



Catalogue stock items for universal grinding

English | 2024

Premium grinding solutions since 1919
www.tyrolit.com

TYROLIT

Content

| | |
|---|-----------|
| About company TYROLIT | 3 |
| Products marking system | 7 |
| Marking system | 7 |
| Standard marking of grinding tools | 8 |
| Standard shapes | 9 |
| 1 Mounted points | 13 |
| 321 – Mounted points – shape 52ZY | 13 |
| 322 – Mounted points – shape 52ZY | 17 |
| 323 – Mounted points – shape 52WK | 17 |
| 324 – Mounted points – shape 52A | 18 |
| 325 – Mounted points – shape 52KE | 18 |
| 326 – Mounted points – shape 52WR | 19 |
| 327 – Mounted points – shape 52SP | 20 |
| 328 – Mounted points – shape 52ZE | 20 |
| 329 – Mounted points – shape 52A | 21 |
| 331 – Mounted points – shape 52KU | 21 |
| 2 Grinding wheels – diameter D < 50,8mm | 22 |
| 361 – Straight grinding wheels with diameter $D < 50,8$ mm | 22 |
| 368 – One side recessed grinding wheels with diameter $D \leq 75$ mm | 23 |
| 372 – One side tapered grinding wheels with diameter $D < 50,8$ mm for sciling machines knives sharpening | 24 |
| 376 – Cup grinding wheels with diameter $D < 50,8$ mm | 25 |
| 3 Straight grinding wheels with diameter $D \geq 50,8$ mm | 26 |
| 411 – Straight grinding wheels with diameter $50,8 \leq D \leq 100$ mm | 26 |
| 412 – Straight grinding wheels with diameter $100 < D \leq 150$ mm | 27 |
| 413 – Straight grinding wheels with diameter $150 < D \leq 200$ mm | 30 |
| 414 – Straight grinding wheels with diameter $200 < D < 350$ mm | 34 |
| 415 – Straight grinding wheels with diameter $350 \leq D < 500$ mm | 38 |
| 416 – Straight grinding wheels with diameter $500 \leq D < 1000$ mm | 40 |
| 424 – Grinding wheels with inserted nuts | 42 |
| 432 – Porous straight grinding wheels for surface grinding | 43 |
| 441 – Ring grinding wheels | 44 |
| 4 Non-reinforcement cutting wheels | 45 |
| 451 – Non-reinforcement cutting wheels | 45 |
| 5 High-speed grinding wheels | 46 |
| 471 – Grinding wheels for working speed up to $50 \text{ m}\cdot\text{s}^{-1}$ – high-speed grinding wheels | 46 |
| 472 – Grinding wheels for working speed up to $63 \text{ m}\cdot\text{s}^{-1}$ | 47 |
| 476 – Grinding wheels for working speed up to $80 \text{ m}\cdot\text{s}^{-1}$ – high-speed grinding wheels with reinforcement | 48 |
| 6 Regulating/control wheels | 49 |
| 482 – Regulating wheels plain | 49 |
| 484 – Regulating wheels recessed both side | 49 |

| | |
|---|-----------|
| 7 Shaped grinding wheels – diameter \geq 50,8mm | 50 |
| 511 – One side recessed grinding wheels | 50 |
| 512 – One side recessed grinding wheels for surface grinding | 51 |
| 513 – One side recessed grinding wheels for working speed up to 50 m.s^{-1} | 52 |
| 516 – One side recessed grinding wheels | 53 |
| 517 – One side relieved and recessed grinding wheels | 54 |
| 522 – Both side recessed grinding wheels for surface grinding | 55 |
| 524 – Both sides recessed grinding wheels | 56 |
| 525 – Grinding wheels width $T \leq 6 \text{ mm}$ for snap gauges | 56 |
| 539 – Grinding wheels – form C for saw sharpening | 57 |
| 541 – One side tapered grinding wheels | 59 |
| 555 – Grinding wheels – form F | 60 |
| 571 – Cup grinding wheels for working speed up to 32 m.s^{-1} | 61 |
| 572 – Porous cup grinding wheels for surface grinding | 62 |
| 574 – Cup grinding wheels for working speed up to 40 m.s^{-1} | 63 |
| 575 – Tapered cup grinding wheels | 64 |
| 576 – Porous tapered cup grinding wheels | 65 |
| 581 – Dish grinding wheels | 66 |
| 8 Grinding segments, hand stones, files, honing stones and stones for scythes sharpening | 67 |
| 612 – Grinding segments – rectangle | 67 |
| 613 – Grinding segments – trapezoid | 68 |
| 637 – Grinding segments – rectangle and rounded | 69 |
| 638 – Grinding segments – ring | 69 |
| 641 – Grinding combination stones | 70 |
| 645 – Grinding hand stones – rectangle | 71 |
| 648 – Stones for scythes sharpening | 72 |
| 661 – Grinding files – square | 73 |
| 662 – Grinding files – rectangle | 74 |
| 668 – Grinding files – triangular | 74 |
| 671 – Grinding files – round | 75 |
| 672 – Grinding files – half round | 75 |
| 675 – Grinding files – knife blade shape | 76 |
| 681 – Honing stones – square | 77 |
| 682 – Honing stones – rectangle | 77 |
| 9 Dressing wheels, stones and truening stones for daimond wheels | 78 |
| 841 – Dressing wheels for device PERPLEX | 78 |
| 842 – Dressing wheels for device DIABOLO | 78 |
| 843 – Dressing stones – round | 79 |
| 844 – Dressing stones – square | 79 |
| 847 – Dressing stones for diamond wheels | 80 |
| 849 – Knives, scissors sharpener – fixing in drill power machine | 81 |
| Reducing rings | 82 |
| Reducing rings | 82 |
| General information | 83 |
| Products index | 93 |



Factors behind our success

TYROLIT today

TYROLIT, a company within the Swarovski Group, is positioned as one of the world's largest manufacturers of grinding, cut-off, sawing, drilling and dressing tools and as a supplier of tool and machine systems for the construction and natural stone industry.

Since it was founded in 1919, business at TYROLIT has been backed by one single OBJECTIVE: to produce the best tools and machines in the world.

Factors behind our success

Quality

The high quality standards applying to our products, our dealings within and outside of the company and the services we provide to our business partners are embodied in the company's strategic position.

Ongoing internal and external testing and inspection in accordance with the international standards ISO 9001:2000 and VDA6.4 provide for a sustained process of optimization. Aim: To continually increase the level of quality.

Innovation and technology

An essential factor in our success is the continuous development of new technologies suited to the needs of our customers, end users, our different markets and the environment. Our employees are constantly at work in the field of research, development and applications technology to ensure that TYROLIT remains what it has become: the market leader in innovation and technology. Worldwide.

People

The quality of our products and services starts with the quality of our employees.

We are fully aware of this, which is why we create a motivating, social environment that attracts the best, trains and develops them and makes them want to stay for the long term.



Logistics

On the basis of our central location in Europe, our global network of regional sites in Europe, Asia, and North and South America guarantees timely deliveries and individually tailored on-site services.

Expanding Tyrolit

The quality requirements on us and our 80,000 products and the resulting demands that creates have an impact.

Company Tyrolit and its workforce of 4655 employees are represented worldwide, with 29 production locations in 12 countries and a global network of sales organisations and distributors that is constantly expanding.



Customer relations

We value and foster dialogue with our customers. We keep them informed and provide training for new products and services, for applications and processes.

And we ask them about their experiences of using our product innovations so that we can continuously improve and develop our products.

At the TechCenter in Schwaz, at all distribution centres, and by providing on-site training related to individual customer's needs.

The environment

Millions euro we have invested in recent years in environmental activities, which are continuously monitored by ISO 14001-certification. This guarantees that all our products comply with maximum requirements regarding environmental sustainability, not only at manufacturing stage but also in their application and disposal.

And we are making further investments so that TYROLIT can retain its leading role in environmental protection.



How to order

Deliveries provides:

TYROLIT CEE k.s.
Tovární 363
294 71 Benátky nad Jizerou
Tel.: +420 326 766 111
Fax: +420 326 766 105
E-mail: cz.info@tyrolit.com

And wide net of business partners

For general terms and conditions of business,
visit: www.tyrolit.cz

Online ordering

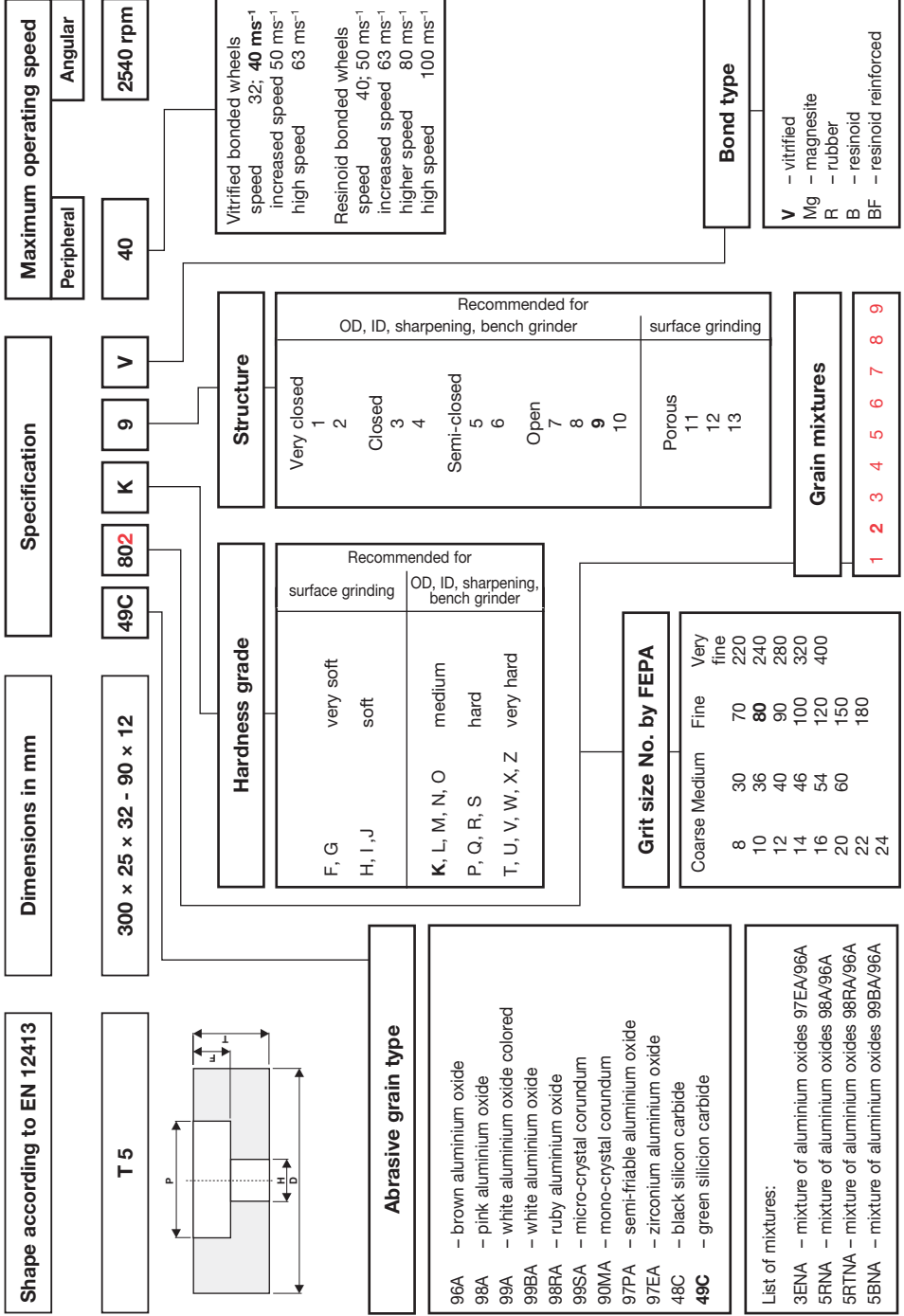
www.partner.tyrolit.com

For more information please contact your Tyrolit dealer.

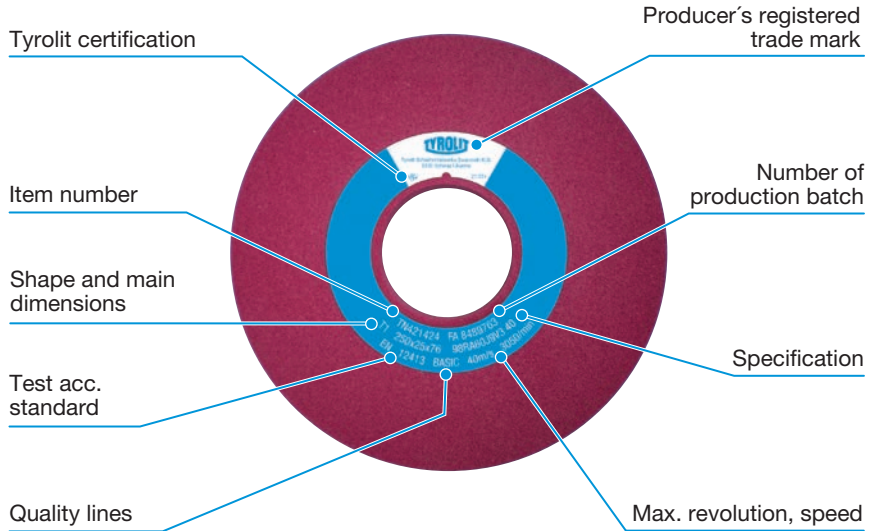
The benefits for you:

- Confirmation of price before ordering
- Confirmation of availability before ordering
- Prompt dispatch of you order plus confirmation of delivery date
- Instant up-date on the status of your order
- Secure payment site

MARKING SYSTEM

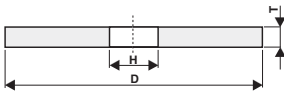


Standard marking of grinding tools



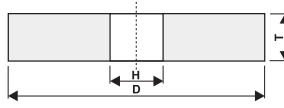
| | | |
|---|---|------------------------|
| Item No. (TN): Obj. čís. (TN): | 421424 | Item number |
| Shape/Dimensions (mm) Tvar/Rozměry (mm) | T1 250x25x76 | Shape and dimensions |
| Specification | 98RA60J9V3 40 | Specification |
| Production batch (FA): Výrobní šarže (FA): | 8489763 | Production batch |
| SAFE OPERATING SPEED NOT TO EXCEED MAXIMÁLNÍ PRACOVNÍ RYCHLOST | | |
| Revolution per minute (rpm) Otáčky za minutu (otr/min) | Peripheral speed (m/s) Obvodová rychlost (m/s) | |
| Hand off Ruční | Machine Strojní | Hand off Ruční |
| | 3050 | Machine Strojní |
| | | 40 |
| Quantity: Množství: | Pcs / Ks. | Max. working speed |
| Produced acc. standard Vyrobeno dle normy | EN 12413 | Produced acc. standard |

Standard shapes



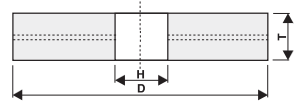
$D \times T \times H$

1



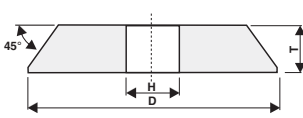
$D \times T \times H$

1



$D \times T \times H$

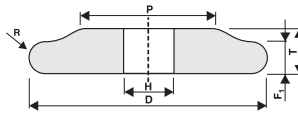
1



$D \times T \times H$

1

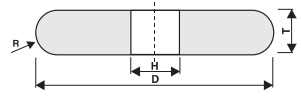
profil C



$D \times T \times H$

1

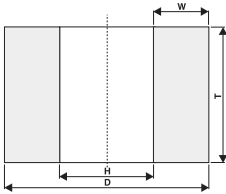
profil F₁



$D \times T \times H$

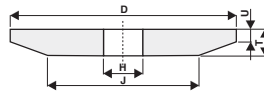
1

profil F



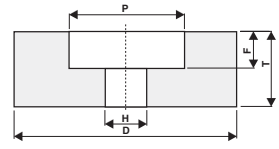
$D \times T - W$

2



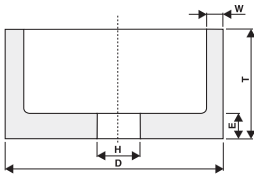
$D/J \times T/U \times H$

3



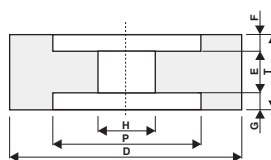
$D \times T \times H - P \times F$

5



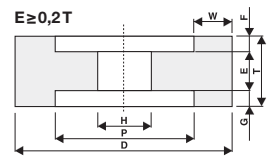
$D \times T \times H - W \times E$

6



$D \times T \times H - P \times F / G$

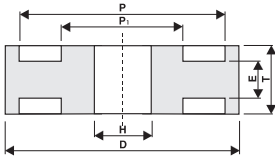
7



$D \times T \times H - W \times E$

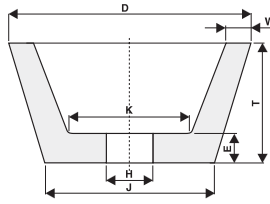
9

$E \geq 0,2T$



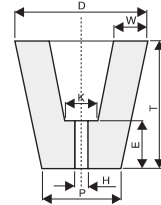
$D/P_1 \times T/E \times P/H - W \times E$

902



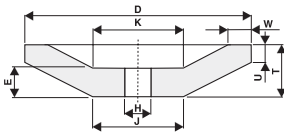
$D/J \times T \times H - W \times E \times K$

11



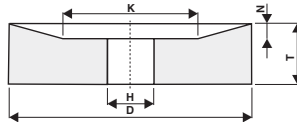
$D/P \times T \times H - W \times E \times K$

11



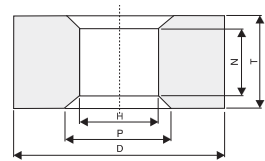
$D/J \times T/U \times H - W \times E \times K$

12



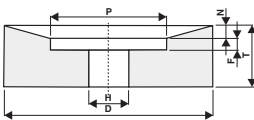
$D/K \times T/N \times H$

20



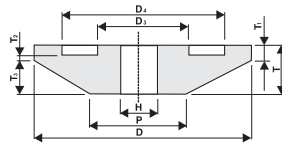
$D \times T/N \times P/H$

21



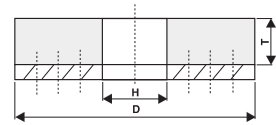
$D \times T/N \times H - P \times F$

23



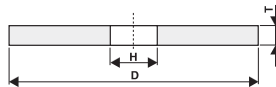
$D/P \times T/T_3/T_1 \times D_3/H 1A/D_4 \times T_2$

3WM2



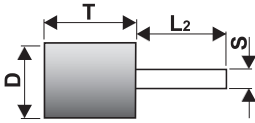
$D \times T \times H$

36



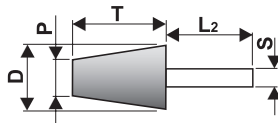
$D \times T \times H$

41



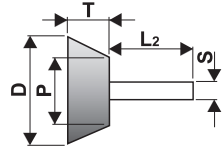
$D \times T - S \times L_2$

52ZY



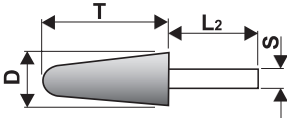
$D/P \times T - S \times L_2$

52WK



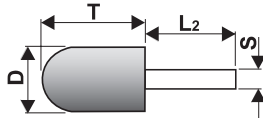
$D/P \times T - S \times L_2$

52A



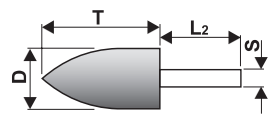
$D \times T - S \times L_2$

52KE



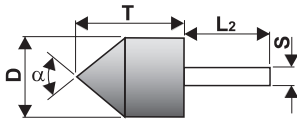
$D \times T - S \times L_2$

52WR



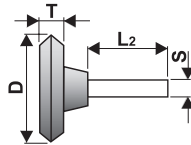
$D \times T - S \times L_2$

52SP



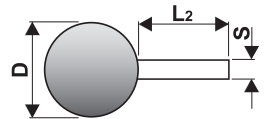
$D \times T - S \times L_2^a$

52ZE



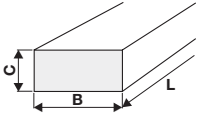
$D \times T - S \times L_2$

52A

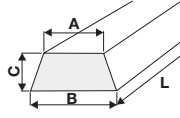


$D - S \times L_2$

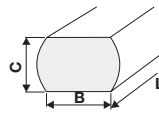
52KU



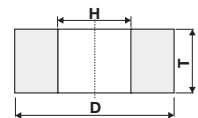
$B \times C \times L$
3101



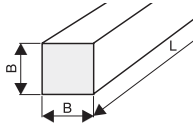
$B/A \times C \times L$
3109



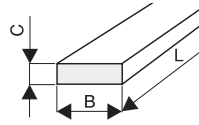
$B \times C \times L$
31S



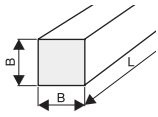
$D \times T \times H$
5420



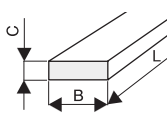
$B \times L$
5411



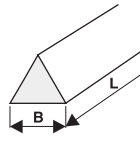
$B \times C \times L$
5410



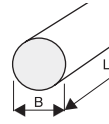
$B \times L$
9011



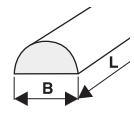
$B \times C \times L$
9010



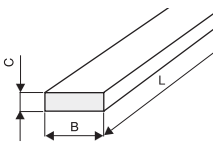
$B \times L$
9020



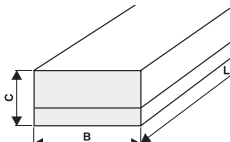
$B \times L$
9030



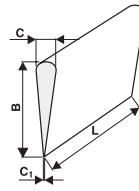
$B \times L$
9040



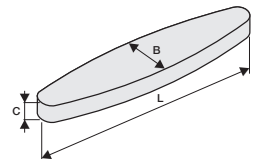
$B \times C \times L$
90AS



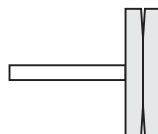
$B \times C \times L$
90K



$C/C_1 \times B \times L$
90HM



$B \times C \times L$
90W



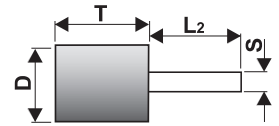
Mounted points



| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

321

Mounted points – shape 52ZY


 Shape **52ZY**

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-----------------------------|-------------------------------------|--------------------------|--------------------------|--|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| $D \times T - S \times L_2$ | | | | black silicon carbide, vitrified bond | | | | | | |
| 413259 | 321 31 - 1055.00 | 52ZY | 10×25-6×40 | | | | 48C | 40 O 6 V 40 | | 50 |
| 413264 | 321 31 - 1637.00 | 52ZY | 16×25-6×40 | | | | 48C | 40 O 6 V 40 | | 20 |
| 514479 | 321 31 - 2063.00 | 52ZY | 20×40-6×40 | | | | 48C | 24 P 5 V 40 | | 20 |
| 413272 | 321 31 - 2560.00 | 52ZY | 25×40-6×40 | | | | 48C | 40 O 6 V 40 | | 20 |
| 413275 | 321 31 - 3235.00 | 52ZY | 32×40-6×40 | | | | 48C | 24 P 5 V 40 | | 10 |
| 413281 | 321 31 - 4055.00 | 52ZY | 40×40-6×40 | | | | 48C | 40 O 6 V 40 | | 10 |
| 413282 | 321 31 - 5039.00 | 52ZY | 50×25-6×40 | | | | 48C | 40 O 6 V 40 | | 10 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-----------------------------|--------------------------|--------------------------|--------------------------|--|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| $D \times T - S \times L_2$ | | | | green silicon carbide, vitrified bond | | | | | | |
| 413314 | 321 36 - 1225.00 | 52ZY | 12×16-3×40 | | | | 49C | 80 K 8 V 40 | | 20 |

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|-----------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| $D \times T - S \times L_2$ | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 413331 | 321 51 - 0211.00 | 52ZY | 2×6-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413332 | 321 51 - 0225.00 | 52ZY | 2×8-3×40 | 99BA 100 L 8 V 40 | | | | | | | 50 |
| 413333 | 321 51 - 0315.00 | 52ZY | 3×6-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413336 | 321 51 - 0335.00 | 52ZY | 3×10-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413342 | 321 51 - 0411.00 | 52ZY | 4×6-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413345 | 321 51 - 0435.00 | 52ZY | 4×10-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413355 | 321 51 - 0545.00 | 52ZY | 5×10-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413359 | 321 51 - 0611.00 | 52ZY | 6×6-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413360 | 321 51 - 0641.00 | 52ZY | 6×10-3×40 | 99BA 100 M 7 V 40 | | | | | | | 50 |
| 413364 | 321 51 - 0669.00 | 52ZY | 6×16-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 413374 | 321 51 - 0770.00 | 52ZY | 7×18-6×40 | 99BA 80 M 8 V 40 | | | | | | | 50 |
| 413375 | 321 51 - 0823.00 | 52ZY | 8×10-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 413377 | 321 51 - 0835.00 | 52ZY | 8×16-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 413381 | 321 51 - 0861.00 | 52ZY | 8×25-6×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 413391 | 321 51 - 1023.00 | 52ZY | 10×10-3×40 | 99BA 80 M 8 V 40 | | | | | | | 50 |
| 413399 | 321 51 - 1045.00 | 52ZY | 10×16-3×40 | 99BA 80 M 8 V 40 | | | | | | | 50 |
| 413404 | 321 51 - 1061.00 | 52ZY | 10×25-6×40 | 99BA 60 M 8 V 40 | | | | | | | 50 |
| 413405 | 321 51 - 1081.00 | 52ZY | 10×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 50 |
| 413413 | 321 51 - 1140.00 | 52ZY | 10×25-6×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 413425 | 321 51 - 1241.00 | 52ZY | 12×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413426 | 321 51 - 1261.00 | 52ZY | 12×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413444 | 321 51 - 1644.00 | 52ZY | 16×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413448 | 321 51 - 1669.00 | 52ZY | 16×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413450 | 321 51 - 1681.00 | 52ZY | 16×63-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413461 | 321 51 - 2025.00 | 52ZY | 20×16-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413463 | 321 51 - 2043.00 | 52ZY | 20×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413469 | 321 51 - 2071.00 | 52ZY | 20×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413473 | 321 51 - 2086.00 | 52ZY | 20×63-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413485 | 321 51 - 2536.00 | 52ZY | 25×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413490 | 321 51 - 2565.00 | 52ZY | 25×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413492 | 321 51 - 2581.10 | 52ZY | 25×63-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 413509 | 321 51 - 3212.00 | 52ZY | 32×16-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413510 | 321 51 - 3229.00 | 52ZY | 32×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413514 | 321 51 - 3247.00 | 52ZY | 32×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413522 | 321 51 - 4014.00 | 52ZY | 40×16-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413524 | 321 51 - 4039.00 | 52ZY | 40×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413529 | 321 51 - 4064.00 | 52ZY | 40×40-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413539 | 321 51 - 5013.00 | 52ZY | 50×16-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 413541 | 321 51 - 5048.00 | 52ZY | 50×25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| 360633 | 321 51 - 5065.00 | 52ZY | 50×40-9×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |

| | | | | | | | | | | | |
|-----------------------------|------------------|----------------|----------------|---|----------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | □ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ | |
| $D \times T - S \times L_2$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 413549 | 321 61 - 0229.00 | 52ZY | 2×6-3×40 | 98A 100 O 6 V 40 | | | | | | | 50 |
| 438675 | 321 61 - 0317.00 | 52ZY | 3×6-3×40 | 98A 100 O 6 V 40 | | | | | | | 50 |

