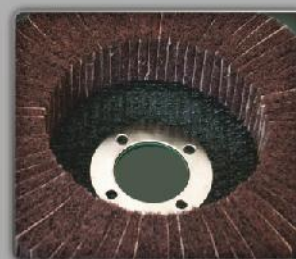
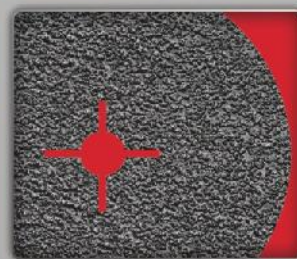


# CARBOCHIM

ABRAZIVE CLUJ  
PROFESIONALE

## COATED ABRASIVES



# Products coding

Carbochim's abrasive products are identified on following coding rules:

**BFS**  
1. Shape

**1400x2620**  
2. Dimensions

**PE 622X**  
3. Product Type

**gran.80**  
4. Grit size

## 1. Shapes :

### Belts:

BFS - wide, medium and narrow belts  
S-B - belts set  
BSN - belts with sinusoidal edges

### Rolls:

RUL - rolls  
RSP - RSD - split rolls (parallel or displaced flaps)

### Discs:

DIS - plane discs, with or without holes  
SDP - plane discs set  
DDF - abrasive double sides plane discs  
DIA - self-adhesive plane discs  
Vx\* - velcro plane discs with or without holes  
SV - velcro plane discs set  
SVP - felt velcro plane discs set  
SSF - semiflexible discs set

### Sheets:

FOI - rectangular sheets  
S-F - rectangular sheets set  
FOM - wide sheets  
Fyx\* - sheets with holes  
VFx\* - velcro sheets with or without holes

### Flap wheels\*\*:

LPx\* - flap wheels brush type  
LRx\* - in flat flap wheels  
LSx\* - split flap wheels  
LEx\* - helicoidal flap wheels  
LFx\* - flap discs

\*x - order number of shape (digit or letter)  
y - shape type (letter)

\*\* see the product coding at flap wheels chapter

## 2. Dimensions:

Dimensions range depending on product type, shape and application. Dimensions range and signification are shown for each shape separately.

## 3. Product types:

### Backing type:

H - paper  
P - cloth  
A - non-woven  
APL - sanding screen  
APSL - felt

### Grain type:

E - brown electrocorundum  
ES - semifriable electrocorundum  
EN - white electrocorundum  
EZ - zirconia electrocorundum  
CN - black silicon carbide

### Bonding materials:

Internal coding (digits)

### Backing Type:

#### Paper

A - thin flexible paper (75-109g/sqm)  
B - thin paper (110-149 g/sqm)  
C - medium flexible paper (150-179 g/sqm)  
D - medium paper (180-209 g/sqm)  
E/F - thick paper (over 210 g/sqm)

#### Cloth

J - thin flexible cloth  
K - medium cloth  
X - thick and rigid cloth  
Y - rigid and stiff cloth

#### Felt

403 - thickness felt - 3 mm  
405 - thickness felt - 5 mm  
406 - thickness felt - 6 mm

**Note:** for discs - Shape Vx (velcro plane discs) și Sv<sub>x</sub> (velcro plane discs sets), the code indicates the color and fillers as follow:

### Color:

A - white  
G - yellow  
R - red  
V - green

**Fillers:** S - stearate

## 4. Grit size:

The grit size of abrasive material is in accordance with FEPA P series standard.  
The grit size range is indicated in shown tables of each shape separately.

## Products range

The coated abrasive products are obtained by abrasive grains coating on paper, cloth, combination backing with bonded materials (glue and resins) and fillers.

The resulting jumbos from manufacture process are converted in specific shapes corresponding to working process requirements.

