

Твердосплавные борфрезы



Монолитные фрезы



Борфрезы

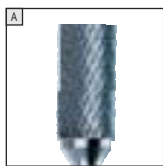


Абразивные инструменты

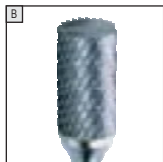
Полный перечень производимого инструмента

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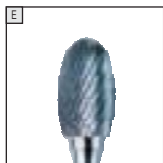
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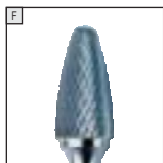
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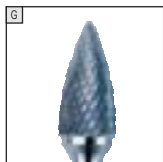
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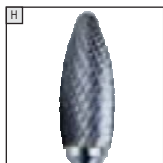
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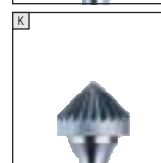
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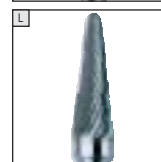
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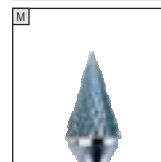
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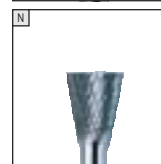
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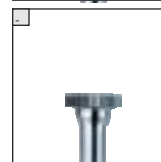
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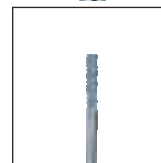
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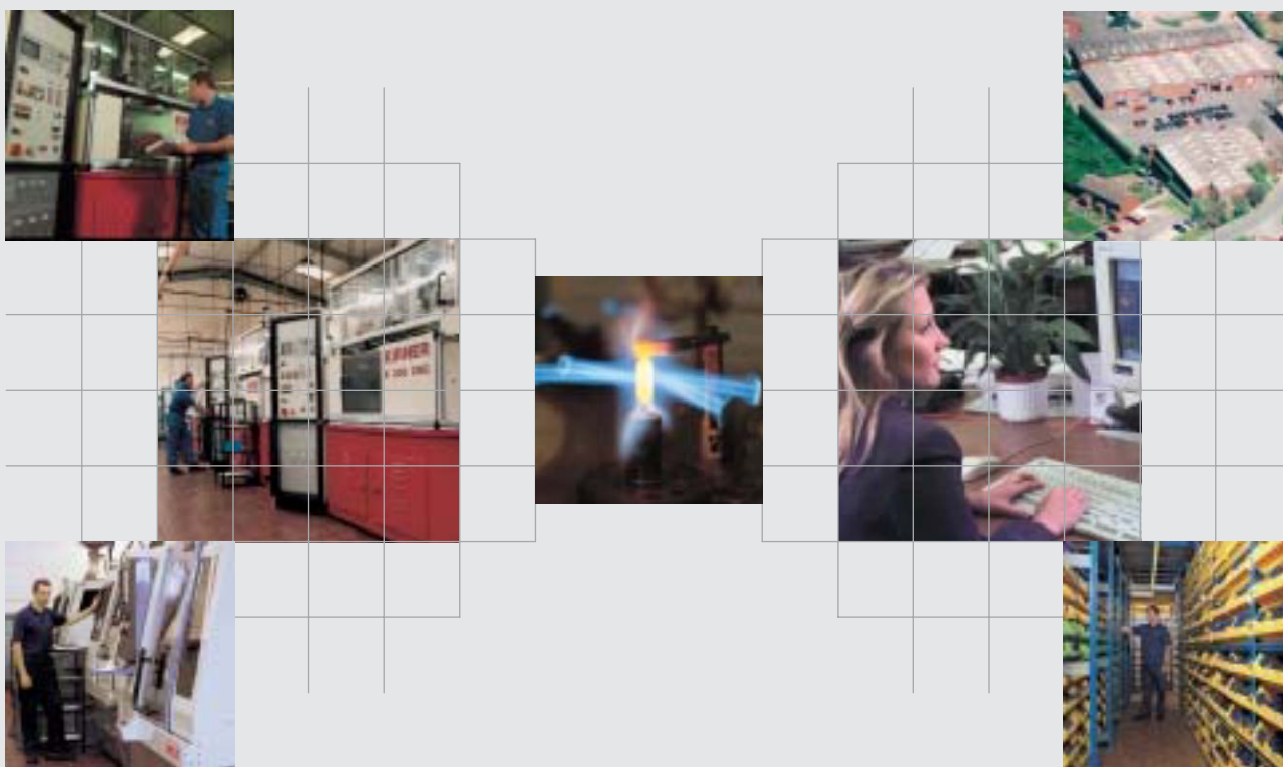
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Введение

Компания ATI Garryson Ltd. является мировым лидером по производству твердосплавных борфрез. Благодаря сочетанию высоких технологий и высококвалифицированного персонала, мы предлагаем Вам решение Ваших производственных задач с достижением экономической эффективности и усилением Ваших конкурентных преимуществ.



Технология

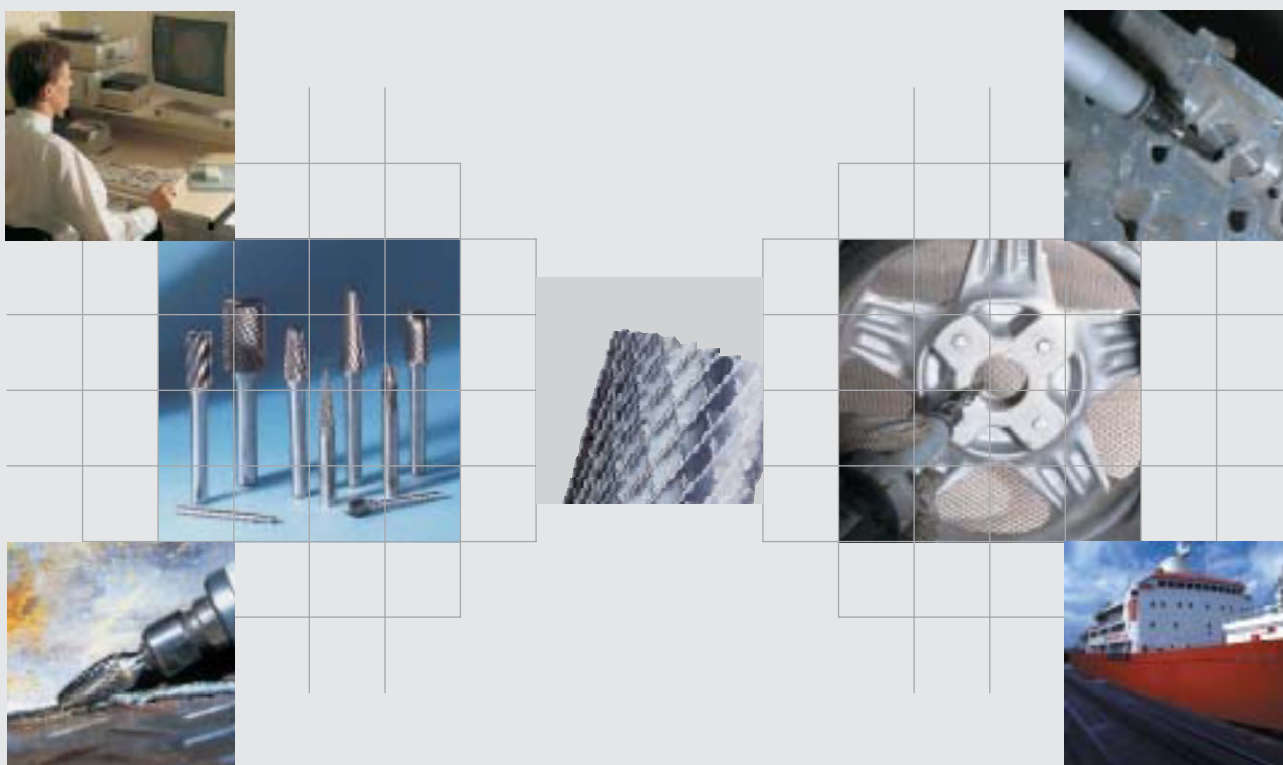
Огромные инвестиции в высококачественное производственное оборудование с ЧПУ для заточки инструмента позволили компании ATI Garryson Ltd. занять лидирующие позиции среди всемирно известных производителей твердосплавных борфрез.

Поддержка

Профессиональный высококвалифицированный персонал, большой склад продукции, скорость поставки позволит Вам обеспечить бесперебойное производство Ваших изделий.

Техническая поддержка







Высококвалифицированные инженеры и менеджеры по работе с клиентами предоставят Вам качественную техническую поддержку, и ответят на любые интересующие Вас вопросы в любое удобное для Вас время.



