



SLITTING/ SLOTTING/ CUT-OFF SERIES

PATENTED

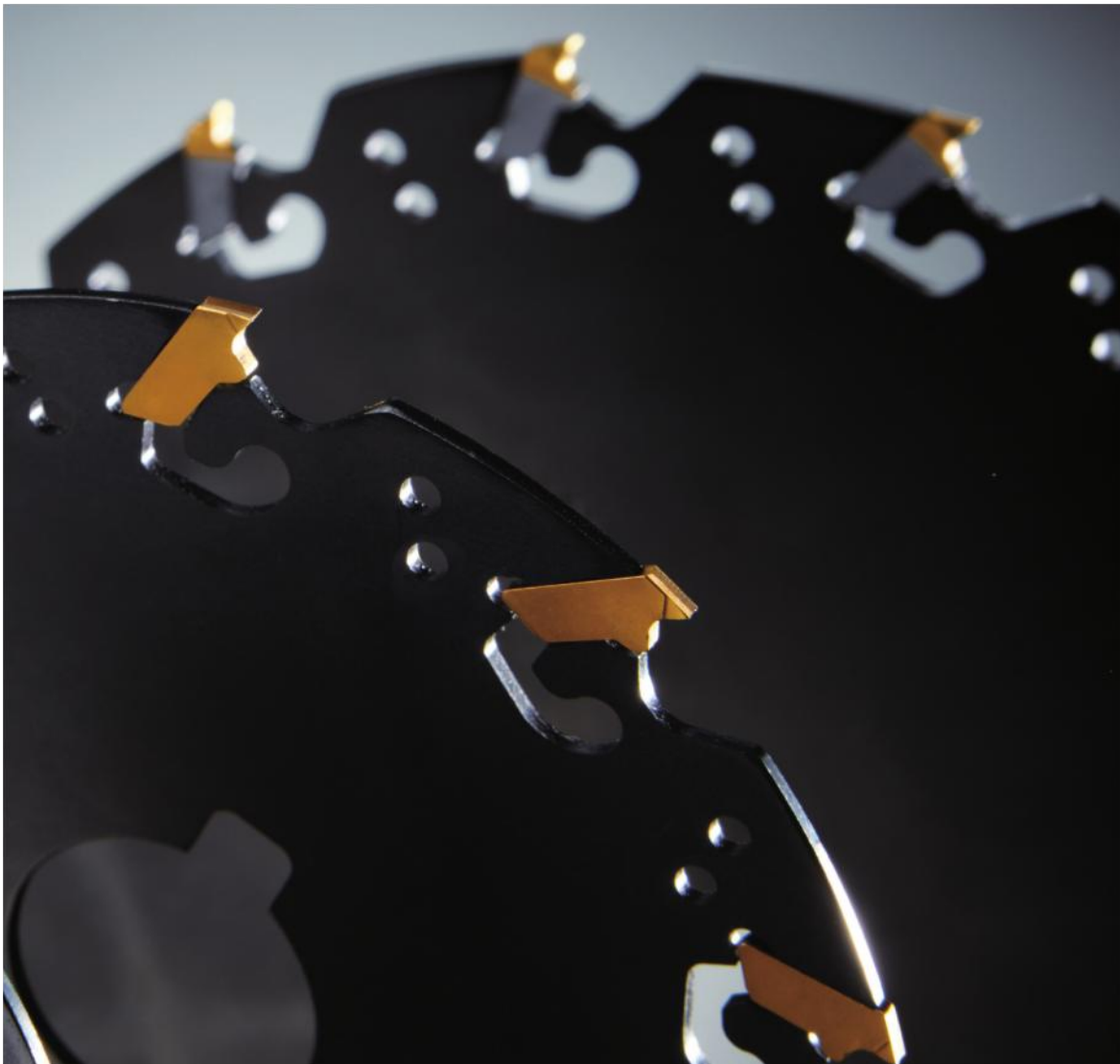


Video



The Safest Saw

Patented embedding system assures the rigidity of inserts clamping which enhances the tool life and cutting speed, meanwhile realize impressive productivities.