CARBOCHIM SA produces and sell a wide range of coated abrasives in different shapes and dimensions; rolls, sheets, belts, discs, flap wheels, flap discs etc. The products type and general characteristics are shown in the table below:

Product Type	Application	Backing type	Grain type	Bonding Material	Grit Size	Shapes				
						B F S	R U L	F O I	D I S	D L
<b>PAPER BACKING PRODUCTS</b>										
HASS	Finishing - coated/varnished wood surfaces	Type A paper	EN	Glue and Stearate	180-400		X	X		
HASSB	Finishing - coated/varnished wood surfaces	Type A paper + sponge	EN	Glue and Stearate	120-400		X			
HWOD	Wet and dry grinding, finishing - putty, ground coat, varnish, paint	Type A, C paper waterproof	E	Resin	60-400			X	X	
			CN		500-1200			X	X	
HEN231	Calibration, grinding, finishing of wood surfaces	Type E paper	EN	Resin and Antistatic	40-400	X	X	X	X	
HEN425E										
HEN427E										
<b>CLOTH BACKING PRODUCTS</b>										
PE430X	Metal sanding	X type cloth	E	Resin	60-400					X
PE622X	Grinding, sanding metal	X type cloth waterproof	E	Resin	40-400	X	X	X	X	X
PE840X	For hand use - universal use product	X type cloth	E	Resin	40-400		X			X
PES861J	Profile sanding - wood, metal	J type cloth	ES	Resin	60-400	X	X	X	X	X
PESJ222					60-600					
PES861K	Sanding - wood	K type cloth	ES	Resin	40-180	X	X	X	X	X
PES861X	Grinding, sanding - plane wood surfaces	X type cloth	ES	Resin and antistatic	40-180	X	X	X	X	
PEZ522X	Grinding, sanding - plane wood surfaces and metal	X type cloth	EZ	Resin	24-80	X	X	X	X	
PEZX822	Sanding - metal	X type cloth	EZ	Resin	40-120					X
PCN512X	Grinding, sanding - plane wood surfaces glass, ceramics, stone, rubber, nonferrous metal sanding	X type cloth	CN	Resin	24-120	X	X	X	X	
PCN622 X	Wet sanding - glass, ceramics, stone, nonferrous metals, plastic	X type cloth waterproof	CN	Resin	60-400	X	X	X	X	
<b>NON-WOVEN BACKING PRODUCTS</b>										
AE630A	Sanding, finishing - wood, metal	Non-woven	E	Resin	80;120;180;320		X	X	X	X
AE630SC	Fine sanding - metal	Non-woven + insertion	E	Resin	80;120;180;320	X			X	X
<b>SANDING SCREEN PRODUCTS</b>										
APL421Q	Sanding - walls, plasters	Screen	CN	Resin	40-150			X	X	
<b>FELT PRODUCTS</b>										
APSL	Polishing - metal	Wool Felt						X	X	X

# Belts

Carbochim S.A. Offers a large range of belts: wide, medium and narrow that are used to equip industrial machines or hand tools. These products guarantee a very good quality of surfaces and optimum efficiency in grinding operations of wooden surfaces, metal, glass, porcelain, paints, varnish surfaces etc.

## Joint types:

- 10 overlapped joint
- 11 grain tips removal overlapped joint
- 20 straight side to side joint with red plastic tape
- 21 straight side to side joint with white plastic tape
- 22 straight side to side joint with grain removal and with red plastic tape
- 23 straight side to side joint with grain removal and with white plastic tape
- 25 straight side to side joint with blue plastic tape
- 30 zig-zag joint with red plastic tape
- 31 zig-zag joint with white plastic tape
- 32 zig-zag joint with blue plastic tape

## Wide belts

Shape	Product Type	Dimensions (mm)				Grit size	Application
		Width		Length			
		min.	max.	min.	max.		
<b>PAPER</b>							
BFS	HEN231	501	1400	1500	3500	40-400	Grinding, sanding, finishing plane wood surfaces
BFS	HEN427E	501	1400	1500	3500		
<b>CLOTH</b>							
BFS	PE622X	501	1400	1500	3500	40-400	Grinding, sanding - metals
BFS	PES861X	501	1400	1500	3500	40-180	Grinding, sanding - plane wood surfaces
BFS	PEZ522X	501	1400	1500	3500	24-80	Grinding, sanding - plane wood surfaces Grinding, sanding - metal
BFS	PCN512X	501	1400	1500	3500	24-120	Grinding, sanding - plane wood surfaces Grinding, sanding - metal



### Packing:

5 - 10 pcs. depending on grit size and dimensions.  
Belts are manufactured according to ISO 2976:2005.