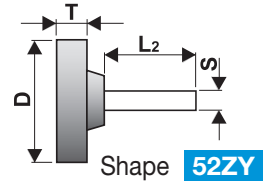
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-----------------|------------------|-------|------------|------------------|---------------------|
| 413557 | 321 61 - 0337.00 | 52ZY | 3×10-3×40 | 98A 100 O 6 V 40 | 50 |
| 413573 | 321 61 - 0413.00 | 52ZY | 4×6-3×40 | 98A 100 O 6 V 40 | 50 |
| 435856 | 321 61 - 0437.00 | 52ZY | 4×10-3×40 | 98A 100 O 6 V 40 | 50 |
| 413595 | 321 61 - 0547.00 | 52ZY | 5×10-3×40 | 98A 100 O 6 V 40 | 50 |
| 413611 | 321 61 - 0643.00 | 52ZY | 6×10-3×40 | 98A 100 O 6 V 40 | 50 |
| 413615 | 321 61 - 0671.00 | 52ZY | 6×16-3×40 | 98A 80 O 6 V 40 | 50 |
| 413618 | 321 61 - 0679.00 | 52ZY | 6×16-6×40 | 98A 80 O 6 V 40 | 50 |
| 413644 | 321 61 - 0825.00 | 52ZY | 8×10-3×40 | 98A 80 O 6 V 40 | 50 |
| 413652 | 321 61 - 0863.00 | 52ZY | 8×25-6×40 | 98A 80 O 6 V 40 | 50 |
| 413677 | 321 61 - 1025.00 | 52ZY | 10×10-3×40 | 98A 80 O 6 V 40 | 50 |
| 413682 | 321 61 - 1047.00 | 52ZY | 10×16-3×40 | 98A 80 O 6 V 40 | 50 |
| 413687 | 321 61 - 1063.00 | 52ZY | 10×25-6×40 | 98A 60 O 6 V 40 | 50 |
| 413693 | 321 61 - 1083.00 | 52ZY | 10×40-6×40 | 98A 60 O 6 V 40 | 50 |
| 748086 | 321 61 - 1173.00 | 52ZY | 10x20-6x40 | 98A 46 P 6 V 40 | 50 |
| 413732 | 321 61 - 1243.00 | 52ZY | 12×25-6×40 | 98A 60 O 6 V 40 | 20 |
| 413735 | 321 61 - 1263.00 | 52ZY | 12×40-6×40 | 98A 60 O 6 V 40 | 20 |
| 413784 | 321 61 - 1646.00 | 52ZY | 16×25-6×40 | 98A 60 O 6 V 40 | 20 |
| 413787 | 321 61 - 1653.30 | 52ZY | 16×25-6×40 | 5RNR 24 Q 4 V 40 | 20 |
| 748087 | 321 61 - 1744.00 | 52ZY | 16x20-6x40 | 98A 46 P 6 V 40 | 20 |
| 748088 | 321 61 - 1746.00 | 52ZY | 16x32-6x40 | 98A 46 P 6 V 40 | 20 |
| 413791 | 321 61 - 1671.00 | 52ZY | 16×40-6×40 | 98A 60 O 6 V 40 | 20 |
| 413841 | 321 61 - 2046.00 | 52ZY | 20×25-6×40 | 98A 60 O 6 V 40 | 20 |
| 413844 | 321 61 - 2057.00 | 52ZY | 20×32-6×40 | 98A 60 P 5 V 40 | 20 |
| 413849 | 321 61 - 2063.00 | 52ZY | 20×40-6×40 | 98A 24 P 3 V 40 | 20 |
| 413850 | 321 61 - 2063.30 | 52ZY | 20×40-6×40 | 5RNR 24 P 3 V 40 | 20 |
| 413852 | 321 61 - 2073.00 | 52ZY | 20×40-6×40 | 98A 60 O 6 V 40 | 20 |
| 413875 | 321 61 - 2533.00 | 52ZY | 25×25-6×40 | 98A 24 P 3 V 40 | 20 |
| 413876 | 321 61 - 2537.00 | 52ZY | 25×25-6×40 | 98A 60 O 6 V 40 | 20 |
| 748092 | 321 61 - 2653.00 | 52ZY | 25x32-6x40 | 98A 46 P 6 V 40 | 20 |
| 413888 | 321 61 - 2555.30 | 52ZY | 25×40-6×40 | 5RNR 24 P 3 V 40 | 20 |
| 413890 | 321 61 - 2567.00 | 52ZY | 25×40-6×40 | 98A 60 O 6 V 40 | 20 |
| 413895 | 321 61 - 2585.00 | 52ZY | 25×40-6×40 | 98A 20 N 5 V 40 | 20 |
| 413937 | 321 61 - 3235.00 | 52ZY | 32×32-6×40 | 98A 40 O 6 V 40 | 10 |
| 413940 | 321 61 - 3241.00 | 52ZY | 32×40-6×40 | 98A 46 O 5 V 40 | 10 |
| 34155242 | 321 61 - 3297.30 | 52ZY | 32x40-8x40 | 5RNR 24Q4 V 40 | 10 |
| 413983 | 321 61 - 4035.00 | 52ZY | 40×25-6×40 | 98A 46 O 5 V 40 | 10 |
| 413991 | 321 61 - 4059.00 | 52ZY | 40×40-6×40 | 98A 46 O 5 V 40 | 10 |
| 413996 | 321 61 - 4074.30 | 52ZY | 40×40-6×40 | 5RNR 24 Q 4 V 40 | 10 |
| 414003 | 321 61 - 5008.00 | 52ZY | 50×16-6×40 | 98A 46 O 5 V 40 | 10 |
| 414008 | 321 61 - 5050.00 | 52ZY | 50×30-9×40 | 98A 20 N 5 V 40 | 10 |
| 414014 | 321 61 - 5069.30 | 52ZY | 50×40-6×40 | 5RNR 24 P 5 V 40 | 10 |
| 34155241 | 321 61 - 5062.30 | 52ZY | 50x40-8x40 | 5RNR 24 Q4 V 40 | 10 |

| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|-----------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | □ | □ | | | | | | | |
| $D \times T - S \times L_2$ | | | | <i>brown aluminium oxide, vitrified bond</i> | | | | | | |
| 414047 | 321 71 - 1075.00 | 52ZY | 10×40-6×40 | 96A 40 P 4 V 40 | | | | | | 50 |
| 414058 | 321 71 - 1631.00 | 52ZY | 16×25-6×40 | 96A 24 P 3 V 40 | | | | | | 20 |
| 414061 | 321 71 - 2038.00 | 52ZY | 20×25-6×40 | 96A 24 P 3 V 40 | | | | | | 20 |
| 414062 | 321 71 - 2048.00 | 52ZY | 20×30-6×40 | 96A 40 N 5 V 40 | | | | | | 20 |
| 414064 | 321 71 - 2063.00 | 52ZY | 20×40-6×40 | 96A 24 P 3 V 40 | | | | | | 20 |
| 414074 | 321 71 - 2545.00 | 52ZY | 25×32-6×40 | 96A 24 P 3 V 40 | | | | | | 20 |
| 414076 | 321 71 - 2555.00 | 52ZY | 25×40-6×40 | 96A 24 P 3 V 40 | | | | | | 20 |
| 34242354 | 321 71 - 2557.00 | 52ZY | 25×45-6×40 | 96A 36 P 5 V 40 | | | | | | 20 |
| 414085 | 321 71 - 3235.00 | 52ZY | 32×40-6×40 | 96A 24 P 3 V 40 | | | | | | 10 |

Grey positions until stock run out

322

Mounted points – shape 52ZY



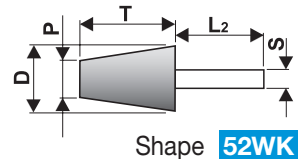
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|-----------------------------|------|----------|--|-------|-------------------|----------|-----|
| Application | | | | ☐ | | ■ | ☐ | ☐ | | |
| | | | $D \times T - S \times L_2$ | | | black silicon carbide, vitrified bond | | | | |
| 414128 | 322 31 - 3211.00 | 52ZY | 32×6-6×40 | | | | 48C | 40 O 4 V 40 | | 10 |
| 414130 | 322 31 - 4045.00 | 52ZY | 40×10-6×40 | | | | 48C | 40 O 4 V 40 | | 10 |
| 414131 | 322 31 - 5045.00 | 52ZY | 50×10-6×40 | | | | 48C | 40 O 4 V 40 | | 10 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|-----------------------------|------|----------|--|-------|-------------------|----------|-----|
| Application | ■ | ☐ | ☐ | ☐ | | ☐ | | | | |
| | | | $D \times T - S \times L_2$ | | | white aluminium oxide, vitrified bond | | | | |
| 414144 | 322 51 - 1609.00 | 52ZY | 16×2,5-3×40 | | | | 99BA | 80 M 7 V 40 | | 20 |
| 414145 | 322 51 - 1625.00 | 52ZY | 16×4-3×40 | | | | 99BA | 80 M 7 V 40 | | 20 |
| 414151 | 322 51 - 2045.00 | 52ZY | 20×6-3×40 | | | | 99BA | 80 M 7 V 40 | | 20 |
| 414159 | 322 51 - 3216.00 | 52ZY | 32×6-6×40 | | | | 99BA | 60 M 7 V 40 | | 10 |
| 414161 | 322 51 - 3245.00 | 52ZY | 32×10-6×40 | | | | 99BA | 60 M 7 V 40 | | 10 |
| 414163 | 322 51 - 4015.00 | 52ZY | 40×6-6×40 | | | | 99BA | 60 M 7 V 40 | | 10 |
| 414165 | 322 51 - 4049.00 | 52ZY | 40×10-6×40 | | | | 99BA | 60 M 7 V 40 | | 10 |
| 414168 | 322 51 - 5049.00 | 52ZY | 50×10-6×40 | | | | 99BA | 60 M 7 V 40 | | 10 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|-----------------------------|------|----------|---|-------|-------------------|----------|-----|
| Application | ☐ | ■ | ☐ | ■ | | | | | | |
| | | | $D \times T - S \times L_2$ | | | pink aluminium oxide, vitrified bond | | | | |
| 414217 | 322 61 - 2519.00 | 52ZY | 25×4-6×40 | | | | 98A | 80 O 6 V 40 | | 20 |
| 414232 | 322 61 - 3247.00 | 52ZY | 32×10-6×40 | | | | 98A | 60 O 6 V 40 | | 10 |
| 414242 | 322 61 - 4017.00 | 52ZY | 40×6-6×40 | | | | 98A | 60 O 6 V 40 | | 10 |
| 414244 | 322 61 - 4051.00 | 52ZY | 40×10-6×40 | | | | 98A | 60 O 6 V 40 | | 10 |
| 414248 | 322 61 - 5015.00 | 52ZY | 50×5-6×40 | | | | 98A | 60 O 6 V 40 | | 10 |

323

Mounted points – shape 52WK

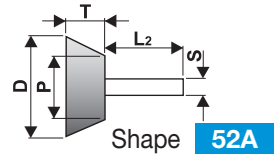


| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|-------------------------------|------|----------|--|-------|-------------------|----------|-----|
| Application | | | | ☐ | | ■ | ☐ | ☐ | | |
| | | | $D/P \times T - S \times L_2$ | | | black silicon carbide, vitrified bond | | | | |
| 436136 | 323 31 - 2015.00 | 52WK | 20/10×32-6×40 | | | | 48C | 40 O 4 V 40 | | 20 |

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|-------------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| $D/P \times T - S \times L_2$ | | | | white aluminium oxide, vitrified bond | | | | | | | |
| 436154 | 323 51 - 1011.00 | 52WK | 10/6×16-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 436157 | 323 51 - 1635.00 | 52WK | 16/6×25-6×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436159 | 323 51 - 1971.00 | 52WK | 19/5×63-6×40 | 99BA 80 O 6 V 40 | | | | | | | 20 |
| 438048 | 323 51 - 2023.00 | 52WK | 20/10×32-6×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | □ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ | |
| $D/P \times T - S \times L_2$ | | | | pink aluminium oxide, vitrified bond | | | | | | | |
| 436165 | 323 61 - 2025.00 | 52WK | 20/10×32-6×40 | 98A 80 O 6 V 40 | | | | | | | 20 |

324

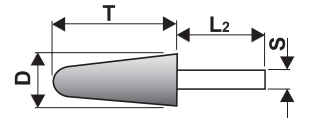
Mounted points – shape 52A



| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-------------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Application | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| $D/P \times T - S \times L_2$ | | | | white aluminium oxide, vitrified bond | | | | | | | |
| 436166 | 324 51 - 1615.00 | 52A | 16/10×6-3×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436167 | 324 51 - 2515.00 | 52A | 25/16×12-6×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | □ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ | |
| $D/P \times T - S \times L_2$ | | | | pink aluminium oxide, vitrified bond | | | | | | | |
| 436170 | 324 61 - 3237.00 | 52A | 32/16×20-6×40 | 98A 60 O 6 V 40 | | | | | | | 10 |

325

Mounted points – shape 52KE



| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-----------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Application | □ | □ | □ | □ | □ | ■ | □ | □ | □ | □ | |
| $D \times T - S \times L_2$ | | | | black silicon carbide, vitrified bond | | | | | | | |
| 436172 | 325 31 - 2049.00 | 52KE | 20×63-6×40 R=6 | 48C 40 O 4 V 40 | | | | | | | 20 |
| 436173 | 325 31 - 3225.00 | 52KE | 32×40-6×40 R=6 | 48C 40 O 4 V 40 | | | | | | | 10 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| $D \times T - S \times L_2$ | | | | white aluminium oxide, vitrified bond | | | | | | | |
| 436175 | 325 51 - 1651.00 | 52KE | 16×40-6×40 R=2 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 436177 | 325 51 - 2019.00 | 52KE | 20×32-6×40 R=3 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436180 | 325 51 - 2539.00 | 52KE | 25×32-6×40 R=4 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436181 | 325 51 - 3229.00 | 52KE | 32×40-6×40 R=6 | 99BA 60 M 7 V 40 | | | | | | | 10 |

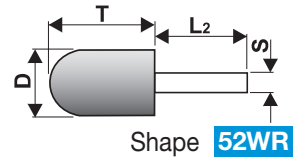
Grey positions until stock run out

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|-----------------------------|------------------|----------------|----------------|---|----------|-----------|-------|-------------------|----------|-----|---------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | ■ | ■ | | | | | | | |
| $D \times T - S \times L_2$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 436183 | 325 61 - 1653.00 | 52KE | 16x40-6x40 R=2 | 98A 60 O 6 V 40 | | | | | | | 20 |
| 436185 | 325 61 - 2044.30 | 52KE | 20x40-6x40 R=3 | 5RNA 24 P 5 V 40 | | | | | | | 20 |
| 436186 | 325 61 - 2056.00 | 52KE | 20x63-6x40 R=6 | 98A 60 O 6 V 40 | | | | | | | 20 |
| 436189 | 325 61 - 3221.30 | 52KE | 32x40-6x40 R=6 | 5RNA 24 P 5 V 40 | | | | | | | 10 |
| 436210 | 325 61 - 3231.00 | 52KE | 32x40-6x40 R=6 | 98A 60 O 6 V 40 | | | | | | | 10 |
| 34155230 | 325 61 - 3222.30 | 52KE | 32x40-8x40 R=6 | 5RNA 24Q 4 V 40 | | | | | | | 10 |

| | | | | | | | | | | | |
|-----------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | | | | | | | | | |
| $D \times T - S \times L_2$ | | | | <i>brown aluminium oxide, vitrified bond</i> | | | | | | | |
| 436212 | 325 71 - 2525.00 | 52KE | 25x40-6x40 R=3 | 96A 40 P 4 V 40 | | | | | | | 20 |

326

Mounted points – shape 52WR



| | | | | | | | | | | | |
|-----------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | ■ | ■ | | ■ | | | | | |
| $D \times T - S \times L_2$ | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 436430 | 326 51 - 1215.00 | 52WR | 12x16-3x40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436432 | 326 51 - 2015.00 | 52WR | 20x25-6x40 | 99BA 60 M 7 V 40 | | | | | | | 20 |

| | | | | | | | | | | | |
|-----------------------------|------------------|----------------|----------------|---|----------|-----------|-------|-------------------|----------|-----|----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | ■ | ■ | | | | | | | |
| $D \times T - S \times L_2$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 440084 | 326 61 - 2533.00 | 52WR | 25x32-6x40 | 98A 60 O 6 V 40 | | | | | | | 20 |

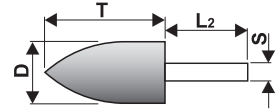
Grey positions until stock run out

■ – suitable, □ – possible | reducing rings – page 82

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

327

Mounted points – shape 52SP



Shape **52SP**

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | ■ | □ | | □ | | □ | | | | |

$$D \times T - S \times L_2$$

white aluminium oxide, vitrified bond

| | | | | | | | | | | |
|---------------|------------------|------|------------|--|--|--|------|-------------|--|----|
| 436502 | 327 51 - 0609.00 | 52SP | 6x10-3x40 | | | | 99BA | 80 M 7 V 40 | | 50 |
| 436503 | 327 51 - 1019.00 | 52SP | 10x20-3x40 | | | | 99BA | 80 M 7 V 40 | | 50 |
| 436505 | 327 51 - 1629.00 | 52SP | 16x32-6x40 | | | | 99BA | 60 M 7 V 40 | | 20 |
| 436507 | 327 51 - 2045.00 | 52SP | 20x40-6x40 | | | | 99BA | 60 M 7 V 40 | | 20 |
| 436510 | 327 51 - 3051.00 | 52SP | 30x50-6x40 | | | | 99BA | 80 O 6 V 40 | | 10 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | □ | ■ | □ | ■ | | | | | | |

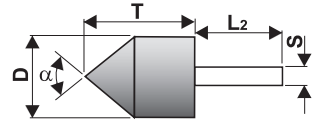
$$D \times T - S \times L_2$$

pink aluminium oxide, vitrified bond

| | | | | | | | | | | |
|-----------------|------------------|------|------------|--|--|--|------|-------------|--|----|
| 436512 | 327 61 - 1631.00 | 52SP | 16x32-6x40 | | | | 98A | 60 O 6 V 40 | | 20 |
| 436514 | 327 61 - 2028.30 | 52SP | 20x40-6x40 | | | | 5RNA | 24 M 7 V 40 | | 20 |
| 436516 | 327 61 - 2047.00 | 52SP | 20x40-6x40 | | | | 98A | 60 O 6 V 40 | | 20 |
| 34064749 | 327 61 - 3570.30 | 52SP | 35x70-8x40 | | | | 5RNA | 24P 5 V 40 | | 10 |

328

Mounted points – shape 52ZE



Shape **52ZE**

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | ■ | □ | | □ | | □ | | | | |

$$D \times T - S \times L_2 \text{ a}$$

white aluminium oxide, vitrified bond

| | | | | | | | | | | |
|---------------|------------------|------|----------------|--|--|--|------|-------------|--|----|
| 436519 | 328 51 - 1039.00 | 52ZE | 10x25-6x40 60° | | | | 99BA | 80 M 7 V 40 | | 50 |
| 436524 | 328 51 - 1655.00 | 52ZE | 16x40-6x40 60° | | | | 99BA | 80 M 7 V 40 | | 20 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | □ | ■ | □ | ■ | | | | | | |

$$D \times T - S \times L_2 \text{ a}$$

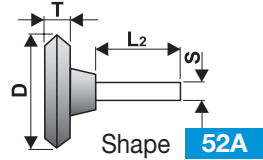
pink aluminium oxide, vitrified bond

| | | | | | | | | | | |
|---------------|------------------|------|----------------|--|--|--|-----|-------------|--|----|
| 436535 | 328 61 - 1657.00 | 52ZE | 16x40-6x40 60° | | | | 98A | 80 O 6 V 40 | | 20 |
| 436539 | 328 61 - 4043.00 | 52ZE | 40x40-6x40 90° | | | | 98A | 46 O 5 V 40 | | 10 |

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

329

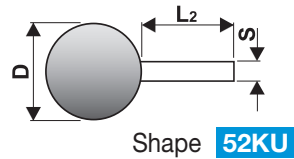
Mounted points – shape 52A



| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----|
| Application | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| $D \times T - S \times L_2$ | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 436735 | 329 51 - 2509.00 | 52A | 25×6-6×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 436736 | 329 51 - 4015.00 | 52A | 40×10-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| $D \times T - S \times L_2$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 436739 | 329 61 - 2511.00 | 52A | 25×6-6×40 | 98A 80 O 6 V 40 | | | | | | | 20 |
| 436740 | 329 61 - 4017.00 | 52A | 40×10-6×40 | 98A 60 O 6 V 40 | | | | | | | 10 |

331

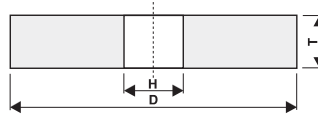
Mounted points – shape 52KU



| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|--------------------|-------------------------------------|-------------------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----|
| Application | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| $D - S \times L_2$ | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 414280 | 331 51 - 0630.00 | 52KU | 6-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 414284 | 331 51 - 0830.00 | 52KU | 8-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 414286 | 331 51 - 1030.00 | 52KU | 10-3×40 | 99BA 80 M 7 V 40 | | | | | | | 50 |
| 414289 | 331 51 - 1230.00 | 52KU | 12-3×40 | 99BA 80 M 7 V 40 | | | | | | | 20 |
| 414294 | 331 51 - 1651.00 | 52KU | 16-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 414295 | 331 51 - 2021.00 | 52KU | 20-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 414296 | 331 51 - 2521.00 | 52KU | 25-6×40 | 99BA 60 M 7 V 40 | | | | | | | 20 |
| 414300 | 331 51 - 3221.00 | 52KU | 32-6×40 | 99BA 60 M 7 V 40 | | | | | | | 10 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| $D - S \times L_2$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 414333 | 331 61 - 1653.00 | 52KU | 16-6×40 | 98A 60 O 6 V 40 | | | | | | | 20 |
| 414355 | 331 61 - 5036.00 | 52KU | 50-9×40 | 98A 20 N 5 V 40 | | | | | | | 10 |



361 – Straight grinding wheels with diameter D < 50,8 mm



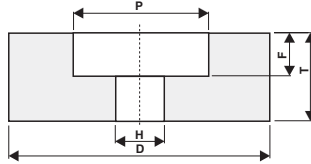
Shape **1**

D x T x H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------|--|---------------------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | | □ | | □ | | | | | |
| D x T x H | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 414486 | 361 51 - 0825.00 | 1 | 8x10x3 | 99BA 80 K 8 V 40 | | | | | | | 50 |
| 414496 | 361 51 - 1019.00 | 1 | 10x10x3 | 99BA 60 K 9 V 40 | | | | | | | 50 |
| 414522 | 361 51 - 1379.00 | 1 | 13x16x6 | 99BA 60 K 9 V 40 | | | | | | | 20 |
| 414559 | 361 51 - 2029.00 | 1 | 20x20x6 | 99BA 60 K 9 V 40 | | | | | | | 20 |
| 414622 | 361 51 - 2579.00 | 1 | 25x32x10 | 99BA 80 K 9 V 40 | | | | | | | 20 |
| 414652 | 361 51 - 3272.00 | 1 | 32x32x13 | 99BA 60 K 9 V 40 | | | | | | | 10 |
| 414701 | 361 51 - 4083.00 | 1 | 40x40x16 | 99BA 80 K 9 V 40 | | | | | | | 10 |
| 414720 | 361 51 - 5041.09 | 1 | 50x10x13 | 99BA 100 M 8 V 40 | | | | | | | 10 |

| | | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|---|----------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | □ | ■ | □ | ■ | | | | | | | |
| D x T x H | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 414828 | 361 61 - 2078.00 | 1 | 20x20x6 | 98A 80 J 9 V 40 | | | | | | | 20 |
| 414848 | 361 61 - 2480.00 | 1 | 25x20x10 | 98A 60 K 9 V 40 | | | | | | | 20 |

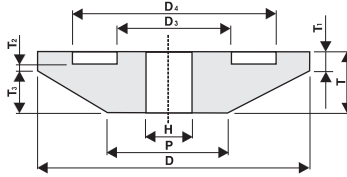
368 – One side recessed grinding wheels with diameter $D \leq 75$ mm



Shape **5**
 $D \times T \times H - P \times F$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|------------------------------------|------------------|----------------|------------------|--|---------------------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| $D \times T \times H - P \times F$ | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 415364 | 368 51 - 1329.00 | 5 | 13×16×3 - 8×8 | 99BA 60 K 8 V 40 | | | | | | | 20 |
| 360431 | 368 51 - 2526.00 | 5 | 25×25×6 - 12×12 | 99BA 60 K 8 V 40 | | | | | | | 20 |
| 415405 | 368 51 - 2532.00 | 5 | 25×25×6 - 12×12 | 99BA 80 K 8 V 40 | | | | | | | 20 |
| 415435 | 368 51 - 3225.00 | 5 | 32×32×10 - 20×16 | 99BA 46 K 9 V 40 | | | | | | | 10 |
| 415437 | 368 51 - 3230.00 | 5 | 32×32×10 - 20×16 | 99BA 60 K 9 V 40 | | | | | | | 10 |
| 415439 | 368 51 - 3235.00 | 5 | 32×32×10 - 20×16 | 99BA 80 K 9 V 40 | | | | | | | 10 |
| 415462 | 368 51 - 4028.00 | 5 | 40×40×10 - 20×20 | 99BA 46 K 9 V 40 | | | | | | | 10 |
| 415466 | 368 51 - 4035.00 | 5 | 40×40×10 - 20×20 | 99BA 60 L 9 V 40 | | | | | | | 10 |
| 413145 | 368 51 - 4039.00 | 5 | 40×40×10 - 20×20 | 99BA 80 K 9 V 40 | | | | | | | 10 |
| 415491 | 368 51 - 5074.00 | 5 | 50×50×20 - 32×20 | 99BA 60 K 9 V 40 | | | | | | | 10 |
| 34162974 | 368 51 - 6047.00 | 5 | 60×40×20 - 40×20 | 99BA 60 K 9 V 50 | | | | | | | 10 |
| 34162977 | 368 51 - 0773.00 | 5 | 75×32×20 - 40×16 | 99BA 60 K 9 V 50 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| $D \times T \times H - P \times F$ | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 415517 | 368 61 - 2525.00 | 5 | 25×25×6 - 12×12 | 98A 60 J 9 V 40 | | | | | | | 20 |
| 415544 | 368 61 - 4028.00 | 5 | 40×40×10 - 20×20 | 98A 46 K 9 V 40 | | | | | | | 10 |
| 34162976 | 368 61 - 6046.00 | 5 | 60×40×20 - 40×20 | 98A 80 J 9 V 50 | | | | | | | 10 |
| 34162978 | 368 61 - 0772.00 | 5 | 75×32×20 - 40×16 | 98A 80 J 9 V 50 | | | | | | | 1 |

372 – One side tapered grinding wheels with diameter $D < 50,8$ mm for sciling machines knives sharpening

