

# Non-woven tools

## POLINOX® unmounted grinding wheels



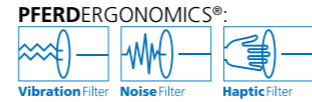
Made of radially arranged flaps of non-woven abrasive material. A long tool life is achieved through the dense packing of the flaps.

This tool is mainly used for work on large surfaces.

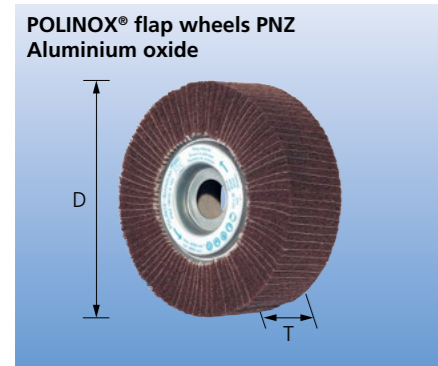
**Abrasive: Aluminium oxide A**

**Ordering note:**  
Please order arbor separately.

**Ordering example:**  
EAN 4007220479667  
PNL 15050/25.4 A 100  
Please complete the description with the desired grit size.



| Description      | Grit size   |        |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Suitable arbors |   |
|------------------|-------------|--------|--------|------------|--------|--------------------|------------------------|-----------------|---|
|                  | 100         | 180    | 280    |            |        |                    |                        |                 |   |
|                  | EAN 4007220 |        |        |            |        |                    |                        |                 |   |
| PNL 15050/25,4 A | 479667      | 479674 | 479681 | 150 x 50   | 25.4   | 2,000              | 4,000                  | FR/VR 12/25,4   | 1 |
| PNL 20050/44 A   | 479698      | 479704 | 479711 | 200 x 50   | 44     | 1,500              | 3,000                  | FR/VR 12/44,0   | 1 |



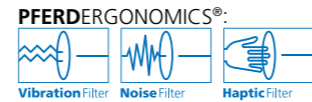
The non-woven abrasive is arranged in multiple radial flaps, with abrasive cloth interlayers.

This flap structure permits improved stock removal and produces a coarser finish.

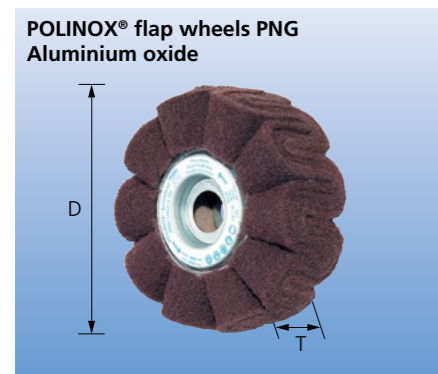
**Abrasive: Aluminium oxide A**

**Ordering note:**  
Please order arbor separately.

**Ordering example:**  
EAN 4007220479728  
PNZ 15050/25.4 A 100  
Please complete the description with the desired grit size.



| Description      | Grit size   |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Suitable arbors |   |
|------------------|-------------|--------|------------|--------|--------------------|------------------------|-----------------|---|
|                  | 100         | 180    |            |        |                    |                        |                 |   |
|                  | EAN 4007220 |        |            |        |                    |                        |                 |   |
| PNZ 15050/25,4 A | 479728      | 479735 | 150 x 50   | 25.4   | 2,000              | 4,000                  | FR/VR 12/25,4   | 1 |
| PNZ 20050/44 A   | 479759      | 479766 | 200 x 50   | 44     | 1,500              | 3,000                  | FR/VR 12/44,0   | 1 |



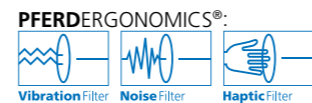
Made of several very wavy arranged strips of non-woven material, wound around a core.

The wavy structure of the non-woven material permits seamless brush matting of surfaces.

**Abrasive: Aluminium oxide A**

**Ordering note:**  
Please order arbor separately.

**Ordering example:**  
EAN 4007220479780  
PNG 15050/25.4 A 100  
Please complete the description with the desired grit size.