## Sinusoidal edges belts

Shape	Product Type	Dimensions (mm)				Grit size	Application
		Width		Length			
		min.	max.	min.	max.		
<b>CLOTH</b>							
BSN	PES861J	50	100	1000	4000	60-400	Profile sanding -wood, metal
BSN	PESJ222	50	100	1000	4000	60-600	Grinding, sanding- plane wood surfaces
BSN	PES861K	50	100	1000	4000	40-180	Grinding, sanding- plane wood surfaces



### Packing:

Depending on grit size and dimensions.  
Belts are manufactured according to ISO 2976:2005.

# Belts

## Medium and narrow belts

Shape	Product Type	Dimensions (mm)				Grit size	Application
		Width		Lenght			
		min.	max.	min.	max.		
<b>PAPER</b>							
BFS	HEN231	100	500	500	10000	40-400	Sanding, finishing - plane wood surfaces
BFS	HEN425E	100	500	500	10000		
BFS	HEN427E	100	500	500	10000		
<b>CLOTH</b>							
BFS	PE622X	20	500	300	10000	40-400	Grinding, sanding - metal
BFS	PES861J	10	500	300	10000	60-400	Profile sanding - wood, metal
BFS	PESJ222	10	500	300	10000	60-600	
BFS	PES861K	20	500	300	10000	40-180	Sanding - wood, metal
BFS	PES861X	40	500	300	10000	40-180	Sanding - plane wood surfaces
BFS	PEZ522X	50	500	300	10000	24-80	Sanding - plane wood surfaces Grinding, sanding metal
BFS	PCN512X	50	500	300	10000	24-120	Sanding - plane wood surfaces Sanding glass, ceramics, stone, rubber
BFS	PCN622X	10	500	300	10000	60-400	Wet sanding - glass, plastic ceramics, stone, nonferous metals
<b>NON-WOVEN</b>							
BFS	AE630SC	10	300	300	2000	80; 120; 180; 320	Fine finishing - metal



### Packing:

5-10 pcs. Depending on grit size and dimensions.  
Belts are manufactured according to ISO 2976:2005.

## Belts set

Shape	Product Type	Dimensions (mm)		Grit size	Application
		Width	Lenght		
<b>CLOTH</b>					
S-B	PESX	65	400	40-180	Sanding - wood, metal
S-B	PESX	65	410	40-180	
S-B	PESX	75	457	40-180	
S-B	PESX	75	510	40-180	
S-B	PESX	75	533	40-180	
S-B	PESX	75	610	40-180	
S-B	PESX	100	560	40-180	
S-B	PESX	100	610	40-180	
S-B	PESX	100	620	40-180	

### Packing:

3 belts/set, 10 sets/box.  
Belts set are manufactured according to ISO 2976:2005.



# Rolls

## Rolls

Shape	Product type	Dimensions				Grit size	Application
		Wide (mm)		Lenght (m)			
		min.	max.	min.	max.		
<b>PAPER</b>							
RUL	HASS	115	115	100	100	180-400	Finishing - coated/varnished wood surfaces
RUL	HASSB	115	115	10	10	120-400	
RUL	HEN231	100	1400	1	100	40-400	Finishing - coated/varnished wood surfaces
RUL	HEN425E	100	1400	1	100		
RUL	HEN427E	100	1400	1	100		
<b>CLOTH</b>							
RUL	PE622X	40	1400	1	100	40-400	Grinding, sanding - metal
RUL	PE840X	100	1000	10	50	40-400	Hand use - universal product
RUL	PES861J	10	1100	10	100	60-400	Profile sanding - wood, metal
RUL	PESJ222	10	1100	10	100	60-600	
RUL	PES861K	50	1400	10	100	40-180	Sanding - wood, metal
RUL	PES861X	120	1400	10	100	40-180	Plane surfaces sanding - Wood
RUL	PEZ522X	120	1400	10	100	24-80	Plane sanding - wood Grinding, sanding - metal
RUL	PCN512X	120	1400	1	100	24-120	Plane sanding - wood Sanding - glass, ceramics, rubber
RUL	PCN622X	120	1400	1	100	60-400	Wet sanding - glass ceramics, stone, nonferrous metals, plastic
<b>NON-WOVEN</b>							
RUL	AE630A	100	100	10	10	80;120;180;320	Sanding, finishing - wood metal



### Packing:

5 pcs.  
Rolls are manufactured according to ISO 3366:1999.