Рынки

Компания ATI Garryson Ltd. поставляет свою продукцию на территории 40 стран мира, их продукция находит свое применение в таких отраслях промышленности, как: авиационная, автомобильная, кораблестроительная, производство штампов и пресс-форм и многих других.

Области применения

| | Области применения по форме зуба | | | | | |
|-------------------|---|---|---|--|---|---|
| | s | d | d-max новая | c | k новая | alu |
| |  |  |  |  |  |  |
| Сталь | ● | ● | ● | ● | ○ | |
| Закаленная сталь | ○ | ○ | | | ● | |
| Нержавеющая сталь | ● | ● | ○ | ● | ● | |
| Чугуны | ● | ● | ● | ○ | ○ | |
| Титан | ● | ● | ○ | | ○ | |
| Никель | ● | ● | ○ | | ○ | |
| Медные сплавы | ● | ● | ● | ● | ○ | |
| Алюминий | | | | | | ● |
| Пластик | | | | | | ● |
| Кермет | ○ | | | | ● | |

● = рекомендованы к применению ○ = альтернатива

Все борфрезы протестированы на прочность и безопасность работы.









зубья

Борфрезы производятся с торцовыми зубьями для обеспечения высокого качества резания.

Области применения

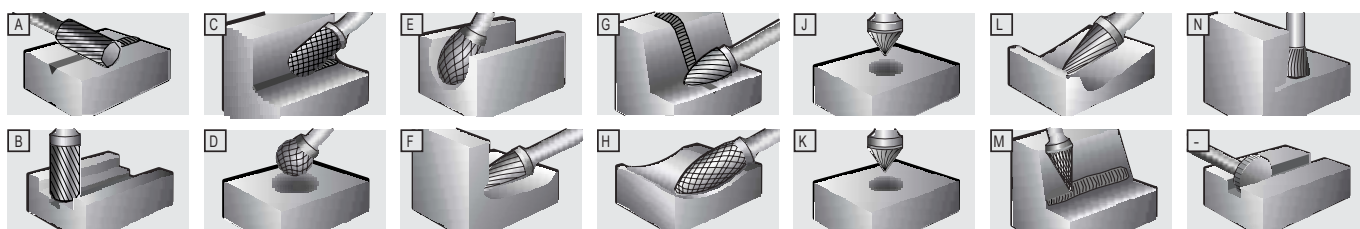
Области применения по форме зуба

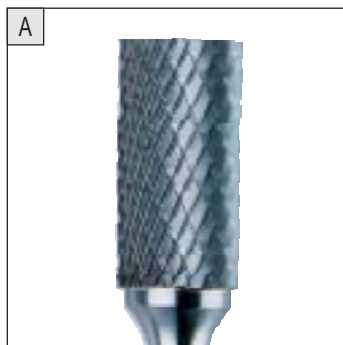
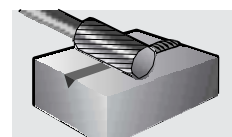
| | | |
|--|-------|--|
|  | s | <ul style="list-style-type: none"> • обычное снятие заусенцев • образует чистую поверхность без рисков • подходит для обработки большинства материалов, содержащих железо |
|  | d | <ul style="list-style-type: none"> • универсальное использование • высокоскоростное и мягкое резание • подходит для обработки большинства материалов, содержащих железо |
|  | d-max | <ul style="list-style-type: none"> • для быстрой обработки • усиленные зубья • подходит для обработки большинства материалов, содержащих железо |
|  | c | <ul style="list-style-type: none"> • обычное снятие заусенцев • обработка высокопрочных сталей |
|  | k | <ul style="list-style-type: none"> • для чистовой обработки • обеспечивает отличное качество поверхности • для обработки закаленных материалов |
|  | alu | <ul style="list-style-type: none"> • для обработки алюминия и пластика • хороший отвод стружки и мягкое резание |

new

Новая продукция

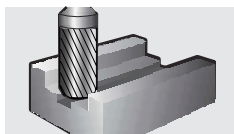
Области применения по форме инструмента





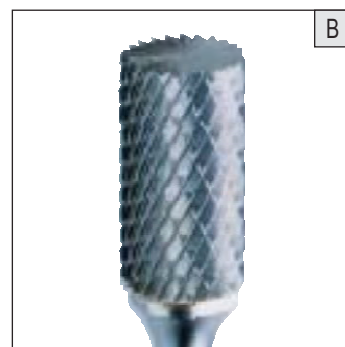
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|--------------------------|----------------|--------|--------|--------|---------|---------|---------|---------|---------|----------|---------|-------------------|---------|----------|--------|----|
| d1 l1 l2 d2 | | d1 | MM | 1.5 | 2.4 | 2.4 | 3 | 3 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 |
| | | l1 | MM | 6 | 13 | 13 | 13 | 13 | 13 | 13 | 16 | 13 | 19 | 19 | 25 | 19 |
| | | d2 | MM | 3 | 2.4 | 2.4 | 3 | 3 | 4 | 4 | 6 | 3 | 6 | 6 | 6 | 6 |
| | | l2 | MM | 38 | 38 | 63 | 38 | 63 | 50 | 63 | 50 | 45 | 50 | 75 | 50 | 65 |
| | | s | T1050 | T1100 | - | T1200 | - | T1300 | - | T1300-6 | T1240 | T1400 | T1400L | - | T1500 | |
| | | d | T1050D | T1100D | T1100DL | T1200D | T1200DL | T1300D | T1300DL | T1300D-6 | T1240D | T1400D | T1400DL | T1400D-1 | T1500D | |
| | <i>new</i> | d-max | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | | c | - | - | - | - | - | - | - | - | - | T1400C | - | - | - | |
| | <i>new</i> | k | - | - | - | T1200K | - | - | - | - | - | T1400K | - | - | T1500K | |
| | | alu | - | - | - | - | - | - | - | - | - | <i>new</i> TTA240 | - | - | - | |
| | I.S.O. Ref. | - | - | - | A031303 | A031303 | A041304 | A041304 | A041304 | A061303 | A061906 | A061906 | A062506 | A081906 | | |
| | SCTi Nr. | SA-41M | SA-63M | - | SA-43M | - | - | - | - | SA-13M | SA-51M | SA-1M | SA-1ML3 | SA-1ML | SA-2M | |

| | | | | | | | | |
|--------------------|---------|----------|---------|---------|----------|------------|----------|---------|
| d1 MM | 10 | 10 | 11 | 12 | 12 | 12 | 16 | 16 |
| l1 MM | 19 | 25 | 25 | 19 | 25 | 25 | 25 | 25 |
| d2 MM | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 8 |
| l2 MM | 65 | 70 | 70 | 65 | 70 | 70 | 70 | 70 |
| s | T1600 | - | - | T1700 | T1700-1 | T1700-1-8 | T1800-6 | T1800 |
| d | T1600D | T1600D-1 | T1650D | T1700D | T1700D-1 | T1700D-1-8 | T1800D-6 | T1800D |
| d-max | TDX160 | - | - | - | TDX170-1 | - | - | - |
| c | T1600C | - | - | T1700C | - | - | - | - |
| k | T1600K | - | - | T1700K | T1700K-1 | - | - | - |
| alu | TTA260 | - | - | - | TTA270 | - | - | TTA280 |
| I.S.O. Ref. | A101906 | A102506 | A112506 | A121906 | A122506 | A122508 | A162506 | A162508 |
| SCTI Nr. | SA-3M | SA-3ML | SA-4M | - | SA-5M | SA-5M8 | SA-6M | SA-6M8 |



Цилиндрическая форма с торцовыми зубьями

| | | | | | | | | | | | | |
|------------|--------|---------|---------|---------|---------|---------|------------|---------|-------------------|---------|------------|---------|
| new | | | | | | | new | | | | new | |
| 1.5 | 2.4 | 2.4 | 3 | 3 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 8 |
| 6 | 13 | 13 | 13 | 13 | 13 | 13 | 16 | 13 | 19 | 19 | 25 | 19 |
| 3 | 2.4 | 2.4 | 3 | 3 | 4 | 4 | 6 | 3 | 6 | 6 | 6 | 6 |
| 38 | 38 | 63 | 38 | 63 | 50 | 63 | 50 | 45 | 50 | 75 | 50 | 65 |
| T1052 | T1102 | - | T1202 | - | T1302 | - | T1302-6 | T1242 | T1402 | T1402L | - | T1502 |
| T1052D | T1102D | T1102DL | T1202D | T1202DL | T1302D | T1302DL | T1302D-6 | T1242D | T1402D | T1402DL | T1402D-1 | T1502D |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | T1202K | - | - | - | - | - | T1402K | - | - | T1502K |
| - | - | - | - | - | - | - | - | - | new TTA140 | - | - | - |
| - | - | - | B031303 | B031303 | B041304 | B041304 | B041606 | B061303 | B061906 | B061906 | B062506 | B081906 |
| SB-41M | SB-63M | - | SB-43M | - | - | - | SB-13M | SB-51M | SB-1M | SB-1ML3 | SB-1ML | SB-2M |

