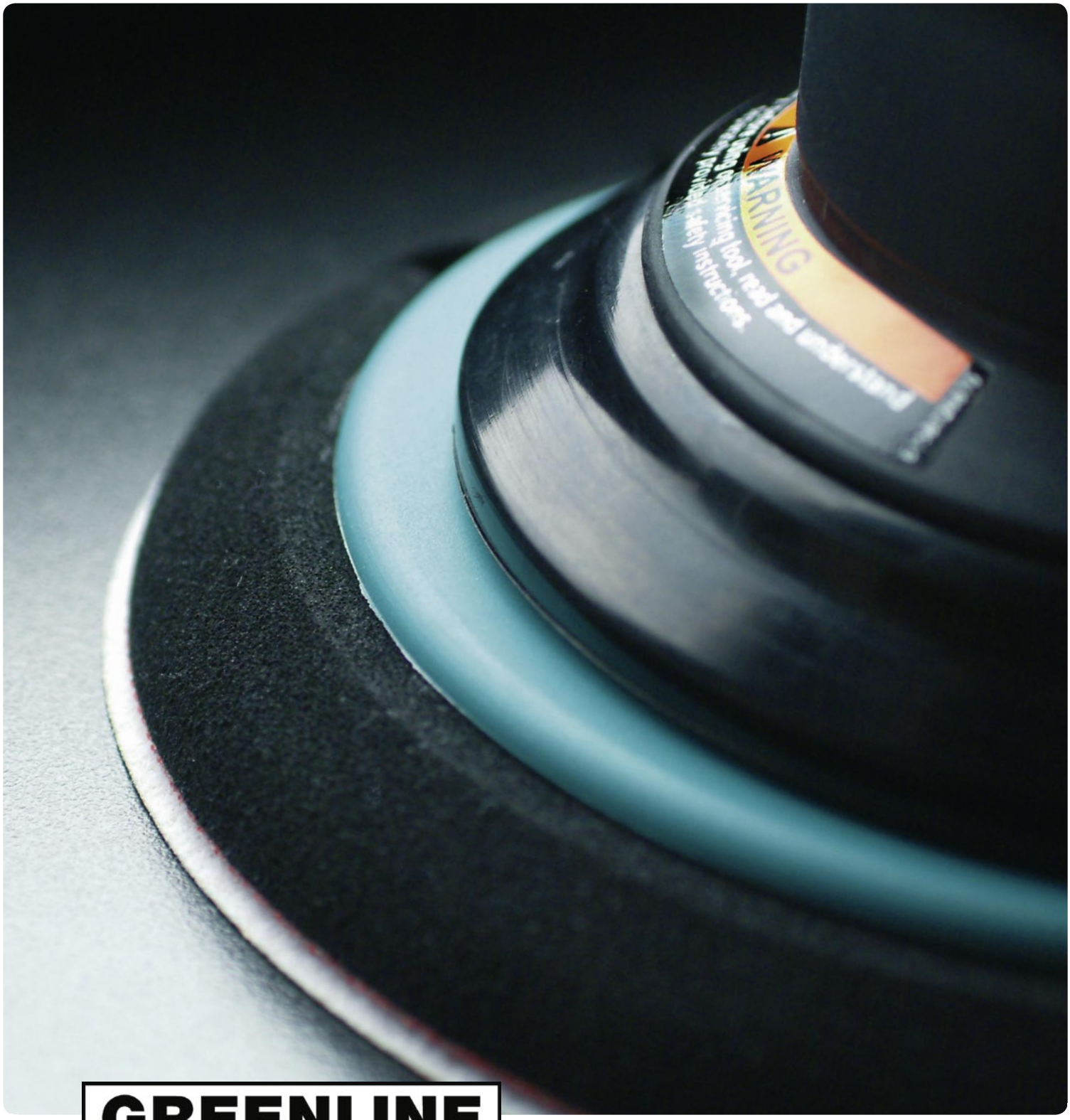
THE GREENLINE 6.1 SYSTEM

A new generation of abrasives.
High performance. Good price.