## Split rolls

Shape	Product Type	Dimensions				Split's wide (mm)	Grit size	Application
		Wide (mm)		Lenght (m)				
		min.	max.	min.	max.			
<b>CLOTH</b>								
RSP	PES861J	50	300	50	100	3; 4; 5; 6; 8; 10	60-400	Profile sanding - wood, metal
RSP	PESJ222	50	300	50	100		60-600	
RSP	PES861K	50	300	50	100		40-180	Sanding - wood, metal



### Packing:

1 pcs./box  
Rolls are manufactured according to ISO 3366:1999.

## DIY rolls

Shape	Product Type	Dimensions		Grit size	Application
		Wide (mm)	Lenght (m)		
		min.	min.		
<b>CLOTH</b>					
RUL	PESJ	100;115;120	1;3;5	60-600	Profile sanding - Wood, metal
RUL	PESK	100;115;120	1;3;5	40-180	Sanding - wood, metal
RUL	PESX	100;115;120	1;3;5	40-180	



### Packing:

10, 15, 25 rolls/box depending on dimensions and product grit size.  
Rolls are manufactured according to ISO 3366:1999.

# Sheets

## Sheets

Shape	Product Type	Dimensions				Grit size	Application
		Wide (mm)		Length (m)			
		min.	max.	min.	max.		
<b>PAPER</b>							
Fyx	HASS	80	230	170	280	180-400	Finishing-coated/varnished wood surfaces
FOI	HWOD	230	230	280	280	60-1200	
FOI Fyx VFx	HEN231	50	1400	50	1000	40-400	Sanding, finishing plane surfaces - wood
	HENR	50	1400	50	1000		
	HEN425E	50	1400	50	1000		
	HEN427E	50	1400	50	1000		
<b>CLOTH</b>							
FOI FOM Fyx	PE622X	40	1400	1	100	40-400	Grinding, sanding- metal
	PES861J	100	1000	10	50	40-400	Profile sanding - Wood, metal
	PESJ222	10	1100	10	100	60-400	Sanding- wood, metal
	PES861K	10	1100	10	100	60-600	Plane sanding - wood, metal
	PES861X	50	1400	10	100	40-180	Sanding- wood, glass, ceramics, rubber
FOM	PEZ522X	200	1000	280	1000	24-80	Wet sanding Glass, ceramics, Rubber
FOI FOM	PCN512X	200	500	280	1000	24-120	Sanding, finishing - wood, metal
	PCN622X	90	500	280	1000	60-400	Polishing - metal
<b>NON-WOVEN</b>							
FOI	AE630A	60	150	100	280	80;120;180;320	Sanding, finishing - wood, metal
<b>FELT</b>							
FOI;FOM	APSL	100	1000	1000	3500		Polishing - metal

### Packing:

Sheets – 50 pcs./box,

Fyx; VFx - 10 pcs./box,

FOM – 20 pcs./box

Sheets are manufactured according to

ISO 21948:2001 and ISO 21949:2001 standards.



## Rectangular sheets set

Shape	Product type	Dimensions (mm)		Grit size	Application
		wide	length		
<b>PAPER</b>					
S-F	HCNHIDRO	230x280		60-1200	Wet sanding - Putty, varnish, paint
S-F	HEN	120x280; 230x280		40-400	Sanding, finishing plane surfaces - wood
<b>CLOTH</b>					
S-F	PESJ	120x280; 230x280		60-600	Profile sanding - wood, metal
S-F	PESK			40-180	Sanding- wood, metal
S-F	PESX			40-180	Sanding plane surfaces - wood
<b>NON-WOVEN</b>					
S-F	AE	120x280		80;120;180;320	Sanding, finishing - wood, metal
<b>FELT</b>					
S-F	APL421Q	115x280		40-150	Sanding - Wall, plaster

### Packing:

S-F – 5 pcs./set, exception:

S-F – HCNHIDRO – 10 pcs./set

S-F – APL421Q – 10 pcs./set

Sheet sets are manufactured according to

ISO 21948:2001.