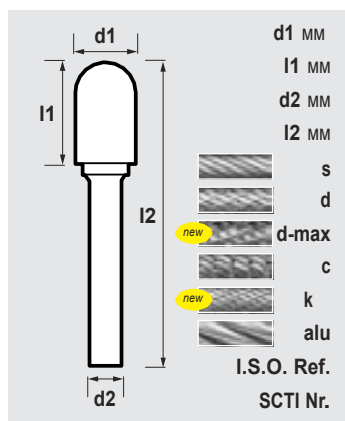
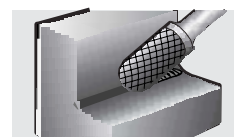













| | | |
|-------------|----|--|
| d1 | MM | |
| l1 | MM | |
| d2 | MM | |
| l2 | MM | |
| s | | |
| d | | |
| d-max | | |
| c | | |
| k | | |
| alu | | |
| I.S.O. Ref. | | |
| SCTI Nr. | | |

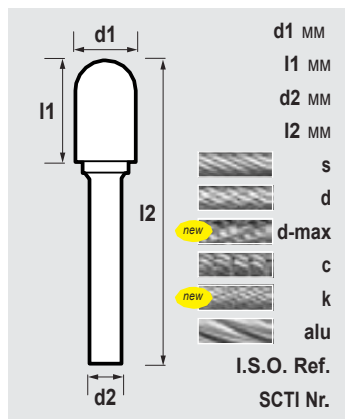
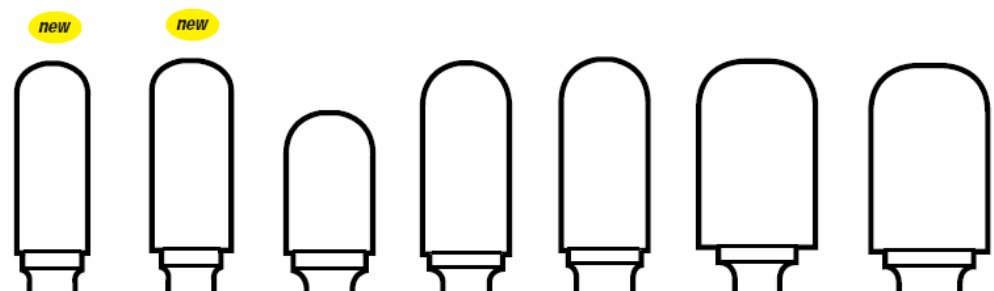
| | | | | | | | |
|---------|------------|------------|---------|----------|------------|----------|---------|
| | new | new | | | | | |
| 10 | 10 | 11 | 12 | 12 | 12 | 16 | 16 |
| 19 | 25 | 25 | 19 | 25 | 25 | 25 | 25 |
| 6 | 6 | 6 | 6 | 6 | 8 | 6 | 8 |
| 65 | 70 | 70 | 65 | 70 | 70 | 70 | 70 |
| T1602 | - | - | T1702 | T1702-1 | T1702-1-8 | T1802-6 | T1802 |
| T1602D | T1602D-1 | T1652D | T1702D | T1702D-1 | T1702D-1-8 | T1802D-6 | T1802D |
| TDX162 | - | - | - | TDX172-1 | - | - | - |
| - | - | - | - | - | - | - | - |
| T1602K | - | - | T1702K | T1702K-1 | - | - | - |
| TTA160 | - | - | - | TTA170 | - | - | TTA180 |
| B101906 | B102506 | B112506 | B121906 | B122506 | B122508 | B162506 | B162508 |
| SB-3M | SB-3ML | SB-4M | - | SB-5M | SB-5M8 | SB-6M | SB-6M8 |

| | | |
|-------------|----|--|
| d1 | MM | |
| l1 | MM | |
| d2 | MM | |
| l2 | MM | |
| s | | |
| d | | |
| d-max | | |
| c | | |
| k | | |
| alu | | |
| I.S.O. Ref. | | |
| SCTI Nr. | | |

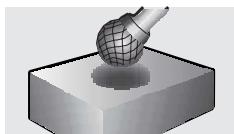
Цилиндрическая форма со сферическим торцем



| | | | | | | | | | | |
|---|---|---|---|---|---|--|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |
| 2.5 | 3 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 8 | 10 |
| 11 | 13 | 13 | 13 | 16 | 16 | 13 | 19 | 25 | 19 | 19 |
| 3 | 3 | 3 | 3 | 6 | 6 | 3 | 6 | 6 | 6 | 6 |
| 38 | 38 | 50 | 75 | 50 | 50 | 45 | 50 | 50 | 65 | 65 |
| T3100 | T3200 | - | - | T3300-6 | - | T3240 | T3400 | - | T3500 | T3600 |
| T3100D | T3200D | T3200DL | T3200DXL | T3300D-6 | T3350D-6 | T3240D | T3400D | T3400D-1 | T3500D | T3600D |
| - | - | - | - | - | - | - | - | - | TDX350 | TDX360 |
| - | T3200C | - | - | - | - | - | T3400C | - | - | T3600C |
| - | T3200K | - | - | T3300K-6 | - | - | T3400K | - | T3500K | T3600K |
| - | - | - | - | - | - | - | new TTA340 | - | - | TTA360 |
| - | C031303 | C031303 | C031303 | C041606 | C051606 | C061303 | C061906 | C062506 | C081906 | C101906 |
| SC-41M | SC-42M | SC-42ML2 | SC-42ML3 | SC-13M | SC-14M | SC-51M | SC-1M | SC-1ML | SC-2M | SC-3M |



| | | | | | | |
|----------|---------|---------|----------|------------|----------|---------|
| 10 | 11 | 12 | 12 | 12 | 16 | 16 |
| 25 | 25 | 19 | 25 | 25 | 25 | 25 |
| 6 | 6 | 6 | 6 | 8 | 6 | 8 |
| 70 | 70 | 65 | 70 | 70 | 70 | 70 |
| - | - | T3700 | T3700-1 | T3700-1-8 | T3800-6 | T3800 |
| T3600D-1 | T3650D | T3700D | T3700D-1 | T3700D-1-8 | T3800D-6 | T3800D |
| - | - | TDX370 | TDX370-1 | TDX370-1-8 | TDX380-6 | TDX380 |
| - | - | T3700C | T3700C-1 | - | - | - |
| - | - | T3700K | T3700K-1 | - | - | - |
| - | - | - | TTA370 | - | - | TTA380 |
| C102506 | C112506 | C121906 | C122506 | C122508 | C162506 | C162508 |
| SC-3ML | SC-4M | - | SC-5M | SC-5M8 | SC-6M | SC-6M8 |



Сферическая форма



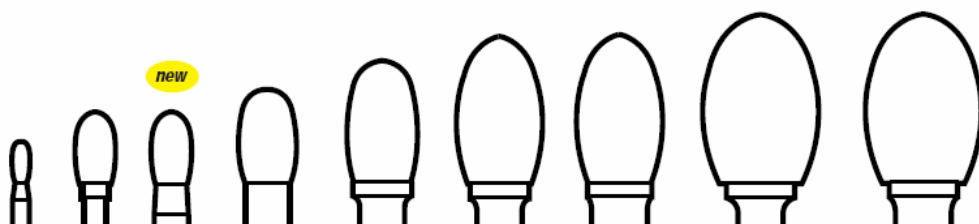
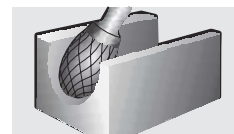
| | | | | | | | | | |
|------------|---------|------------|---------|------------|------------|---------|-------------------|---------|---------|
| new | | new | | new | new | | | | |
| | | | | | | | | | |
| 2.5 | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 8 | 10 |
| 2.3 | 2.7 | 2.5 | 3.6 | 4.7 | 4.7 | 5.4 | 5.4 | 7.2 | 9 |
| 3 | 3 | 6 | 3 | 3 | 6 | 3 | 6 | 6 | 6 |
| 38 | 38 | 50 | 45 | 38 | 50 | 38 | 50 | 52 | 53 |
| T7100 | T7200 | T7200-6 | T7300 | T7350 | T7350-6 | T7240 | T7400 | T7500 | T7600 |
| T7100D | T7200D | T7200D-6 | T7300D | T7350D | T7350D-6 | T7240D | T7400D | T7500D | T7600D |
| - | - | - | - | - | - | - | - | - | TDX760 |
| - | T7200C | - | - | - | - | T7240C | - | T7500C | T7600C |
| - | T7200K | - | - | - | - | T7240K | T7400K | T7500K | T7600K |
| - | - | - | - | - | - | - | new TTA740 | - | TTA760 |
| - | D030303 | D030306 | D040403 | D050503 | D050506 | D060603 | D060606 | D080806 | D101006 |
| SD-41M | SD-42M | SD-11M | SD-52M | SD-53M | SD-14M | SD-51M | SD-1M | SD-2M | SD-3M |

| | |
|-------------|------------|
| d1 MM | |
| l1 MM | |
| d2 MM | |
| l2 MM | |
| s | |
| d | |
| d-max | new |
| c | |
| k | new |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

| | | | | | | |
|------------|---------|----------|----------|----------|----------|---------|
| new | | | | | | |
| | | | | | | |
| 11 | 12 | 12 | 16 | 16 | 19 | 19 |
| 9.9 | 10.8 | 10.8 | 14.4 | 14.4 | 17.1 | 17.1 |
| 6 | 6 | 8 | 6 | 8 | 6 | 8 |
| 54 | 55 | 55 | 60 | 60 | 63 | 63 |
| - | T7700 | T7700-8 | T7800 | T7800-8 | T7900-6 | T7900 |
| T7650D | T7700D | T7700D-8 | T7800D | T7800D-8 | T7900D-6 | T7900D |
| - | TDX770 | - | - | - | - | - |
| - | T7700C | - | - | - | - | - |
| - | T7700K | - | - | - | - | - |
| - | TTA770 | TTA780-8 | TTA780-6 | TTA780 | TTA780 | - |
| D111106 | D121206 | D121208 | D161606 | D161608 | D191906 | D191908 |
| SD-4M | SD-5M | SD-5M8 | SD-6M | SD-6M8 | SD-7M | SD-7M8 |

| | |
|-------------|------------|
| d1 MM | |
| l1 MM | |
| d2 MM | |
| l2 MM | |
| s | |
| d | |
| d-max | new |
| c | |
| k | new |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

Овальная форма



| | | | | | | | | | | | |
|-------------|---------|---------|---------|---------|---------|---------|---------|----------|---------|----------|----|
| | d1 | MM | 3 | 6 | 6 | 8 | 10 | 12 | 12 | 16 | 16 |
| | l1 | MM | 6 | 10 | 10 | 13 | 16 | 22 | 22 | 25 | 25 |
| | d2 | MM | 3 | 3 | 6 | 6 | 6 | 6 | 8 | 6 | 8 |
| | l2 | MM | 38 | 42 | 50 | 58 | 60 | 67 | 67 | 70 | 70 |
| | s | T5220 | T5240 | - | T5300 | T5500 | T5700 | T5700-8 | T5800 | T5800-8 | |
| | d | T5220D | T5240D | T5260D | T5300D | T5500D | T5700D | T5700D-8 | T5800D | T5800D-8 | |
| | d-max | - | - | - | - | TDX550 | TDX570 | - | - | - | |
| | c | - | - | - | - | T5500C | T5700C | - | - | - | |
| | k | - | - | - | T5300K | T5500K | T5700K | - | - | - | |
| | alu | - | - | - | - | - | - | - | - | - | |
| I.S.O. Ref. | E030603 | E061003 | E061006 | E081306 | E101606 | E122206 | E122208 | E162506 | E162508 | | |
| SCTI Nr. | SE-41M | SE-51M | SE-1M | SE-2M | SE-3M | SE-5M | SE-5M8 | SE-6M | SE-6M8 | | |



Параболическая форма со сферическим торцом

| | | | | | | |
|------------|---------|---------|-------------------|---------|------------|------------|
| new | | | | | new | new |
| | | | | | | |
| 3 | 3 | 6 | 6 | 10 | 11 | 12 |
| 6 | 13 | 13 | 19 | 19 | 25 | 19 |
| 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| 38 | 38 | 45 | 50 | 65 | 70 | 65 |
| T9220 | T9200 | T9240 | T9400 | T9600 | - | - |
| T9220D | T9200D | T9240D | T9400D | T9600D | T9650D | T9730D |
| - | - | - | - | TDX960 | - | - |
| - | - | - | T9400C | T9600C | - | - |
| - | T9200K | - | T9400K | T9600K | - | - |
| - | - | - | new TTA940 | TTA960 | - | - |
| F030603 | F031303 | F061303 | F061606 | F101906 | F112506 | F121906 |
| SF-41M | SF-42M | SF-51M | SF-1M | SF-3M | SF-4M | - |

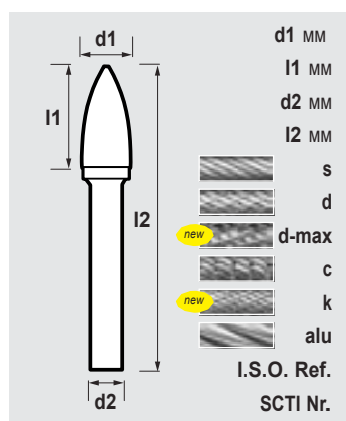
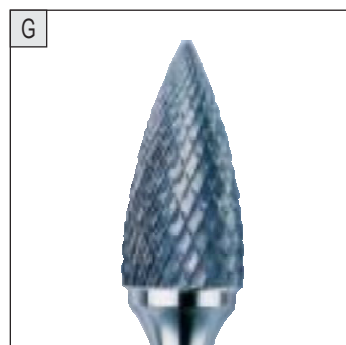
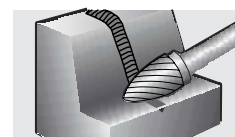


| | |
|-------------|--|
| d1 MM | |
| l1 MM | |
| d2 MM | |
| l2 MM | |
| s | |
| d | |
| d-max | |
| c | |
| k | |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

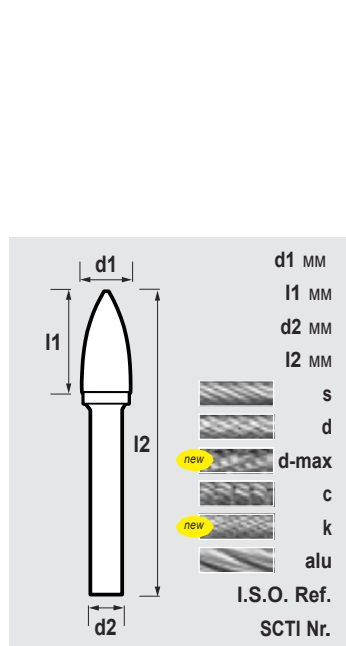
| | | | |
|---------|----------|----------|---------|
| | | | |
| 12 | 12 | 16 | 16 |
| 25 | 25 | 25 | 25 |
| 6 | 8 | 6 | 8 |
| 70 | 70 | 70 | 70 |
| T9700 | T9700-8 | T9800-6 | T9800 |
| T9700D | T9700D-8 | T9800D-6 | T9800D |
| TDX970 | TDX970-8 | TDX980-6 | TDX980 |
| T9700C | - | - | - |
| T9700K | - | - | - |
| TTA970 | - | - | TTA980 |
| F122506 | F122508 | F162506 | F162508 |
| SF-5M | SF-5M8 | SF-6M | SF-6M8 |

| | |
|-------------|--|
| d1 MM | |
| l1 MM | |
| d2 MM | |
| l2 MM | |
| s | |
| d | |
| d-max | |
| c | |
| k | |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

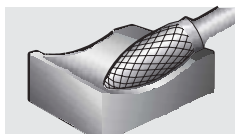
Параболическая форма с заостренным торцом



| | | | | | | | |
|------------|------------|---------|---------|---------|------------|---------|---------|
| new | new | | | | new | | |
| 3 | 3 | 3 | 6 | 6 | 8 | 10 | 12 |
| 6 | 10 | 13 | 13 | 16 | 19 | 19 | 19 |
| 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| 38 | 38 | 38 | 45 | 50 | 65 | 65 | 65 |
| T6220 | T6230 | T6200 | T6240 | T6400 | - | T6500 | T6700 |
| T6220D | T6230D | T6200D | T6240D | T6400D | T6450D | T6500D | T6700D |
| - | - | - | - | - | - | - | - |
| - | - | - | - | T6400C | - | T6500C | - |
| - | - | T6200K | - | T6400K | T6450K | T6500K | - |
| - | - | - | - | - | - | - | - |
| G030603 | G031003 | G031303 | G061303 | G061606 | G081006 | G101906 | G121906 |
| SG-41M | SG-43M | SG-44M | SG-51M | SG-1M | SG-2M | SG-3M | SG-13M |



| | | | |
|---------|----------|----------|---------|
| | | | |
| 12 | 12 | 16 | 16 |
| 25 | 25 | 25 | 25 |
| 6 | 8 | 6 | 8 |
| 70 | 70 | 70 | 70 |
| T6800 | T6800-8 | T6900-6 | T6900 |
| T6800D | T6800D-8 | T6900D-6 | T6900D |
| TDX680 | - | - | - |
| T6800C | - | - | - |
| T6800K | - | - | - |
| - | - | - | - |
| G122506 | G122508 | G162506 | G162508 |
| SG-5M | SG-5M8 | SG-6M | SG-6M8 |



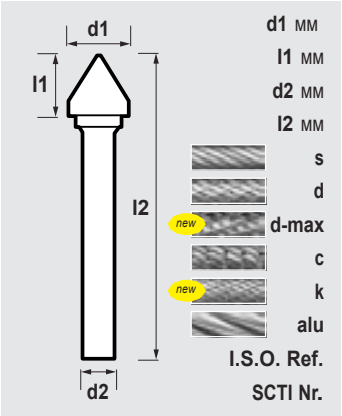
Форма «Пламя»

| | | | | | | |
|---------|---------|---------|---------|----------|----------|---------|
| | | | | | new | new |
| | | | | | | |
| 3 | 6 | 8 | 12 | 12 | 16 | 16 |
| 8 | 14 | 19 | 32 | 32 | 36 | 36 |
| 3 | 6 | 6 | 6 | 8 | 6 | 8 |
| 38 | 50 | 65 | 77 | 77 | 80 | 80 |
| T5200 | T5400 | T5550 | T5600 | T5600-8 | - | - |
| T5200D | T5400D | T5550D | T5600D | T5600D-8 | T5850D-6 | T5850D |
| - | - | - | TDX560 | - | - | - |
| - | - | T5550C | T5600C | - | - | - |
| - | - | T5550K | T5600K | - | - | - |
| - | - | - | - | - | - | - |
| H030803 | H061406 | H081906 | H123206 | H123208 | H162606 | H163608 |
| SH-41M | SH-1M | SH-2M | SH-5M | SH-5M8 | SH-6M | SH-6M8 |



| | | |
|-------------|----|--|
| d1 | MM | |
| l1 | MM | |
| d2 | MM | |
| l2 | MM | |
| s | | |
| d | | |
| d-max | | |
| c | | |
| k | | |
| alu | | |
| I.S.O. Ref. | | |
| SCTI Nr. | | |

Зенковка 60°



new



| |
|---------|
| 6 |
| 4 |
| 6 |
| 50 |
| T2920 |
| T2920D |
| - |
| - |
| - |
| - |
| J060406 |
| SJ-1M |

new

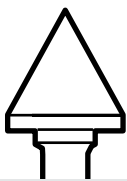


| |
|---------|
| 10 |
| 8 |
| 6 |
| 55 |
| T2940 |
| T2940D |
| - |
| - |
| - |
| - |
| J100806 |
| SJ-3M |



| |
|---------|
| 12 |
| 11 |
| 6 |
| 60 |
| T2900 |
| T2900D |
| - |
| - |
| - |
| - |
| J121106 |
| SJ-5M |

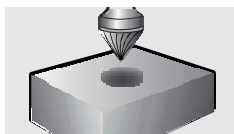
new



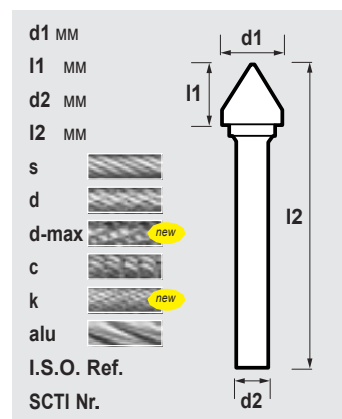
| |
|---------|
| 16 |
| 14.5 |
| 6 |
| 60 |
| T2960 |
| T2960D |
| - |
| - |
| - |
| - |
| J161406 |
| SJ-6M |



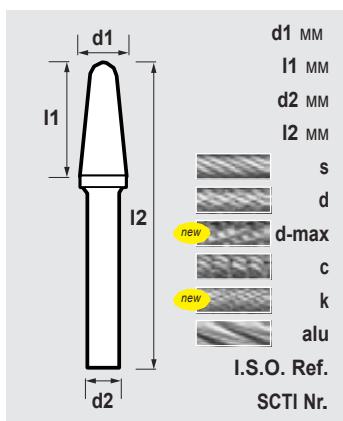
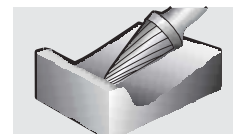
Зенковка 90°



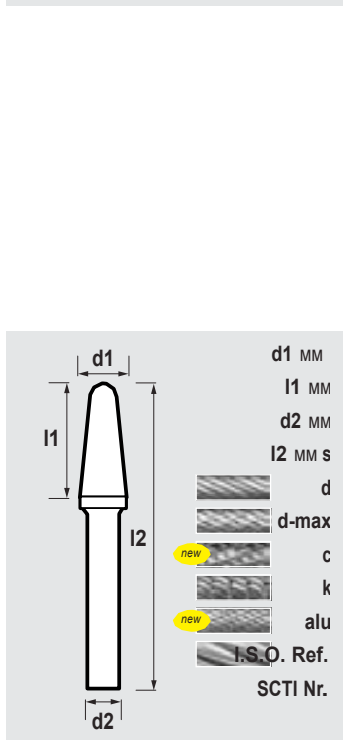
| <i>new</i> | <i>new</i> | | <i>new</i> | |
|------------|------------|---------|------------|---------|
| | | | | |
| 3 | 6 | 10 | 12 | 16 |
| 1.5 | 3 | 5 | 6 | 8 |
| 3 | 6 | 6 | 6 | 6 |
| 38 | 50 | 55 | 54 | 60 |
| T2810 | T2820 | T2000 | T2840 | T2800 |
| T2810D | T2820D | T2000D | T2840D | T2800D |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | K060306 | K100506 | K120606 | K160806 |
| SK-42M | SK-1M | SK-3M | SK-5M | SK-6M |



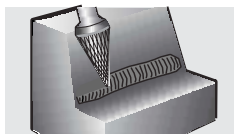
Коническая форма со сферическим торцом



| | 14° | 8° | 8° | 14° | 14° | 14° new | 14° | 14° |
|-------------|---------|---------|---------|---------|---------|------------|---------|----------|
| | | | | | | | | |
| d1 MM | 3 | 3 | 3 | 6 | 6 | 8 | 10 | 10 |
| l1 MM | 8 | 9.5 | 13 | 13 | 19 | 22 | 19 | 27 |
| d2 MM | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| l2 MM | 38 | 38 | 38 | 45 | 50 | 69 | 65 | 75 |
| s | T4200 | T4210 | T4220 | T4240 | T4400 | - | T4600 | T4600-1 |
| d | T4200D | T4210D | T4220D | T4240D | T4400D | T4500D | T4600D | T4600D-1 |
| d-max | - | - | - | - | - | - | - | TDX460-1 |
| c | - | - | - | - | - | - | T4600C | - |
| k | - | - | - | - | T4400K | - | T4600K | T4600K-1 |
| alu | - | - | - | - | TTA440 | - | - | TTA460 |
| I.S.O. Ref. | L030803 | L031003 | L031303 | L061303 | L061606 | L101906 | L101906 | L102706 |
| SCTI Nr. | - | SL-41M | SL-42M | SL-51M | SL-1M | SL-2M | - | SL-3M |