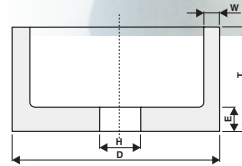


Shape **3WM2**

$D/P \times T/T_3/T_1 \times D_3/H$ 1A/ $D_4 \times T_2$

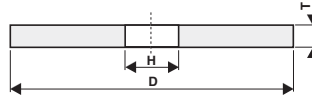
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | |
|--|--------------------------|-------------------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| $D/P \times T/T_3/T_1 \times D_3/H$ 1A/ $D_4 \times T_2$ | | | | brown aluminium oxide, vitrified bond | | | | | | |

376 – Cup grinding wheels with diameter D < 50,8 mm


 Shape **6**
D × T × H – W × E

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | |
|--------------------|------------------|----------------|--------------------|--|---------------------|-----------|-------|-------------------|------------------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | | | | | | | |
| | | | D × T × H - W × E | green silicon carbide, vitrified bond | | | | | | |
| 415342 | 376 36 - 5084.00 | 6 | 50×50×13 - 12,5×20 | | | | | | 49C 40 K 9 V 40 | 10 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | | | | | | | |
| | | | D × T × H - W × E | white aluminium oxide, vitrified bond | | | | | | |
| 415485 | 376 51 - 5056.00 | 6 | 50×50×13 - 12,5×20 | | | | | | 99BA 60 K 9 V 40 | 10 |

411 – Straight grinding wheels with diameter $50,8 \leq D \leq 100 \text{ mm}$



1
Shape $D \times T \times H$

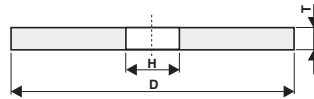
| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|--------------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | | | | | | | |
| | | | $D \times T \times H$ | <i>green silicon carbide, vitrified bond</i> | | | | | | |
| 415712 | 411 36 - 8525.09 | 1 | 100×10×20 | 49C 80 K 9 V 40 | | | | | | 1 |
| 415715 | 411 36 - 8546.09 | 1 | 100×10×20 | 49C 240 J 10 V 40 | | | | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|--------------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|-----|
| <i>Application</i> | | | | | | | | | | |
| | | | $D \times T \times H$ | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 415784 | 411 51 - 4153.09 | 1 | 70×6,5×12 | 99BA 120 L 9 V 40 | | | | | | 1 |
| 415850 | 411 51 - 8512.09 | 1 | 100×10×20 | 99BA 60 K 9 V 40 | | | | | | 1 |
| 415857 | 411 51 - 8533.09 | 1 | 100×10×20 | 99BA 100 L 9 V 40 | | | | | | 1 |
| 415879 | 411 51 - 9329.09 | 1 | 100×20×20 | 99BA 60 K 9 V 40 | | | | | | 1 |
| 415881 | 411 51 - 9331.09 | 1 | 100×20×20 | 99BA 60 M 8 V 40 | | | | | | 1 |
| 415882 | 411 51 - 9337.09 | 1 | 100×20×20 | 99BA 80 J 9 V 40 | | | | | | 1 |
| 415900 | 411 51 - 9756.09 | 1 | 100×40×20 | 99BA 60 K 9 V 40 | | | | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|--------------------|------------------|----------------|-----------------------|---|----------|-----------|-------|-------------------|----------|-----|
| <i>Application</i> | | | | | | | | | | |
| | | | $D \times T \times H$ | <i>pink aluminium oxide, vitrified bond</i> | | | | | | |
| 415953 | 411 61 - 6616.09 | 1 | 80×20×20 | 98A 24 P 5 V 40 | | | | | | 1 |
| 415958 | 411 61 - 6638.39 | 1 | 80×20×20 | 5RNA 80 K 9 V 40 | | | | | | 1 |
| 482373 | 411 61 - 8016.00 | 1 | 100×3,2×10 | 98A 60 K 9 V 40 | | | | | | 1 |
| 415992 | 411 61 - 9312.09 | 1 | 100×20×20 | 98A 40 K 9 V 40 | | | | | | 1 |
| 415996 | 411 61 - 9338.39 | 1 | 100×20×20 | 5RNA 80 K 9 V 40 | | | | | | 1 |

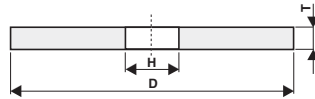
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|--------------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|-----|
| <i>Application</i> | | | | | | | | | | |
| | | | $D \times T \times H$ | <i>brown aluminium oxide, vitrified bond</i> | | | | | | |
| 416100 | 411 71 - 9309.09 | 1 | 100×20×20 | 96A 24 P 5 V 40 | | | | | | 1 |

412 – Straight grinding wheels with diameter $100 < D \leq 150$ mm



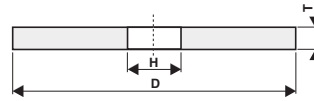
1
D x T x H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | | | ■ | ■ | | | | |
| | | | D x T x H | black silicon carbide, vitrified bond | | | | | | | |
| 416191 | 412 31 - 8408.09 | 1 | 150x20x20 | 48C 22 P 5 V 40 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | □ | □ | ■ | ■ | □ | ■ | ■ | □ | |
| | | | D x T x H | green silicon carbide, vitrified bond | | | | | | | |
| 416226 | 412 36 - 4714.09 | 1 | 125x16x12,7 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 416245 | 412 36 - 4814.09 | 1 | 125x16x32 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 416256 | 412 36 - 5138.09 | 1 | 125x20x20 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 416270 | 412 36 - 5201.09 | 1 | 125x20x32 | 49C 80 L 9 V 40 | | | | | | | 1 |
| 416304 | 412 36 - 7241.09 | 1 | 150x6x20 | 49C 120 M 8 V 40 | | | | | | | 1 |
| 416319 | 412 36 - 7559.09 | 1 | 150x10x20 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 416320 | 412 36 - 7567.09 | 1 | 150x10x20 | 49C 100 L 9 V 40 | | | | | | | 1 |
| 416321 | 412 36 - 7579.09 | 1 | 150x10x20 | 49C 240 J 10 V 40 | | | | | | | 1 |
| 416362 | 412 36 - 8349.09 | 1 | 150x20x16 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 416366 | 412 36 - 8426.09 | 1 | 150x20x20 | 49C 40 L 8 V 40 | | | | | | | 1 |
| 416368 | 412 36 - 8443.09 | 1 | 150x20x20 | 49C 60 J 9 V 40 | | | | | | | 1 |
| 416390 | 412 36 - 8461.09 | 1 | 150x20x20 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 416394 | 412 36 - 8489.09 | 1 | 150x20x20 | 49C 240 J 10 V 40 | | | | | | | 1 |
| 416419 | 412 36 - 8603.09 | 1 | 150x20x32 | 49C 60 K 9 V 40 | | | | | | | 1 |



Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|-------------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D × T × H | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 416553 | 412 51 - 4329.09 | 1 | 125×10×20 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 416558 | 412 51 - 4355.09 | 1 | 125×10×20 | 99BA 100 K 9 V 40 | | | | | | | 1 |
| 416573 | 412 51 - 4718.89 | 1 | 125×16×12,7 | 99A 46 L 9 V 40 | | | | | | | 1 |
| 416589 | 412 51 - 5111.89 | 1 | 125×20×20 | 99A 24 P 5 V 40 | | | | | | | 1 |
| 416592 | 412 51 - 5138.09 | 1 | 125×20×20 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 416593 | 412 51 - 5139.09 | 1 | 125×20×20 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416601 | 412 51 - 5201.09 | 1 | 125×20×32 | 99BA 80 L 9 V 40 | | | | | | | 1 |
| 416657 | 412 51 - 7072.09 | 1 | 150×4×20 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 416688 | 412 51 - 7224.09 | 1 | 150×6×20 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416690 | 412 51 - 7230.09 | 1 | 150×6×20 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 416693 | 412 51 - 7234.09 | 1 | 150×6×20 | 99BA 100 J 10V 40 | | | | | | | 1 |
| 416697 | 412 51 - 7240.09 | 1 | 150×6×20 | 99BA 120 L 9 V 40 | | | | | | | 1 |
| 416723 | 412 51 - 7407.09 | 1 | 150×8×20 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416745 | 412 51 - 7553.09 | 1 | 150×10×20 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416750 | 412 51 - 7558.09 | 1 | 150×10×20 | 99BA 80 J 9 V 40 | | | | | | | 1 |
| 416752 | 412 51 - 7560.09 | 1 | 150×10×20 | 99BA 80 L 9 V 40 | | | | | | | 1 |
| 416760 | 412 51 - 7637.09 | 1 | 150×10×32 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416796 | 412 51 - 8008.09 | 1 | 150×16×12,7 | 99BA 60 L 8 V 40 | | | | | | | 1 |
| 416814 | 412 51 - 8414.89 | 1 | 150×20×20 | 99A 24 P 5 V 40 | | | | | | | 1 |
| 416820 | 412 51 - 8434.09 | 1 | 150×20×20 | 99BA 46 L 8 V 40 | | | | | | | 1 |
| 416826 | 412 51 - 8444.09 | 1 | 150×20×20 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 416829 | 412 51 - 8445.09 | 1 | 150×20×20 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 416831 | 412 51 - 8446.89 | 1 | 150×20×20 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 416832 | 412 51 - 8460.09 | 1 | 150×20×20 | 99BA 80 J 9 V 40 | | | | | | | 1 |
| 416834 | 412 51 - 8461.09 | 1 | 150×20×20 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 416837 | 412 51 - 8462.09 | 1 | 150×20×20 | 99BA 80 L 9 V 40 | | | | | | | 1 |
| 416848 | 412 51 - 8594.09 | 1 | 150×20×32 | 99BA 46 K 9 V 40 | | | | | | | 1 |
| 416852 | 412 51 - 8603.09 | 1 | 150×20×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 416858 | 412 51 - 8610.09 | 1 | 150×20×32 | 99BA 80 K 9 V 40 | | | | | | | 1 |

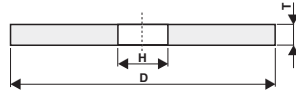

 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D × T × H | pink aluminium oxide, vitrified bond | | | | | | | |
| 634669 | 412 61 - 6974.00 | 1 | 145x3,2x22,2 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 744865 | 412 61 - 9994.00 | 1 | 145x4,7x22,2 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 417125 | 412 61 - 7159.09 | 1 | 150x5x20 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 34448491 | 412 61 - 7180.00 | 1 | 150x5x20 FOR SKATES | 98A 60 K 9 V 03 40 | | | | | | | 1 |
| 360276 | 412 61 - 7223.09 | 1 | 150x6x20 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 417158 | 412 61 - 7552.09 | 1 | 150x10x20 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 417160 | 412 61 - 7559.09 | 1 | 150x10x20 | 98A 80 K 9 V 40 | | | | | | | 1 |
| 417195 | 412 61 - 8433.09 | 1 | 150x20x20 | 98A 46 K 9 V 40 | | | | | | | 1 |
| 417196 | 412 61 - 8443.09 | 1 | 150x20x20 | 98A 60 J 9 V 40 | | | | | | | 1 |
| 417198 | 412 61 - 8444.09 | 1 | 150x20x20 | 98A 60 K 9 V 40 | | | | | | | 1 |
| 417209 | 412 61 - 8463.09 | 1 | 150x20x20 | 98A 80 M 8 V 40 | | | | | | | 1 |
| 417211 | 412 61 - 8471.09 | 1 | 150x20x20 | 98A 100 K 9 V 40 | | | | | | | 1 |
| 417226 | 412 61 - 8603.09 | 1 | 150x20x32 | 98A 60 K 9 V 40 | | | | | | | 1 |

| | | | | | | | | | | | |
|--------------------|-------------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D × T × H | brown aluminium oxide, vitrified bond | | | | | | | |
| 417321 | 412 71 - 4704.09 | 1 | 125x16x12,7 | 96A 36 P 5 V 40 | | | | | | | 1 |
| 417326 | 412 71 - 4781.09 | 1 | 125x16x20 | 96A 80 M 8 V 40 | | | | | | | 1 |
| 417438 | 412 71 - 8001.09 | 1 | 150x16x12,7 | 96A 36 P 5 V 40 | | | | | | | 1 |
| 417489 | 412 71 - 8412.09 | 1 | 150x20x20 | 96A 24 N 7 V 40 | | | | | | | 1 |
| 417491 | 412 71 - 8417.09 | 1 | 150x20x20 | 96A 36 N 7 V 40 | | | | | | | 1 |
| 417492 | 412 71 - 8420.09 | 1 | 150x20x20 | 96A 36 P 5 V 40 | | | | | | | 1 |
| 417499 | 412 71 - 8447.09 | 1 | 150x20x20 | 96A 60 N 7 V 40 | | | | | | | 1 |
| 417530 | 412 71 - 8588.09 | 1 | 150x20x32 | 96A 36 P 5 V 40 | | | | | | | 1 |
| 417543 | 412 71 - 8612.09 | 1 | 150x20x32 | 96A 80 M 8 V 40 | | | | | | | 1 |



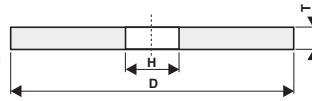
413 – Straight grinding wheels with diameter $150 < D \leq 200$ mm



Shape **1**
D x T x H

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-----------------|------------------|----------------|----------------|------|----------|-----------|--|-------------------|----------|-----|--|
| Application | | | | | | ■ | ■ | | | | |
| | D x T x H | | | | | | <i>black silicon carbide, vitrified bond</i> | | | | |
| 34238532 | 413 31 - 6218.00 | 1 | 200x8x32 | | | | 48C 60 K 9 V 40 | | | 1 | |
| 34242343 | 413 31 - 6364.00 | 1 | 200x10x32 | | | | 48C 60 K 9 V 40 | | | 1 | |
| 417767 | 413 31 - 7273.09 | 1 | 200x20x32 | | | | 48C 60 K 9 V 40 | | | 1 | |
| 417779 | 413 31 - 7822.09 | 1 | 200x25x32 | | | | 48C 60 K 9 V 40 | | | 1 | |
| 417807 | 413 31 - 8766.00 | 1 | 200x50x63 | | | | 48C 40 L 8 V 40 | | | 1 | |

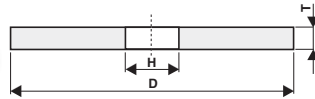
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|------|----------|-----------|--|-------------------|----------|-----|--|
| Application | | | □ | □ | ■ | ■ | □ | ■ | ■ | □ | |
| | D x T x H | | | | | | <i>green silicon carbide, vitrified bond</i> | | | | |
| 417818 | 413 36 - 3052.09 | 1 | 175x5x20 | | | | 49C 80 J 9 V 40 | | | 1 | |
| 417819 | 413 36 - 3061.09 | 1 | 175x5x20 | | | | 49C 100 L 8 V 40 | | | 1 | |
| 417820 | 413 36 - 3128.09 | 1 | 175x6x20 | | | | 49C 220 K 9 V 40 | | | 1 | |
| 417822 | 413 36 - 3188.09 | 1 | 175x8x20 | | | | 49C 80 J 10 V 40 | | | 1 | |
| 417825 | 413 36 - 3193.09 | 1 | 175x8x20 | | | | 49C 100 L 9 V 40 | | | 1 | |
| 417850 | 413 36 - 3704.09 | 1 | 175x20x20 | | | | 49C 40 L 8 V 40 | | | 1 | |
| 417856 | 413 36 - 3741.09 | 1 | 175x20x20 | | | | 49C 80 K 9 V 40 | | | 1 | |
| 417860 | 413 36 - 3768.09 | 1 | 175x20x20 | | | | 49C 240 J 10 V 40 | | | 1 | |
| 417872 | 413 36 - 3878.09 | 1 | 175x20x32 | | | | 49C 60 J/K 9 V 40 | | | 1 | |
| 417985 | 413 36 - 6218.09 | 1 | 200x8x32 | | | | 49C 80 K 9 V 40 | | | 1 | |
| 417987 | 413 36 - 6224.09 | 1 | 200x8x32 | | | | 49C 100 L 8 V 40 | | | 1 | |
| 417988 | 413 36 - 6225.09 | 1 | 200x8x32 | | | | 49C 100 M 8 V 40 | | | 1 | |
| 418008 | 413 36 - 6456.09 | 1 | 200x10x51 | | | | 49C 100 L 9 V 40 | | | 1 | |
| 418042 | 413 36 - 7110.09 | 1 | 200x20x20 | | | | 49C 80 L 9 V 40 | | | 1 | |
| 418062 | 413 36 - 7253.09 | 1 | 200x20x32 | | | | 49C 40 L 8 V 40 | | | 1 | |
| 418070 | 413 36 - 7273.09 | 1 | 200x20x32 | | | | 49C 60 K 9 V 40 | | | 1 | |
| 418077 | 413 36 - 7293.09 | 1 | 200x20x32 | | | | 49C 80 K 9 V 40 | | | 1 | |
| 556578 | 413 36 - 7304.00 | 1 | 200x20x32 | | | | 49C 100 J 9 V 40 | | | 1 | |
| 418083 | 413 36 - 7313.09 | 1 | 200x20x32 | | | | 49C 120 J 9 V 40 | | | 1 | |


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|------------------|-------|-----------|-------------------|---------------------|
| 418090 | 413 36 - 7365.09 | 1 | 200×20×51 | 49C 40 L 8 V 40 | 1 |
| 418094 | 413 36 - 7378.09 | 1 | 200×20×51 | 49C 60 K 9 V 40 | 1 |
| 418096 | 413 36 - 7386.09 | 1 | 200×20×51 | 49C 80 K 9 V 40 | 1 |
| 418101 | 413 36 - 7408.09 | 1 | 200×20×51 | 49C 240 J 10 V 40 | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | D × T × H | white aluminium oxide, vitrified bond | |
|----------|------------------|---|-----------|---------------------------------------|---|
| 436259 | 413 51 - 3258.09 | 1 | 175×10×20 | 99BA 60 J 9 V 40 | 1 |
| 418281 | 413 51 - 3259.09 | 1 | 175×10×20 | 99BA 60 K 9 V 40 | 1 |
| 418282 | 413 51 - 3260.09 | 1 | 175×10×20 | 99BA 60 L 9 V 40 | 1 |
| 418283 | 413 51 - 3271.09 | 1 | 175×10×20 | 99BA 80 K 9 V 40 | 1 |
| 418301 | 413 51 - 3488.09 | 1 | 175×16×20 | 99BA 60 L 9 V 40 | 1 |
| 418307 | 413 51 - 3696.89 | 1 | 175×20×20 | 99A 24 P 5 V 40 | 1 |
| 418310 | 413 51 - 3707.89 | 1 | 175×20×20 | 99A 40 O 6 V 40 | 1 |
| 418312 | 413 51 - 3713.09 | 1 | 175×20×20 | 99BA 46 L 8 V 40 | 1 |
| 418313 | 413 51 - 3714.89 | 1 | 175×20×20 | 99A 46 M 8 V 40 | 1 |
| 418316 | 413 51 - 3722.09 | 1 | 175×20×20 | 99BA 60 L 9 V 40 | 1 |
| 418318 | 413 51 - 3723.89 | 1 | 175×20×20 | 99A 60 M 8 V 40 | 1 |
| 418321 | 413 51 - 3740.09 | 1 | 175×20×20 | 99BA 80 J 9 V 40 | 1 |
| 418333 | 413 51 - 3742.09 | 1 | 175×20×20 | 99BA 80 L 9 V 40 | 1 |
| 418334 | 413 51 - 3743.09 | 1 | 175×20×20 | 99BA 80 M 8 V 40 | 1 |
| 418339 | 413 51 - 3867.09 | 1 | 175×20×32 | 99BA 40 N 7 V 40 | 1 |
| 196635 | 413 51 - 3879.00 | 1 | 175×20×32 | 99BA 60 K 9 V 40 | 1 |
| 418346 | 413 51 - 3880.09 | 1 | 175×20×32 | 99BA 60 L 9 V 40 | 1 |
| 418464 | 413 51 - 6209.09 | 1 | 200×8×32 | 99BA 60 K 9 V 40 | 1 |
| 418471 | 413 51 - 6218.09 | 1 | 200×8×32 | 99BA 80 K 9 V 40 | 1 |
| 418473 | 413 51 - 6251.09 | 1 | 200×8×51 | 99BA 60 L 9 V 40 | 1 |
| 418491 | 413 51 - 6364.09 | 1 | 200×10×32 | 99BA 60 K 9 V 40 | 1 |
| 418511 | 413 51 - 6438.09 | 1 | 200×10×51 | 99BA 60 L 9 V 40 | 1 |
| 360361 | 413 51 - 7096.09 | 1 | 200×20×20 | 99BA 60 L 9 V 40 | 1 |
| 360390 | 413 51 - 7262.09 | 1 | 200×20×32 | 99BA 46 K 9 V 40 | 1 |
| 418595 | 413 51 - 7273.09 | 1 | 200×20×32 | 99BA 60 K 9 V 40 | 1 |
| 418606 | 413 51 - 7295.09 | 1 | 200×20×32 | 99BA 80 M 8 V 40 | 1 |
| 418608 | 413 51 - 7304.09 | 1 | 200×20×32 | 99BA 100 J 10 V 40 | 1 |
| 34242348 | 413 51 - 7313.00 | 1 | 200×20×32 | 99BA 120 J 9 V 40 | 1 |
| 418619 | 413 51 - 7370.09 | 1 | 200×20×51 | 99BA 46 J 9 V 40 | 1 |
| 418621 | 413 51 - 7372.09 | 1 | 200×20×51 | 99BA 46 L 8 V 40 | 1 |
| 418624 | 413 51 - 7378.09 | 1 | 200×20×51 | 99BA 60 K 9 V 40 | 1 |
| 436261 | 413 51 - 7380.89 | 1 | 200×20×51 | 99A 60 M 8 V 40 | 1 |
| 418634 | 413 51 - 7385.09 | 1 | 200×20×51 | 99BA 80 J 9 V 40 | 1 |
| 418635 | 413 51 - 7387.09 | 1 | 200×20×51 | 99BA 80 L 9 V 40 | 1 |

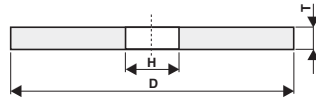


Shape **1**
D x T x H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|------------------|-------|-----------|------------------|---------------------|
| ▶▶ 418639 | 413 51 - 7411.89 | 1 | 200x20x51 | 99A 22 N 7 V 40 | 1 |
| 418679 | 413 51 - 7824.09 | 1 | 200x25x32 | 99BA 60 M 8 V 40 | 1 |
| 418694 | 413 51 - 7898.89 | 1 | 200x25x51 | 99A 40 O 6 V 40 | 1 |
| 418696 | 413 51 - 7901.09 | 1 | 200x25x51 | 99BA 46 J 9 V 40 | 1 |
| 418706 | 413 51 - 7911.09 | 1 | 200x25x51 | 99BA 60 K 9 V 40 | 1 |
| 418708 | 413 51 - 7913.89 | 1 | 200x25x51 | 99A 60 M 8 V 40 | 1 |
| 418754 | 413 51 - 8454.00 | 1 | 200x32x51 | 99BA 60 K 9 V 40 | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|------------------|----------------|----------------|------------|---|-----------|-------|-------------------|----------|-----|
| Application | ■ | ■ | □ | ■ | | | | | | |
| | | | D x T x H | | <i>pink aluminium oxide, vitrified bond</i> | | | | | |
| 360313 | 413 61 - 3117.09 | 1 | 175x6x20 | | | | | | | |
| 34424106 | 413 61 - 3130.00 | 1 | 175x6x20 | FOR SKATES | | | | | | |
| 418880 | 413 61 - 3259.09 | 1 | 175x10x20 | | | | | | | |
| 418900 | 413 61 - 3487.09 | 1 | 175x16x20 | | | | | | | |
| 418906 | 413 61 - 3721.09 | 1 | 175x20x20 | | | | | | | |
| 418909 | 413 61 - 3741.09 | 1 | 175x20x20 | | | | | | | |
| 418917 | 413 61 - 3879.09 | 1 | 175x20x32 | | | | | | | |
| 419058 | 413 61 - 6436.09 | 1 | 200x10x51 | | | | | | | |
| 419059 | 413 61 - 6437.09 | 1 | 200x10x51 | | | | | | | |
| 419086 | 413 61 - 6911.09 | 1 | 200x16x51 | | | | | | | |
| 419097 | 413 61 - 7109.09 | 1 | 200x20x20 | | | | | | | |
| 419104 | 413 61 - 7262.09 | 1 | 200x20x32 | | | | | | | |
| 419117 | 413 61 - 7363.09 | 1 | 200x20x51 | | | | | | | |
| 419125 | 413 61 - 7378.09 | 1 | 200x20x51 | | | | | | | |
| 419132 | 413 61 - 7385.09 | 1 | 200x20x51 | | | | | | | |
| 419191 | 413 61 - 7911.09 | 1 | 200x25x51 | | | | | | | |
| 419198 | 413 61 - 7921.09 | 1 | 200x25x51 | | | | | | | |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|------------------|----------------|----------------|------|---|-----------|-------|-------------------|----------|-----|
| Application | | □ | ■ | ■ | | | | | | |
| | | | D x T x H | | <i>ruby aluminium oxide, vitrified bond</i> | | | | | |
| 419286 | 413 66 - 3705.09 | 1 | 175x20x20 | | | | | | | |
| 419296 | 413 66 - 6356.09 | 1 | 200x10x32 | | | | | | | |
| 419305 | 413 66 - 7273.09 | 1 | 200x20x32 | | | | | | | |

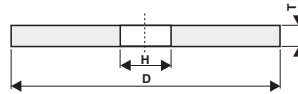


Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|------------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | | | | | | | | | |
| | | | D × T × H | brown aluminium oxide, vitrified bond | | | | | | | |
| 419337 | 413 71 - 3697.09 | 1 | 175×20×20 | 96A 24 Q 4 V 40 | | | | | | | 1 |
| 419341 | 413 71 - 3715.09 | 1 | 175×20×20 | 96A 46 N 7 V 40 | | | | | | | 1 |
| 419344 | 413 71 - 3724.09 | 1 | 175×20×20 | 96A 60 N 7 V 40 | | | | | | | 1 |
| 419356 | 413 71 - 3857.09 | 1 | 175×20×32 | 96A 36 M 8 V 40 | | | | | | | 1 |
| 419488 | 413 71 - 6366.09 | 1 | 200×10×32 | 96A 60 M 8 V 40 | | | | | | | 1 |
| 34242350 | 413 71 - 6549.00 | 1 | 200×12×32 | 96A 60 M 8 V 40 | | | | | | | 1 |
| 419544 | 413 71 - 7259.09 | 1 | 200×20×32 | 96A 36 P 5 V 40 | | | | | | | 1 |
| 419552 | 413 71 - 7274.09 | 1 | 200×20×32 | 96A 60 L 9 V 40 | | | | | | | 1 |
| 419559 | 413 71 - 7295.09 | 1 | 200×20×32 | 96A 80 M 8 V 40 | | | | | | | 1 |
| 419642 | 413 71 - 7822.09 | 1 | 200×25×32 | 96A 60 K 9 V 40 | | | | | | | 1 |
| 419739 | 413 71 - 8599.09 | 1 | 200×40×20 | 96A 100 H 10 V 40 | | | | | | | 1 |



414 – Straight grinding wheels with diameter 200 < D < 350 mm



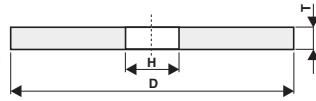
Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | | | ■ | □ | □ | | | |
| | | | D × T × H | <i>black silicon carbide, vitrified bond</i> | | | | | | | |
| 34242344 | 414 31 - 1176.00 | 1 | 250×10×32 | 48C 60 K 9 V 40 | | | | | | | 1 |
| 34242347 | 414 31 - 2635.00 | 1 | 250×32×32 | 48C 80 K 9 V 40 | | | | | | | 1 |
| 419880 | 414 31 - 2686.00 | 1 | 250×32×76 | 48C 36 O 6 V 40 | | | | | | | 1 |