# Discs

## Plane discs

Shape	Product Type	Dimensiuni (mm)				Grit size	Application
		External Diameter		Internal Diameter			
		min.	max.	min.	max.		
<b>PAPER</b>							
DIS	HWOD	50	1050	22	40	60-1200	Wet or dry sanding - putty paint
	HEN231	50	1050	22	40	40-400	Sanding, finishing plane surfaces wood
	HEN425E	50	1050	22	40		
	HEN427E	50	1050	22	40		
<b>CLOTH</b>							
DIS DDF	PE622X	115	750	22	100	40-400	Grinding, sanding - metal
	PES861J	115	500	22	50	60-400	Profile sanding - wood, metal
	PESJ222	115	500	22	100	60-600	
	PES861K	115	800	22	100	40-180	Sanding- wood, metal
	PES861K	115	1050	22	100	40-180	Sanding plane surfaces - wood
	PEZ522X	115	900	22	100	24-80	Plane sanding- wood Grinding, sanding - metal
	PCN512X	115	1050	22	100	24-120	Plane sanding- wood Grinding, sanding - metal
PCN622X	115	600	22	100	60-600	Wet sanding - glass, ceramics, rubber	
<b>NON-WOVEN</b>							
DIS	AE630A	50	1050	22	25	80;120; 180;320	Sanding, finishing - wood, metal
	AE630SC	50	1050	22	25		Fine finishing -metal
<b>SANDING SCREEN</b>							
DIS	APL421Q	115	406	20	40	40-150	Sanding- wall, plaster
<b>FELT</b>							
DIS	APSL	125	400	10	32		Polishing - metal



### Packing:

DIS – 50 pcs./box; DDF - 25 buc./box.

DIS APSL - 10 pcs./box;

Discs are manufactured according to ISO 21950:2001.

## Velcro discs with or without holes

Shape	Product Type	Dimensions (mm)		Grit size	Application
		External diameter			
		min.	max.		
<b>PAPER</b>					
Vx	HENR	115	400	40-400	Sanding -wood, metal
	HEN5R	115	150	40-400	Sanding -wood, metal
	HEN5AS	115	150	40-400	Sanding -wood, metal putty, paint
	HEN5GS	115	150	40-600	Wet or dry sanding - wood, metal, varnish, putty, paint
	HEN5VS	115	250	40-1200	

### Packing:

Vx – 50 or 100pcs./box, depending on grit size.

Discs are manufactured according to ISO 21950:2001 and 21951:2001 standards.





# Discs

## Velcro discs with or without holes

Shape	Product Type	Dimensions (mm)		Grit size	Application
		External diameter x holes			
<b>PAPER</b>					
SV	HENR	115; 115x8		40-400	Sanding- wood, metal
	HEN5R	125; 125x8		40-400	Sanding- wood, metal
	HEN5AS	150; 150x6		40-400	Sanding- wood, metal, putty, paint
	HEN5GS	180		40-600	Wet or dry sanding - wood, metal, putty, varnish, paint
	HEN5VS	230		40-1200	
<b>FELT</b>					
SVP	APSL	125; 150		-	Polishing- metal

### Packing:

SV – 5 pcs./set., 30 sets/box

Disc sets are manufactured according to ISO 21950:2001 and ISO 21951:2001 standards.



## Plane discs set

Shape	Product Type	Dimensions (mm)				Grit size	Application
		External Diameter		Internal Diameter			
		min.	max.	min.	max.		
<b>CLOTH</b>							
SDP	PEX	115	235	22	22	40-400	Sanding - wood, metal
	PESK	115	235	22	22	40-180	Sanding -lemn, metale
	PCNX	115	235	22	22	24-120	Plane sanding- wood, glass, ceramics, rubber
<b>FIBER</b>							
SSF	FE	115	180	22	22	16-100	Grinding, sanding - metal
	FCN	115	180	22	22	16-100	Sanding- wood, stone, metal nonferrous metals
<b>FELT</b>							
SVP	APSL	115	150				Polishing- metal

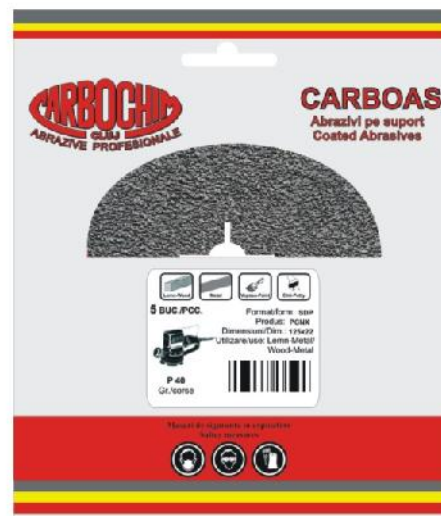
### Packing:

SDP – 5 pcs./set, 30 sets/box

SSF – 5 pcs./set, 15 sets/box

SVP – 2 pcs./set, 10 sets/box

Disc sets are manufactured according to ISO 21950:2001 and ISO 21951:2001 standards.



# Flap wheels

## Flap wheels coding

<u>L</u>	<u>P</u>	<u>4</u>	<u>200 x 50 x 32</u>	<u>P</u>	<u>E</u>	<u>X</u>	<u>1</u>	<u>Gran. 240</u>
1.	2.	3.	4.	5.	6.	7.	8.	9.

### 1. Shape code

L – flap wheels

### 2. Flaps disposal

P – brush type

R – in flat flaps

S – split flaps

E – helicoidal flaps

F – flap discs

### 3. Shape

0 – shaft mounted

1 – recessed bore

2 – double side recessed bore

3 – with bore and nut

4 – with bore and metallic flanges

A – flap discs with aluminum backing

D – Flat flap discs with fiber glass backing

I – Tapered flap discs with fiber glass backing

### 4. Dimensions (mm)

- Shaft mounted flap wheels:

*External diameter x wide x shaft diameter*

- Bore flap wheels:

*External diameter x wide x internal diameter*

- Flap discs:

*External diameter x internal diameter*

### 5. Flap wheel structure

A – non-woven abrasive flaps

P – abrasive cloth flaps

AH – abrasive cloth and abrasive paper flaps

PA – abrasive cloth and non-woven abrasive flaps

PP – abrasive cloth and natural brush flaps

PS – abrasive cloth and synthetic brush flaps

### 6. Grain type

E – normal electrocorundum

ES – semifriable electrocorundum

EN – white electrocorundum

EZ – zirconia electrocorundum

CN – black silicon carbide

### 7. Cloth backing type

J – thin and flexible cloth

K – medium cloth

X – thick cloth

### 8. Internal coding

### 9. Grit size.

Grit size is according to FEPA, P series standard.

Grit range can be found in the table of each flap wheel shape.



# Flap wheels

## Shaft mounted flap wheels

Shape	Product Type	Dimensions (mm)				Shaft	Grit size	Shaft mounted wheel Structure	Application
		External diameter		Internal diameter					
		min.	max.	min.	max.				
LPO	PEX	30	100	20	50	6	40-180	Abrasive cloth flaps	Sanding - Metal
	PEX1	30	100	20	50	6	220-400		Finishing - Metal
	PEX2	30	100	20	50	6	40-180		Grinding - Metal
	PEZ	30	100	20	50	6	40-120		Sanding - Metal (INOX)
	PAEJ	30	100	20	50	6	220-400	Abrasive cloth and Non-woven flaps	Finishing - Metal
	PAEX	30	100	20	50	6	40-180		Sanding - Metal
	PAEX1	30	100	20	50	6	220-400		Finishing - Metal
	AE	30	100	20	50	6	60-400	Non-woven flaps	Fine finishing - Metal
	APSL-403	30	100	20	50	6		Felt flaps	Polishing - metal
	APSL-405	30	100	20	50	6			

### Packing:

40 pcs. /Box

Shaft mounted flap wheels are manufactured according to ISO 3919:1999 and SR EN 13743:2009 standards.



# Flap wheels

## Flap wheels with bore

Shape	Product type	Dimensions (mm)				Bore	Grit size	Flap wheel Structure	Application
		External diameter		Length					
		min.	max.	min.	max.				
<b>BRUSH TYPE FLAP WHEELS</b>									
LP4	PEX	100	600	20	100	20; 32; 50,8	40-180	Abrasive cloth flaps	Metal sanding
	PEX1								Metal finishing
	PEX2								Metal grinding
	PEZ	100	400	20	100		220-400	Abrasive cloth and Non-woven Flaps	Metal sanding (INOX)
	PAEJ								Metal finishing
	PAEX								Metal sanding
	PAEX1						Metal finishing		
AE					80;120; 180;320	Non-woven abrasive flaps	Metal fine finishing		
<b>SPLIT FLAP WHEELS</b>									
LS4	PPEJ	180	300	50; 75; 100	20; 32; 50,8	60-400	Abrasive cloth and natural brush flaps	Wood profiles sanding	
	PSEJ								
	PSEJ5					Abrasive cloth and synthetic brush flaps	Wood profiles sanding		
	PSEK						Wood profiles sanding		
	PSEX						Wood profiles sanding		
	PSEX2						Wood profiles sanding		
<b>HELICOIDAL FLAP WHEELS</b>									
LE4	PEJ	150	350	25	50	20; 32; 50,8	60-360	Abrasive cloth flaps	Wood profiles sanding
	PEJ5						60-360	Abrasive cloth flaps	Wood profiles sanding
	PEK						60-180	Abrasive cloth flaps	Wood profiles sanding
	PEX						60-240	Abrasive cloth flaps	Wood profiles sanding
	PEX2						60-400	Abrasive cloth flaps	Wood profiles sanding

