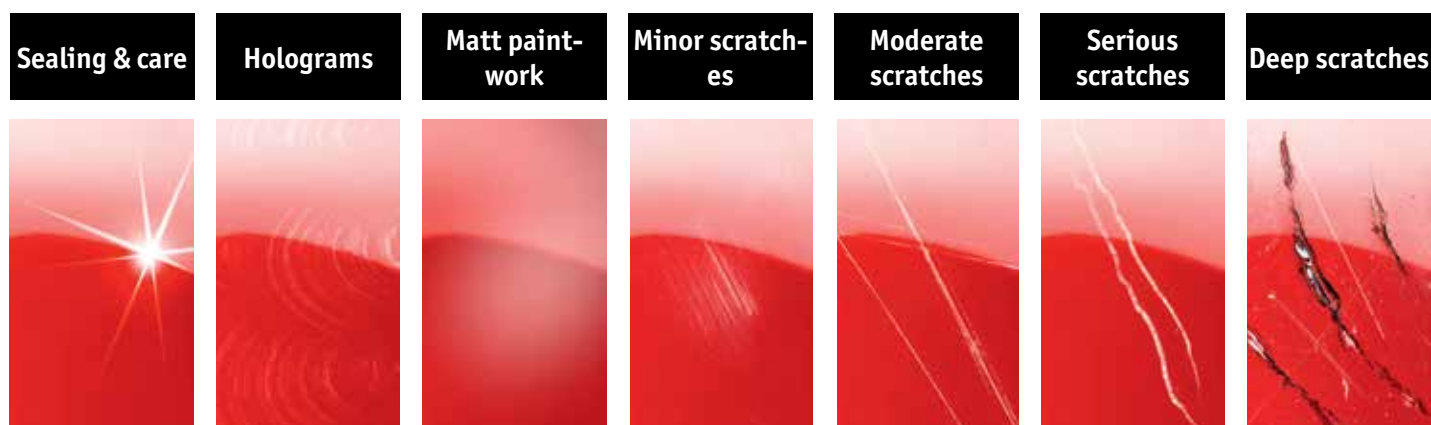
Random orbital,
with positive-
action drive