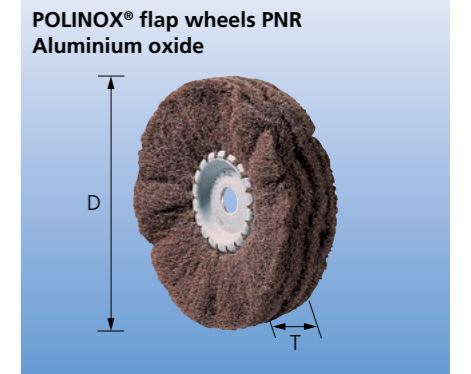


| Description      | Grit size   |        |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Suitable arbors |   |
|------------------|-------------|--------|--------|------------|--------|--------------------|------------------------|-----------------|---|
|                  | 100         | 180    | 280    |            |        |                    |                        |                 |   |
|                  | EAN 4007220 |        |        |            |        |                    |                        |                 |   |
| PNG 15050/25,4 A | 479780      | 479797 | 479803 | 150 x 50   | 25.4   | 2,000              | 4,000                  | FR/VR 12/25,4   | 1 |
| PNG 20050/44 A   | 479810      | 479827 | 479834 | 200 x 50   | 44     | 1,500              | 3,000                  | FR/VR 12/44,0   | 1 |



# Non-woven tools

## POLINOX® unmounted grinding wheels



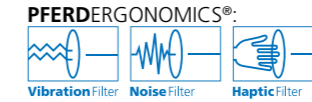
Made of several slightly wavy arranged strips of non-woven material, wound around a metal core.

The open structure and high flexibility of the non-woven material enables exceptional adaption to contours. Suitable for seamless brush matting of surfaces, profiles and pipes.

**Abrasive: Aluminium oxide A**

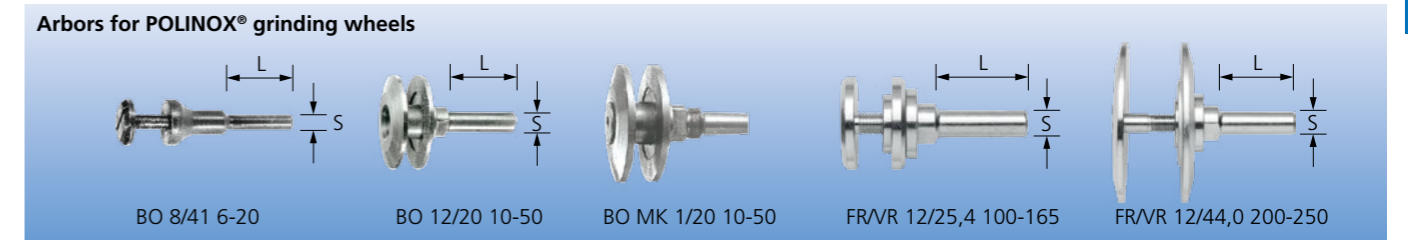
**Ordering note:**  
Please order arbor separately.

**Ordering example:**  
EAN 4007220293546  
PNR 10035/10 A 180  
Please complete the description with the desired grit size.



| Description    | Grit size   |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Suitable arbors                     |   |
|----------------|-------------|--------|------------|--------|--------------------|------------------------|-------------------------------------|---|
|                | 180         | 280    |            |        |                    |                        |                                     |   |
|                | EAN 4007220 |        |            |        |                    |                        |                                     |   |
| PNR 10035/10 A | 293546      | 293560 | 100 x 35   | 10     | 2,500              | 5,500                  | BO 8/10 6-20                        | 1 |
| PNR 15040/20 A | 293577      | 293584 | 150 x 40   | 20     | 2,000              | 4,000                  | BO 12/20 10-50,<br>BO MK 1/20 10-50 | 1 |

### Arbors

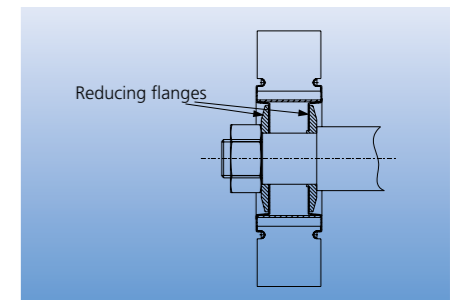


| Description           | EAN 4007220 | S x L [mm] | Clamping width [mm] | Suitable for centre hole dia. [mm] |   |
|-----------------------|-------------|------------|---------------------|------------------------------------|---|
| BO 8/10 6-20          | 297667      | 8 x 30     | 6-20                | 10                                 | 1 |
| BO 12/20 10-50        | 297674      | 12 x 35    | 10-50               | 20                                 | 1 |
| BO MK 1/20 10-50      | 297681      | -          | 10-50               | 20                                 | 1 |
| FR/VR 12/25,4 100-165 | 479643      | 12 x 40    | 25-50               | 25.4                               | 1 |
| FR/VR 12/44,0 200-250 | 479650      | 12 x 40    | 25-50               | 44                                 | 1 |



For mounting flap wheels and POLINOX® grinding wheels on drive spindles. The centre hole of the flange can be drilled out according to the dimension of the given drive spindle. The clamping flanges are designed to lie countersunk in the tool.

**Supplied content:**  
■ 1 pair, centre hole dia. 12 mm



| Description               | EAN 4007220 | Centre hole dia. [mm] | Max. centre hole dia. [mm] | Suitable for tool dia. [mm] |   |
|---------------------------|-------------|-----------------------|----------------------------|-----------------------------|---|
| RF FR 150-165 Bo. 12-22,2 | 509876      | 12                    | 22.2                       | 150                         | 1 |
| RF FR 200-250 Bo. 12-40   | 498460      | 12                    | 40                         | 200                         | 1 |



# Non-woven tools

## POLINOX® grinding drums



The non-woven abrasive material is arranged in radial flaps. The tightly-packed flaps ensure a long tool life.

In the case of PNZ-W grinding drums, additional abrasive cloth is located between the flaps. The flap arrangement results in a higher stock removal rate and produces a coarser finish.

Grinding drums are particularly suitable for working on large surfaces.

### Advantages:

- Cool grinding and low thermal load on the workpiece
- No clogging of the tool

### Ordering note:

The centre hole diameter of 19 mm with 4 wedge keyways fits on all conventional drum drives.

For further drum tools, please refer to page 70, 104, for the sets to page 72 or to Catalogue 208.

Suitable tool drives can be found in Catalogue 209.

### Ordering instructions:

When ordering, please state the EAN or the complete description. Please complete the description with the desired grit size.

**Ordering example:**  
EAN 4007220593523  
PNL-W 100100 A 100

**Ordering example explanation:**  
PNL-W = POLINOX® grinding drums  
100100 = Outer dia. D x width T [mm]  
A = Abrasive  
100 = Grit size

### Safety notes:

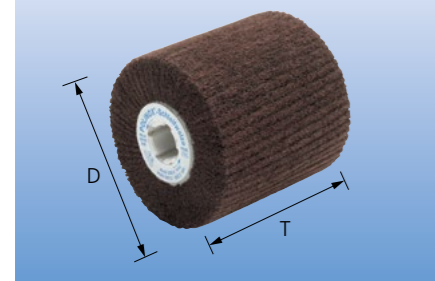
- For safety reasons, it is imperative to remain within the stated maximum permitted rotational speed at all time



PFERDERGONOMICS® recommends POLINOX® grinding drums to sustainably reduce vibration and noise levels during use and to improve working comfort.

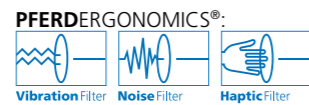


### POLINOX® grinding drums PNL-W



### Abrasive: Aluminium oxide A

**Ordering example:**  
EAN 4007220593523  
PNL-W 100100 A 100  
Please complete the description with the desired grit size.



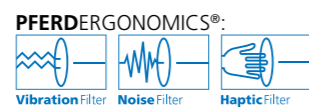
| Description    | Grit size |        |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Image |
|----------------|-----------|--------|--------|------------|--------|--------------------|------------------------|-------|
|                | 100       | 180    | 280    |            |        |                    |                        |       |
| EAN 4007220    |           |        |        |            |        |                    |                        |       |
| PNL-W 100100 A | 593523    | 593530 | 593547 | 100 x 100  | 19     | 2,500              | 4,800                  | 1     |

### POLINOX® grinding drums PNZ-W



### Abrasive: Aluminium oxide A

**Ordering example:**  
EAN 4007220593554  
PNZ-W 100100 A 60  
Please complete the description with the desired grit size.



| Description    | Grit size |        |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Image |
|----------------|-----------|--------|--------|------------|--------|--------------------|------------------------|-------|
|                | 60        | 80     | 120    |            |        |                    |                        |       |
| EAN 4007220    |           |        |        |            |        |                    |                        |       |
| PNZ-W 100100 A | 593554    | 593561 | 593578 | 100 x 100  | 19     | 2,500              | 4,800                  | 1     |



# Non-woven tools

## POLINOX® discs

POLINOX® discs are suitable for flexible work on complicated tool contours. They are used in peripheral grinding.

### Application examples:

- Deburring of ribs and deep fins
- Cleaning of cylinder heads
- Fine grinding of radiators

### Recommendations for use:

- Up to three discs can be clamped one behind another to increase the usage width
- POLINOX® discs achieve their best performance at a recommended cutting speed of 10–25 m/s

### Ordering note:

Please order arbor separately.

### Abrasive: Aluminium oxide A

**Ordering example:**  
EAN 4007220505847  
PVR 15008-13 A 100

Please complete the description with the desired grit size.



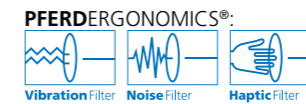
### Safety notes:

- For safety reasons, it is imperative to remain within the stated maximum permitted rotational speed at all times



### Ordering example explanation:

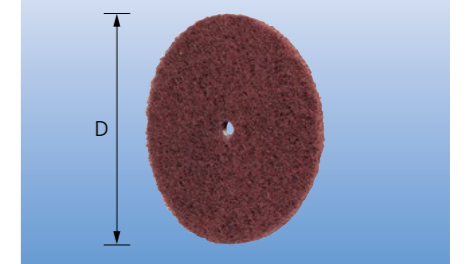
PVR = POLINOX® discs  
15008 = Outer dia. D x width T [mm]  
13 = Centre hole dia. H [mm]  
A = Abrasive  
100 = Grit size



PFERDERGONOMICS® recommends POLINOX® discs to sustainably reduce vibration and noise levels during use and to improve working comfort.



### POLINOX® discs



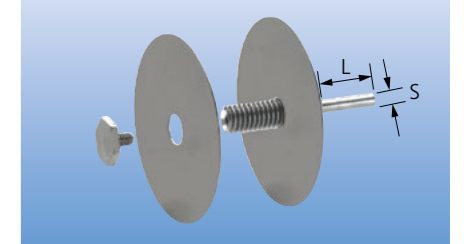
| Description    | Grit size |        | D x T [mm] | H [mm] | Recom. speed [RPM] | Max. perm. speed [RPM] | Suitable arbors | Image |
|----------------|-----------|--------|------------|--------|--------------------|------------------------|-----------------|-------|
|                | 100       | 280    |            |        |                    |                        |                 |       |
| EAN 4007220    |           |        |            |        |                    |                        |                 |       |
| PVR 5008-6 A   | 955796    | 955802 | 50 x 8     | 6      | 3,500–9,500        | 12,250                 | BO 6/6 3-10     | 10    |
| PVR 7508-6 A   | 955819    | 955826 | 75 x 8     | 6      | 2,500–6,400        | 8,150                  | BO 6/6 3-10     | 10    |
| PVR 10008-13 A | 955833    | 955840 | 100 x 8    | 13     | 1,900–4,700        | 6,150                  | PVR 6/13 1-25   | 10    |
| PVR 12508-13 A | 955857    | 955864 | 125 x 8    | 13     | 1,500–3,800        | 4,900                  | PVR 6/13 1-25   | 10    |
| PVR 15008-13 A | 505847    | 505861 | 150 x 8    | 13     | 1,300–3,100        | 4,100                  | PVR 6/13 1-25   | 10    |

Arbor for POLINOX® discs.

### Recommendations for use:

- The clamping depth is preset via a hexagonal nut on the shank side
- Up to three POLINOX® discs can be mounted. Supplied with one pair of side discs (50 and 80 mm diameter) in order to vary the lateral flexibility
- The tool can be changed from the front by slackening the mounting screw. The arbor needs not be removed from the tool drive to replace the tool.

### Arbors for POLINOX® discs



| Description   | EAN 4007220 | S x L [mm] | Clamping width [mm] | Suitable for centre hole dia. [mm] | Image |
|---------------|-------------|------------|---------------------|------------------------------------|-------|
| PVR 6/13 1-25 | 505878      | 6 x 35     | 1–25                | 13                                 | 1     |