### Packing:

In accordance with dimensions, product, grit size or order.

Flap wheels with bore are manufactured according to ISO 2976:2005 and SR EN 13743 :2009 standards.



# Flap wheels

## Flap discs

Shape	Product type	Dimensions (mm)			Grit size	Flap disc structure	Application
		Diameter		Bore			
		min.	max.				
<b>ALUMINIUM BACKING FLAP DISCS</b>							
LFA	PEZ	115	115	22	40-120	Abrasive cloth flaps	Grinding metal (INOX)
<b>FLAT FIBER GLASS BACKING FLAP DISCS</b>							
LFD	PEX	115	180	22	40-180	Abrasive cloth flaps	Sanding metal
	PEX1				220-400	Abrasive cloth flaps	Finishing metal
	PEX2				40-180	Abrasive cloth flaps	Grinding metal
	PEZ				40-120	Abrasive cloth flaps	Grinding metal (INOX)
	PCNX				60-120	Abrasive cloth flaps	Grinding stone
<b>TITLED FIBER GLASS BACKING FLAP DISCS</b>							
LFI	PEX	115	180	22	40-180	Abrasive cloth flaps	Sanding metal
	PEX1				220-400	Abrasive cloth flaps	Finishing metal
	PEX2				40-180	Abrasive cloth flaps	Grinding metal
	PEZ				40-120	Abrasive cloth flaps	Grinding metal (INOX)
	AESC				80;120; 180; 320	Non-woven with fiber glass insertion abrasive flaps	Finishing metal
LF4	AE	115	180	22	80;120; 180;320	Non-woven abrasive flaps	Finishing metal
	PAEX				40-180	Cloth and non-woven intercalated abrasive flaps	Finishing metal
	PAEX1				220-400		
LF5	APSL406	115	115	22		Felt flaps	Polishing metal

### Packing:

10 pcs./box

Flap discs are manufactured according to ISO15635:2001 and SR EN 13743:2009 standards.



# Safety rules

## General safety rules

Abrasive products improperly used can be very dangerous.

- Always follow the instructions provided by the abrasive product and machine supplier.
- Ensure that the abrasive product is suitable for its intended use. Examine all abrasive products for damage or defects before mounting.

- Follow the correct procedures for handling and storage of abrasive products.

Be aware of the hazards likely during the use of abrasive products and observe the recommended precautions to be taken:

- Bodily contact with the abrasive product at operating speed.
- Injury resulting from product breakage during use.
- Grinding debris, sparks, fumes and dust generated by the grinding process.
- Noise.
- Vibration.

Use only abrasive products conforming to the highest standards of safety. These products will bear the relevant EN standard number EN12413.

Never use a machine that is not in good working order or one with defective parts.

Employers should carry out a risk assessment on all individual abrasive processes to determine the appropriate protective measures necessary. They should ensure that their employees are suitably trained to carry out their duties.

## PRECAUTIONS AGAINST LIKELY HAZARDS

### Bodily contact with the abrasive product

Always take great care and attention when using abrasive products. Tie back long hair and do not wear loose clothing, ties and jewellery.

Prevent accidental start-up of the machine before mounting or changing an abrasive product.

Isolate machines from their power source where necessary.

Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted before starting the machine.

Always use gloves and suitable clothing where the workpiece or machine is hand-held. For gloves, a minimum protection level of EN 388 Category 2 is recommended.

After switching off the machine, ensure the product has come to rest before leaving the machine unattended.

### Injury caused by product breakage

Always handle abrasives with great care, they are easily damaged.

Examine all products for defects or damage before use.