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | □ | ■ | □ | □ | ■ | ■ | □ | |
| | | | D × T × H | <i>green silicon carbide, vitrified bond</i> | | | | | | | |
| 420041 | 414 36 - 2254.00 | 1 | 250×25×76 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 420046 | 414 36 - 2266.00 | 1 | 250×25×76 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 420048 | 414 36 - 2274.00 | 1 | 250×25×76 | 49C 100 J 10 V 40 | | | | | | | 1 |
| 558157 | 414 36 - 2615.00 | 1 | 250×32×32 | 49C 46 K 9V 40 | | | | | | | 1 |
| 558158 | 414 36 - 2616.00 | 1 | 250×32×32 | 49C 46 L 8V 40 | | | | | | | 1 |
| 420074 | 414 36 - 2632.00 | 1 | 250×32×32 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 420086 | 414 36 - 2690.00 | 1 | 250×32×76 | 49C 40 J 9 V 40 | | | | | | | 1 |
| 420093 | 414 36 - 2723.00 | 1 | 250×32×76 | 49C 80 J 9 V 40 | | | | | | | 1 |
| 34162611 | 414 36 - 2735.00 | 1 | 250×32×76,2 | 49C 80 J 9 V 40 | | | | | | | 1 |
| 558168 | 414 36 - 5292.00 | 1 | 300×32×32 | 49C 46 K 9V 40 | | | | | | | 1 |
| 558169 | 414 36 - 5293.00 | 1 | 300×32×32 | 49C 46 L 8V 40 | | | | | | | 1 |
| 420160 | 414 36 - 6301.00 | 1 | 300×32×32 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 420163 | 414 36 - 5306.00 | 1 | 300×32×32 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 420168 | 414 36 - 5365.00 | 1 | 300×32×76 | 49C 36 K 8 V 40 | | | | | | | 1 |
| 420174 | 414 36 - 5393.00 | 1 | 300×32×76 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 34162614 | 414 36 - 5414.00 | 1 | 300×32×76,2 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 420175 | 414 36 - 5403.00 | 1 | 300×32×76 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 34162617 | 414 36 - 5416.00 | 1 | 300×32×76,2 | 49C 80 K 9 V 40 | | | | | | | 1 |

Grey positions until stock run out

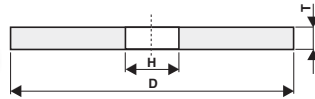
■ – suitable, □ – possible | reducing rings – page 82


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|-------------|-------------------------------------|--------------------------|--------------------------|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D × T × H | white aluminium oxide, vitrified bond | | | | | | | |
| 420354 | 414 51 - 1040.09 | 1 | 250×8×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420372 | 414 51 - 1176.09 | 1 | 250×10×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420402 | 414 51 - 1370.09 | 1 | 250×12×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420456 | 414 51 - 1871.00 | 1 | 250×20×76 | 99BA 40 J 9 V 40 | | | | | | | 1 |
| 420460 | 414 51 - 1879.00 | 1 | 250×20×76 | 99BA 46 J 9 V 40 | | | | | | | 1 |
| 420469 | 414 51 - 1891.00 | 1 | 250×20×76 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 420494 | 414 51 - 2146.09 | 1 | 250×25×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420514 | 414 51 - 2238.00 | 1 | 250×25×76 | 99BA 40 L 8 V 40 | | | | | | | 1 |
| 420522 | 414 51 - 2247.00 | 1 | 250×25×76 | 99BA 46 L 8 V 40 | | | | | | | 1 |
| 420524 | 414 51 - 2253.00 | 1 | 250×25×76 | 99BA 60 J 9 V 40 | | | | | | | 1 |
| 483647 | 414 51 - 2223.00 | 1 | 250×25×76,2 | 99BA 60 J 9 V 40 | | | | | | | 1 |
| 420527 | 414 51 - 2255.00 | 1 | 250×25×76 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 34036626 | 414 51 - 2299.00 | 1 | 250×25×76,2 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 420529 | 414 51 - 2256.80 | 1 | 250×25×76 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 34162622 | 414 51 - 2296.80 | 1 | 250×25×76,2 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 420535 | 414 51 - 2266.00 | 1 | 250×25×76 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 472910 | 414 51 - 2303.00 | 1 | 250×25×76,2 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 558162 | 414 51 - 2615.00 | 1 | 250×32×32 | 99BA 46 K 9 V 40 | | | | | | | 1 |
| 558163 | 414 51 - 2616.00 | 1 | 250×32×32 | 99BA 46 L 8 V 40 | | | | | | | 1 |
| 420589 | 414 51 - 2680.80 | 1 | 250×32×76 | 99A 24 P 5 V 40 | | | | | | | 1 |
| 420591 | 414 51 - 2686.80 | 1 | 250×32×76 | 99A 36 O 6 V 40 | | | | | | | 1 |
| 420603 | 414 51 - 2700.00 | 1 | 250×32×76 | 99BA 46 L 8 V 40 | | | | | | | 1 |
| 420605 | 414 51 - 2701.80 | 1 | 250×32×76 | 99A 46 M 8 V 40 | | | | | | | 1 |
| 420609 | 414 51 - 2708.00 | 1 | 250×32×76 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420610 | 414 51 - 2709.00 | 1 | 250×32×76 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 677353 | 414 51 - 2737.00 | 1 | 250×32×76,2 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 420614 | 414 51 - 2710.80 | 1 | 250×32×76 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 34162626 | 414 51 - 2755.80 | 1 | 250×32×76,2 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 420752 | 414 51 - 4893.00 | 1 | 300×25×76 | 99BA 80 M 8 V 40 | | | | | | | 1 |
| 34162627 | 414 51 - 4917.00 | 1 | 300×25×76,2 | 99BA 80 M 8 V 40 | | | | | | | 1 |
| 558173 | 414 51 - 5292.00 | 1 | 300×32×32 | 99BA 46 K 9 V 40 | | | | | | | 1 |
| 558174 | 414 51 - 5293.00 | 1 | 300×32×32 | 99BA 46 L 8 V 40 | | | | | | | 1 |
| 670757 | 414 51 - 5296.00 | 1 | 300×32×32 | 99BA 46 L 10 VY 40 | | | | | | | 1 |
| 420796 | 414 51 - 5303.89 | 1 | 300×32×32 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 420797 | 414 51 - 5353.80 | 1 | 300×32×76 | 99A 22 P 5 V 40 | | | | | | | 1 |
| 420799 | 414 51 - 5377.80 | 1 | 300×32×76 | 99A 40 N 6 V 40 | | | | | | | 1 |
| 420805 | 414 51 - 5393.00 | 1 | 300×32×76 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 420809 | 414 51 - 5395.80 | 1 | 300×32×76 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 34162629 | 414 51 - 5398.80 | 1 | 300×32×76,2 | 99A 60 M 8 V 40 | | | | | | | 1 |

Grey positions until stock run out

■ – suitable, □ – possible | reducing rings – page 82



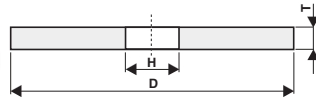
Shape **1**
D x T x H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|------------------|-------|------------|------------------|---------------------|
| 420843 | 414 51 - 5913.80 | 1 | 300x40x76 | 99A 20 P 5 V 40 | 1 |
| 420855 | 414 51 - 5951.80 | 1 | 300x40x76 | 99A 46 M 8 V 40 | 1 |
| 420939 | 414 51 - 6346.00 | 1 | 300x50x127 | 99BA 60 K 9 V 40 | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | D x T x H | <i>pink aluminium oxide, vitrified bond</i> | |
|----------|------------------|---|-------------|---|---|
| 421058 | 414 61 - 1248.00 | 1 | 250x10x76 | 98A 60 K 9 V 40 | 1 |
| 421080 | 414 61 - 1578.00 | 1 | 250x16x76 | 98A 60 J 9 V 40 | 1 |
| 421099 | 414 61 - 1889.00 | 1 | 250x20x76 | 98A 60 J 9 V 40 | 1 |
| 34162634 | 414 61 - 1967.00 | 1 | 250x20x76,2 | 98A 60 J 9 V 40 | 1 |
| 421100 | 414 61 - 1890.00 | 1 | 250x20x76 | 98A 60 K 9 V 40 | 1 |
| 34162642 | 414 61 - 1975.00 | 1 | 250x20x76,2 | 98A 60 K 9 V 40 | 1 |
| 421135 | 414 61 - 2237.00 | 1 | 250x25x76 | 98A 40 K 9 V 40 | 1 |
| 421142 | 414 61 - 2245.00 | 1 | 250x25x76 | 98A 46 J 9 V 40 | 1 |
| 421143 | 414 61 - 2246.00 | 1 | 250x25x76 | 98A 46 K 9 V 40 | 1 |
| 421145 | 414 61 - 2253.00 | 1 | 250x25x76 | 98A 60 J 9 V 40 | 1 |
| 421146 | 414 61 - 2254.00 | 1 | 250x25x76 | 98A 60 K 9 V 40 | 1 |
| 421168 | 414 61 - 2635.09 | 1 | 250x32x32 | 98A 80 K 9 V 40 | 1 |
| 421185 | 414 61 - 2699.00 | 1 | 250x32x76 | 98A 46 K 9 V 40 | 1 |
| 421188 | 414 61 - 2708.00 | 1 | 250x32x76 | 98A 60 K 9 V 40 | 1 |
| 34162647 | 414 61 - 2760.00 | 1 | 250x32x76,2 | 98A 60 K 9 V 40 | 1 |
| 421213 | 414 61 - 2949.00 | 1 | 250x40x76 | 98A 46 J 9 V 40 | 1 |
| 421356 | 414 61 - 5975.00 | 1 | 300x40x76 | 98A 80 K 9 V 40 | 1 |
| 34162654 | 414 61 - 5979.00 | 1 | 300x40x76,2 | 98A 80 K 9 V 40 | 1 |

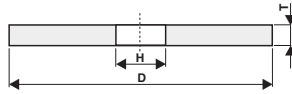
Grey positions until stock run out


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|-------------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D × T × H | | | | ruby aluminium oxide, vitrified bond | | | | | | | |
| 421423 | 414 66 - 2246.00 | 1 | 250×25×76 | 98RA 46 K 9 V 40 | | | | | | | 1 |
| 421424 | 414 66 - 2253.00 | 1 | 250×25×76 | 98RA 60 J 9 V 40 | | | | | | | 1 |
| 421429 | 414 66 - 2732.00 | 1 | 250×32×76 | 98RA 46 K 9 V 40 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D × T × H | | | | brown aluminium oxide, vitrified bond | | | | | | | |
| 34242346 | 414 71 - 1197.00 | 1 | 250×10×32 | 96A 60 M 8 V 40 | | | | | | | 1 |
| 34223926 | 414 71 - 1372.00 | 1 | 250×12×32 | 96A 60 M 8 V 40 | | | | | | | 1 |
| 421472 | 414 71 - 1410.09 | 1 | 250×13×32 | 96A 60 M 8 V 40 | | | | | | | 1 |
| 421536 | 414 71 - 2146.09 | 1 | 250×25×32 | 96A 60 K 9 V 40 | | | | | | | 1 |
| 421555 | 414 71 - 2248.00 | 1 | 250×25×76 | 96A 46 M 8 V 40 | | | | | | | 1 |
| 421585 | 414 71 - 2611.09 | 1 | 250×32×32 | 96A 40 O 6 V 40 | | | | | | | 1 |
| 421590 | 414 71 - 2628.09 | 1 | 250×32×32 | 96A 60 N 7 V 40 | | | | | | | 1 |
| 421601 | 414 71 - 2681.00 | 1 | 250×32×76 | 96A 24 Q 4 V 40 | | | | | | | 1 |
| 421724 | 414 71 - 5290.09 | 1 | 300×32×32 | 96A 40 P 5 V 40 | | | | | | | 1 |
| 421743 | 414 71 - 5386.00 | 1 | 300×32×76 | 96A 46 N 7 V 40 | | | | | | | 1 |
| 421824 | 414 71 - 5913.00 | 1 | 300×40×76 | 96A 20 P 5 V 40 | | | | | | | 1 |

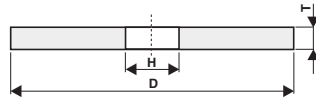


415 – Straight grinding wheels with diameter $350 \leq D < 500$ mm



Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------|--|---------------------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | D × T × H | black silicon carbide, vitrified bond | | | | | | | |
| 422022 | 415 31 - 3412.00 | 1 | 350×63×127 | 48C 24 P 4 V 40 | | | | | | | 1 |
| 422038 | 415 31 - 5799.00 | 1 | 400×50×127 | 48C 20 P 5 V 40 | | | | | | | 1 |
| 422044 | 415 31 - 5811.00 | 1 | 400×50×127 | 48C 24 N 7 V 40 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | D × T × H | green silicon carbide, vitrified bond | | | | | | | |
| 422099 | 415 36 - 2636.00 | 1 | 350×32×127 | 49C 60 K 9 V 40 | | | | | | | 1 |
| 422136 | 415 36 - 3238.00 | 1 | 350×50×127 | 49C 46 K 9 V 40 | | | | | | | 1 |
| 422141 | 415 36 - 3258.00 | 1 | 350×50×127 | 49C 80 K 9 V 40 | | | | | | | 1 |
| 422217 | 415 36 - 5850.00 | 1 | 400×50×127 | 49C 80 K 9 V 40 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | | | | | | | | | |
| | | | D × T × H | white aluminium oxide, vitrified bond | | | | | | | |
| 422300 | 415 51 - 2235.00 | 1 | 350×20×127 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 422338 | 415 51 - 2636.00 | 1 | 350×32×127 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 360521 | 415 51 - 2934.00 | 1 | 350×40×127 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 422409 | 415 51 - 2936.80 | 1 | 350×40×127 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 422411 | 415 51 - 2945.00 | 1 | 350×40×127 | 99BA 80 K 9 V 40 | | | | | | | 1 |
| 422429 | 415 51 - 3159.80 | 1 | 350×50×51 | 99A 22 N 6 V 40 | | | | | | | 1 |
| 422439 | 415 51 - 3211.80 | 1 | 350×50×127 | 99A 22 N 6 V 40 | | | | | | | 1 |
| 422441 | 415 51 - 3232.80 | 1 | 350×50×127 | 99A 40 M 7 V 40 | | | | | | | 1 |
| 422448 | 415 51 - 3248.00 | 1 | 350×50×127 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 422453 | 415 51 - 3250.80 | 1 | 350×50×127 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 422465 | 415 51 - 3412.80 | 1 | 350×63×127 | 99A 24 P 4 V 40 | | | | | | | 1 |
| 422468 | 415 51 - 3421.80 | 1 | 350×63×127 | 99A 40 M 6 V 40 | | | | | | | 1 |
| 422472 | 415 51 - 3430.80 | 1 | 350×63×127 | 99A 46 N 7 V 40 | | | | | | | 1 |


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|------------------|-------|---------------|------------------|---------------------|
| 422482 | 415 51 - 3435.00 | 1 | 350×63×127 | 99BA 60 L 9 V 40 | 1 |
| 422484 | 415 51 - 3436.80 | 1 | 350×63×127 | 99A 60 M 8 V 40 | 1 |
| 422606 | 415 51 - 5479.80 | 1 | 400×40×127 | 99A 24 Q 4 V 40 | 1 |
| 422611 | 415 51 - 5500.00 | 1 | 400×40×127 | 99BA 46 K 9 V 40 | 1 |
| 422618 | 415 51 - 5508.00 | 1 | 400×40×127 | 99BA 60 J 9 V 40 | 1 |
| 422657 | 415 51 - 5759.80 | 1 | 400×50×51 | 99A 40 M 8 V 40 | 1 |
| 422666 | 415 51 - 5799.80 | 1 | 400×50×127 | 99A 20 P 5 V 40 | 1 |
| 422670 | 415 51 - 5820.80 | 1 | 400×50×127 | 99A 40 M 7 V 40 | 1 |
| 422675 | 415 51 - 5826.00 | 1 | 400×50×127 | 99BA 46 K 9 V 40 | 1 |
| 422678 | 415 51 - 5829.80 | 1 | 400×50×127 | 99A 46 N 7 V 40 | 1 |
| 422696 | 415 51 - 5850.00 | 1 | 400×50×127 | 99BA 80 K 9 V 40 | 1 |
| 422702 | 415 51 - 5899.80 | 1 | 400×50×203 | 99A 40 O 6 V 40 | 1 |
| 34162655 | 415 51 - 5917.80 | 1 | 400×50×203,2 | 99A 40 O 6 V 40 | 1 |
| 436274 | 415 51 - 6018.80 | 1 | 400×63×127 | 99A 24 O 6 V 40 | 1 |
| 422727 | 415 51 - 6033.00 | 1 | 400×63×127 | 99BA 60 K 9 V 40 | 1 |
| 422787 | 415 51 - 6479.00 | 1 | 400×200×203 | 99BA 80 K 9 V 40 | 1 |
| 34162656 | 415 51 - 6482.00 | 1 | 400×200×203,2 | 99BA 80 K 9 V 40 | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | ■ | ■ | ■ | ■ | | | | | | |

D × T × H

pink aluminium oxide, vitrified bond

| | | | | | |
|--------|------------------|---|------------|-----------------|---|
| 422901 | 415 61 - 2642.00 | 1 | 350×32×127 | 98A 80 K 9 V 40 | 1 |
| 422909 | 415 61 - 2917.00 | 1 | 350×40×127 | 98A 40 J 9 V 40 | 1 |
| 422926 | 415 61 - 3238.00 | 1 | 350×50×127 | 98A 46 K 9 V 40 | 1 |
| 422927 | 415 61 - 3248.00 | 1 | 350×50×127 | 98A 60 K 9 V 40 | 1 |
| 422934 | 415 61 - 3426.00 | 1 | 350×63×127 | 98A 46 J 9 V 40 | 1 |
| 422937 | 415 61 - 3434.00 | 1 | 350×63×127 | 98A 60 K 9 V 40 | 1 |
| 422983 | 415 61 - 5525.00 | 1 | 400×40×127 | 98A 80 J 9 V 40 | 1 |
| 748103 | 415 61 - 5825.00 | 1 | 400×50×127 | 98A 46 J 9 V 40 | 1 |
| 423008 | 415 61 - 5836.00 | 1 | 400×50×127 | 98A 60 K 9 V 40 | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-----------------|----------------|----------------|------|----------|-----------|-------|-------------------|----------|-----|
| Application | ■ | ■ | | | | | | | | |

D × T × H

brown aluminium oxide, vitrified bond

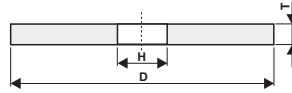
| | | | | | |
|--------|------------------|---|------------|-----------------|---|
| 423126 | 415 71 - 2930.00 | 1 | 350×40×127 | 96A 46 N 7 V 40 | 1 |
| 423229 | 415 71 - 5803.00 | 1 | 400×50×127 | 96A 22 O 6 V 40 | 1 |
| 423254 | 415 71 - 6018.00 | 1 | 400×63×127 | 96A 24 O 6 V 40 | 1 |

Grey positions until stock run out

■ – suitable, □ – possible | reducing rings – page 82



416 – Straight grinding wheels with diameter $500 \leq D < 1000$ mm



Shape **1**
D x T x H

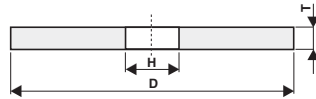
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------|--|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D x T x H | black silicon carbide, vitrified bond | | | | | | | |
| 423358 | 416 31 - 0756.00 | 1 | 500x50x203 | 48C 60 K 9 V 40 | | | | | | | 1 |
| 34162657 | 416 31 - 0815.00 | 1 | 500x50x203,2 | 48C 60 K 9 V 40 | | | | | | | 1 |
| 34162659 | 416 31 - 1178.00 | 1 | 500x80x203,2 | 48C 60 K 9 V 40 | | | | | | | 1 |

| | | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|--|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | D x T x H | green silicon carbide, vitrified bond | | | | | | | |
| 423438 | 416 36 - 0947.00 | 1 | 500x63x203 | 49C 40 L 8 V 40 | | | | | | | 1 |
| 34162661 | 416 36 - 0982.00 | 1 | 500x63x203,2 | 49C 40 L 8 V 40 | | | | | | | 1 |

| | | | | | | | | | | | |
|--------------------|--|--------------------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | |
| | | | D x T x H | white aluminium oxide, vitrified bond | | | | | | | |
| 423587 | 416 51 - 0756.00 | 1 | 500x50x203 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 423623 | 416 51 - 0953.00 | 1 | 500x63x203 | 99BA 46 K 9 V 40 | | | | | | | 1 |
| 34162662 | 416 51 - 0973.00 | 1 | 500x63x203,2 | 99BA 46 K 9 V 40 | | | | | | | 1 |
| 423665 | Also in group 471 – possible use by 50 m.s ⁻¹ (page 48) | 1 | 500x80x203 | 99BA 60 K 9 V 50 | | | | | | | 1 |
| 423673 | | 1 | 500x80x203 | 99BA 80 K 9 V 50 | | | | | | | 1 |
| 34162667 | | 1 | 500x80x203,2 | 99BA 80 K 9 V 50 | | | | | | | 1 |
| 423724 | 416 51 - 1423.80 | 1 | 500x150x305 | 99A 60 M 8 V 40 | | | | | | | 1 |
| 423745 | 416 51 - 1510.00 | 1 | 500x200x305 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 423825 | 416 51 - 2756.00 | 1 | 600x63x305 | 99BA 60 L 9 V 40 | | | | | | | 1 |
| 423852 | 416 51 - 2979.00 | 1 | 600x80x305 | 99BA 60 K 9 V 40 | | | | | | | 1 |

| | | | | | | | | | | | |
|--------------------|--------------------------|-------------------------------------|--------------------------|---|----------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| | | | D x T x H | pink aluminium oxide, vitrified bond | | | | | | | |
| 424197 | 416 61 - 1155.00 | 1 | 500x80x203 | 98A 60 K 9 V 40 | | | | | | | 1 |

Grey positions until stock run out


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|---------------|------------------|-------|-------------|-----------------|---------------------|
| 424231 | 416 61 - 1512.00 | 1 | 500×200×305 | 98A 60 M 8 V 40 | 1 |
| 424234 | 416 61 - 1520.00 | 1 | 500×200×305 | 98A 80 K 9 V 40 | 1 |
| 424314 | 416 61 - 5265.00 | 1 | 750×63×305 | 98A 46 K 8 V 40 | 1 |

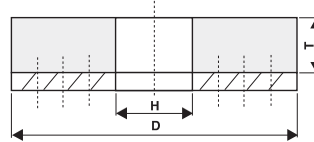
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-----------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---|
| Application | ■ | □ | | | | | | | | | |
| | D × T × H | | | brown aluminium oxide, vitrified bond | | | | | | | |
| 424409 | 416 71 - 0736.00 | 1 | 500×50×203 | 96A 22 P 5 V 40 | | | | | | | 1 |
| 34162663 | 416 71 - 0739.00 | 1 | 500×50×203,2 | 96A 22 P 5 V 40 | | | | | | | 1 |

Grey positions until stock run out

■ – suitable, □ – possible | reducing rings – page 82



424 – Grinding wheels with inserted nuts

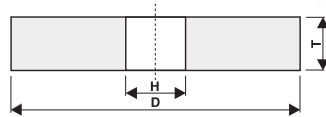


Shape **36**

D × T × H

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|---|----------|-------------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | | | | | | | | | |
| | | | D × T × H | <i>brown aluminium oxide, resinoid bond</i> | | | | | | | |
| 437451 | 424 74 - 1263.00 | 36 | 125×63×55 | 4 NUTS M8 | 96A | 20 Q 5 B 40 | | | | | 1 |
| 437453 | 424 74 - 1530.00 | 36 | 150×73×56,5 | 4 NUTS M8 | 96A | 16 Q 4 B 50 | | | | | 1 |

432 – Porous straight grinding wheels for surface grinding


 Shape **1**
 $D \times T \times H$

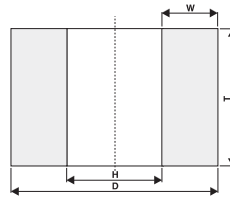
| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|--------------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | $D \times T \times H$ | <i>green silicon carbide, vitrified bond</i> | | | | | | | |
| 424981 | 432 36 - 2515.00 | 1 | 250×25×76 | 49C 24 J 12 V 35 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | $D \times T \times H$ | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 425059 | 432 51 - 2047.89 | 1 | 200×20×51 | 99A 60 K 12 V 40 | | | | | | | 1 |
| 425075 | 432 51 - 2524.80 | 1 | 250×25×76 | 99A 46 J 13 V 40 | | | | | | | 1 |
| 425078 | 432 51 - 2542.80 | 1 | 250×25×76 | 99A 60 J 12 V 40 | | | | | | | 1 |
| 34162665 | 432 51 - 2560.80 | 1 | 250×25×76,2 | 99A 60 J 12 V 40 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | $D \times T \times H$ | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 425267 | 432 61 - 2524.00 | 1 | 250×25×76 | 98A 46J 13V 40 | | | | | | | 1 |
| 34162666 | 432 61 - 2567.00 | 1 | 250×25×76,2 | 98A 46J 13V 40 | | | | | | | 1 |

Grey positions until stock run out

■ – suitable, □ – possible | reducing rings – page 82



441 – Ring grinding wheels

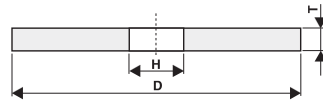


Shape **2**

D x T - W

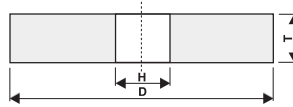
| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|--------------------|-----------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | ☐ | ■ | ■ | | | | |
| D x T - W | | | | black silicon carbide, vitrified bond | | | | | | |

451 – Non-reinforcement cutting wheels


 Shape **41**
D × T × H

| Item number | Internal code | Shape | Dimension | | Specification | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|------|---|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | D × T × H | | <i>black silicon carbide, resinoid bond</i> | | | | | | |
| 425670 | 451 34 - 1536.00 | 41 | 150×1×20 | | 48C 100 R 3 B 80 | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | D × T × H | | <i>brown aluminium oxide, resinoid bond</i> | | | | | | |
| 425781 | 451 74 - 1045.00 | 41 | 100×1×20 | | 96A 80 O 3 B 80 | | | | | | 1 |
| 425804 | 451 74 - 1233.00 | 41 | 125×1×20 | | 96A 80 O 3 B 80 | | | | | | 1 |
| 425809 | 451 74 - 1249.00 | 41 | 125×1,3×20 | | 96A 60 O 3 B 80 | | | | | | 1 |
| 425831 | 451 74 - 1516.00 | 41 | 150×0,8×20 | | 96A 80 O 3 B 80 | | | | | | 1 |
| 436310 | 451 74 - 1530.00 | 41 | 150×1×20 | | 96A 80 N 4 B 80 | | | | | | 1 |
| 425837 | 451 74 - 1534.00 | 41 | 150×1×20 | | 96A 100 O 3 B 80 | | | | | | 1 |
| 425839 | 451 74 - 1544.00 | 41 | 150×1,3×20 | | 96A 60 O 3 B 80 | | | | | | 1 |
| 425842 | 451 74 - 1556.00 | 41 | 150×1,6×20 | | 96A 46 O 3 B 80 | | | | | | 1 |
| 425844 | 451 74 - 1566.00 | 41 | 150×2×20 | | 96A 40 O 3 B 80 | | | | | | 1 |
| 425854 | 451 74 - 1583.00 | 41 | 150×3,2×20 | | 96A 60 O 3 B 80 | | | | | | 1 |
| 425897 | 451 74 - 2015.00 | 41 | 200×1,6×32 | | 96A 46 O 3 B 80 | | | | | | 1 |
| 425900 | 451 74 - 2026.00 | 41 | 200×1,6×32 | | 96A 80 O 3 B 80 | | | | | | 1 |
| 425904 | 451 74 - 2041.00 | 41 | 200×2×32 | | 96A 40 O 3 B 80 | | | | | | 1 |
| 425935 | 451 74 - 2531.00 | 41 | 250×2×32 | | 96A 40 O 3 B 80 | | | | | | 1 |