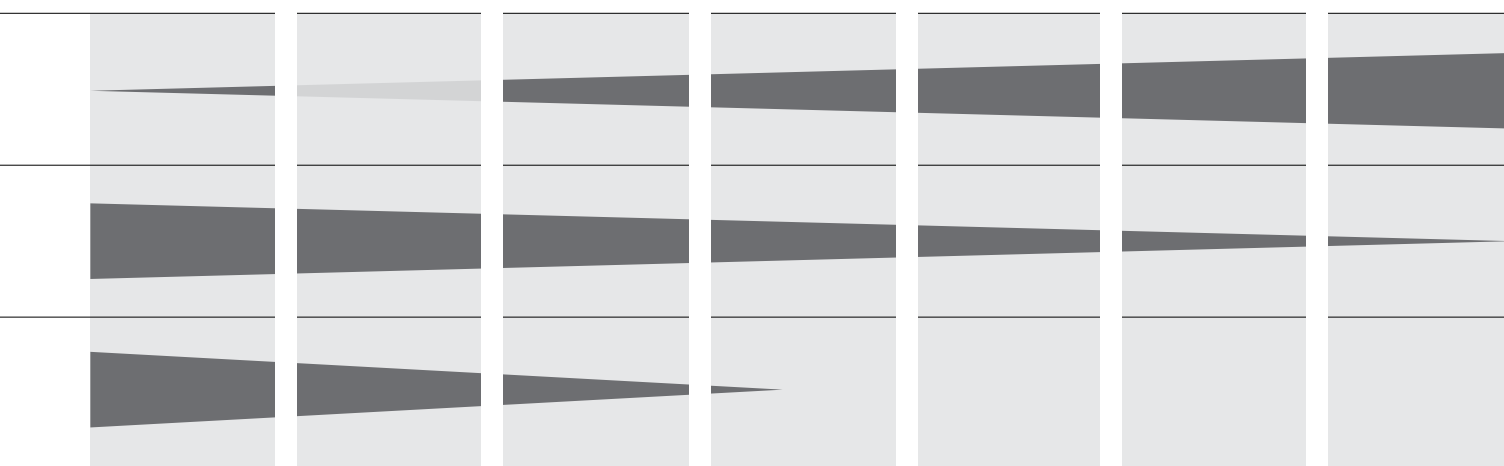
Random orbital,
free running



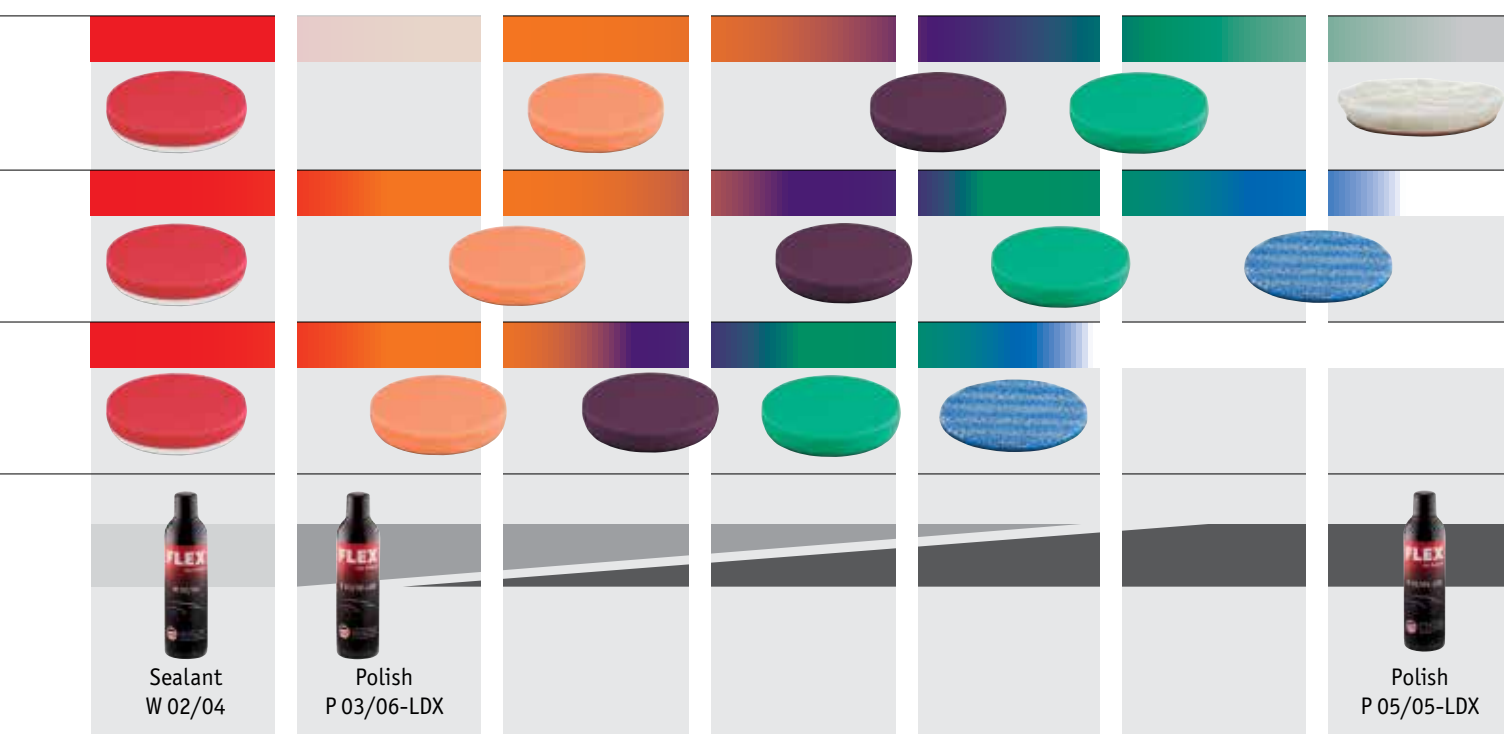
Damage



Fields of application of the drive types



Fields of application of the pads and polishes



Accessories

	Suitability	Description	Part	Dimension	QTY/ PKG	Order no.	
Velcro backing pad, cushioned, M14							
 		12 mm foam rubber ensures uniform pressure distribution during abrasion, polishing and sealing.	BP-M D35 M14	Ø 35 mm	1	446.254	
			BP-M D75 M14	Ø 75 mm	1	420.492	
			BP-M D115 M14	Ø 115 mm	1	240.311	
			BP-M D125 M14	Ø 125 mm	1	350.737	
			BP-M D150 M14	Ø 150 mm	1	350.745	
Adapter for BP-M D35 M14							
 		This adapter in combination with the Velcro backing pad BP-M D35 M14 (part no. 446.254) and the 40mm Ø polishing sponges is useful when polishing difficult to reach places. The 40-mm-long aluminium adapter has an M 14 female thread (for the tool) and an M 14 male thread (Velcro backing pad connection).	BP-AD M14I/M14A	40 mm	1	446.270	
Special Velcro pad, cushioned							
 		Cushioned Velcro pad, 10 mm PU medium hardness. The special pad mount means the pad can only be used with the XFE 7-15 150.	BP-M D150 XFE/XCE	Ø 150 mm	1	437.077	
			BP-M D125 XFE/XCE	Ø 125 mm	1	442.445	
Velcro backing pad with gear wheel, cushioned							
 		Cushioned special Velcro backing pad for polishing. The special pad mounts for this backing pad mean it can only be used with the XC 3401 VRG.	BP-M D115 XC	Ø 115 mm	1	386.715	
			BP-M D140 XC	Ø 140 mm	1	342.637	
Special Velcro backing pad, cushioned							
 		Cushioned Velcro backing pad, 10 mm PU medium hardness. The special pad mount for this backing pad means it can only be used with the XFE 7-12 80.	BP-M D75 XFE 7-12	Ø 75 mm	1	454.141	
Microfibre polishing cloths							
		Classic microfibre polishing cloth Seamless, washable. For the careful removal of polishing and sealing residues. Produces a perfect surface finish and brilliant deep sheen.	MW-C	400 mm x 400 mm	1	317.098	
		Premium microfibre polishing cloth The pile is very long and soft for the reliable and very gentle absorption of residues. This makes the microfibre cloth perfect for giving the paintwork the best possible finish. It can also be used for washing the car. Long service life, machine washable (do not use fabric softener).	MW-P	400 mm x 400 mm	1	376.531	

More information about our range of polishers is available from your trained specialist retailer or at www.flex-tools.com

FLEX
Das Original

FLEX-Elektrowerkzeuge GmbH
Bahnhofstrasse 15
71711 Steinheim
Germany
www.flex-tools.com



We would like to thank
Mechatronik GmbH
(www.mechatronik.de)
and Oldtimer Land GmbH
(www.oldtimerland.com)
for providing the
vehicles (pages 10, 12
and 15).

Your FLEX retailer: