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**Coated abrasives — Flap wheels with  
incorporated flanges or separate flanges**

*Abrasifs appliqués — Roues à lamelles à flasques incorporés ou amovibles*

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Published in Switzerland

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5429 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

This third edition cancels and replaces the second edition (ISO 5429:2005), which has been technically revised.

Significant changes from ISO 5429:2005 are as follows:

- a) further dimensions have been included, i.e. in Table 1 additional widths of the flap wheel have been added;
- b) Table 1 has been editorially revised to be in line with ISO 3919.

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# Coated abrasives — Flap wheels with incorporated flanges or separate flanges

## 1 Scope

This International Standard specifies the nominal dimensions and limit deviations of flap wheels with incorporated flanges or separate flanges for use on stationary grinding machines.

## 2 Dimensions

See Figure 1 and Table 1.

## 3 Designation

Flap wheels with incorporated flanges or separate flanges conforming to this International Standard shall be designated by

- a) “Flap wheel”,
- b) a reference to this International Standard, i.e. ISO 5429,
- c) incorporated flange version A or separate flange version B,
- d) the diameter of the flap wheel,  $D$ , in millimetres,
- e) the width of the flap wheel,  $T$ , in millimetres, and
- f) the bore diameter,  $H$ , for version A, in millimetres.

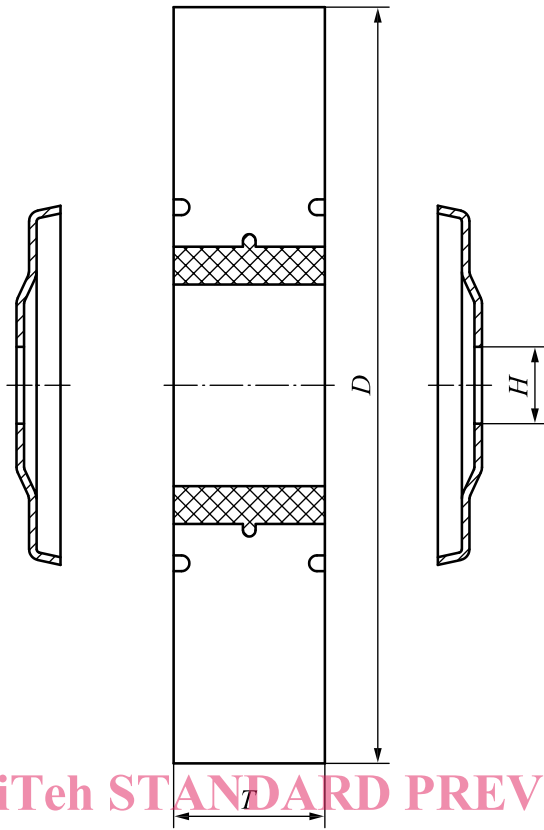
**EXAMPLE** A flap wheel with incorporated flange A, with diameter  $D = 350$  mm, width  $T = 75$  mm and bore diameter  $H = 40$  mm is designated as follows:

**Flap wheel ISO 5429 - A 350 × 75 × 40**

## 4 Marking

Flap wheels with incorporated flanges or separate flanges shall be marked with the following information:

- a) manufacturer, supplier, importer or their registered trademark;
- b) dimensions;
- c) maximum operating speed;
- d) maximum permissible speed of rotation;
- e) grit size.



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**Key**

*D* diameter of the flap wheel

*T* width of the flap wheel

*H* bore diameter for version A

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NOTE The sketch of the flange is given for information only, and does not prejudge the shape or the method of attaching the flange and the flap wheel.

**Figure 1 — Flap wheel**

**Table 1 — Dimensions of flap wheels**

Dimensions in millimetres

<i>D</i> ≈	<i>T</i> ±1					
	25	30	40	50	75	100
100	X	X	X	X	—	—
150	X	X	X	X	X	—
165	X	X	X	X	X	—
200	X	X	X	X	X	—
250	X	X	X	X	X	—
300	X	X	X	X	X	—
350	—	—	—	X	X	X
400	—	—	—	X	X	X
500	—	—	—	—	—	X
<i>H</i>	<sup>a</sup>					

<sup>a</sup> Dimensions *H* are left to the manufacturer's discretion.

## Bibliography

- [1] ISO 3919, *Coated abrasives — Flap wheels with shaft*

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**ICS 25.100.70**

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