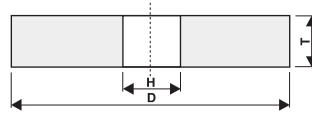
471 – Grinding wheels for working speed up to 50 m.s⁻¹

Shape **1****D × T × H**

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------|--|---------------------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | | | | | | | | | |
| | | | D × T × H | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 423665 | 471 51 - 1155.00 | 1 | 500×80×203 | 99BA 60 K 9 V 50 | | | | | | | 1 |
| 426382 | 471 51 - 5326.00 | 1 | 500×80×203,2 | 99BA 60 K 9 V 50 | | | | | | | 1 |
| 423673 | 471 51 - 1162.00 | 1 | 500×80×203 | 99BA 80 K 9 V 50 | | | | | | | 1 |
| 34162667 | 471 51 - 5344.00 | 1 | 500×80×203,2 | 99BA 80 K 9 V 50 | | | | | | | 1 |

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|--|----------------|----------------|---|---------------------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | | | | ■ | | | | | |
| | | | D × T × H | <i>brown aluminium oxide, resinoid bond</i> | | | | | | | |
| 426856 | | 1 | 125×20×20 | 96A 20 Q 2 B 63 | | | | | | | 1 |
| 426869 | | 1 | 150×20×20 | 96A 20 Q 2 B 63 | | | | | | | 1 |
| 746223 | | 1 | 150×20×20 | 96A 24 P 4 B 63 | | | | | | | 1 |
| 426934 | Also in group 472 – possible use by 63 m.s ⁻¹ (page 49) | 1 | 400×50×150 | 96A 12 Q 2 B 63 | | | | | | | 1 |
| 426948 | | 1 | 500×50×150 | 96A 20 O 4 B 63 | | | | | | | 1 |
| 558586 | | 1 | 500×50×203,2 | 96A 12 O 4 B 63 | | | | | | | 1 |
| 426949 | | 1 | 500×63×203 | 96A 12 O 4 B 63 | | | | | | | 1 |
| 426976 | | 1 | 750×80×305 | 96A 12 Q 2 B 63 | | | | | | | 1 |

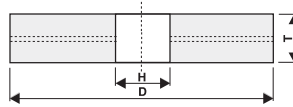
472 – Grinding wheels for working speed up to 63 m.s⁻¹


 Shape **1**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------|---|---------------------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | | | ■ | | | | | | |
| | | | D × T × H | <i>brown aluminium oxide, resinoid bond</i> | | | | | | | |
| 427386 | 472 74 - 0817.03 | 1 | 80×20×20 | 96A 24 P 4 B 63 | | | | | | | 1 |
| 436343 | 472 74 - 1057.03 | 1 | 100×20×20 | 96A 20 Q 2 B 63 | | | | | | | 1 |
| 436349 | 472 74 - 1065.03 | 1 | 100×20×20 | 96A 24 P 4 B 63 | | | | | | | 1 |
| 436361 | 472 74 - 1155.03 | 1 | 100×32×20 | 96A 24 P 4 B 63 | | | | | | | 1 |
| 426856 | 472 74 - 1215.03 | 1 | 125×20×20 | 96A 20 Q 2 B 63 | | | | | | | 1 |
| 426869 | 472 74 - 1532.03 | 1 | 150×20×20 | 96A 20 Q 2 B 63 | | | | | | | 1 |
| 746223 | 472 74 - 1545.03 | 1 | 150×20×20 | 96A 24 P 4 B 63 | | | | | | | 1 |
| 426934 | 472 74 - 4080.00 | 1 | 400×50×150 | 96A 12 Q 2 B 63 | | | | | | | 1 |
| 426948 | 472 74 - 5025.00 | 1 | 500×50×150 | 96A 20 O 4 B 63 | | | | | | | 1 |
| 558586 | 472 74 - 5112.00 | 1 | 500×50×203,2 | 96A 12 O 4 B 63 | | | | | | | 1 |
| 426949 | 472 74 - 5056.00 | 1 | 500×63×203 | 96A 12 O 4 B 63 | | | | | | | 1 |



476 – Grinding wheels with reinforcement for working speed up to 80 m.s⁻¹



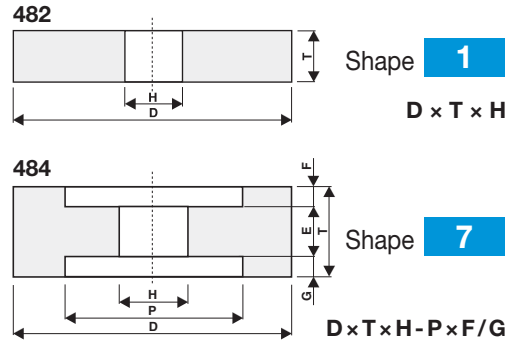
Shape **1**

D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | |
|--------------------|------------------|----------------|----------------|--|---------------------|-----------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | □ | | | ■ | | | | | |
| | | | D × T × H | <i>semi-friable aluminium oxide, resinoid bond</i> | | | | | | |
| 442502 | 476 99 - 1224.03 | 1 | 125×20×22,2 | 97PA 22 P 3 BF 80 | | | | | | |
| | | | | 1 | | | | | | |

482 – Straight regulating/control wheels

484 – Both side recessed regulating/control wheels



| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

482 Regulating wheels plain

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-----------------|-----------------|----------------|-----------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | | | | | | | | | | |
| | | | $D \times T \times H$ | | | | <i>brown aluminium oxide, rubber bond</i> | | | |
| 34380842 | | 1 | 350×200×203 - 2-PART | | | | CRA 120 - BR 60 | | | 1 |

484 Regulating wheels recessed both side

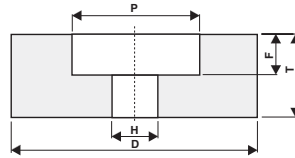
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-----------------|-----------------|----------------|--|------|----------|-----------|---|-------------------|----------|-----|
| Application | | | | | | | | | | |
| | | | $D \times T \times H - P \times F / G$ | | | | <i>brown aluminium oxide, rubber bond</i> | | | |
| 34380843 | | 7 | 200×80×76 - 120×10/10 | | | | CRA 120 - BR 60 | | | 1 |
| 34355077 | | 7 | 250×100×127 - 190×12/12 | | | | CRA 120 - BR 60 | | | 1 |
| 34374117 | | 7 | 300×100×127 - 190×12/12 | | | | CRA 120 - BR 60 | | | 1 |
| 34374617 | | 7 | 300×150×127 - 190×38/38 | | | | CRA 120 - BR 60 | | | 1 |
| 34374116 | | 7 | 300×200×127 - 190×62/38 - 2-PART | | | | CRA 120 - BR 60 | | | 1 |



511 – One side recessed grinding wheels

512 – One side recessed grinding wheels for surface grinding

513 – One side recessed grinding wheels for working speed up to 50 m.s⁻¹



Shape **5**

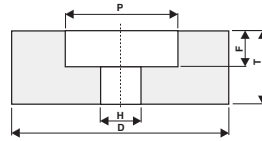
D x T x H - P x F

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

511 One side recessed grinding wheels

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|-------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | ■ | | □ | | □ | | | | |
| D x T x H - P x F | | | | | | | <i>white aluminium oxide, vitrified bond</i> | | | |
| 427817 | 511 51 - 1553.09 | 5 | 150x32x32 - 85x16 | | | | 99BA 60 K 9 V 40 | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | | | | | | | | | |
| D x T x H - P x F | | | | | | | <i>brown aluminium oxide, vitrified bond</i> | | | |
| 428122 | 511 71 - 0913.09 | 5 | 90x20x32 - 60x10 | | | | 96A 60 N 7 V 40 | | | 1 |

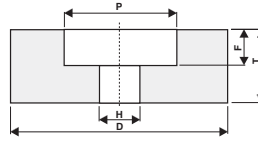

 Shape **5**
 $D \times T \times H - P \times F$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

512 One side recessed grinding wheels for surface grinding

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|--------------------------------------|------------------|----------------|---------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| $D \times T/N \times H - P \times F$ | | | | | | | <i>white</i> aluminium oxide, <i>vitri</i> fied bond | | | |
| 34162935 | 512 51 - 3561.80 | 5 | 350x50x127 - 200x10 | | | | 99A 46 J 12 V 40 | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|------------------------------------|------------------|----------------|---------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| $D \times T \times H - P \times F$ | | | | | | | <i>pink</i> aluminium oxide, <i>vitri</i> fied bond | | | |
| 34162933 | 512 61 - 3019.00 | 5 | 300x50x127 - 200x10 | | | | 98A 46 2 I 12 V 40 | | | 1 |



Shape **5**

D × T × H - P × F

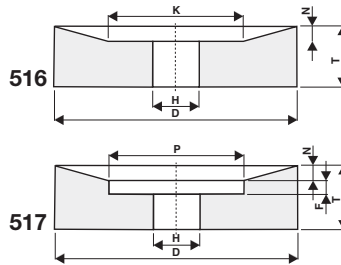
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

513 One side recessed grinding wheels for working speed up to 50 m.s⁻¹

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|-------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | ■ | □ | | | | ■ | | | | |
| D × T × H - P × F | | | | | | | <i>brown aluminium oxide, resinoid bond</i> | | | |
| 428293 | 513 74 - 1235.00 | 5 | 125×25×32 - 70×10 | | | | 96A 22 Q 4 B 50 | | | 1 |

516 – One side recessed grinding wheels

517 – One side relieved and recessed grinding wheels


 Shape **20**
 $D/K \times T/N \times H$

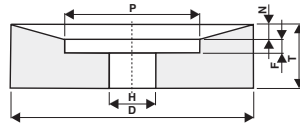
 Shape **23**
 $D \times T/N \times H - P \times F$


| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

516 One side recessed grinding wheels

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------------------|------------------|----------------|---------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| $D/K \times T/N \times H$ | | | | | | | <i>white</i> aluminium oxide, <i>vitrified</i> bond | | | |
| 34162971 | 516 51 - 5053.00 | 20 | 500/300×60/10×203,2 | | | | 99BA 60 K 9 V 50 | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------------------|------------------|----------------|---------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ |
| $D/K \times T/N \times H$ | | | | | | | <i>pink</i> aluminium oxide, <i>vitrified</i> bond | | | |
| 34162969 | 516 61 - 4549.00 | 20 | 450/220×50/10×127 | | | | 98A 60 J 9 V 50 | | | 1 |
| 34162973 | 516 61 - 5052.00 | 20 | 500/300×60/10×203,2 | | | | 98A 60 J 9 V 50 | | | 1 |



Shape **23**

D × T/N × H - P × F

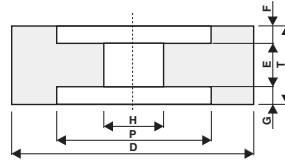
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

517 One side relieved and recessed grinding wheels

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|----------------------------|------|----------|--|-------|-------------------|----------|-----|
| Application | ■ | ■ | □ | □ | □ | □ | □ | □ | □ | □ |
| | | | D × T/N × H - P × F | | | white aluminium oxide, vitrified bond | | | | |
| 428319 | 517 51 - 2568.00 | 23 | 250×40/4,4×76 - 125×10,6 | | | 99BA 60 K 9 V 40 | | | 1 | |
| 428331 | 517 51 - 3546.00 | 23 | 350×40/5,2×127 - 200×9,8 | | | 99BA 60 L 9 V 40 | | | 1 | |
| 428341 | 517 51 - 3583.00 | 23 | 350×63/5,2×127 - 200×14,8 | | | 99BA 60 K 9 V 40 | | | 1 | |
| 428350 | 517 51 - 4058.00 | 23 | 400×50/7,0×127 - 200×13,0 | | | 99BA 60 K 9 V 40 | | | 1 | |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|----------------------------|------|----------|---|-------|-------------------|----------|-----|
| Application | □ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ |
| | | | D × T/N × H - P × F | | | pink aluminium oxide, vitrified bond | | | | |
| 428386 | 517 61 - 3545.00 | 23 | 350×40/5,2×127 - 200×9,8 | | | 98A 60 K 9 V 40 | | | 1 | |

522 – Both side recessed grinding wheels for surface grinding



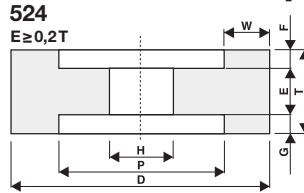
Shape **7**
 $D \times T \times H - P \times F/G$

| Item number | Internal code | Shape | | | Dimension | Specification | | | | | | Min. order quantity |
|--------------------------------------|------------------|-----------------|---------------------------|----------------|-----------|--|-----------|-------|-------------------|----------|-----|---------------------|
| <i>Material</i> | | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | ■ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| $D \times T \times H - P \times F/G$ | | | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 34162941 | 522 51 - 4043.80 | 7 | 400x75x127 - 200x10/20 | | | 99A 46 J 12 V 40 | | | | | | 1 |
| 34162945 | 522 51 - 4555.80 | 7 | 450x76x203,2 - 280x10/20 | | | 99A 46 J 12 V 40 | | | | | | 1 |
| 34162962 | 522 51 - 6052.80 | 7 | 600x100x304,8 - 400x15/15 | | | 99A 46 J 12V 40 | | | | | | 1 |
| <i>Material</i> | | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | ■ | ■ | □ | ■ | □ | □ | □ | □ | □ | □ | |
| $D \times T \times H - P \times F/G$ | | | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | |
| 34162946 | 522 61 - 4554.00 | 7 | 450x76x203,2 - 280x10/20 | | | 98A 46 2 I 12 V 40 | | | | | | 1 |

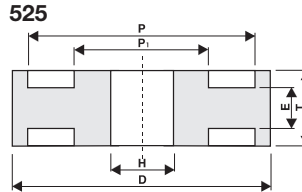


524 – Both sides recessed grinding wheels

525 – Grinding wheels width $T \leq 6$ mm for snap gauges



Shape **9**
 $D \times T \times H - W \times E$



Shape **902**
 $D/P_1 \times T/E \times P/H - W \times E$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

524 Both sides recessed grinding wheels

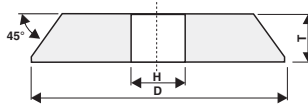
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|------------------------------------|----------------|------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | $D \times T \times H - W \times E$ | | | | | | <i>pink aluminium oxide, vitrified bond</i> | | | |
| 428674 | 524 61 - 2015.00 | 9 | 200×20×32 - 7×10 | | | | 98A 70 K 9 V 40 | | | 1 |
| 428688 | 524 61 - 2532.00 | 9 | 250×20×76 - 7×10 | | | | 98A 60 J 9 V 40 | | | 1 |
| 428692 | 524 61 - 2535.00 | 9 | 250×20×76 - 7×10 | | | | 98A 70 K 9 V 40 | | | 1 |
| 428694 | 524 61 - 2568.00 | 9 | 250×25×76 - 7×10 | | | | 98A 60 J 9 V 40 | | | 1 |

525 Grinding wheels width $T \leq 6$ mm for snap gauges

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|-------------------------------|----------------|----------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | $D/P_1 \times T/E \times P/H$ | | | | | | <i>pink aluminium oxide, vitrified bond</i> | | | |
| 34162669 | 525 61 - 2526.00 | 902 | 250/210×6/3×240/76,2 | | | | 98A 70 K 9 V 40 | | | 1 |

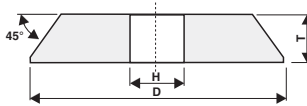
Grey positions until stock run out

539 – Grinding wheels – form C for saw sharpening



Shape **1** profil **C**
D × T × H

| Item number | Internal code | Shape | Dimension | | | | | | Specification | | | | Min. order quantity | |
|--------------------|------------------|----------------|----------------|-------------------------|----------|-----------|-------|-------------------|--|-----|---------------------------|--|---------------------|--|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | | | | |
| <i>Application</i> | ■ | □ | | □ | | | | | | | | | | |
| | | | D × T × H | | | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | |
| 436849 | 539 51 - 1537.09 | 1 | 150×4×20 | - PROFIL C | | | | | | | 99BA 100 L 9 V 40 | | 1 | |
| 436850 | 539 51 - 1540.09 | 1 | 150×4×20 | - PROFIL C | | | | | | | 99BA 120 L 9 V 40 | | 1 | |
| 436851 | 539 51 - 1542.09 | 1 | 150×4×20 | - PROFIL C | | | | | | | 99BA 150 L 9 V 40 | | 1 | |
| 437023 | 539 51 - 1572.90 | 1 | 150×8/3×20 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 436853 | 539 51 - 1578.09 | 1 | 150×8×20 | - PROFIL C | | | | | | | 99BA 60 K 9 V 40 | | 1 | |
| 436854 | 539 51 - 1590.09 | 1 | 150×10×20 | - PROFIL C | | | | | | | 99BA 100 L 8 V 40 | | 1 | |
| 437024 | 539 51 - 1594.90 | 1 | 150×10/3×20 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 583976 | 539 51 - 1647.00 | 1 | 150×6×20 | - PROFIL C | | | | | | | 99BA 60 K 9 V 40 | | 1 | |
| 437027 | 539 51 - 1769.90 | 1 | 175×8/3×20 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 9 V 40 | | 1 | |
| 437028 | 539 51 - 1778.90 | 1 | 175×10/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 748093 | 539 51 - 1823.00 | 1 | 178×8×20 | - PROFIL C | | | | | | | 99BA 60 K 9 V 40 | | 1 | |
| 436855 | 539 51 - 2023.09 | 1 | 200×8×32 | - PROFIL C | | | | | | | 99BA 80 L 9 V 40 | | 1 | |
| 437037 | 539 51 - 2059.90 | 1 | 200×8/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 436865 | 539 51 - 2039.09 | 1 | 200×10×32 | - PROFIL C | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 436866 | 539 51 - 2039.25 | 1 | 200×10×32 | - PROFIL C RESIN TREAT. | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 437034 | 539 51 - 2039.90 | 1 | 200×10/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/M 8 V 40 | | 1 | |
| 437038 | 539 51 - 2085.90 | 1 | 200×13/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 436867 | 539 51 - 2519.09 | 1 | 250×8×32 | - PROFIL C | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 437042 | 539 51 - 2519.90 | 1 | 250×8/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 8 V 40 | | 1 | |
| 436868 | 539 51 - 2545.09 | 1 | 250×10×32 | - PROFIL C | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 436870 | 539 51 - 2545.25 | 1 | 250×10×32 | - PROFIL C RESIN TREAT. | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 437044 | 539 51 - 2545.90 | 1 | 250×10/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N V 40 | | 1 | |
| 436871 | 539 51 - 2560.09 | 1 | 250×12×32 | - PROFIL C | | | | | | | 99BA 60 L 8 V 40 | | 1 | |
| 437050 | 539 51 - 2568.90 | 1 | 250×13/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/N 7 V 40 | | 1 | |
| 437053 | 539 51 - 2623.90 | 1 | 250×12/3×32 | - PROFIL C 2 LAYERS | | | | | | | 99BA/98A 60/80 L/M 8 V 40 | | 1 | |



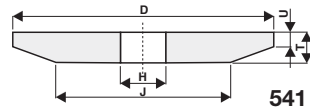
Shape **1** profil **C**
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | |
|--------------------|------------------|----------------|----------------|---|---------------------|-------------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | ■ | □ | ■ | | | | | | |
| | | | D × T × H | <i>ruby aluminium oxide and brown, vitrified bond</i> | | | | | | |
| 436873 | 539 66 - 1995.39 | 1 | 200×8×32 | - PROFIL C | 5RTNA | 60 M 8 V 40 | | | | 1 |
| 521858 | 539 66 - 2039.30 | 1 | 200×10×32 | - PROFIL C | 5RTNA | 60 L 9 V 40 | | | | 1 |
| 436874 | 539 66 - 2545.39 | 1 | 250×10×32 | - PROFIL C | 5RTNA | 60 L 8 V 40 | | | | 1 |

| | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|--|----------|-------------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | □ | | | | | | | | |
| | | | D × T × H | <i>brown aluminium oxide, vitrified bond</i> | | | | | | |
| 436875 | 539 71 - 1556.09 | 1 | 150×5×20 | - PROFIL C | 96A | 80 M 8 V 40 | | | | 1 |
| 436886 | 539 71 - 1582.09 | 1 | 150×8×20 | - PROFIL C | 96A | 80 L 8 V 40 | | | | 1 |
| 436887 | 539 71 - 1588.09 | 1 | 150×10×20 | - PROFIL C | 96A | 60 M 8 V 40 | | | | 1 |
| 436890 | 539 71 - 1714.09 | 1 | 175×5×20 | - PROFIL C | 96A | 80 L 8 V 40 | | | | 1 |
| 436891 | 539 71 - 1755.09 | 1 | 175×8×20 | - PROFIL C | 96A | 80 M 8 V 40 | | | | 1 |
| 436893 | 539 71 - 1767.09 | 1 | 175×10×20 | - PROFIL C | 96A | 60 M 8 V 40 | | | | 1 |
| 436902 | 539 71 - 1777.09 | 1 | 175×10×20 | - PROFIL C | 96A | 60 L 8 V 40 | | | | 1 |
| 436912 | 539 71 - 1980.09 | 1 | 200×10×32 | - PROFIL C | 96A | 60 M 8 V 40 | | | | 1 |
| 436914 | 539 71 - 2015.09 | 1 | 200×5×32 | - PROFIL C | 96A | 80 L 8 V 40 | | | | 1 |
| 436943 | 539 71 - 2059.09 | 1 | 200×8×32 | - PROFIL C | 96A | 60 L 9 V 40 | | | | 1 |
| 436940 | 539 71 - 2039.09 | 1 | 200×10×32 | - PROFIL C | 96A | 60 L 8 V 40 | | | | 1 |
| 436945 | 539 71 - 2116.09 | 1 | 200×10×32 | - PROFIL C | 96A | 80 L 9 V 40 | | | | 1 |
| 436950 | 539 71 - 2519.09 | 1 | 250×8×32 | - PROFIL C | 96A | 60 L 8 V 40 | | | | 1 |
| 436953 | 539 71 - 2545.09 | 1 | 250×10×32 | - PROFIL C | 96A | 60 L 8 V 40 | | | | 1 |
| 436955 | 539 71 - 2554.09 | 1 | 250×10×32 | - PROFIL C | 96A | 60 M 8 V 40 | | | | 1 |
| 436960 | 539 71 - 3034.09 | 1 | 300×10×32 | - PROFIL C | 96A | 60 L 9 V 40 | | | | 1 |

| | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|---|----------|-------------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | □ | | | | | | | | |
| | | | D × T × H | <i>brown aluminium oxide, resinoid bond</i> | | | | | | |
| 436967 | 539 74 - 1516.09 | 1 | 150×3×20 | - PROFIL C | 96A | 80 O 4 B 40 | | | | 1 |
| 436969 | 539 74 - 1717.09 | 1 | 175×5×20 | - PROFIL C | 96A | 80 O 4 B 40 | | | | 1 |
| 436970 | 539 74 - 2540.00 | 1 | 250×10×32 | - PROFIL C | 96A | 46 L 6 B 40 | | | | 1 |

541 – One side tapered grinding wheels

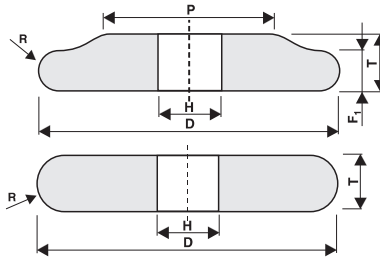


Shape **3**
D/J × T/U × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|-------------------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D/J × T/U × H | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 428730 | 541 51 - 1234.09 | 3 | 125/68×7/2×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 428740 | 541 51 - 1547.09 | 3 | 150/82×8/2×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 428753 | 541 51 - 1743.09 | 3 | 175/96×10/3×32 | 99BA 60 K 9 V 40 | | | | | | | 1 |
| 428755 | 541 51 - 2016.09 | 3 | 200/98×12/3×32 | 99BA 60 J 9 V 40 | | | | | | | 1 |



555 – Grinding wheels – form F



Shape **1** profil **F₁**

D × T × H

Shape **1** profil **F**

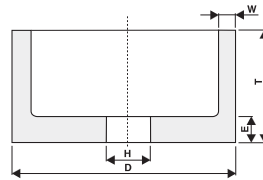
D × T × H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|----------------------------|---------------|---------------------|-----------|-------|-------------------|----------|--|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | □ | □ | □ | | | | | | | |
| | | | D × T × H | | | | | | | <i>white aluminium oxide, vitrified bond</i> | |
| 436406 | 555 51 - 2534.09 | 1 | 250×10×32 R=5 PROFIL F | | | | | | | 99BA 60 L 9 V 40 | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | □ | ■ | | | | | | | |
| | | | D × T × H | | | | | | | <i>pink aluminium oxide, vitrified bond</i> | |
| 494076 | 555 61 - 1012.00 | 1 | 100x4,5x10 R=2,25 PROFIL F | | | | | | | 98A 60 K 9 V 40 | 1 |

**571 – Cup grinding wheels
for working speed
up to 32 m.s⁻¹**

**572 – Porous cup grinding
wheels for surface grinding**

**574 – Cup grinding wheels
for working speed
up to 40 m.s⁻¹**



Shape **6**
D × T × H - W × E

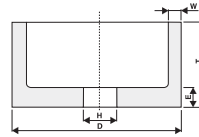
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