CAR SYSTEM®



GREENLINE

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Member of Refinish Alliance

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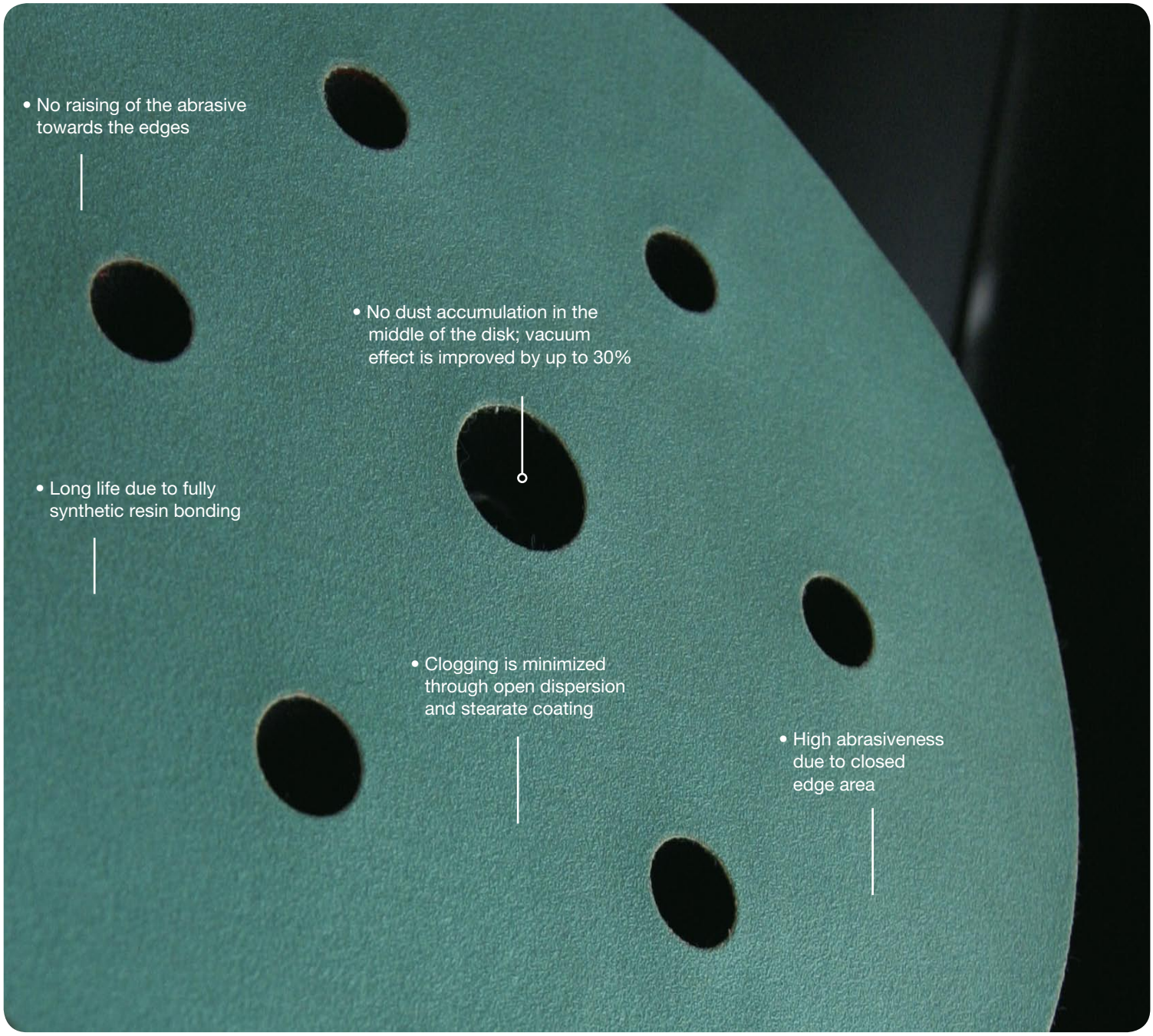
THE GREENLINE 6.1 SYSTEM

Vacuum effectiveness improved by up to 30% due to innovative hole arrangement

With the 6.1 hole system by CARSYSTEM you can easily improve performance combined with minimal dust emission: The 6.1 disk has an extra hole in the middle in order for dust to be vacuumed off more effectively. Due to this, improved abrasiveness, a longer life of the abrasive and a more even surface treatment are achieved.