SAW BLADE



Features

Available in materials

P K M
N S H

Cost
200~300%
SAVING

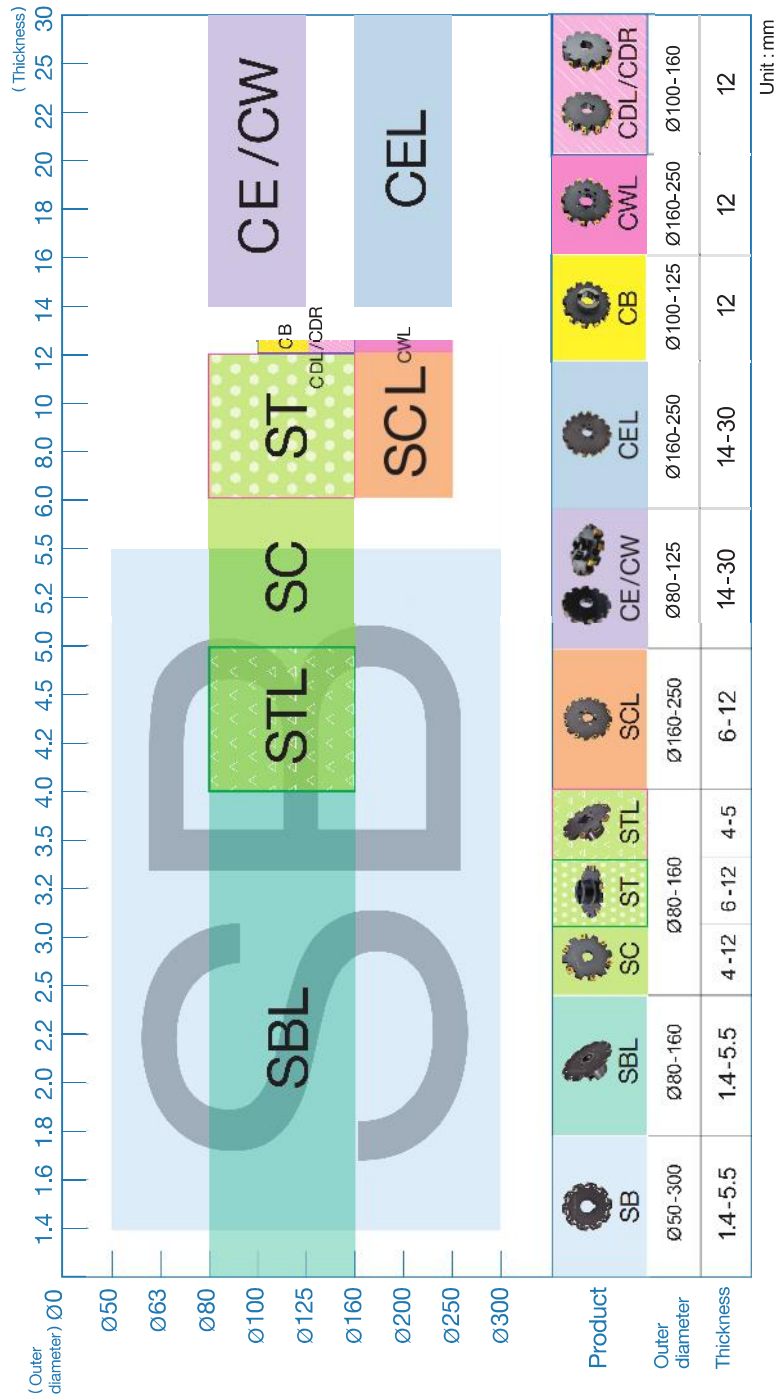
Applicable
Machines
Milling machine

Efficiency
300~500%
UP

Durability
300%
UP

SLITTING/SLOTTING/CUT-OFF SERIES

Classification table



Slitting

Traditional vs. New Patent

"Yih Troun" is the first ever in the world which developed this precise locking type saw blade.