571 Cup grinding wheels for working speed up to 32 m.s⁻¹

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | | | | □ | ■ | ■ | | □ | | |
| D × T × H - W × E | | | | | | | black silicon carbide, vitrified bond | | | |
| 428897 | 571 31 - 1077.09 | 6 | 100×50×20 - 8×10 | | | | 48C | 80 K 9 V 32 | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|---------------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | □ | | □ | | □ | | | | |
| D × T × H - W × E | | | | | | | white aluminium oxide, vitrified bond | | | |
| 429005 | 571 51 - 0815.09 | 6 | 80×40×20 - 6×8 | | | | 99BA | 60 K 9 V 32 | | 1 |
| 429032 | 571 51 - 1065.09 | 6 | 100×50×20 - 7,5×10 | | | | 99BA | 60 K 9 V 32 | | 1 |
| 429043 | 571 51 - 1103.09 | 6 | 100×50×32 - 12×18 | | | | 99BA | 40 J 9 V 32 | | 1 |
| 429087 | 571 51 - 1264.09 | 6 | 125×63×20 - 8×13 | | | | 99BA | 60 K 9 V 32 | | 1 |
| 429188 | 571 51 - 1612.09 | 6 | 150×80×32 - 10×16 | | | | 99BA | 46 K 9 V 32 | | 1 |
| 429190 | 571 51 - 1617.09 | 6 | 150×80×32 - 10×16 | | | | 99BA | 60 K 9 V 32 | | 1 |
| 429205 | 571 51 - 1734.00 | 6 | 175×70×76 - 17,5×14 | | | | 99BA | 40 J 9 V 32 | | 1 |
| 429239 | 571 51 - 2062.00 | 6 | 200×80×150 - 15×16 | | | | 99BA | 40 J 9 V 32 | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------------|------------------|----------------|--------------------|------|----------|-----------|---|-------------------|----------|-----|
| Application | □ | ■ | | ■ | | | | | | |
| D × T × H - W × E | | | | | | | pink aluminium oxide, vitrified bond | | | |
| 429344 | 571 61 - 1065.09 | 6 | 100×50×20 - 7,5×10 | | | | 98A | 60 K 9 V 32 | | 1 |
| 429347 | 571 61 - 1077.09 | 6 | 100×50×20 - 7,5×10 | | | | 98A | 80 K 9 V 32 | | 1 |
| 429362 | 571 61 - 1293.09 | 6 | 125×63×32-15×13 | | | | 98A | 120 L 9 V 32 | | 1 |



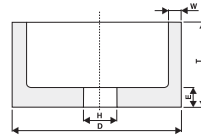
Shape **6**
D x T x H - W x E

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|------------------|-------|---------------------|-----------------|---------------------|
| 429363 | 571 61 - 1301.09 | 6 | 125x63x32 - 8x13 | 98A 40 J 9 V 32 | 1 |
| 429367 | 571 61 - 1315.09 | 6 | 125x63x32 - 8x13 | 98A 60 K 9 V 32 | 1 |
| 429389 | 571 61 - 1603.09 | 6 | 150x80x32 - 12,5x16 | 98A 40 J 9 V 32 | 1 |
| 429386 | 571 61 - 1612.09 | 6 | 150x80x32 - 12,5x16 | 98A 46 K 9 V 32 | 1 |
| 429397 | 571 61 - 1634.09 | 6 | 150x80x51 - 12,5x16 | 98A 60 K 9 V 32 | 1 |
| 429413 | 571 61 - 2065.00 | 6 | 200x80x150 - 15x16 | 98A 46 K 9 V 32 | 1 |
| 429432 | 571 61 - 3573.00 | 6 | 350x100x275 - 25x20 | 98A 40 L 8 V 32 | 1 |
| 429435 | 571 61 - 4015.00 | 6 | 400x100x310 - 25x20 | 98A 24 O 6 V 32 | 1 |
| 429436 | 571 61 - 4028.00 | 6 | 400x100x310 - 25x20 | 98A 40 K 9 V 32 | 1 |
| 429443 | 571 61 - 4046.00 | 6 | 400x100x325 - 25x20 | 98A 40 K 9 V 32 | 1 |

572 Porous cup grinding wheels for surface grinding

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|------------------|----------------|---------------------|-------------------|--------------|--|-------|-------------------|----------|-----|
| Application | | | | □ | ■ | ■ | | ■ | | □ |
| | | | | D x T x H - W x E | | black silicon carbide, vitrified bond | | | | |
| 429513 | 572 31 - 1531.09 | 6 | 150x80x32 - 12,5x16 | 48C | 60 L 12 V 32 | 1 | | | | |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|-------------|------------------|----------------|---------------------|-------------------|--------------|--|-------|-------------------|----------|-----|
| Application | ■ | ■ | □ | □ | | □ | | □ | | |
| | | | | D x T x H - W x E | | white aluminium oxide, vitrified bond | | | | |
| 429542 | 572 51 - 1522.89 | 6 | 150x80x32 - 12,5x16 | 99A | 46 J 12 V 32 | 1 | | | | |


 Shape **6**
 $D \times T \times H - W \times E$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

574 Cup grinding wheels for working speed up to 40 m.s⁻¹

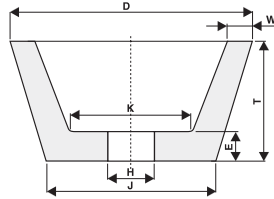
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|--------------------|------------------------------------|----------|--|-----------------|-------------------|----------|-----|
| Application | | | | ■ | ■ | ■ | ■ | ■ | | ■ |
| | | | | $D \times T \times H - W \times E$ | | <i>green silicon carbide, vitrified bond</i> | | | | |
| 427682 | 574 36 - 0668.00 | 6 | 63×50×20 - 14,5×20 | | | | 49C 40 K 9 V 40 | | | 1 |
| 427695 | 574 36 - 1541.00 | 6 | 150×32×20 - 35×12 | | | | 49C 80 K 9 V 40 | | | 1 |
| 427702 | 574 36 - 1731.00 | 6 | 175×32×32 - 42×12 | | | | 49C 80 K 9 V 40 | | | 1 |
| 427707 | 574 36 - 2033.00 | 6 | 200×32×32 - 45×12 | | | | 49C 40 L 8 V 40 | | | 1 |
| 427708 | 574 36 - 2035.00 | 6 | 200×32×32 - 45×12 | | | | 49C 60 K 9 V 40 | | | 1 |
| 427710 | 574 36 - 2039.00 | 6 | 200×32×32 - 45×12 | | | | 49C 80 K 9 V 40 | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|---------------------|------------------------------------|----------|--|------------------|-------------------|----------|-----|
| Application | ■ | ■ | | ■ | | ■ | | | | |
| | | | | $D \times T \times H - W \times E$ | | <i>white aluminium oxide, vitrified bond</i> | | | | |
| 427748 | 574 51 - 0669.00 | 6 | 63×50×20 - 15,5×20 | | | | 99BA 46 K 9 V 40 | | | 1 |
| 427750 | 574 51 - 0671.00 | 6 | 63×50×20 - 15,5×20 | | | | 99BA 60 K 9 V 40 | | | 1 |
| 427774 | 574 51 - 0869.00 | 6 | 80×50×32 - 15×20 | | | | 99BA 60 J 9 V 40 | | | 1 |
| 427785 | 574 51 - 1114.00 | 6 | 100×50×32 - 20×20 | | | | 99BA 60 K 9 V 40 | | | 1 |
| 427806 | 574 51 - 1356.00 | 6 | 125×63×51 - 22,5×25 | | | | 99BA 60 K 9 V 40 | | | 1 |
| 427827 | 574 51 - 1725.00 | 6 | 175×32×32 - 42,5×12 | | | | 99BA 60 K 9 V 40 | | | 1 |
| 427830 | 574 51 - 1732.00 | 6 | 175×32×32 - 42,5×12 | | | | 99BA 80 L 9 V 40 | | | 1 |
| 427835 | 574 51 - 2034.00 | 6 | 200×32×32 - 45×12 | | | | 99BA 46 M 8 V 40 | | | 1 |
| 427836 | 574 51 - 2037.00 | 6 | 200×32×32 - 45×12 | | | | 99BA 60 M 8 V 40 | | | 1 |
| 427846 | 574 51 - 2080.00 | 6 | 200×40×51 - 45×15 | | | | 99BA 60 K 9 V 40 | | | 1 |



575 – Tapered cup grinding wheels

576 – Porous tapered cup grinding wheels



Shape **11**

$D/J \times T \times H - W \times E \times K$



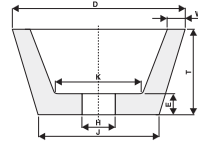
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

575 Tapered cup grinding wheels

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|---|----------------|----------------------------|------|----------|--------------------|---|-------------------|----------|-----|---|
| Application | | | | | | ■ | ■ | | | | |
| | $D/J \times T \times H - W \times E \times K$ | | | | | | black silicon carbide, resinoid bond | | | | |
| 429690 | 575 34 - 1119.03 | 11 | 110/90×55×22,2 - 20×10×47 | | | 48C 36 Q 5 B 11 50 | | | | | 1 |
| 429692 | 575 34 - 1280.03 | 11 | 125/100×50×22,2 - 25×20×54 | | | 48C 24 Q 3 B 11 50 | | | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|---|----------------|---------------------------|------|----------|-----------------|--|-------------------|----------|-----|---|
| Application | | | □ | □ | ■ | □ | | □ | □ | | |
| | $D/J \times T \times H - W \times E \times K$ | | | | | | green silicon carbide, vitrified bond | | | | |
| 429702 | 575 36 - 1015.09 | 11 | 100/71×40×20 - 8×10×56 | | | 49C 46 K 9 V 32 | | | | | 1 |
| 429708 | 575 36 - 1269.09 | 11 | 125/92×45×32 - 7,5×12×80 | | | 49C 80 K 9 V 32 | | | | | 1 |
| 429715 | 575 36 - 1557.09 | 11 | 150/114×50×32 - 10×12×100 | | | 49C 80 K 9 V 32 | | | | | 1 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|---|----------------|---------------------------|------|----------|------------------|--|-------------------|----------|-----|---|
| Application | ■ | □ | | □ | | □ | | | | | |
| | $D/J \times T \times H - W \times E \times K$ | | | | | | white aluminium oxide, vitrified bond | | | | |
| 429731 | 575 51 - 0708.09 | 11 | 80/56×32×20 - 6×10×47 | | | 99BA 46 J 9 V 32 | | | | | 1 |
| 429734 | 575 51 - 0715.09 | 11 | 80/56×32×20 - 6×10×47 | | | 99BA 60 K 9 V 32 | | | | | 1 |
| 429737 | 575 51 - 0720.09 | 11 | 80/56×32×20 - 6×10×47 | | | 99BA 80 K 9 V 32 | | | | | 1 |
| 429757 | 575 51 - 1017.09 | 11 | 100/75×35×20 - 7,5×10×65 | | | 99BA 60 J 9 V 32 | | | | | 1 |
| 429759 | 575 51 - 1020.09 | 11 | 100/71×40×20 - 8×10×56 | | | 99BA 60 K 9 V 32 | | | | | 1 |
| 429793 | 575 51 - 1212.09 | 11 | 125/92×45×20 - 7,5×12×80 | | | 99BA 40 J 9 V 32 | | | | | 1 |
| 429797 | 575 51 - 1222.09 | 11 | 125/92×45×20 - 7,5×12×80 | | | 99BA 60 K 9 V 32 | | | | | 1 |
| 429847 | 575 51 - 1554.09 | 11 | 150/114×50×32 - 10×12×100 | | | 99BA 60 K 9 V 32 | | | | | 1 |
| 429869 | 575 51 - 1775.09 | 11 | 175/134×55×32 - 16×15×105 | | | 99BA 40 K 9 V 32 | | | | | 1 |


 Shape **11**
D/J × T × H - W × E × K

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|-------------------------|-------------------------------------|-------------------------------------|----------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D/J × T × H - W × E × K | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | | |
| 429888 | 575 61 - 1015.09 | 11 | 100/71×40×20 - 8×10×56 | 98A 46 K 9 V 32 | | | | | | | 1 |
| 429892 | 575 61 - 1021.09 | 11 | 100/71×40×20 - 8×10×56 | 98A 60 L 9 V 32 | | | | | | | 1 |
| 429893 | 575 61 - 1025.09 | 11 | 100/71×40×20 - 8×10×56 | 98A 80 K 9 V 32 | | | | | | | 1 |
| 429909 | 575 61 - 1256.09 | 11 | 125/92×45×32 - 7,5×12×80 | 98A 40 J 9 V 32 | | | | | | | 1 |
| 429910 | 575 61 - 1260.09 | 11 | 125/92×45×32 - 7,5×12×80 | 98A 46 K 9 V 32 | | | | | | | 1 |
| 429911 | 575 61 - 1263.09 | 11 | 125/92×45×32 - 7,5×12×80 | 98A 60 K 9 V 32 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D/J × T × H - W × E × K | | | | <i>brown aluminium oxide, resinoid bond</i> | | | | | | | |
| 429936 | 575 74 - 1277.03 | 11 | 125/100×50×22,2 - 25×20×54 | 96A 20 Q 2 B11 50 | | | | | | | 1 |
| 429937 | 575 74 - 1538.03 | 11 | 150/110×50×22,2 - 20×12×70 | 96A 20 Q 2 B11 50 | | | | | | | 1 |

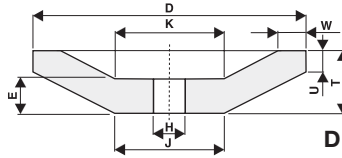
576

Porous tapered cup grinding wheels

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|-------------------------|--------------------------|-------------------------------------|--------------------------|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|
| <i>Application</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| D/J × T × H - W × E × K | | | | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 429950 | 576 51 - 1225.89 | 11 | 125/92×45×20 - 7,5×12×80 | 99A 46 M 12 V 32 | | | | | | | 1 |



581 – Dish grinding wheels

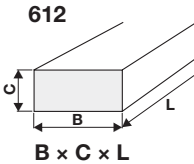
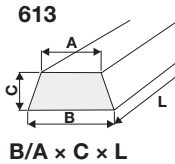
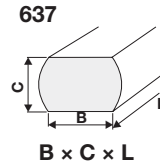
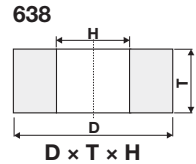


Shape **12**

D/J × T/U × H - W × E × K

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------|------------------|----------------|---------------------------|--|---------------------|-----------|-------|-------------------|----------|-----|---|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | | | | ☐ | ■ | ■ | | | | | |
| | | | D/J × T/U × H - W × E × K | black silicon carbide, vitrified bond | | | | | | | |
| 429972 | 581 31 - 1533.09 | 12 | 150/50×15/3×20 - 8×10×50 | 48C 80 K 9 V 32 | | | | | | | 1 |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ☐ | | ☐ | | ☐ | | | | | |
| | | | D/J × T/U × H - W × E × K | white aluminium oxide, vitrified bond | | | | | | | |
| 429986 | 581 51 - 0715.00 | 12 | 75/28×8/2×13 - 4×6×28 | 99BA 60 K 9 V 32 | | | | | | | 1 |
| 429998 | 581 51 - 1015.09 | 12 | 100/35×12/3×20 - 5×8×35 | 99BA 60 K 9 V 32 | | | | | | | 1 |
| 430001 | 581 51 - 1020.09 | 12 | 100/35×12/3×20 - 5×8×35 | 99BA 80 J 9 V 32 | | | | | | | 1 |
| 430011 | 581 51 - 1222.09 | 12 | 125/40×14/3×20 - 6×9×40 | 99BA 60 K 9 V 32 | | | | | | | 1 |
| 430028 | 581 51 - 1527.09 | 12 | 150/50×15/3×20 - 8×10×50 | 99BA 60 K 9 V 32 | | | | | | | 1 |
| 430034 | 581 51 - 1538.09 | 12 | 150/50×15/3×20 - 8×10×50 | 99BA 60 J 9 V 32 | | | | | | | 1 |
| 430054 | 581 51 - 1716.09 | 12 | 175/60×18/3×32 - 10×11×60 | 99BA 46 L 8 V 32 | | | | | | | 1 |
| 430056 | 581 51 - 1722.09 | 12 | 175/60×18/3×32 - 10×11×60 | 99BA 60 K 9 V 32 | | | | | | | 1 |
| 430068 | 581 51 - 2021.09 | 12 | 200/70×19/3×32 - 10×12×70 | 99BA 60 K 9 V 32 | | | | | | | 1 |

612 – Grinding segments – rectangle
613 – Grinding segments – trapezoid
**637 – Grinding segments –
rectangle and rounded**
638 – Grinding segments – ring

 Shape **3101**

 Shape **3109**

 Shape **31S**

 Shape **5420**


| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

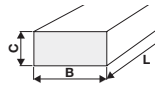
612 Grinding segments – rectangle

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|-----|---|
| Application | | | | | | ■ | ■ | ■ | | | |
| | | | $B \times C \times L$ | <i>black silicon carbide, vitrified bond</i> | | | | | | | |
| 430131 | 612 31 - 0861.00 | 3101 | 80×25×150 | 48C 40 J 9 V | | | | | | | 8 |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|-----------------------|--|----------|-----------|-------|-------------------|----------|-----|------|
| Application | ■ | ■ | | ■ | | ■ | | | | | |
| | | | $B \times C \times L$ | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 430140 | 612 51 - 0829.00 | 3101 | 80×25×150 | 99BA 24 G 10 V | | | | | | | 8 |
| 430141 | 612 51 - 0831.00 | 3101 | 80×25×150 | 99BA 36 G 10 V | | | | | | | 8 |
| 430144 | 612 51 - 0835.00 | 3101 | 80×25×150 | 99BA 24 J 9 V | | | | | | | 8 |
| 430145 | 612 51 - 0837.00 | 3101 | 80×25×150 | 99BA 24 K 9 V | | | | | | | 8 |
| 430146 | 612 51 - 0843.00 | 3101 | 80×25×150 | 99BA 36 J 9 V | | | | | | | 8 |
| 430150 | 612 51 - 0853.00 | 3101 | 80×25×150 | 99BA 40 G 10 V | | | | | | | 8 |
| 430152 | 612 51 - 0861.00 | 3101 | 80×25×150 | 99BA 40 J 9 V | | | | | | | 8 |
| 430153 | 612 51 - 0862.00 | 3101 | 80×25×150 | 99BA 40 J 12 V | | | | | | | 8 |
| 430154 | 612 51 - 0863.00 | 3101 | 80×25×150 | 99BA 40 K 9 V | | | | | | | 8 |
| 430155 | 612 51 - 0864.80 | 3101 | 80×25×150 | 99A 40 K 12 V | | | | | | | 8 |
| 430158 | 612 51 - 0872.00 | 3101 | 80×25×150 | 99BA 46 K 9 V | | | | | | | 8 ▶▶ |

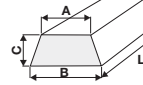


612



Shape **3101**
B x C x L

613



Shape **3109**
B/A x C x L

| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | ■ | □ | □ | | ■ | | | | |
| | | | B x C x L | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| ▶▶ 430163 | 612 51 - 0880.00 | 3101 | 80x25x150 | 99BA 60 K 9 V | | | | | | 8 |
| 430166 | 612 51 - 0948.00 | 3101 | 90x35x150 | 99BA 24 H 10 V | | | | | | 8 |
| 430168 | 612 51 - 0952.00 | 3101 | 90x35x150 | 99BA 24 J 9 V | | | | | | 8 |
| 413126 | 612 51 - 0954.00 | 3101 | 90x35x150 | 99BA 24 K 9 V | | | | | | 8 |
| 430170 | 612 51 - 0962.00 | 3101 | 90x35x150 | 99BA 36 J 9 V | | | | | | 8 |
| 430171 | 612 51 - 0964.00 | 3101 | 90x35x150 | 99BA 36 K 9 V | | | | | | 8 |
| 430173 | 612 51 - 0976.00 | 3101 | 90x35x150 | 99BA 40 J 9 V | | | | | | 8 |
| 430175 | 612 51 - 0978.00 | 3101 | 90x35x150 | 99BA 40 K 9 V | | | | | | 8 |

| | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|---|----------|-----------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | □ | ■ | | ■ | | | | | | |
| | | | B x C x L | <i>pink aluminium oxide, vitrified bond</i> | | | | | | |
| 430183 | 612 61 - 0813.00 | 3101 | 80x25x150 | 98A 24 J 9 V | | | | | | 8 |
| 430187 | 612 61 - 0952.00 | 3101 | 90x35x150 | 98A 24 J 9 V | | | | | | 8 |

613

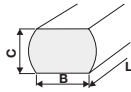
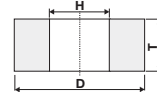
Grinding segments – trapezoid

| | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | ■ | | | | ■ | | | | |
| | | | B/A x C x L | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 430234 | 613 51 - 1014.00 | 3109 | 100/85x35x150 | 99BA 24 K 10 V | | | | | | 8 |
| 430235 | 613 51 - 1016.00 | 3109 | 100/85x35x150 | 99BA 40 J 9 V | | | | | | 8 |
| 430241 | 613 51 - 1035.00 | 3109 | 100/85x35x200 | 99BA 36 I 10 V | | | | | | 8 |

637

Grinding segments – rectangle and rounded

| | | | | | | | | | | |
|--------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | □ | | | | ■ | | | | |
| | | | B x C x L | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 436422 | 637 51 - 0845.00 | 31S | 85x56x63 | 99BA 40 G 10 V | | | | | | 8 |


637

 Shape **31S**
B x C x L
638

 Shape **5420**
D x T x H

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

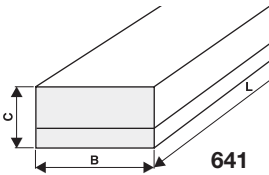
638 Grinding segments – ring

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| D x T x H | | | | <i>pink aluminium oxide, vitrified bond</i> | | | | | | |
| 436548 | 638 61 - 1230.00 | 5420 | 125x63x63 | | | | | 98A 24 I 10 V | 8 | |

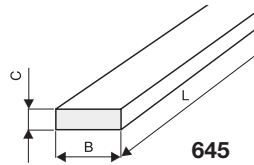


641 – Grinding combination stones

645 – Grinding hand stones – rectangle



Shape **90K**
B x C x L



Shape **90AS**
B x C x L

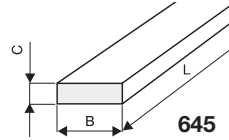
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

641 Grinding combination stones

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | B x C x L | | | <i>black silicon carbide, vitrified bond</i> | | | | |
| 436555 | 641 31 - 0589.94 | 90K | 50x25x200 | | | | 48C 150/240 N 7 V | 10 | | |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | B x C x L | | | <i>green silicon carbide, vitrified bond</i> | | | | |
| 437100 | 641 36 - 0245.94 | 90K | 25x15x150 | | | | 49C 120/400 M 8 V | 10 | | |
| 437105 | 641 36 - 0537.94 | 90K | 50x25x150 | | | | 49C 150/320 N 7 V | 10 | | |
| 386844 | 641 36 - 0577.94 | 90K | 50x25x200 | | | | 49C 150/320 N 7 V | 10 | | |

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Application | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | B x C x L | | | <i>white aluminium oxide, vitrified bond</i> | | | | |
| 437111 | 641 51 - 0538.94 | 90K | 50x25x150 | | | | 99A 150/320 O 6 V | 10 | | |
| 437114 | 641 51 - 0578.94 | 90K | 50x25x200 | | | | 99A 150/320 O 6 V | 10 | | |



Shape **90AS**

B x C x L

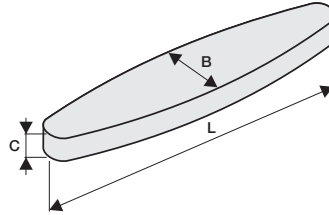
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

645 Grinding hand stones – rectangle

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|----------------|------|----------|--|--------------|-------------------|----------|-----|
| Application | | | | ■ | ■ | ■ | ■ | ■ | | |
| | | | B x C x L | | | <i>black silicon carbide, vitrified bond</i> | | | | |
| 430326 | 645 31 - 0555.00 | 90AS | 50x25x200 | | | | 48C 40 K 9 V | | | 10 |



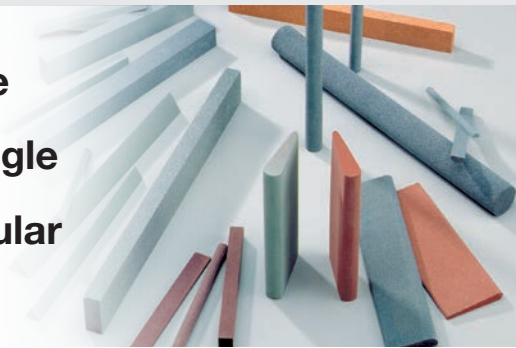
648 – Stones for scythes sharpening



Shape **90W**

B × C × L

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | |
|--------------------|------------------|----------------|----------------|---------------|---------------------|-----------|-----------|-------------------|----------|-----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | ■ | ■ | | | | | | | | |
| B × C × L | | | | | | | | | | |
| 523426 | 648 31 - 2315.92 | 90W | 35×13×230 | C.190A | IN BOX | 48C | 100 N 7 V | | | 1 |



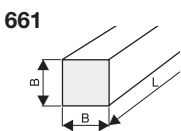
661 – Grinding files – square

662 – Grinding files – rectangle

668 – Grinding files – triangular

671 – Grinding files – round

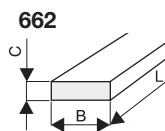
672 – Grinding files – half round



Shape

9011

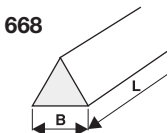
$B \times L$



Shape

9010

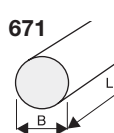
$B \times C \times L$



Shape

9020

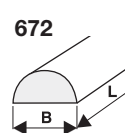
$B \times L$



Shape

9030

$B \times L$



Shape

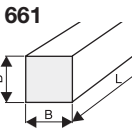
9040

$B \times L$

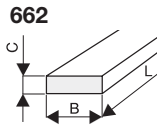
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

661 Grinding files – square

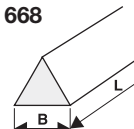
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
|---------------|------------------|----------------|----------------|------|----------|-----------|--|-------------------|----------|-----|
| Application | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | $B \times L$ | | | | | | <i>green silicon carbide, vitrified bond</i> | | | |
| 430428 | 661 36 - 1051.00 | 9011 | 10×100 | | | | 49C | 220 N 7 V | | 20 |
| 430431 | 661 36 - 1058.00 | 9011 | 10×100 | | | | 49C | 320 N 7 V | | 20 |
| 430448 | 661 36 - 1335.00 | 9011 | 13×150 | | | | 49C | 120 N 7 V | | 20 |
| 430451 | 661 36 - 1347.00 | 9011 | 13×150 | | | | 49C | 320 N 7 V | | 20 |
| 430457 | 661 36 - 2035.00 | 9011 | 20×200 | | | | 49C | 80 N 7 V | | 10 |
| 430459 | 661 36 - 2041.00 | 9011 | 20×200 | | | | 49C | 120 N 7 V | | 10 |
| 430461 | 661 36 - 2047.00 | 9011 | 20×200 | | | | 49C | 220 N 7 V | | 10 |



661
Shape
9011
B × L



662
Shape
9010
B × C × L



668
Shape
9020
B × L

| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|-------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | B × L | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 430473 | 661 51 - 1052.80 | 9011 | 10×100 | 99A 220 O 6 V | | | | | | 20 |
| 430499 | 661 51 - 2048.80 | 9011 | 20×200 | 99A 220 O 6 V | | | | | | 10 |

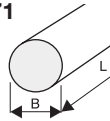
662 Grinding files – rectangle

| | | | | | | | | | | |
|-------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | B × C × L | <i>green silicon carbide, vitrified bond</i> | | | | | | |
| 430527 | 662 36 - 1341.00 | 9010 | 13×3×100 | 49C 320 N 7 V | | | | | | 20 |
| 430537 | 662 36 - 2016.00 | 9010 | 20×6×100 | 49C 220 N 7 V | | | | | | 20 |
| 430543 | 662 36 - 2040.00 | 9010 | 20×10×150 | 49C 120 N 7 V | | | | | | 20 |
| 430545 | 662 36 - 2055.00 | 9010 | 20×10×150 | 49C 320 N 7 V | | | | | | 20 |
| 430551 | 662 36 - 2524.00 | 9010 | 25×13×200 | 49C 320 N 7 V | | | | | | 10 |

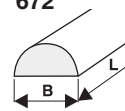
| | | | | | | | | | | |
|-------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | B × C × L | <i>white aluminium oxide, vitrified bond</i> | | | | | | |
| 430565 | 662 51 - 2012.80 | 9010 | 20×6×100 | 99A 120 O 6 V | | | | | | 20 |
| 430575 | 662 51 - 2041.80 | 9010 | 20×10×150 | 99A 120 O 6 V | | | | | | 20 |
| 430579 | 662 51 - 2519.80 | 9010 | 25×13×200 | 99A 220 O 6 V | | | | | | 10 |

668 Grinding files – triangular

| | | | | | | | | | | |
|-------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | | B × L | <i>green silicon carbide, vitrified bond</i> | | | | | | |
| 430607 | 668 36 - 0615.00 | 9020 | 6×100 | 49C 220 N 7 V | | | | | | 20 |
| 430614 | 668 36 - 1015.00 | 9020 | 10×100 | 49C 120 N 7 V | | | | | | 20 |
| 436560 | 668 36 - 1021.00 | 9020 | 10×100 | 49C 220 N 7 V | | | | | | 20 |
| 430620 | 668 36 - 1325.00 | 9020 | 13×150 | 49C 120 N 7 V | | | | | | 20 |
| 437122 | 668 36 - 1623.00 | 9020 | 16×150 | 49C 220 N 7 V | | | | | | 20 |
| 430624 | 668 36 - 2011.00 | 9020 | 20×200 | 49C 80 N 7 V | | | | | | 10 |
| 430627 | 668 36 - 2027.00 | 9020 | 20×200 | 49C 320 N 7 V | | | | | | 10 |


671


Shape

9030
B × L
672


Shape

9040
B × L

| Item number | Internal code | Shape | Dimension | Specification | | | | | | | Min. order quantity |
|---------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|---------------------|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | B × L | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 430641 | 668 51 - 1326.80 | 9020 | 13×150 | 99A 120 O 6 V | | | | | | | 20 |
| 430642 | 668 51 - 1332.80 | 9020 | 13×150 | 99A 220 O 6 V | | | | | | | 20 |
| 430652 | 668 51 - 2012.80 | 9020 | 20×200 | 99A 80 O 6 V | | | | | | | 10 |
| 430654 | 668 51 - 2018.80 | 9020 | 20×200 | 99A 120 O 6 V | | | | | | | 10 |

671

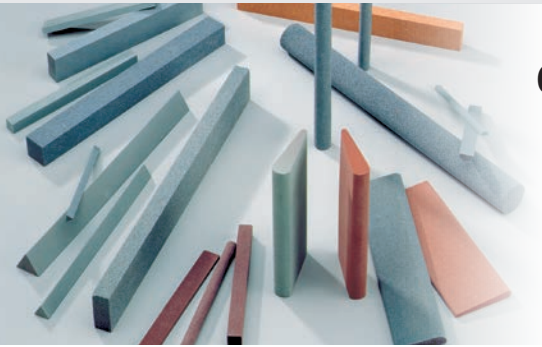
Grinding files – round

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Application | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | B × L | <i>green silicon carbide, vitrified bond</i> | | | | | | | |
| 430679 | 671 36 - 1029.00 | 9030 | 10×100 | 49C 220 N 7 V | | | | | | | 20 |

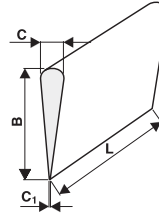
672

Grinding files – half round

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| Application | □ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | B × L | <i>green silicon carbide, vitrified bond</i> | | | | | | | |
| 430746 | 672 36 - 1321.00 | 9040 | 13×150 | 49C 120 N 7 V | | | | | | | 20 |
| 430758 | 672 36 - 2023.00 | 9040 | 20×200 | 49C 220 N 7 V | | | | | | | 10 |
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| Application | ■ | ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | | B × L | <i>white aluminium oxide, vitrified bond</i> | | | | | | | |
| 430777 | 672 51 - 1322.80 | 9040 | 13×150 | 99A 120 O 6 V | | | | | | | 20 |
| 430792 | 672 51 - 2024.80 | 9040 | 20×200 | 99A 220 O 6 V | | | | | | | 10 |



675 – Grinding files – knife blade shape



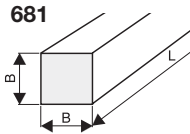
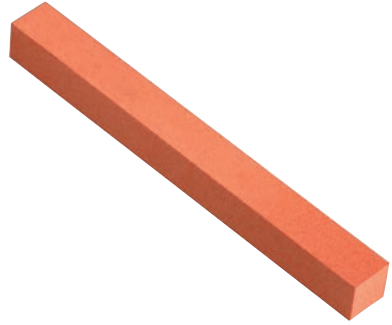
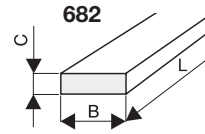
Shape **90HM**
C/C₁ × B × L

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity | | | | | | |
|--------------------------|------------------|----------------|----------------|--|---------------------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | ■ | | | | | ■ | |
| C/C ₁ × B × L | | | | green silicon carbide, vitrified bond | | | | | | | |
| 436562 | 675 36 - 3525.00 | 90HM | 10/3×35×150 | | | | | | | | 20 |
| 437131 | 675 36 - 4524.00 | 90HM | 6/2×45×115 | | | | | | | | 20 |

| | | | | | | | | | | | |
|--------------------------|------------------|----------------|----------------|--|----------|-----------|-------|-------------------|----------|-----|----|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | ■ | ■ | ■ | ■ | | | | | | | |
| C/C ₁ × B × L | | | | white aluminium oxide, vitrified bond | | | | | | | |
| 437132 | 675 51 - 4528.80 | 90HM | 6/2×45×115 | | | | | | | | 20 |
| 437134 | 675 51 - 4550.80 | 90HM | 13/5×45×115 | | | | | | | | 20 |

681 – Honing stones – square

682 – Honing stones – rectangle


 Shape **5411**
 $B \times L$

 Shape **5410**
 $B \times C \times L$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

681 Honing stones – square

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|------|----------|-----------|--|-------------------|----------|-----|--|
| Application | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | $B \times L$ | | | | | | <i>green silicon carbide, vitrified bond</i> | | | | |
| 430826 | 681 36 - 1057.00 | 5411 | 10×125 | | | | 49C 120 M 8 V | | | 20 | |
| 430828 | 681 36 - 1060.00 | 5411 | 10×125 | | | | 49C 220 L 9 V | | | 20 | |
| 430843 | 681 36 - 1370.00 | 5411 | 13×160 | | | | 49C 120 M 8 V | | | 20 | |
| 430844 | 681 36 - 1382.00 | 5411 | 13×160 | | | | 49C 320 K 9 V | | | 20 | |

682 Honing stones – rectangle

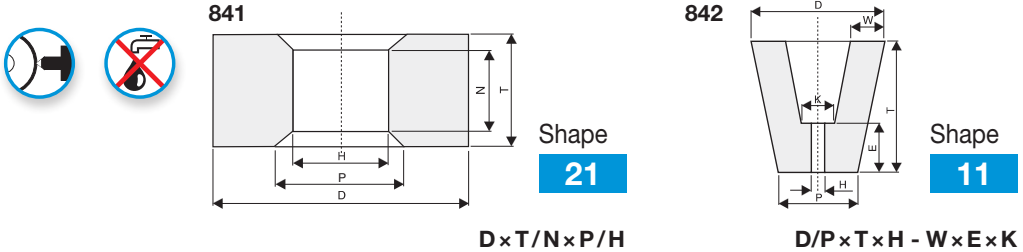
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|-----------------------|----------------|----------------|------|----------|-----------|--|-------------------|----------|-----|--|
| Application | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | $B \times C \times L$ | | | | | | <i>white aluminium oxide, vitrified bond</i> | | | | |
| 430902 | 682 51 - 1011.80 | 5410 | 10×6×100 | | | | 99A 220 K 9 V | | | 20 | |

841 – Dressing wheels for device PERPLEX

842 – Dressing wheels for device DIABOLO

843 – Dressing stones – round

844 – Dressing stones – square



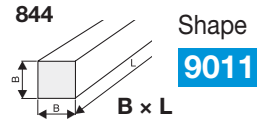
| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

841 Dressing wheels for device PERPLEX

| | | | | | | | | | | |
|-------------|-----------------|----------------|-------------------------------|------|----------|-----------|-------|-------------------|----------|--|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | | | | | | | | | | |
| | | | $D \times T / N \times P / H$ | | | | | | | <i>black silicon carbide, vitrified bond</i> |

842 Dressing wheels for device DIABOLO

| | | | | | | | | | | |
|-------------|------------------|----------------|---|------|----------|-----------|--------------|-------------------|----------|--|
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| Application | | | | | | | | | | |
| | | | $D / P \times T \times H - W \times E \times K$ | | | | | | | <i>black silicon carbide, vitrified bond</i> |
| 436593 | 842 31 - 5010.00 | 11 | 50/44x57x8 - 11,5x8x23 | | | | 48C 36 P 4 V | | | 5 |
| 436597 | 842 31 - 6510.00 | 11 | 65/42x45x8 - 18,5x13x22 | | | | 48C 36 P 4 V | | | 5 |



| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-----------|---------------|---------------------|
|-------------|---------------|-------|-----------|---------------|---------------------|

843 Dressing stones – round

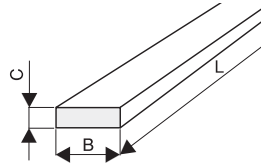
| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|--|----------|-----------|--------------|-------------------|----------|-----|----|
| Application | | | | | | | | | | | |
| | | | B × L | <i>black silicon carbide, vitrified bond</i> | | | | | | | |
| 437143 | 843 31 - 1515.00 | 9030 | 15×56 | | | | 48C 36 P 4 V | | | | 20 |

844 Dressing stones – square

| Material | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
|---------------|------------------|----------------|----------------|--|----------|-----------|--------------|-------------------|----------|-----|----|
| Application | | | | | | | | | | | |
| | | | B × L | <i>black silicon carbide, vitrified bond</i> | | | | | | | |
| 437144 | 844 31 - 3010.00 | 9011 | 30×300 | | | | 48C 14 P 4 V | | | | 10 |
| 437146 | 844 31 - 5010.00 | 9011 | 50×200 | | | | 48C 14 P 4 V | | | | 10 |



847 – Dressing stones for diamond wheels

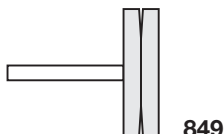


Shape **90AS**

B × C × L

| Item number | Internal code | Shape | Dimension | Specification | | | | | | Min. order quantity |
|--------------------|------------------|----------------|------------------|--|----------|-----------|-------|-------------------|----------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | | | | | | | |
| | | | B × C × L | white aluminium oxide, vitrified bond | | | | | | |
| 437228 | 847 51 - 0214.94 | 90AS | 13×25×100 | | | | | | | |
| 437229 | 847 51 - 0218.94 | 90AS | 25×13×100 | | | | | | | |
| 437232 | 847 51 - 0225.94 | 90AS | 25×13×100 | | | | | | | |
| 437233 | 847 51 - 0235.94 | 90AS | 25×13×150 | | | | | | | |
| 437235 | 847 51 - 0240.94 | 90AS | 25×13×150 | | | | | | | |
| 437241 | 847 51 - 0250.94 | 90AS | 25×13×150 | | | | | | | |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC |
| <i>Application</i> | | | | | | | | | | |
| | | | B × C × L | brown aluminium oxide, rubber bond | | | | | | |
| 438141 | 847 73 - 0305.00 | 90AS | 20×35×150 | | | | | | | |

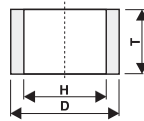
849 – Knives, scissors sharpener – fixing in drill power machine



| Item number | Internal code | Shape | | | | Dimension | | | | Specification | Min. order quantity |
|--------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | D/J/K × T/E × H | | | | white aluminium oxide colored blue, vitrified bond | | | | | |
| 437259 | 849 51 - 0590.88 | 57/29/24×8/6×7 | | | | HEXAGON SHAFT | 99A | 100L 9 V 40 | 1 | | |
| <i>Material</i> | steel (grade11) | steel (<55HRC) | steel (<67HRC) | INOX | carbides | cast iron | stone | nonferrous metals | titanium | PVC | |
| <i>Application</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | D/J/K × T/E × H | | | | brown aluminium oxide, vitrified bond | | | | | |
| 437267 | 849 71 - 0590.00 | 57/29/24×8/6×7 | | | | HEXAGON SHAFT | 96A | 100L 9 V 40 | 1 | | |



Reducing rings



Shape **100RR**
 $D \times T \times H$

| Item number | Internal code | Shape | Dimension | Specification | Min. order quantity |
|-------------|---------------|-------|-------------|---------------|---------------------|
| 76648 | | 100RR | 20x6x12 | | 1 |
| 76618 | | 100RR | 20x6x13 | | 1 |
| 76628 | | 100RR | 20x6x16 | | 1 |
| 79292 | | 100RR | 20x10x6 | | 1 |
| 84850 | | 100RR | 25x6x16 | | 1 |
| 76254 | | 100RR | 25,4x6x20 | | 1 |
| 261732 | | 100RR | 32x6x12 | | 1 |
| 89158 | | 100RR | 32x6x16 | | 1 |
| 822766 | | 100RR | 32x6x20 | | 1 |
| 822767 | | 100RR | 32x6x25 | | 1 |
| 822769 | | 100RR | 32x6x30 | | 1 |
| 111434 | | 100RR | 32x19x16 | | 1 |
| 76253 | | 100RR | 32x25,4x6 | | 1 |
| 911408 | | 100RR | 51x9x32 | | 1 |
| 638253 | | 100RR | 51x9x35 | | 1 |
| 667841 | | 100RR | 51x10x31,75 | | 1 |
| 109381 | | 100RR | 51x9x40 | | 1 |
| 111436 | | 100RR | 76x9x40 | | 1 |

Reducing rings with unlisted dimensions can be provided on request.

Application pictograms



surface grinding



floorstand grinder



external cylindrical grinding



dressing and sharpening



internal cylindrical grinding



wet



profile surface grinding



dry



cutting



wet/dry



saw sharpening



hand held grinding



tool sharpening



off-hand grinding

Pictograms



Use ear protection



Pay attention to the safety recommendations



Use dust mask



Use gloves



Use eye and face protection



Not permitted for side grinding

Working speed

Working speed is stated on the attached labels or directly marked on wheel (revolutions). The wheel can be marked with colour stripe:

| Maximum working speed | Colour of stripe |
|-----------------------------|------------------|
| up to 40 m.s ⁻¹ | without stripe |
| up to 50 m.s ⁻¹ | blue |
| up to 63 m.s ⁻¹ | yellow |
| up to 80 m.s ⁻¹ | red |
| up to 100 m.s ⁻¹ | green |
| up to 125 m.s ⁻¹ | blue + yellow |
| up to 160 m.s ⁻¹ | green + blue |

Speed conversion table

| Diameter in mm | Peripheral speed (m.s ⁻¹) | | | | | | | | | | | | | |
|-------------------|---|-------|-------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 80 | 100 |
| | Revolutions per minute (min ⁻¹) | | | | | | | | | | | | | |
| 4 | 23870 | 47740 | 71610 | 95490 | 119360 | 134230 | 167110 | | | | | | | |
| 5 | 19090 | 38190 | 57290 | 76390 | 95490 | 114590 | 133690 | | | | | | | |
| 6 | 15900 | 31830 | 47740 | 63660 | 79570 | 95490 | 111400 | | | | | | | |
| 8 | 11930 | 23870 | 35800 | 47740 | 59680 | 71610 | 83550 | 95490 | | | | | | |
| 10 | 9540 | 19090 | 28640 | 38190 | 47740 | 57290 | 66840 | 76390 | 85940 | | | | | |
| 13 | 7340 | 14690 | 22030 | 29380 | 36720 | 44070 | 51410 | 58760 | 66110 | 73450 | 80800 | 88140 | | |
| 16 | 5960 | 11930 | 17900 | 23870 | 29840 | 35800 | 41770 | 47740 | 53710 | 59680 | 65650 | 71610 | 95490 | |
| 20 | 4770 | 9540 | 14320 | 19090 | 23870 | 28640 | 33420 | 38190 | 42970 | 47740 | 52520 | 57290 | 76390 | |
| 25 | 3810 | 7630 | 11450 | 15270 | 19090 | 22910 | 26730 | 30550 | 34370 | 38190 | 42010 | 45830 | 61110 | |
| 32 | 2980 | 5960 | 8950 | 11930 | 14920 | 17900 | 20880 | 23870 | 26850 | 29840 | 32820 | 35800 | 47740 | |
| 40 | 2380 | 4770 | 7160 | 9540 | 11930 | 14320 | 16710 | 19090 | 21480 | 23870 | 26260 | 28640 | 38190 | |
| 50 | 1900 | 3810 | 5720 | 7630 | 9540 | 11450 | 13360 | 15270 | 17180 | 19090 | 21000 | 22910 | 30550 | 38190 |
| 63 | 1510 | 3030 | 4540 | 6060 | 7570 | 9090 | 10610 | 12120 | 13640 | 15150 | 16670 | 18180 | 24250 | 30310 |
| 80 | 1190 | 2380 | 3580 | 4770 | 5960 | 7160 | 8350 | 9540 | 10740 | 11930 | 13130 | 14320 | 19090 | 23870 |
| 100 | 950 | 1900 | 2860 | 3810 | 4770 | 5720 | 6680 | 7630 | 8590 | 9540 | 10500 | 11450 | 15270 | 19090 |
| 115 | 830 | 1660 | 2490 | 3320 | 4150 | 4980 | 5810 | 6640 | 7470 | 8300 | 9130 | 9960 | 13280 | 16600 |
| 125 | 760 | 1520 | 2290 | 3050 | 3810 | 4580 | 5340 | 6110 | 6870 | 7630 | 8400 | 9160 | 12220 | 15270 |
| 150 | 630 | 1270 | 1900 | 2540 | 3180 | 3810 | 4450 | 5090 | 5720 | 6360 | 7000 | 7630 | 10180 | 12730 |
| 160 | 590 | 1190 | 1790 | 2380 | 2980 | 3580 | 4170 | 4770 | 5370 | 5960 | 6560 | 7160 | 9540 | 11930 |
| 175 | 540 | 1090 | 1630 | 2180 | 2720 | 3270 | 3810 | 4360 | 4910 | 5450 | 6000 | 6540 | 8730 | 10910 |
| 180 | 530 | 1060 | 1590 | 2120 | 2650 | 3180 | 3710 | 4240 | 4770 | 5300 | 5830 | 6360 | 8480 | 10610 |
| 200 | 470 | 950 | 1430 | 1900 | 2380 | 2860 | 3340 | 3810 | 4290 | 4770 | 5250 | 5720 | 7630 | 9540 |
| 230 | 415 | 830 | 1240 | 1660 | 2070 | 2490 | 2900 | 3320 | 3730 | 4150 | 4560 | 4980 | 6640 | 8300 |
| 250 | 380 | 760 | 1140 | 1520 | 1900 | 2290 | 2670 | 3050 | 3430 | 3810 | 4200 | 4580 | 6110 | 7630 |
| 300 | 310 | 630 | 950 | 1270 | 1590 | 1900 | 2220 | 2540 | 2860 | 3180 | 3500 | 3810 | 5090 | 6360 |
| 315 | 300 | 600 | 900 | 1210 | 1510 | 1810 | 2120 | 2420 | 2720 | 3030 | 3330 | 3630 | 4850 | 6060 |
| 350 | 270 | 540 | 810 | 1090 | 1360 | 1630 | 1900 | 2180 | 2450 | 2720 | 3000 | 3270 | 4360 | 5450 |
| 400 | 230 | 470 | 710 | 950 | 1190 | 1430 | 1670 | 1900 | 2140 | 2380 | 2620 | 2860 | 3810 | 4770 |
| 450 | 210 | 420 | 630 | 840 | 1060 | 1270 | 1480 | 1690 | 1900 | 2120 | 2330 | 2540 | 3390 | 4240 |
| 500 | 190 | 380 | 570 | 760 | 950 | 1140 | 1330 | 1520 | 1710 | 1900 | 2100 | 2290 | 3050 | 3810 |
| 600 | 155 | 310 | 470 | 630 | 790 | 950 | 1110 | 1270 | 1430 | 1590 | 1750 | 1900 | 2540 | 3180 |
| 630 | 150 | 300 | 450 | 600 | 750 | 900 | 1060 | 1210 | 1360 | 1510 | 1660 | 1810 | 2420 | 3030 |
| 750 | 125 | 250 | 380 | 500 | 630 | 760 | 890 | 1010 | 1140 | 1270 | 1400 | 1520 | 2030 | 2540 |
| 800 | 115 | 235 | 355 | 470 | 590 | 710 | 830 | 950 | 1070 | 1190 | 1310 | 1430 | 1900 | 2380 |
| 900 | 106 | 212 | 318 | 420 | 530 | 630 | 740 | 840 | 950 | 1060 | 1160 | 1270 | 1690 | 2120 |
| 1000 | 95 | 190 | 285 | 380 | 470 | 570 | 660 | 760 | 850 | 950 | 1050 | 1140 | 1520 | 1900 |
| 1120 | 85 | 170 | 255 | 340 | 420 | 510 | 590 | 682 | 760 | 852 | 930 | 1020 | 1360 | 1700 |
| 1250 | 76 | 172 | 225 | 305 | 380 | 450 | 530 | 610 | 680 | 760 | 840 | 910 | 1220 | 1520 |
| 1400 | 68 | 136 | 200 | 270 | 340 | 400 | 470 | 540 | 610 | 680 | 750 | 810 | 1090 | 1360 |
| 1600 | 59 | 119 | 178 | 235 | 295 | 355 | 410 | 470 | 530 | 590 | 650 | 710 | 950 | 1190 |

Basic dimensions of grain

Grinding grain

Grain size in micrometers (μm)

| Marking according ČSN 22 4012/93 (FEPA 42-D84) | Specific size of the main grain | |
|--|------------------------------------|------|
| | from | to |
| F 8 | 2800 | 2360 |
| F 10 | 2360 | 2000 |
| F 12 | 2000 | 1700 |
| F 14 | 1700 | 1400 |
| F 16 | 1400 | 1180 |
| F 20 | 1180 | 1000 |
| F 22 | 1000 | 850 |
| F 24 | 850 | 710 |
| F 30 | 710 | 600 |
| F 36 | 600 | 500 |
| F 40 | 500 | 425 |
| F 46 | 425 | 355 |
| F 54 | 355 | 300 |
| F 60 | 300 | 250 |
| F 70 | 250 | 212 |
| F 80 | 212 | 180 |
| F 90 | 180 | 150 |
| F 100 | 150 | 125 |
| F 120 | 125 | 106 |
| F 150 | 106 | 90 |
| F 180 | 90 | 75 |
| F 220 | 75 | 63 |

Micro grain

Grain size in micrometers (μm)

| Marking according PN 22 4012.4 (FEPA 42-D84) | Former marking according to | |
|--|--------------------------------|----------------|
| | ds50 | ČSN 22402/1973 |
| F 230 | 53 | 5 |
| F 240 | 44,5 | 4 |
| F 280 | 36,5 | 3 |
| F 320 | 29,2 | M 32 |
| F 360 | 22,8 | M 32 |
| F 400 | 17,3 | M 22 |
| F 500 | 12,8 | M 15 |
| F 600 | 9,3 | M 10 |
| F 800 | 6,5 | M 7 |
| F 1000 | 4,5 | M 5 |
| F 1200 | 3,0 | M 3 |

Note: ds50 – average size of a grain main fraction (theoretical gran diameter) presents the 50 % point of the sedimentation curve of the evaluated grains.

Some principles for grinding

- for bigger material removal use coarser grit,
- for harder material use softer wheel,
- grinding of materials with a tendency to smear (copper, brass, aluminium and like) are selected grinding wheel with coarse grain size
- the larger the contact area (Liason arc multiplied by the width of the wheel) between the grinding wheel and the workpiece, the coarser the grain size is chosen and the lower hardness of the grinding wheel
- for material sensitive to temperature changes is chosen softer grinding wheel,
- for intermittent grinding surfaces are selected wheel harder,
- for grinding of the workpiece face of the wheel face is usually selected wheel softer than for grinding wheel circumference

The ten most important rules for grinders

1. Working speed must not exceed the permissible value. For pedestal grinders which are differently sized wheels, number of revolutions is governed by a larger diameter.
2. For clamping of grinding wheels use only the prescribed flanges and pads. Both flanges must have the same diameter.
3. Before clamping grinding wheel must be carefully inspected for cracked. Clear sound when lightly tapped is proof, that the grinding wheel has been damaged in transit. This applies especially for ceramic grinding wheels.
4. Grinding wheel must be mounted freely on the shaft.
5. Nuts or bolts of flanges should be tightened evenly without violence.
6. Grinding machines must be fitted with a protective cover, pedestal grinders also adjustable supports.
7. The clearance between rest and grinding wheel must exceed a half-width of grinding wheel, but no more than 3 mm.
8. It is essential the newly clamped wheel to test at idle operating speed for at least 1 min., with closed protective cover and in an enclosed space. During this test the operator must stay out of the track of the disc.
9. Grinding wheel is permitted dressing only by specially designated dressing tool.
10. When grinding and dressing grinding wheel it is necessary to use protective equipment.

Defects by grinding and their reasons

| Defect | Reason |
|--|--|
| Grinding wheel is clogging and burning | Grinding wheel is too hard Grit of wheel is too fine Speed is too high Grinding wheel is badly dressing |
| Grinding wheel wears down to quickly | Grinding wheel is soft |
| Grinding wheel moving a few | Grinding wheel is too hard Grit is too fine |
| Grinding wheel not adhered profile | Grinding wheel is too soft Grit is too rough Number of revolutions is too minor |
| Chatter marks on ground surface | Grinding machine does not work calmly Imbalance in large wheels Bearing spindle of grinding machine is wrong Grinding wheel is not correctly balanced Grinding wheel is too hard |
| Tick marks on the ground surface | Dirt in coolant |
| Spots on the ground surface | Grinding wheel is too hard or too fine Feed is too great Speed of workpiece is too minor Coolant not suitable |
| Grinding wheel beats | Incorrect imposition of grinding machine Grinding wheel is badly dressed |

Common errors when dressing

If the dressing tool is driven over the ($a_e = 0$) grinding wheel without infeed, the wheel becomes blunt and clogs. This results in a greater risk of overheating when grinding.

If the free clamping length of dresser is too large. Vibrations arise and the grinding wheel surface becomes irregular. This face is reproduced on the workpiece in the subsequent grinding process.

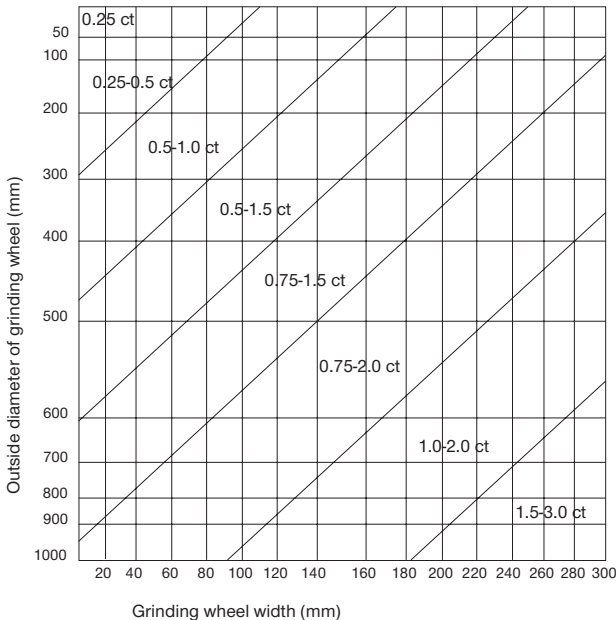
When the dressing infeed selected ($a_e > 0,03$) is too high. This causes a fracture in the bond bridges in the grinding wheel and the grains to come out too soon. This results in a poorer workpiece surface due to formations of comma-shaped scratches.