ABRASIVE KNOW-HOW

The quality of an abrasive always depends on its 3 main components: The base of the abrasive, its grain and the bonding system These factors always stand in a direct relationship to one another.

Base of the abrasive

Paper

Paper bases are supplied in a variety of stiffnesses and firmnesses. The firmness of the paper influences the flexibility and aggressiveness of the respective abrasive. The different papers are classified according to their weight-area ratios (g/m2) as well as their type A (highly flexible, less aggressive) to G (less flexible/ highly aggressive).

Paper type	Weight/area (g/m2)	Flexibility	Aggressiveness
A (A_w)	< 85	+++++++	+
B (B_w)	> 85 - 110	++++++	++
C (C_w)	> 110 - 135	+++++	+++
D	> 135 - 160	++++	++++
E	> 220 - 270	+++	+++++
F	> 270 - 350	++	++++++
G	> 250 - 500	+	+++++++

Index w = waterproof

Abrasive grain

Aluminium oxide (Al2O3)/corundum

Corundum is a synthetic abrasive mineral, which is produced in an electric furnace at a temperature of approximately 2050°C. This abrasive grain has extremely good cutting properties, toughness and hardness (hardness according to Knoop: 18 - 22 GPa). Thanks to its block-like structure, the aluminium oxide yields high endurance. Therefore, corundum is best suited for grinding tasks, which call for a long life.

Silicon carbide

This synthetic mineral is also produced in an electric furnace, yet at a temperature of merely 2300°C. In contrast to corundum, this material is very sharp and somewhat harder (hardness according to Knoop: 25 GPa), but far less tough mineral. Therefore, this grain is employed where a high surface quality is required or where very hard surfaces are processed.

Grain sizes

We only apply grain sizes in accordance with DIN ISO 6344 for all our paper-based abrasives. This DIN standard corresponds to FEPA directives. This is signified by a „P“ ahead of the grain size in the stamp printed on the rear side of the abrasive tool.

d (µm) average grain diameter	750	630	525	400	325	260	200	160	125	93	76	68	58	52	46	39	35	30	26	22	18	14	12	10	8
FEPA 43 - 1984 R 1993 DIN 69 176 DIN ISO 6344	P 24	P 30	P 36	P 40	P 50	P 60	P 80	P 100	P 120	P 150	P 180	P 220	P 240	P 280	P 320	P 360	P 400	P 500	P 600	P 800	P 1000	P 1200	P 1500	P 2000	P 2500
ANSI B 74.18-1984	24	30	36	40	50	60	80	100	120	150	180	220		240		280		320		360		400	500	600	

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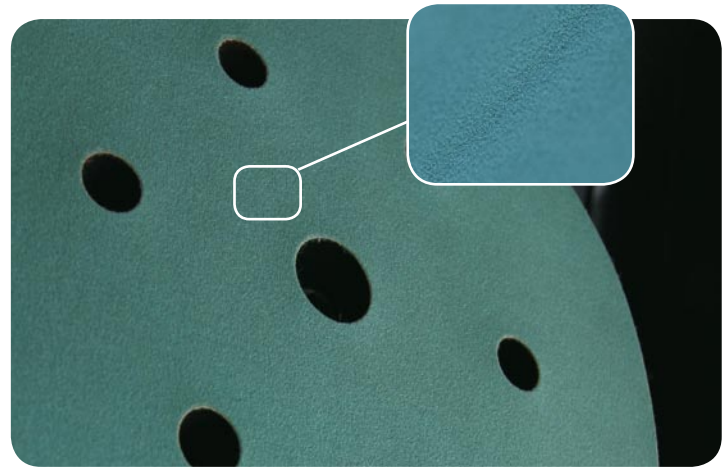
Spreading

The application of abrasive grain is usually effectuated electrostatically on CARSYSTEM abrasive tools, i.e. the grain is, within an electrical field, raised along its longitudinal axis on the paper base, so that the sharp cutting points form a right angle with the base. In this manner an especially convenient and reproducible grain attack position is achieved, lengthening the endurance of the abrasive tool. The dispersion of the grain is divided into two groups: closed and open coat. The greater the dispersion pattern of the respective abrasive is, the less dust will clog on the grain side.