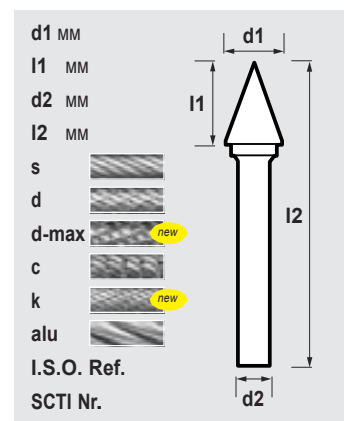


| | 14° | 14° | 14° | 14° |
|-------------|---------|----------|----------|---------|
| | | | | |
| d1 MM | 12 | 12 | 16 | 16 |
| l1 MM | 30 | 30 | 33 | 33 |
| d2 MM | 6 | 8 | 6 | 8 |
| l2 MM | 75 | 75 | 78 | 78 |
| s | T4700 | T4700-8 | T4800-6 | T4800 |
| d | T4700D | T4700D-8 | T4800D-6 | T4800D |
| d-max | TDX470 | - | - | - |
| c | T4700C | - | - | - |
| k | T4700K | - | - | - |
| alu | TTA470 | - | - | TTA480 |
| I.S.O. Ref. | L123006 | L123008 | L163306 | L163308 |
| SCTI Nr. | SL-4M | SL-4M8 | SL-5M | SL-5M8 |

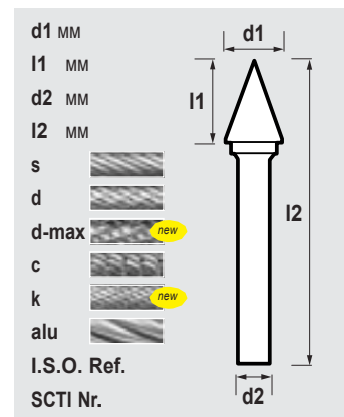


Коническая форма с заостренным торцом

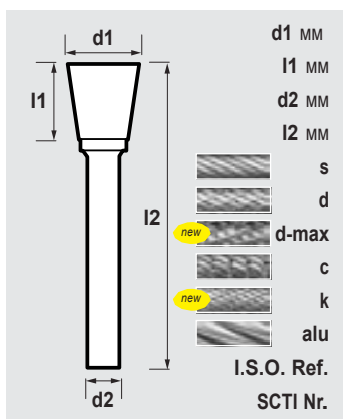
| | | | | | | |
|---------|------------|---------|------------|---------|------------|---------|
| | new | | new | | new | |
| | | | | | | |
| 3 | 3 | 6 | 6 | 6 | 6 | 10 |
| 11 | 16 | 13 | 13 | 19 | 25 | 16 |
| 3 | 3 | 3 | 6 | 6 | 6 | 6 |
| 38 | 38 | 45 | 50 | 50 | 50 | 65 |
| T2200 | T2220 | T2240 | - | T2400 | - | T2600 |
| T2200D | T2220D | T2240D | T2300D | T2400D | T2400D-1 | T2600D |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | T2600C |
| T2200K | - | - | - | T2400K | - | T2600K |
| - | - | - | - | - | - | - |
| M031103 | M031603 | M061303 | M061306 | M061906 | M062506 | M101606 |
| SM-42M | SM-43M | SM-51M | SM-1M | SM-2M | SM-3M | SM-4M |



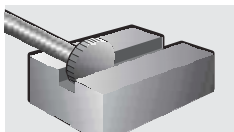
| | | | | |
|---------|----------|------------|------------|------------|
| | | | new | new |
| | | | | |
| 12 | 12 | 12 | 16 | 16 |
| 19 | 22 | 22 | 22 | 22 |
| 6 | 6 | 8 | 6 | 8 |
| 65 | 70 | 70 | 73 | 73 |
| T2700 | T2700-1 | T2700-1-8 | - | - |
| T2700D | T2700D-1 | T2700D-1-8 | T2750D-1-6 | T2750D-1 |
| - | - | - | - | - |
| - | T2700C-1 | - | - | - |
| - | T2700K-1 | - | - | - |
| - | - | - | - | - |
| M121906 | M122206 | M122208 | M162206 | M162208 |
| SM-13M | SM-5M | SM-5M8 | SM-6M | SM-6M8 |



Форма с обратным конусом



| | 10° | 10° | 13° <i>new</i> | 20° | 20° | 18° <i>new</i> | 18° <i>new</i> |
|-------------|---------|---------|-------------------|---------|----------|-------------------|-------------------|
| | | | | | | | |
| d1 MM | 3 | 6 | 9.5 | 12 | 12 | 16 | 16 |
| l1 MM | 7 | 7 | 9.5 | 13 | 13 | 19 | 19 |
| d2 MM | 3 | 6 | 6 | 6 | 8 | 6 | 8 |
| l2 MM | 38 | 50 | 53 | 58 | 58 | 63 | 63 |
| s | T8200 | T8400 | - | T8500 | T8500-8 | - | - |
| d | T8200D | T8400D | T8450D | T8500D | T8500D-8 | T8800D-6 | T8800D |
| d-max | - | - | - | - | - | - | - |
| c | - | - | - | - | - | - | - |
| k | - | T8400K | - | T8500K | - | - | - |
| alu | - | - | - | - | - | - | - |
| I.S.O. Ref. | N030703 | N060706 | - | N121306 | N121308 | N161906 | N161908 |
| SCTI Nr. | SN-42M | SN-1M | SN-2M | SN-4M | SN-4M8 | SN-6M | SN-6M8 |



Дисковая форма

| |
|-------|
| |
| 10 |
| 1.6 |
| 3 |
| 34 |
| T8240 |
| - |
| - |
| - |
| - |
| - |
| - |
| - |

| |
|-------|
| |
| 12 |
| 2.6 |
| 6 |
| 48 |
| T8700 |
| - |
| - |
| - |
| - |
| - |
| - |
| - |

| |
|-------|
| |
| 25 |
| 5.2 |
| 8 |
| 50 |
| T8100 |
| - |
| - |
| - |
| - |
| - |
| - |
| - |

| |
|-------|
| |
| 25 |
| 6.3 |
| 8 |
| 51 |
| T9100 |
| - |
| - |
| - |
| - |
| - |
| - |
| - |



| | | |
|-------------|----|--|
| d1 | MM | |
| l1 | MM | |
| d2 | MM | |
| l2 | MM | |
| s | | |
| d | | |
| d-max | | |
| c | | |
| k | | |
| alu | | |
| I.S.O. Ref. | | |
| SCTI Nr. | | |

Миниатюрные борфрезы



| | | | | | | | | | | | | | |
|-------------|-------|--------|--------|---------|---------|---------|---------|--------|--------|---------|---------|---------|---------|
| | d1 MM | 1.5 | 2.4 | 2.4 | 3 | 3 | 6 | 1.5 | 2.4 | 2.4 | 3 | 3 | 6 |
| | l1 MM | 6 | 13 | 13 | 13 | 13 | 13 | 6 | 13 | 13 | 13 | 13 | 13 |
| | d2 MM | 3 | 2.4 | 2.4 | 3 | 3 | 3 | 3 | 2.4 | 2.4 | 3 | 3 | 3 |
| | l2 MM | 38 | 38 | 63 | 38 | 63 | 45 | 38 | 38 | 63 | 38 | 63 | 45 |
| | s | T1050 | T1100 | - | T1200 | - | T1240 | T1052 | T1102 | - | T1202 | - | T1242 |
| | d | T1050D | T1100D | T1100DL | T1200D | T1200DL | T1240D | T1052D | T1102D | T1102DL | T1202D | T1202DL | T1242D |
| | d-max | - | - | - | - | - | - | - | - | - | - | - | - |
| | c | - | - | - | - | - | - | - | - | - | - | - | - |
| | k | - | - | - | T1200K | - | - | - | - | - | T1202K | - | - |
| | alu | - | - | - | - | - | - | - | - | - | - | - | - |
| I.S.O. Ref. | | - | - | - | A031303 | A031303 | A061303 | - | - | - | B031303 | B031303 | B061303 |
| SCTI Nr. | | SA-41M | SA-63M | - | SA-43M | - | SA-51M | SB-41M | SB-63M | - | SB-43M | - | SB-51M |

| | | | | | | | | | | | |
|-------------|-------|--------|---------|----------|----------|---------|--------|---------|---------|---------|---------|
| | d1 MM | 2.5 | 3 | 3 | 3 | 6 | 2.5 | 3 | 4 | 5 | 6 |
| | l1 MM | 11 | 13 | 13 | 13 | 13 | 2.3 | 2.7 | 3.6 | 4.7 | 5.4 |
| | d2 MM | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | l2 MM | 38 | 38 | 50 | 75 | 45 | 38 | 38 | 45 | 38 | 38 |
| | s | T3100 | T3200 | - | - | T3240 | T7100 | T7200 | T7300 | T7350 | T7240 |
| | d | T3100D | T3200D | T3200DL | T3200DXL | T3240D | T7100D | T7200D | T7300D | T7350D | T7240D |
| | d-max | - | - | - | - | - | - | - | - | - | - |
| | c | - | T3200C | - | - | - | - | T7200C | - | - | T7240C |
| | k | - | T3200K | - | - | - | - | T7200K | - | - | T7240K |
| | alu | - | - | - | - | - | - | - | - | - | - |
| I.S.O. Ref. | | - | C031303 | C031303 | C031303 | C061303 | - | D030303 | D040403 | D050503 | D060603 |
| SCTI Nr. | | SC-41M | SC-42M | SC-42ML2 | SC-42ML3 | SC-51M | SD-41M | SD-42M | SD-52M | SD-53M | SD-51M |