1. The screwless indexable insert was TIALN coated and designed with exclusive geometric angle on the cutting edge for producing impressive performance.
2. It increasing the machining (cutting) speed 300% - 500%
3. Cut down the cost of cutting tools



Patent No. : M538848



Patent No. : ZL 2016 2 1300067.8



PCT Priority

Traditional

Solid type saw blade:

1. HSS Saw is only available with low cutting speed, if speed up, the blade will be damaged soon.
2. The carbide brazed saw is welded by high temperature and without coating, it will degrade the body hardness and machining performance.



Multi Functional Saw Blade

1 Same cutter applicable to inserts of :

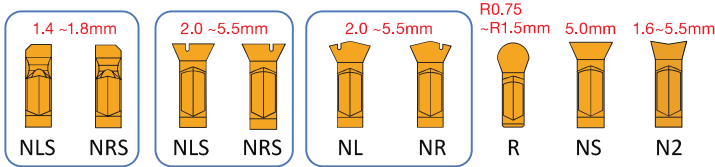
A. Different materials



B. Different thickness

ex.: 1.75 mm cutter can fit inserts 2.0/2.2/2.5mm

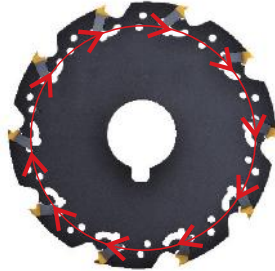
C. Different insert forms



Slitting

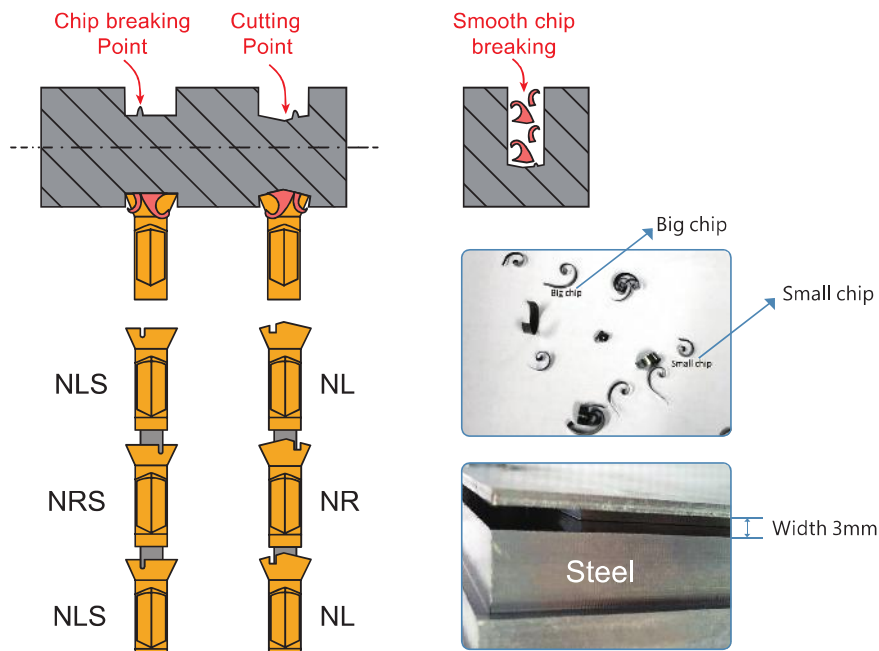
2 Patented embedding system

Strong clamping even in high feed machining



Circular embedding system achieves optimum performance in high speed machining, Max. RPM 17200 rev/min, approved in sweden.

Y.T. Patented Chip Breaking System

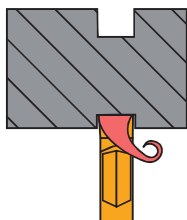


Excellent surface finishing quality and chip evacuation at the live test for machining 20mm deep slots by one pass

Characteristics

- The Insert has unique chip breaker design to break chips into two parts and chips are easily discharged while machining deep grooves and slots.
- It has accurate center positioning design which enables stronger and steady cutter conditions while machining, and lessens vibrations.
- Compare with the saw blades in the market, this design helps in reducing lots of cutting resistances and lower the machining power. It's the best choice for long depth and difficult materials machining.

Other Brands



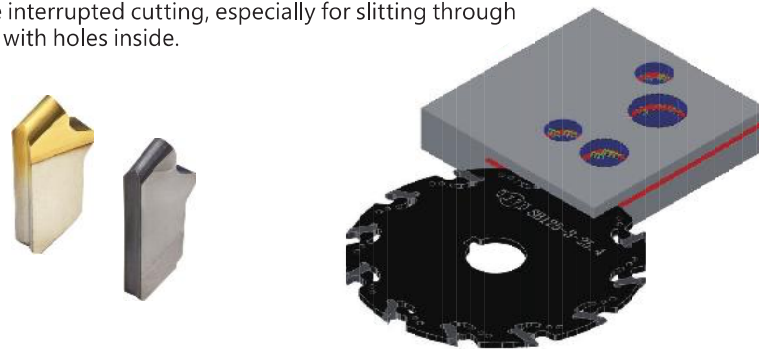
Characteristics

- While in deep grooving, chips easily get stuck in the workpiece slot.
- Requires heavy power and generates large resistance in machining.
- As a result, it gives a be poor efficiency and heavy vibrations while large contact machining.

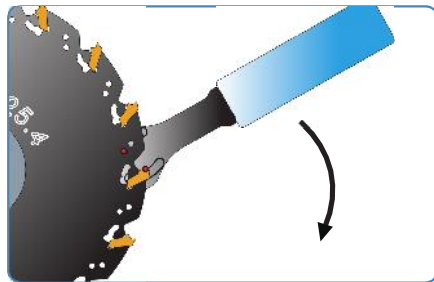
The Solution To Interrupted Cutting:

LNGT Radius Inserts

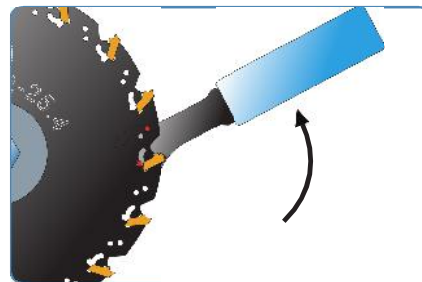
The radius insert with smooth entering cut provides excellent solution to the interrupted cutting, especially for slitting through the workpiece with holes inside.



Change The Inserts



Mount inserts



Remove inserts



Video

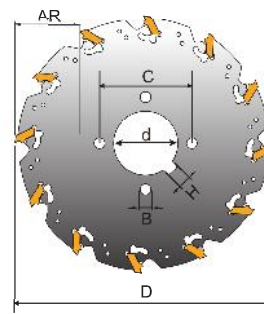


Before mousing inserts, use marker pen (oil-based) to wipe across the concave surface of the insert for helping fit the insert into the blade smoothly.

PRODUCT SPECIFICATIONS

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



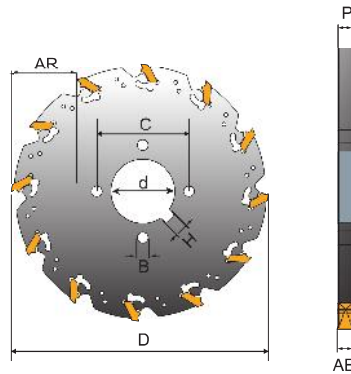
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Insert LNGT | Wrench |
|------------------|-----------------|------|--------|------|------|---|---|----|------|------|----------|-------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-1.4-13 | 50 | 1.4 | 14.5 | 1.2 | 13 | - | - | 4 | - | 0.07 | 12000 | 1414 | 150.10-30 |
| SB050-1.4-12.7 | | | | | 12.7 | | | 6 | | | | | |
| SB063-1.4-16 | 63 | | 18 | | 16 | | | | 8 | 6 | 0.09 | | |
| SB063-1.4-15.875 | | | 15.875 | | 6.35 | | | | | | | | |
| SB080-1.4-22 | 80 | | 22.5 | | 22 | | | 10 | 6 | 0.13 | 8000 | | |
| SB080-1.4-25.4 | | | 19.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-1.4-22 | 100 | | 32.5 | | 22 | | | 12 | 6 | 0.20 | 6300 | | |
| SB100-1.4-25.4 | | | 29.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-1.4-27 | | | | | 27 | | | | 7 | | | | |
| SB125-1.4-22 | 125 | | 45 | | 39 | | | 22 | 8 | 0.20 | 5000 | | |
| SB125-1.4-25.4 | | 25.4 | | 6.35 | | | | | | | | | |
| SB125-1.4-32 | | 32 | | 8 | | | | | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



SB

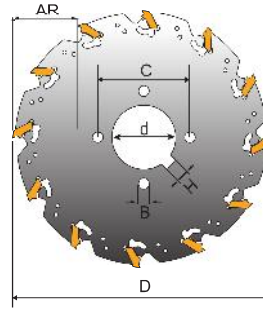
Slitting

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|------------------|-----------------|-----|------|-----|--------|---|---|----|------|------|----------|--------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-1.6-13 | 50 | 1.6 | 14.5 | 1.4 | 13 | - | - | 4 | - | 0.08 | 12000 | 1616 | 150.10-30 |
| SB050-1.6-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-1.6-16 | 63 | 1.6 | 18 | 1.4 | 16 | - | - | 6 | - | 0.09 | 11000 | 1616 | 150.10-30 |
| SB063-1.6-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-1.6-22 | 80 | 1.6 | 22.5 | 1.4 | 22 | - | - | 8 | 6 | 0.09 | 8000 | 1616 | 150.10-30 |
| SB080-1.6-25.4 | | | 19.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-1.6-22 | 100 | 1.6 | 32.5 | 1.4 | 22 | - | - | 10 | 6 | 0.14 | 6300 | 1616 | 150.10-30 |
| SB100-1.6-25.4 | | | 29.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-1.6-27 | | | 27 | | 7 | | | | | | | | |
| SB125-1.6-22 | 125 | 1.6 | 45 | 1.4 | 22 | - | - | 12 | 6 | 0.21 | 5000 | 1616 | 150.10-30 |
| SB125-1.6-25.4 | | | 42 | | 25.4 | | | | 6.35 | | | | |
| SB125-1.6-32 | | | 39 | | 32 | | | | 8 | | | | |
| SB160-1.6-25.4 | 160 | 1.6 | 59.5 | 1.4 | 25.4 | - | - | 16 | 6.35 | 0.35 | 4000 | 1616 | 150.10-30 |
| SB160-1.6-32 | | | 56.5 | | 32 | | | | 8 | | | | |
| SB160-1.6-40 | | | 52 | | 40 | | | | 10 | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



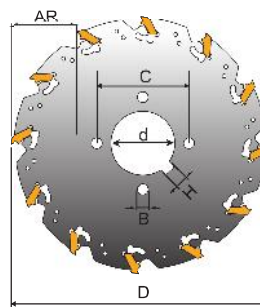
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|------------------|-----------------|-----|------|-----|--------|---|---|----|------|------|----------|--------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-1.8-13 | 50 | 1.8 | 14.5 | 1.6 | 13 | - | - | 4 | - | 0.09 | 12000 | 1818 | 150.10-30 |
| SB050-1.8-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-1.8-16 | 63 | 1.8 | 18 | 1.6 | 16 | - | - | 6 | - | 0.10 | 11000 | 1818 | 150.10-30 |
| SB063-1.8-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-1.8-22 | 80 | 1.8 | 22.5 | 1.6 | 22 | - | - | 8 | 6 | 0.10 | 8000 | 1818 | 150.10-30 |
| SB080-1.8-25.4 | | | | | 25.4 | | | | | | | | |
| SB100-1.8-22 | 100 | 1.8 | 32.5 | 1.6 | 22 | - | - | 10 | 6 | 0.15 | 6300 | 1818 | 150.10-30 |
| SB100-1.8-25.4 | | | | | 25.4 | | | | 6.35 | | | | |
| SB100-1.8-27 | | | | | 27 | | | | 7 | | | | |
| SB125-1.8-22 | 125 | 1.8 | 45 | 1.6 | 22 | - | - | 12 | 6 | 0.22 | 5000 | 1818 | 150.10-30 |
| SB125-1.8-25.4 | | | | | 25.4 | | | | 6.35 | | | | |
| SB125-1.8-32 | | | | | 32 | | | | 8 | | | | |
| SB160-1.8-25.4 | 160 | 1.8 | 59.5 | 1.6 | 25.4 | - | - | 16 | 6.35 | 0.38 | 4000 | 1818 | 150.10-30 |
| SB160-1.8-32 | | | | | 32 | | | | 8 | | | | |
| SB160-1.8-40 | | | | | 40 | | | | 10 | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