Bonding system

Abrasive bondings have the function of holding the abrasive grain until the end of the standing period (endurance) has arrived. A decisive factor for the performance and effectiveness of an abrasive tool is the type of bonding. Hence, the bonding medium and the type of bonding influence aggressiveness and abrasiveness, for example.

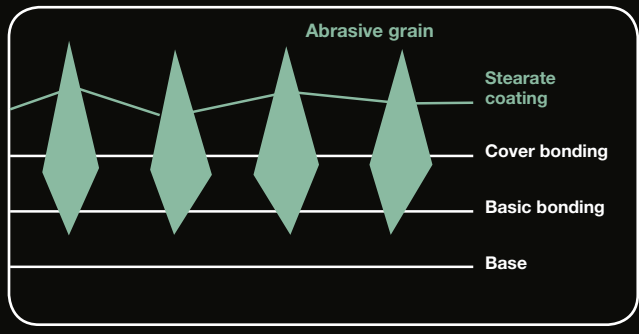
Bonding medium:
Exclusively synthetic resin bondings are used for CARSYSTEM abrasive products. These highly stable grain bondings are especially advantageous for sophisticated abrasive applications, for instance due to their highly shock-absorbing properties, insensitivity towards water and heat resistance.

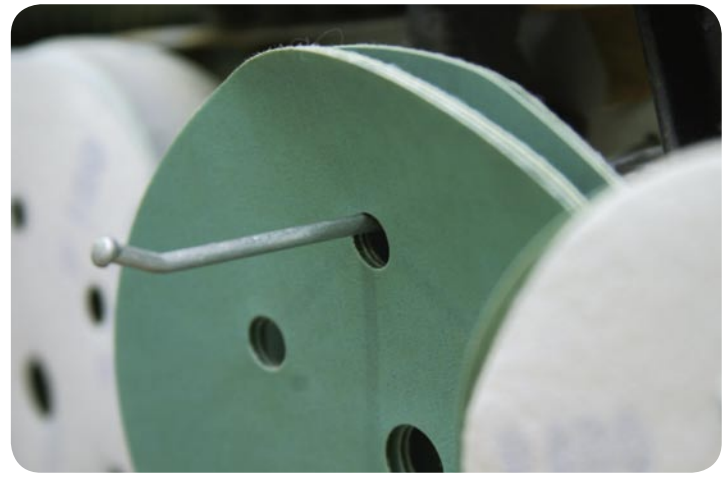
Types of bonding:
Basic bonding
The first bonding layer (basic bonding) is applied to the base before dispersion of the grain, and is intended to fix the grain to the base for further processing.

Cover bonding
The second bonding layer (cover bonding) is intended to support the fixed grain towards the sides and to attach it solidly with the base.

Stearate coating
Greenline has introduced an additional coating: a stearate layer. Due to its dust-repellent additives it prevents premature clogging of the grain side. Additionally, the abrasive grain is bonded deeper through this extra layer. This yields a more homogeneous and substantially finer surface.

The GREENLINE bonding system





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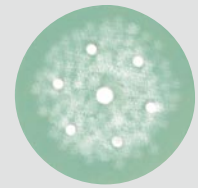
DUST EXTRUCTION IMPROVED BY UP TO 30% DUE TO INNOVATIVE HOLE CONFIGURATION

- Regular abrasives have 6 holes punched, causing high loading at the centre of the disk and hence increased disk consumption.