Миниатюрные бофрезы

| | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | | | | | | | | | |
| 3 | 6 | 3 | 3 | 6 | 3 | 3 | 3 | 6 | 3 | 3 |
| 6 | 10 | 6 | 13 | 13 | 6 | 10 | 13 | 13 | 8 | 1.5 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 38 | 42 | 38 | 38 | 45 | 38 | 38 | 38 | 45 | 38 | 38 |
| T5220 | T5240 | T9220 | T9200 | T9240 | T6220 | T6230 | T6200 | T6240 | T5200 | T2810 |
| T5220D | T5240D | T9220D | T9200D | T9240D | T6220D | T6230D | T6200D | T6240D | T5200D | T2810D |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | T9200K | - | - | - | T6200K | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| E030603 | E061003 | F030603 | F031303 | F061303 | G030603 | G031003 | G031303 | G061303 | H030803 | - |
| SE-41M | SE-51M | SF-41M | SF-42M | SF-51M | SG-41M | SG-43M | SG-44M | SG-51M | SH-41M | SK-42M |

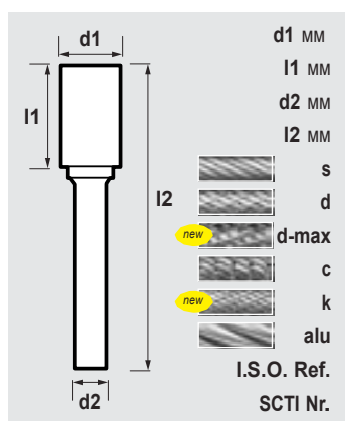


| | |
|-------------|----|
| d1 | MM |
| l1 | MM |
| d2 | MM |
| l2 | MM |
| s | |
| d | |
| d-max | |
| c | |
| k | |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

| | | | | | | | | | |
|---------|--------|---------|---------|---------|---------|---------|---------|-------|--|
| | | | | | | | | | |
| 3 | 3 | 3 | 6 | 3 | 3 | 6 | 3 | 10 | |
| 8 | 9.5 | 13 | 13 | 11 | 16 | 13 | 7 | 1.6 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 38 | 38 | 38 | 45 | 38 | 38 | 45 | 38 | 34 | |
| T4200 | T4210 | T4220 | T4240 | T2200 | T2220 | T2240 | T8200 | T8240 | |
| T4200D | T4210D | T4220D | T4240D | T2200D | T2220D | T2240D | T8200D | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| - | - | - | - | T2200K | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | |
| L030803 | - | L031303 | L061303 | M031103 | M031603 | M061303 | N030703 | - | |
| - | SL-41M | SL-42M | SL-51M | SM-42M | SM-43M | SM-51M | SN-42M | - | |

| | |
|-------------|----|
| d1 | MM |
| l1 | MM |
| d2 | MM |
| l2 | MM |
| s | |
| d | |
| d-max | |
| c | |
| k | |
| alu | |
| I.S.O. Ref. | |
| SCTI Nr. | |

Экстрадлинные борфрезы



| | | | | | | |
|-------------|----------|------------|----------|------------|----------|----------|
| | | | | | | |
| d1 MM | 10 | 12 | 10 | 12 | 10 | 12 |
| l1 MM | 19 | 25 | 19 | 25 | 9 | 10.8 |
| d2 MM | 6 | 6 | 6 | 6 | 6 | 6 |
| l2 MM | 169 | 175 | 169 | 175 | 159 | 160.8 |
| s | T1600XL | T1700-1XL | T3600XL | T3700-1XL | T7600XL | T7700XL |
| d | T1600DXL | T1700D-1XL | T3600DXL | T3700D-1XL | T7600DXL | T7700DXL |
| d-max | - | - | - | - | - | - |
| c | - | - | - | - | - | - |
| k | - | - | - | - | - | - |
| alu | - | - | - | - | - | - |
| I.S.O. Ref. | - | - | - | - | - | - |
| SCTI Nr. | SA-3ML6 | SA-5ML6 | SC-3ML6 | SC-5ML6 | SD-3ML6 | SD-5ML6 |

| | | | | | | |
|-------------|----------|----------|----------|----------|------------|----------|
| | | | | | | |
| d1 MM | 10 | 12 | 10 | 12 | 10 | 12 |
| l1 MM | 19 | 25 | 19 | 25 | 27 | 30 |
| d2 MM | 6 | 6 | 6 | 6 | 6 | 6 |
| l2 MM | 169 | 175 | 169 | 175 | 177 | 180 |
| s | T9600XL | T9700XL | T6500XL | T6800XL | T4600-1XL | T4700XL |
| d | T9600DXL | T9700DXL | T6500DXL | T6800DXL | T4600D-1XL | T4700DXL |
| d-max | - | - | - | - | - | - |
| c | - | - | - | - | - | - |
| k | - | - | - | - | - | - |
| alu | - | - | - | - | - | - |
| I.S.O. Ref. | - | - | - | - | - | - |
| SCTI Nr. | SF-3ML6 | SF-5ML6 | SF-3ML6 | SF-5ML6 | SL-3ML6 | SL-4ML6 |



Наборы борфрез

| Арт. | Содержание | Форма | d1 | l1 | d2 | l2 |
|--------|------------|-------|----|------|----|----|
| | T1600D | A | 10 | 19 | 6 | 65 |
| | T1700D-1 | A | 12 | 25 | 6 | 70 |
| | T3600D | C | 10 | 19 | 6 | 65 |
| | T3700D-1 | C | 12 | 25 | 6 | 70 |
| GBKIT1 | T4700D | L | 12 | 30 | 6 | 75 |
| | T5500D | E | 10 | 16 | 6 | 60 |
| | T6500D | G | 10 | 19 | 6 | 65 |
| | T6800D | G | 12 | 25 | 6 | 70 |
| | T7700D | D | 12 | 10.8 | 6 | 55 |
| | T9700D | F | 12 | 25 | 6 | 70 |

| Арт. | Содержание | Форма | d1 | l1 | d2 | l2 |
|--------|------------|-------|----|----|----|----|
| | T1700D-1 | A | 12 | 25 | 6 | 70 |
| GBKIT2 | T3700D-1 | C | 12 | 25 | 6 | 70 |
| | T4700D | L | 12 | 30 | 6 | 75 |
| | T6800D | G | 12 | 25 | 6 | 70 |

| Арт. | Содержание | Форма | d1 | l1 | d2 | l2 |
|--------|------------|-------|----|------|----|----|
| | T1702D-1 | B | 12 | 25 | 6 | 70 |
| | T2700D-1 | M | 12 | 22 | 6 | 70 |
| GBKIT3 | T3700D-1 | C | 12 | 25 | 6 | 70 |
| | T7700D | D | 12 | 10.8 | 6 | 55 |
| | T9700D | F | 12 | 25 | 6 | 70 |

| Арт. | Содержание | Форма | d1 | l1 | d2 | l2 |
|--------|------------|-------|----|-----|----|----|
| | T1200D | A | 3 | 13 | 3 | 38 |
| | T1202D | B | 3 | 13 | 3 | 38 |
| | T2200D | M | 3 | 11 | 3 | 38 |
| | T3200D | C | 3 | 13 | 3 | 38 |
| GBKIT4 | T4200D | L | 3 | 8 | 3 | 38 |
| | T5200D | H | 3 | 8 | 3 | 38 |
| | T5220D | E | 3 | 6 | 3 | 38 |
| | T6200D | G | 3 | 13 | 3 | 38 |
| | T7200D | D | 3 | 2.7 | 3 | 39 |
| | T9200D | F | 3 | 13 | 3 | 38 |