The cooling system is not switched on in time. As a result of the thermal overload, the diamond is destroyed because of quenching or because temperatures are too high. Remedy: The cooling system should be switched on before the grinding wheel first comes into contact with the dresser.

The cooling system is switched off too soon after dressing. The grain and bond residue that has come out through dressing cannot be sufficiently removed (rinsed out). This can lead, amongst other things, to the formation of comma-shaped scratches on the workpiece surface.

The single-grain diamond is ground down too much, meaning that implementation of the diamonds is no longer possible.

Diamond size (carat) in relations to grinding wheel dimensions



Interrelationship: surface roughness/grit size

The table below will help you select the right grit size to achieve the surface roughness result required. Variable process parameters (e.g. the dressing method) have a significant effect as to which surface roughness can be achieved with a grit size. Therefore, the table below also lists the surface areas/grit size.

You should take into account that large grit sizes remove slivers (material) more simply. It is not necessary to select the finest for each initial selection of the grit size.

| Interrelationship: surface roughness/grit size | | | | | | | | | | |
|--|-------|-----------|----|----|----|-----|-----|-----|-----|-----|
| Surface | | Grit size | | | | | | | | |
| micro inch CLA | µm Ra | 36 | 46 | 60 | 80 | 100 | 120 | 150 | 180 | 220 |
| 42 | 1,1 | * | | | | | | | | |
| 32 | 0,8 | * | * | | | | | | | |
| 26 | 0,7 | | * | | | | | | | |
| 21 | 0,5 | | * | * | | | | | | |
| 16 | 0,4 | | | * | | | | | | |
| 14 | 0,35 | | | * | * | | | | | |
| 11 | 0,25 | | | | * | | | | | |
| 8 | 0,2 | | | | * | * | | | | |
| 7 | 0,17 | | | | | * | | | | |
| 6 | 0,14 | | | | | * | * | | | |
| 5 | 0,12 | | | | | | * | * | | |
| 4 | 0,1 | | | | | | | * | * | |
| 3 | 0,08 | | | | | | | | * | * |
| 2 | 0,05 | | | | | | | | | * |

Interrelationship: profile radius/grit size

The table below provides an overview of which grit size can achieve a minimum profile radius. As a standard value, it can be assumed that three abrasive grains are required to maintain a minimum profile radius. To achieve a profile radius of 0,3 mm, an approximate grit size diameter of 0,1 mm is required.

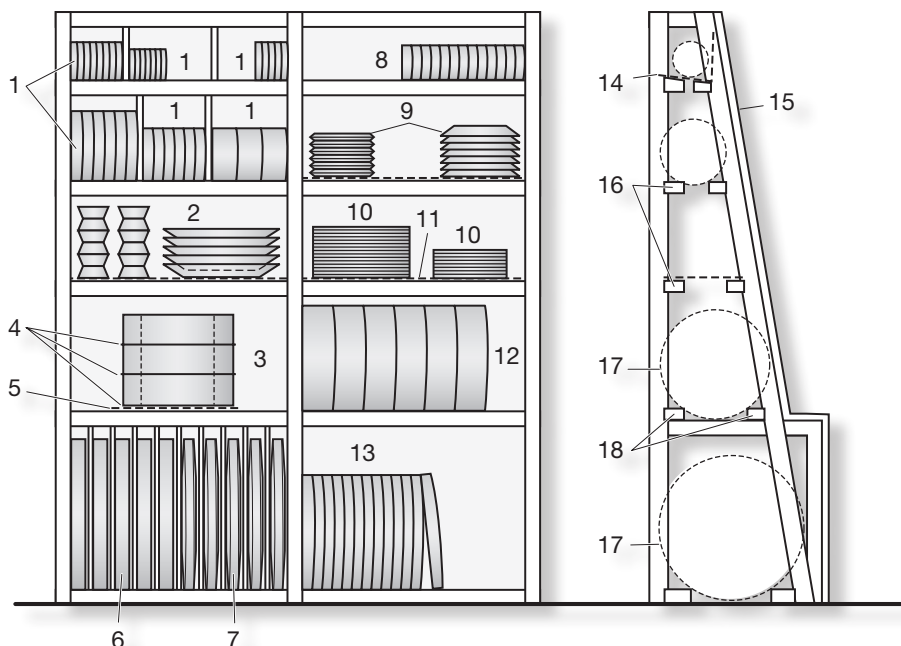
| Interrelationship: profile radius/grit size | | | | | | | | | | |
|---|------|------|------|------|------|-----|------|------|------|------|
| Grit size | | 36 | 46 | 60 | 80 | 100 | 120 | 150 | 180 | 220 |
| Min. profile radius | mm | 1 | 0,8 | 0,6 | 0,45 | 0,3 | 0,2 | 0,15 | 0,12 | 0,1 |
| | inch | 0,04 | 0,03 | 0,03 | 0,02 | 0,1 | 0,01 | 0,01 | 0,01 | 0,00 |

Storage

The wheels are stored in dry place, if is possible with consistent temperature. It is necessary that the wheels were protected against hit, moisture and frost.

Before putting the wheel on machine it is necessary proceed according to regulations ČSN.

Details of storage you can find in ČSN EN 12413 „Grinding and cutting wheels – Technical regulations“.



- 1 – straight wheels
- 2 – dish wheels
- 3 – soft rings wheels
- 4 – paper
- 5 – steel plate
- 6 – big straight wheels
- 7 – big conical wheels

- 8 – smal cup wheels and rings
- 9 – profile wheels
- 10 – cut off wheels
- 11 – steel plate
- 12 – hard rings wheels
- 13 – middle size straight wheels
- 14 – covered back side for safety of the wheels
- 15 – conical device for small wheels
- 16 – straight device for cut off wheels
- 17 – outside part of the wheel can't be over
- 18 – two supports for stability

Products index

| Item no. | page | Item no. | page | Item no. | page | Item no. | page | Item no. | page |
|----------|------|----------|------|----------|------|----------|------|----------|------|
| 76253 | 82 | 413404 | 14 | 413875 | 15 | 414333 | 21 | 416321 | 27 |
| 76254 | 82 | 413405 | 14 | 413876 | 15 | 414355 | 21 | 416362 | 27 |
| 76618 | 82 | 413413 | 14 | 413888 | 15 | 414486 | 22 | 416366 | 27 |
| 76628 | 82 | 413425 | 14 | 413890 | 15 | 414496 | 22 | 416368 | 27 |
| 76648 | 82 | 413426 | 14 | 413895 | 15 | 414522 | 22 | 416390 | 27 |
| 79292 | 82 | 413444 | 14 | 413937 | 15 | 414559 | 22 | 416394 | 27 |
| 84850 | 82 | 413448 | 14 | 413940 | 15 | 414622 | 22 | 416419 | 27 |
| 89158 | 82 | 413450 | 14 | 413983 | 15 | 414652 | 22 | 416553 | 28 |
| 109381 | 82 | 413461 | 14 | 413991 | 15 | 414701 | 22 | 416558 | 28 |
| 111434 | 82 | 413463 | 14 | 413996 | 15 | 414720 | 22 | 416573 | 28 |
| 111436 | 82 | 413469 | 14 | 414003 | 15 | 414828 | 22 | 416589 | 28 |
| 196635 | 31 | 413473 | 14 | 414008 | 15 | 414848 | 22 | 416592 | 28 |
| 261732 | 82 | 413485 | 14 | 414014 | 15 | 415342 | 25 | 416593 | 28 |
| 360276 | 29 | 413490 | 14 | 414047 | 16 | 415364 | 23 | 416601 | 28 |
| 360313 | 32 | 413492 | 14 | 414058 | 16 | 415405 | 23 | 416657 | 28 |
| 360361 | 31 | 413509 | 14 | 414061 | 16 | 415435 | 23 | 416688 | 28 |
| 360390 | 31 | 413510 | 14 | 414062 | 16 | 415437 | 23 | 416690 | 28 |
| 360431 | 23 | 413514 | 14 | 414064 | 16 | 415439 | 23 | 416693 | 28 |
| 360521 | 38 | 413522 | 14 | 414074 | 16 | 415462 | 23 | 416697 | 28 |
| 360633 | 14 | 413524 | 14 | 414076 | 16 | 415466 | 23 | 416723 | 28 |
| 386844 | 70 | 413529 | 14 | 414085 | 16 | 415485 | 25 | 416745 | 28 |
| 413126 | 68 | 413539 | 14 | 414128 | 17 | 415491 | 23 | 416750 | 28 |
| 413145 | 23 | 413541 | 14 | 414130 | 17 | 415517 | 23 | 416752 | 28 |
| 413259 | 13 | 413549 | 14 | 414131 | 17 | 415544 | 23 | 416760 | 28 |
| 413264 | 13 | 413557 | 15 | 414144 | 17 | 415712 | 26 | 416796 | 28 |
| 413272 | 13 | 413573 | 15 | 414145 | 17 | 415715 | 26 | 416814 | 28 |
| 413275 | 13 | 413595 | 15 | 414151 | 17 | 415784 | 26 | 416820 | 28 |
| 413281 | 13 | 413611 | 15 | 414159 | 17 | 415850 | 26 | 416826 | 28 |
| 413282 | 13 | 413615 | 15 | 414161 | 17 | 415857 | 26 | 416829 | 28 |
| 413314 | 13 | 413618 | 15 | 414163 | 17 | 415879 | 26 | 416831 | 28 |
| 413331 | 14 | 413644 | 15 | 414165 | 17 | 415881 | 26 | 416832 | 28 |
| 413332 | 14 | 413652 | 15 | 414168 | 17 | 415882 | 26 | 416834 | 28 |
| 413333 | 14 | 413677 | 15 | 414217 | 17 | 415900 | 26 | 416837 | 28 |
| 413336 | 14 | 413682 | 15 | 414232 | 17 | 415953 | 26 | 416848 | 28 |
| 413342 | 14 | 413687 | 15 | 414242 | 17 | 415958 | 26 | 416852 | 28 |
| 413345 | 14 | 413693 | 15 | 414244 | 17 | 415992 | 26 | 416858 | 28 |
| 413355 | 14 | 413732 | 15 | 414248 | 17 | 415996 | 26 | 417125 | 29 |
| 413359 | 14 | 413735 | 15 | 414263 | 21 | 416100 | 26 | 417158 | 29 |
| 413360 | 14 | 413784 | 15 | 414280 | 21 | 416191 | 27 | 417160 | 29 |
| 413364 | 14 | 413787 | 15 | 414284 | 21 | 416226 | 27 | 417195 | 29 |
| 413374 | 14 | 413791 | 15 | 414286 | 21 | 416245 | 27 | 417196 | 29 |
| 413375 | 14 | 413841 | 15 | 414289 | 21 | 416256 | 27 | 417198 | 29 |
| 413377 | 14 | 413844 | 15 | 414294 | 21 | 416270 | 27 | 417209 | 29 |
| 413381 | 14 | 413849 | 15 | 414295 | 21 | 416304 | 27 | 417211 | 29 |
| 413391 | 14 | 413850 | 15 | 414296 | 21 | 416319 | 27 | 417226 | 29 |
| 413399 | 14 | 413852 | 15 | 414300 | 21 | 416320 | 27 | 417321 | 29 |

| Item no. | page | Item no. | page | Item no. | page | Item no. | page | Item no. | page |
|----------|------|----------|------|----------|------|----------|------|----------|--------|
| 417326 | 29 | 418471 | 31 | 420046 | 34 | 421185 | 36 | 422901 | 39 |
| 417438 | 29 | 418473 | 31 | 420048 | 34 | 421188 | 36 | 422909 | 39 |
| 417489 | 29 | 418491 | 31 | 420074 | 34 | 421213 | 36 | 422926 | 39 |
| 417491 | 29 | 418511 | 31 | 420086 | 34 | 421356 | 36 | 422927 | 39 |
| 417492 | 29 | 418595 | 31 | 420093 | 34 | 421423 | 37 | 422934 | 39 |
| 417499 | 29 | 418606 | 31 | 420160 | 34 | 421424 | 37 | 422937 | 39 |
| 417530 | 29 | 418608 | 31 | 420163 | 34 | 421429 | 37 | 422983 | 39 |
| 417543 | 29 | 418619 | 31 | 420168 | 34 | 421472 | 37 | 423008 | 39 |
| 417767 | 30 | 418621 | 31 | 420174 | 34 | 421536 | 37 | 423126 | 39 |
| 417779 | 30 | 418624 | 31 | 420175 | 35 | 421555 | 37 | 423229 | 39 |
| 417807 | 30 | 418634 | 31 | 420354 | 35 | 421585 | 37 | 423254 | 39 |
| 417818 | 30 | 418635 | 31 | 420372 | 35 | 421590 | 37 | 423358 | 40 |
| 417819 | 30 | 418639 | 32 | 420402 | 35 | 421601 | 37 | 423438 | 40 |
| 417820 | 30 | 418679 | 32 | 420456 | 35 | 421724 | 37 | 423587 | 40 |
| 417822 | 30 | 418694 | 32 | 420460 | 35 | 421743 | 37 | 423623 | 40 |
| 417825 | 30 | 418696 | 32 | 420469 | 35 | 421824 | 37 | 423665 | 40, 46 |
| 417850 | 30 | 418706 | 32 | 420494 | 35 | 422022 | 38 | 423673 | 40, 46 |
| 417856 | 30 | 418708 | 32 | 420514 | 35 | 422038 | 38 | 423724 | 40 |
| 417860 | 30 | 418754 | 32 | 420522 | 35 | 422044 | 38 | 423745 | 40 |
| 417872 | 30 | 418880 | 32 | 420524 | 35 | 422099 | 38 | 423825 | 40 |
| 417985 | 30 | 418900 | 32 | 420527 | 35 | 422136 | 38 | 423852 | 40 |
| 417987 | 30 | 418906 | 32 | 420529 | 35 | 422141 | 38 | 424197 | 41 |
| 417988 | 30 | 418909 | 32 | 420535 | 35 | 422217 | 38 | 424231 | 41 |
| 418008 | 30 | 418917 | 32 | 420589 | 35 | 422300 | 38 | 424234 | 41 |
| 418042 | 30 | 419058 | 32 | 420591 | 35 | 422338 | 38 | 424314 | 41 |
| 418062 | 30 | 419059 | 32 | 420603 | 35 | 422409 | 38 | 424409 | 41 |
| 418070 | 30 | 419086 | 32 | 420605 | 35 | 422411 | 38 | 424981 | 43 |
| 418077 | 30 | 419097 | 32 | 420609 | 35 | 422429 | 38 | 425059 | 43 |
| 418083 | 30 | 419104 | 32 | 420610 | 35 | 422439 | 38 | 425075 | 43 |
| 418090 | 31 | 419117 | 32 | 420614 | 35 | 422441 | 38 | 425078 | 43 |
| 418094 | 31 | 419125 | 32 | 420752 | 35 | 422448 | 38 | 425267 | 43 |
| 418096 | 31 | 419132 | 32 | 420796 | 35 | 422453 | 38 | 425670 | 45 |
| 418101 | 31 | 419191 | 32 | 420797 | 35 | 422465 | 38 | 425781 | 45 |
| 418281 | 31 | 419198 | 32 | 420799 | 36 | 422468 | 38 | 425804 | 45 |
| 418282 | 31 | 419286 | 32 | 420805 | 36 | 422472 | 38 | 425809 | 45 |
| 418283 | 31 | 419296 | 32 | 420809 | 36 | 422482 | 39 | 425831 | 45 |
| 418301 | 31 | 419305 | 32 | 420843 | 36 | 422484 | 39 | 425837 | 45 |
| 418307 | 31 | 419337 | 33 | 420855 | 36 | 422606 | 39 | 425839 | 45 |
| 418310 | 31 | 419341 | 33 | 420939 | 36 | 422611 | 39 | 425842 | 45 |
| 418312 | 31 | 419344 | 33 | 421058 | 36 | 422618 | 39 | 425844 | 45 |
| 418313 | 31 | 419356 | 33 | 421080 | 36 | 422657 | 39 | 425854 | 45 |
| 418316 | 31 | 419488 | 33 | 421099 | 36 | 422666 | 39 | 425897 | 45 |
| 418318 | 31 | 419544 | 33 | 421100 | 36 | 422670 | 39 | 425900 | 45 |
| 418321 | 31 | 419552 | 33 | 421135 | 36 | 422675 | 39 | 425904 | 45 |
| 418333 | 31 | 419559 | 33 | 421142 | 36 | 422678 | 39 | 425935 | 45 |
| 418334 | 31 | 419642 | 33 | 421143 | 36 | 422696 | 39 | 426382 | 46 |
| 418339 | 31 | 419739 | 33 | 421145 | 36 | 422702 | 39 | 426856 | 46, 47 |
| 418346 | 31 | 419880 | 34 | 421146 | 36 | 422727 | 39 | 426869 | 46, 47 |
| 418464 | 31 | 420041 | 34 | 421168 | 36 | 422787 | 39 | 426934 | 46, 47 |

| Item no. | page | Item no. | page | Item no. | page | Item no. | page | Item no. | page |
|----------|--------|----------|------|----------|------|----------|------|----------|------|
| 426948 | 46, 47 | 429367 | 62 | 430146 | 67 | 430777 | 75 | 436535 | 20 |
| 426949 | 46, 47 | 429386 | 62 | 430150 | 67 | 430792 | 75 | 436539 | 20 |
| 426976 | 46 | 429389 | 62 | 430152 | 67 | 430826 | 77 | 436548 | 69 |
| 427386 | 47 | 429397 | 62 | 430153 | 67 | 430828 | 77 | 436555 | 70 |
| 427682 | 63 | 429413 | 62 | 430154 | 67 | 430843 | 77 | 436560 | 74 |
| 427695 | 63 | 429432 | 62 | 430155 | 67 | 430844 | 77 | 436562 | 76 |
| 427702 | 63 | 429435 | 62 | 430158 | 67 | 430902 | 77 | 436593 | 78 |
| 427707 | 63 | 429436 | 62 | 430163 | 68 | 435856 | 15 | 436597 | 78 |
| 427708 | 63 | 429443 | 62 | 430166 | 68 | 436136 | 17 | 436735 | 21 |
| 427710 | 63 | 429513 | 62 | 430168 | 68 | 436154 | 18 | 436736 | 21 |
| 427748 | 63 | 429542 | 62 | 430170 | 68 | 436157 | 18 | 436739 | 21 |
| 427750 | 63 | 429690 | 64 | 430171 | 68 | 436159 | 18 | 436740 | 21 |
| 427774 | 63 | 429692 | 64 | 430173 | 68 | 436165 | 18 | 436849 | 57 |
| 427785 | 63 | 429702 | 64 | 430175 | 68 | 436166 | 18 | 436850 | 57 |
| 427806 | 63 | 429708 | 64 | 430183 | 68 | 436167 | 18 | 436851 | 57 |
| 427817 | 50 | 429715 | 64 | 430187 | 68 | 436170 | 18 | 436853 | 57 |
| 427827 | 63 | 429731 | 64 | 430234 | 68 | 436172 | 18 | 436854 | 57 |
| 427830 | 63 | 429734 | 64 | 430235 | 68 | 436173 | 18 | 436855 | 57 |
| 427835 | 63 | 429737 | 64 | 430241 | 68 | 436175 | 18 | 436865 | 57 |
| 427836 | 63 | 429757 | 64 | 430326 | 71 | 436177 | 18 | 436866 | 57 |
| 427846 | 63 | 429759 | 64 | 430428 | 73 | 436180 | 19 | 436867 | 57 |
| 428122 | 50 | 429793 | 64 | 430431 | 73 | 436181 | 19 | 436868 | 57 |
| 428293 | 52 | 429797 | 64 | 430448 | 73 | 436183 | 19 | 436870 | 57 |
| 428319 | 54 | 429847 | 64 | 430451 | 73 | 436185 | 19 | 436871 | 57 |
| 428331 | 54 | 429869 | 64 | 430457 | 73 | 436186 | 19 | 436873 | 58 |
| 428341 | 54 | 429888 | 65 | 430459 | 73 | 436189 | 19 | 436874 | 58 |
| 428350 | 54 | 429892 | 65 | 430461 | 73 | 436210 | 19 | 436875 | 58 |
| 428386 | 54 | 429893 | 65 | 430473 | 74 | 436212 | 19 | 436886 | 58 |
| 428674 | 56 | 429909 | 65 | 430499 | 74 | 436259 | 31 | 436887 | 58 |
| 428688 | 56 | 429910 | 65 | 430527 | 74 | 436261 | 31 | 436890 | 58 |
| 428692 | 56 | 429911 | 65 | 430537 | 74 | 436274 | 39 | 436891 | 58 |
| 428694 | 56 | 429936 | 65 | 430543 | 74 | 436310 | 45 | 436893 | 58 |
| 428730 | 59 | 429937 | 65 | 430545 | 74 | 436343 | 47 | 436902 | 58 |
| 428740 | 59 | 429950 | 65 | 430551 | 74 | 436349 | 47 | 436912 | 58 |
| 428753 | 59 | 429972 | 66 | 430565 | 74 | 436361 | 47 | 436914 | 58 |
| 428755 | 59 | 429986 | 66 | 430575 | 74 | 436406 | 60 | 436940 | 58 |
| 428897 | 61 | 429998 | 66 | 430579 | 74 | 436422 | 69 | 436943 | 58 |
| 429005 | 61 | 430001 | 66 | 430607 | 74 | 436430 | 19 | 436945 | 58 |
| 429032 | 61 | 430011 | 66 | 430614 | 74 | 436432 | 19 | 436950 | 58 |
| 429043 | 61 | 430028 | 66 | 430620 | 74 | 436502 | 20 | 436953 | 58 |
| 429087 | 61 | 430034 | 66 | 430624 | 74 | 436503 | 20 | 436955 | 58 |
| 429188 | 61 | 430054 | 66 | 430627 | 74 | 436505 | 20 | 436960 | 58 |
| 429190 | 61 | 430056 | 66 | 430641 | 75 | 436507 | 20 | 436967 | 58 |
| 429205 | 61 | 430068 | 66 | 430642 | 75 | 436510 | 20 | 436969 | 58 |
| 429239 | 61 | 430131 | 67 | 430652 | 75 | 436512 | 20 | 436970 | 58 |
| 429344 | 62 | 430140 | 67 | 430654 | 75 | 436514 | 20 | 437023 | 57 |
| 429347 | 62 | 430141 | 67 | 430679 | 75 | 436516 | 20 | 437024 | 57 |
| 429362 | 62 | 430144 | 67 | 430746 | 75 | 436519 | 20 | 437027 | 57 |
| 429363 | 62 | 430145 | 67 | 430758 | 75 | 436524 | 20 | 437028 | 57 |

| Item no. | page | Item no. | page | Item no. | page | Item no. | page | Item no. | page |
|----------|------|----------|--------|----------|------|----------|------|----------|------|
| 437034 | 57 | 558586 | 46, 47 | 34162945 | 55 | | | | |
| 437037 | 57 | 583976 | 57 | 34162946 | 55 | | | | |
| 437038 | 57 | 634669 | 29 | 34162962 | 55 | | | | |
| 437042 | 57 | 638253 | 82 | 34162969 | 53 | | | | |
| 437044 | 57 | 667841 | 82 | 34162971 | 53 | | | | |
| 437050 | 57 | 670757 | 35 | 34162973 | 53 | | | | |
| 437053 | 57 | 677353 | 35 | 34162974 | 23 | | | | |
| 437100 | 70 | 744865 | 29 | 34162976 | 23 | | | | |
| 437105 | 70 | 746223 | 46, 47 | 34162977 | 23 | | | | |
| 437111 | 70 | 748086 | 15 | 34162978 | 23 | | | | |
| 437114 | 70 | 748087 | 15 | 34223926 | 37 | | | | |
| 437122 | 74 | 748088 | 15 | 34238532 | 30 | | | | |
| 437131 | 76 | 748092 | 15 | 34242343 | 30 | | | | |
| 437132 | 76 | 748093 | 57 | 34242344 | 34 | | | | |
| 437134 | 76 | 748103 | 39 | 34242346 | 37 | | | | |
| 437143 | 79 | 822766 | 82 | 34242347 | 34 | | | | |
| 437144 | 79 | 822767 | 82 | 34242348 | 31 | | | | |
| 437146 | 79 | 822769 | 82 | 34242350 | 33 | | | | |
| 437228 | 80 | 911408 | 82 | 34242354 | 16 | | | | |
| 437229 | 80 | 34036626 | 35 | 34355077 | 49 | | | | |
| 437232 | 80 | 34064749 | 20 | 34374116 | 49 | | | | |
| 437233 | 80 | 34155230 | 19 | 34374117 | 49 | | | | |
| 437235 | 80 | 34155241 | 15 | 34374617 | 49 | | | | |
| 437241 | 80 | 34155242 | 15 | 34380842 | 49 | | | | |
| 437259 | 81 | 34162611 | 34 | 34380843 | 49 | | | | |
| 437267 | 81 | 34162614 | 34 | 34424106 | 32 | | | | |
| 437451 | 42 | 34162617 | 35 | 34448491 | 29 | | | | |
| 437453 | 42 | 34162622 | 35 | | | | | | |
| 438048 | 18 | 34162626 | 35 | | | | | | |
| 438141 | 80 | 34162627 | 35 | | | | | | |
| 438675 | 14 | 34162629 | 36 | | | | | | |
| 440084 | 19 | 34162634 | 36 | | | | | | |
| 442502 | 48 | 34162642 | 36 | | | | | | |
| 472910 | 35 | 34162647 | 36 | | | | | | |
| 482373 | 26 | 34162654 | 36 | | | | | | |
| 483647 | 35 | 34162655 | 39 | | | | | | |
| 494076 | 60 | 34162656 | 39 | | | | | | |
| 514479 | 13 | 34162657 | 40 | | | | | | |
| 521858 | 58 | 34162659 | 40 | | | | | | |
| 523426 | 72 | 34162661 | 40 | | | | | | |
| 556578 | 30 | 34162662 | 40 | | | | | | |
| 558157 | 34 | 34162663 | 41 | | | | | | |
| 558158 | 34 | 34162665 | 43 | | | | | | |
| 558162 | 35 | 34162666 | 43 | | | | | | |
| 558163 | 35 | 34162667 | 40, 46 | | | | | | |
| 558168 | 34 | 34162669 | 56 | | | | | | |
| 558169 | 34 | 34162933 | 51 | | | | | | |
| 558173 | 35 | 34162935 | 51 | | | | | | |
| 558174 | 35 | 34162941 | 55 | | | | | | |

TYROLIT SCHLEIFMITTELWERKE SWAROVSKI K.G.

Swarovskistraße 33 | 6130 Schwaz | Austria

Tel +43 5242 606-0 | Fax +43 5242 63398

www.tyrolit.cz | www.carborundum.cz

Your sales representative



Find us on social media
TYROLITgroup