Store abrasives in dry, frost-free conditions avoiding wide variations in temperature.

Ensure they are properly protected and supported to prevent damage and distortion.

Coated abrasives should be stored at 18-22° C, 45-65% relative humidity.

Abrasive belts should be hung on a rod or peg not less than 50mm diameter.

Check abrasive product or package for any warnings or other safety information.

### Noise

Ear protection complying with EN352 is recommended for all applications where the workpiece or machine is hand-held, irrespective of the noise level.

Ensure that the correct abrasive product is selected. An unsuitable product can produce excessive noise.

### Vibration

Processes where the workpiece or machine is hand-held can cause vibration injury.

Action needs to be taken if tingling, pins and needles or numbness is experienced after 10 minutes continuous use of the abrasive product.

The effects of vibration are more pronounced in cold conditions so keep the hands warm and exercise hands and fingers regularly. Use modern equipment with low vibration levels.

Maintain all equipment in good condition and stop the machine and have it checked if excessive vibration occurs.

Use good quality abrasive products and keep them in good condition during their life.

Maintain mounting flanges and back-up pads in good condition and replace if worn or distorted.

Do not grip the workpiece or machine too tightly and do not exert excessive pressure on the abrasive product.

Avoid continuous use of the abrasive product.

Use the correct product. An unsuitable product can produce excessive vibration.

Don't ignore the physical symptoms of vibration - seek medical advice.

# Safety rules

## Injury caused by product breakage

- Ensure that the correct abrasive product is selected. Never use a product if it cannot be properly identified.
- Follow the instructions provided by the abrasive product or machine supplier when mounting abrasive products.
- Observe any mounting indications marked on the product such as direction of run or mounting position.
- Never force the abrasive product onto the mounting fixture or modify it to fit.
- Never exceed the maximum operating speed where specified.
- Check that the correct mounting devices are used and that they are undistorted, clean and free from burrs.
- Use mounting blotters where supplied.
- Do not tighten the mounting device excessively.
- After mounting or re-mounting an abrasive product, conduct a trial run at operating speed with the guard in place for at least 30 seconds, standing clear of the machine before use.
- Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted.
- Ensure that the workpiece is secure and properly supported. Ensure that work rests are properly adjusted and secure.
- Never start the machine with the workpiece in contact with the abrasive product.
- Never apply excessive force or shock to the abrasive product or let it overheat.
- Do not grind on the part of the product that is not designed for the operation. Avoid grinding with the edge of abrasive belts, use the centre of the belt if possible.
- Avoid clogging and uneven wear to ensure that the abrasive product is working efficiently.
- Let the abrasive product stop naturally, not by applying pressure to its surface.
- Turn off and spin out excess coolant before stopping the machine.
- Do not leave abrasive belts under tension when not in use.

## Grinding debris sparks, dust and fumes

- Exposure to dust generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.
- All dry grinding processes should be provided with adequate extraction facilities.
- Do not use abrasive products near flammable materials.
- The use of respirators complying with EN149 is recommended for dry grinding processes even if extraction systems are provided.
- Guards where provided should be adjusted to deflect sparks and debris away from the operator.
- Take additional measures to protect people working nearby.
- Eye protection minimum EN166 B level protection level is recommended for all machine using abrasive products.
- Be sure that you have chosen the appropriate abrasive product. An unappropriated product can produce dust in excess.

## Disposal of abrasives

- Used or defective abrasives should be disposed in accordance with local or national regulations.
- Further information can be obtained from material safety data sheets provided by the supplier.
- Be aware that the abrasive product may be contaminated with material from the workpiece or process after use.
- Disposed abrasive products should be damaged to prevent them from being taken from waste skips and reused



Not permitted for hand-held or manually-guided grinding.



Not permitted for wet grinding.



Do not use if damaged.



Not permitted for face grinding.



Read the instructions



Wear eye protection



Wear hearing protection



Wear a respirator



Wear gloves



Only permitted with a back-up pad



Over 60 years experience



**CARBOCHIM SA**  
Pta 1 Mai, nr. 3, Cluj Napoca, Romania  
Tel. 0264 437 005; Fax: 0264 437 026  
[www.carbochim.ro](http://www.carbochim.ro), [sales@carbochim.ro](mailto:sales@carbochim.ro)  
ISO 9001/2008 SR ISO 14001/2005