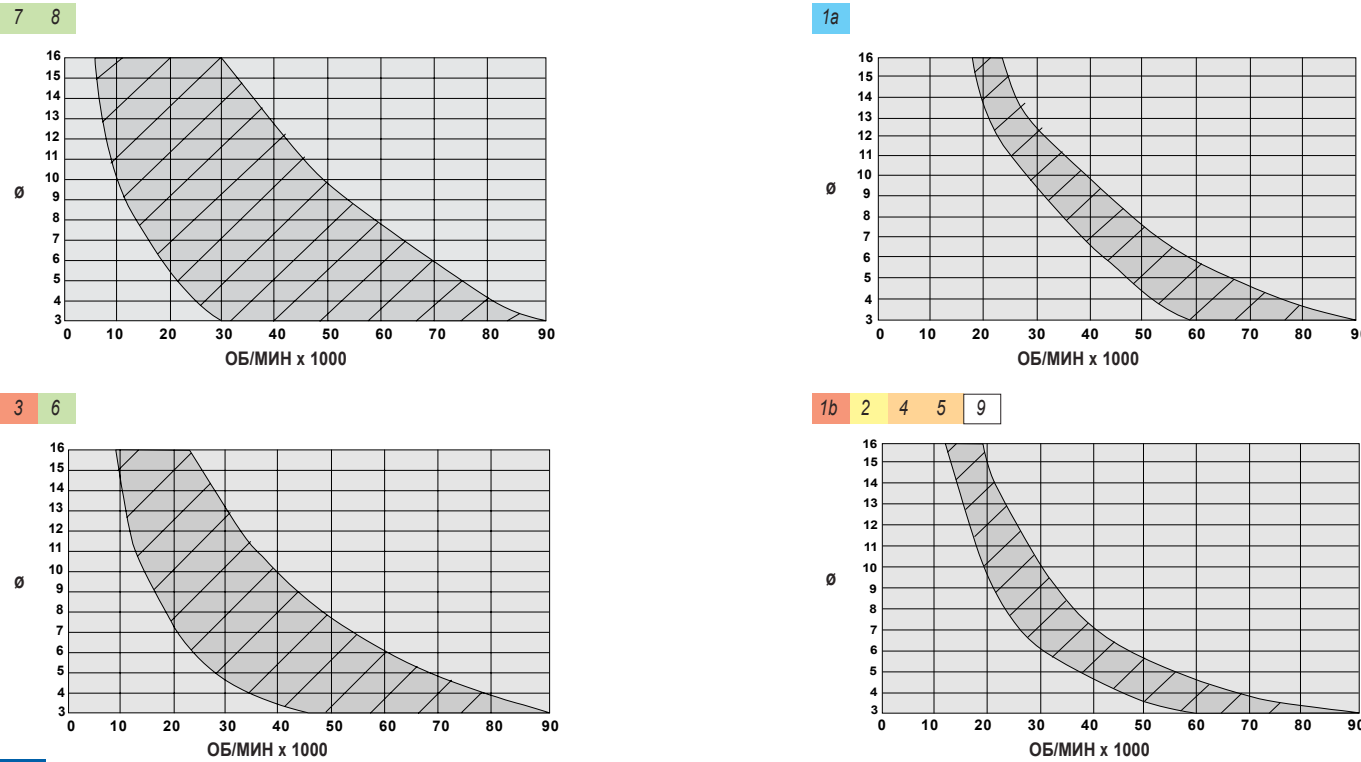


Материалы

| | |
|----|----------------------|
| 1a | Сталь |
| 1b | Закаленная сталь |
| 2 | Нержавеющая сталь |
| 3 | Чугуны |
| 4 | Титан |
| 5 | Никель |
| 6 | Медь и медные сплавы |
| 7 | Алюминий |
| 8 | Пластик |
| 9 | Кермет |

Рекомендованная частота вращения

| Материал | Ø | Ø | Ø | Ø | Ø |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 3мм | 6мм | 10мм | 12мм | 16мм |
| 1a | 60,000 - 90,000 | 45,000 - 60,000 | 30,000 - 40,000 | 22,500 - 30,000 | 18,000 - 24,000 |
| 1b | 60,000 - 90,000 | 30,000 - 45,000 | 19,000 - 30,000 | 15,000 - 22,500 | 12,000 - 18,000 |
| 2 | 60,000 - 90,000 | 30,000 - 45,000 | 19,000 - 30,000 | 15,000 - 22,500 | 12,000 - 18,000 |
| 3 | 45,000 - 90,000 | 22,500 - 60,000 | 15,000 - 40,000 | 11,000 - 30,000 | 9,000 - 24,000 |
| 4 | 60,000 - 90,000 | 30,000 - 45,000 | 19,000 - 30,000 | 15,000 - 22,500 | 12,000 - 18,000 |
| 5 | 60,000 - 90,000 | 30,000 - 45,000 | 19,000 - 30,000 | 15,000 - 22,500 | 12,000 - 18,000 |
| 6 | 45,000 - 90,000 | 22,500 - 60,000 | 15,000 - 40,000 | 11,000 - 30,000 | 9,000 - 24,000 |
| 7 | 30,000 - 90,000 | 15,000 - 70,000 | 10,000 - 50,000 | 7,000 - 38,000 | 6,000 - 30,000 |
| 8 | 30,000 - 90,000 | 15,000 - 70,000 | 10,000 - 50,000 | 7,000 - 38,000 | 6,000 - 30,000 |
| 9 | 60,000 - 90,000 | 30,000 - 45,000 | 19,000 - 30,000 | 15,000 - 22,500 | 12,000 - 18,000 |





Технические данные

Заметки

- Возможно нужно будет произвести коррекцию режимов резания для достижения оптимальной производительности.
- Более твердые материалы требуют меньшей скорости.
- Более маленькие борфрезы требуют больших скоростей.
- Экстрадлинные борфрезы (>150мм) требуют меньшей скорости.
- При работе обеспечивайте небольшое давление на инструмент и постоянное движение.
- Обработка на скорости ниже оптимальной обеспечит хороший отвод стружки.
- Обработка на скорости выше оптимальной приведет к износу зубьев.
- Повышенный нагрев инструмента приведет к его поломке.
- Использование инструментов и цанг, которые уже работали, обеспечивает хороший отвод стружки.
- Не опускайте инструмент при работе больше чем на 1/3 его длины.

Рекомендации по безопасности



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наушники



Носите специальные
защитные перчатки



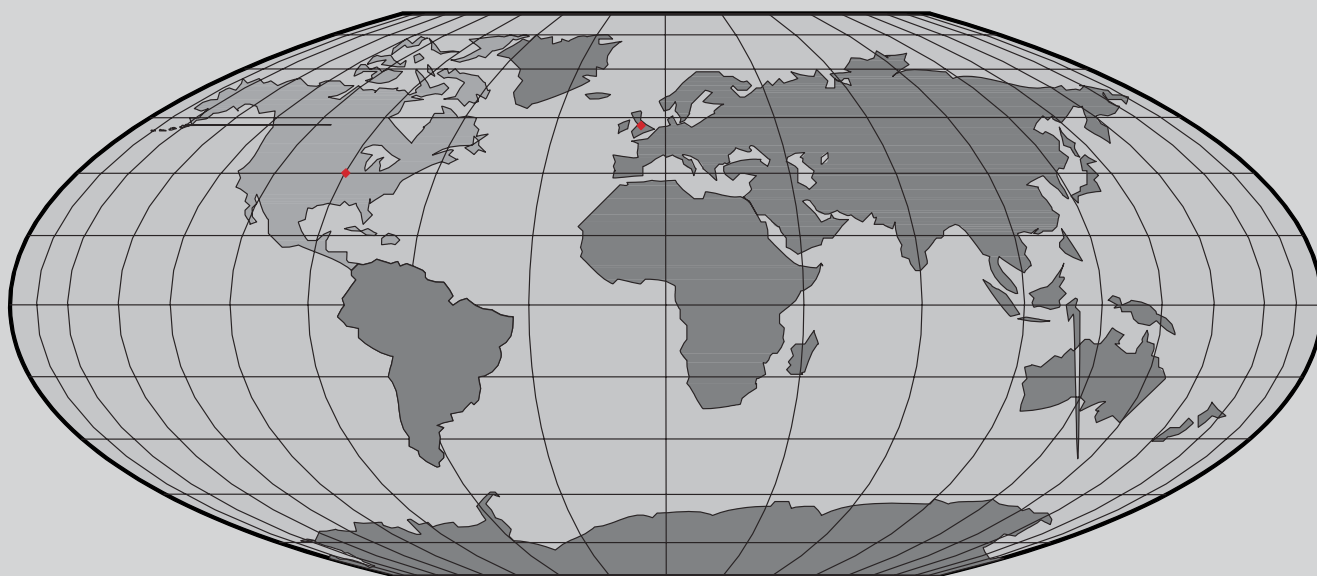
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Читайте инструкции



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Leicestershire LE67 6LR
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