6-hole-system

- The extra hole in the middle enhances vacuum activity, thus lengthening the life of the abrasive as well as reducing dust emissions.

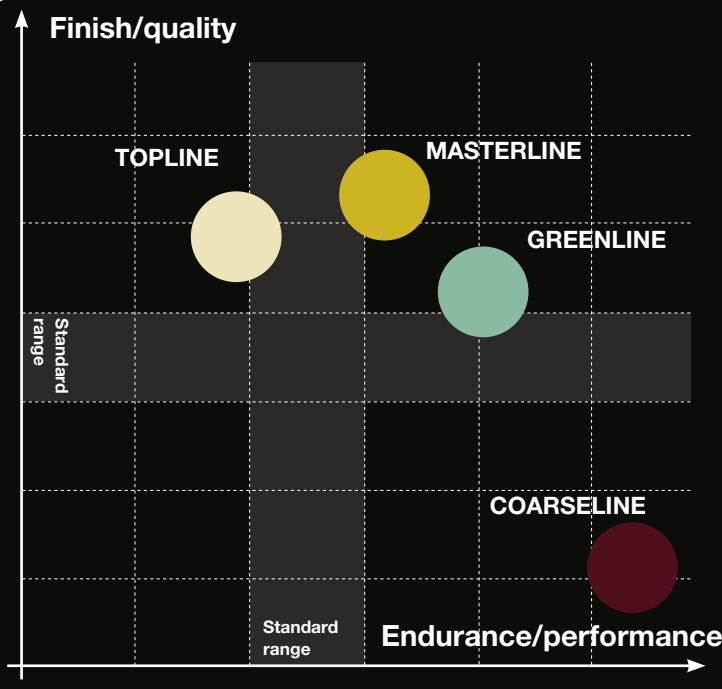


6.1-system

Technical Specifications

Material:	Medium:	C-paper
	Bonding:	Fully synthetic resin with dust-repellent additives in the top coat
	Grain type:	Aluminium oxide (corundum)
	Dispersion mode:	Open
Specs:	Diameter:	150 mm
	Grain range:	P 40 - P 800
	Hole systems:	can also be delivered as

Positioning of our abrasives



Recommended use

Pre-grinding	
Preparation of damaged area	P 80, P 150
Filler levelling	P 80, P 150
Post-treatment of paint and filler	P 240

Finishing	
Filler levelling	P 320
Final sanding of repaired areas	P 400 and finer

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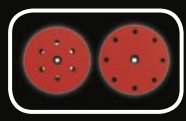
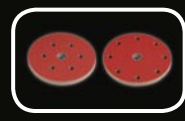
Supply range

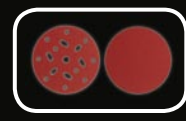
Grain	Designation	hole configuration		Diameter	VPE
P 40	GREENLINE Grip	141.000	141.017	150mm	50
P 60		141.001	141.018		
P 80		141.002	141.019		
P 100		141.003	141.020		
P 120		141.004	141.021		100
P 150		141.006	141.022		
P 180		141.007	141.023		
P 220		141.008	141.024		
P 240		141.009	141.025		
P 280		141.010	141.026		
P 320		141.011	141.027		
P 360		141.012	141.028		
P 400		141.013	141.029		
P 500		141.014	141.030		
P 600		141.015	141.031		
P 800		141.016	141.032		

Accessories.

Zubehör. Accessoires. Accessori. Accesorios.







Designation	Excenter Back Pad multi	Excenter Back Pad multi plus	Soft Interface Pad	Soft Interface Pad
System	Grip	Grip	Grip	Grip
Thread	5/16“ und M8	5/16“ und M8		
Vacuum system	a) 6.1-hole	b) 9-hole universal	a) 6.1-hole b) 9-hole	a) universal b) unpunched
Art. No.	a) 139.650 b) 139.651	140.581	a) 140.582 b) 140.583	a) 140.584 b) 140.585

141.293	Palm Sander CP 7220 CVE (2,5mm Hub)
141.294	Palm Sander CP 7250 CVE (5,0mm Hub)

Contact

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