Slitting

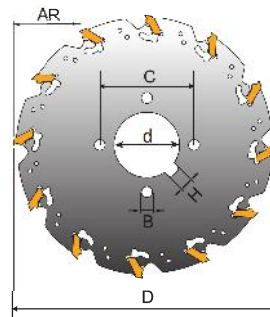
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|----------------|-----------------|------|------|------|--------|------|------|----|------|------|----------|----------------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-2-13 | 50 | 2.0 | 14.5 | 1.75 | 13 | - | - | 4 | - | 0.08 | 12000 | 2020 2022 2025 | 150.10-30 |
| SB050-2-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-2-16 | 63 | | 18 | | 16 | | | | | | | | |
| SB063-2-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-2-22 | 80 | | 22.5 | | 22 | | | 8 | 6 | 0.10 | 8000 | | |
| SB080-2-25.4 | | | 19.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-2-22 | 100 | | 32.5 | | 22 | | | 10 | 6 | 0.16 | 6300 | | |
| SB100-2-25.4 | | | 29.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-2-27 | | | 27 | | 7 | | | | | | | | |
| SB125-2-22 | 125 | | 45 | | 22 | | | 12 | 6 | 0.24 | 5000 | | |
| SB125-2-25.4 | | 42 | 25.4 | 6.35 | | | | | | | | | |
| SB125-2-32 | | 39 | 32 | 8 | | | | | | | | | |
| SB160-2-25.4 | 160 | 59.5 | 25.4 | 16 | 6.35 | 0.39 | 4000 | | | | | | |
| SB160-2-32 | | 56.5 | 32 | | 8 | | | | | | | | |
| SB160-2-40 | | 52 | 40 | | 10 | | | | | | | | |

* Wrench for above holders sold seperately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



Slitting

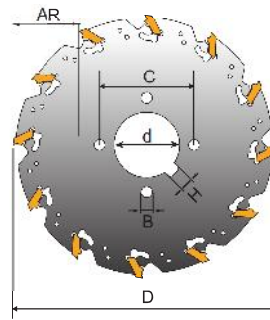
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench | |
|------------------|-----------------|-----|------|------|--------|---|---|----|------|------|----------|--------------|-----------|------|
| | D | AE | AR | P | d | C | B | | | | | | | |
| SB063-2.5-16 | 63 | 2.5 | 18 | 2.25 | 16 | - | - | 6 | - | 0.11 | 11000 | 2525 | 150.10-30 | |
| SB063-2.5-15.875 | | | | | 15.875 | | | | | | | | | |
| SB080-2.5-22 | 80 | 2.5 | 22.5 | 2.25 | 22 | - | - | 8 | 6 | 0.12 | 8000 | 2525 | 150.10-30 | |
| SB080-2.5-25.4 | | | 19.5 | | 25.4 | | | | | | | | | 6.35 |
| SB100-2.5-22 | 100 | 2.5 | 22.5 | 2.25 | 22 | - | - | 10 | 6 | 0.18 | 6300 | 2525 | 150.10-30 | |
| SB100-2.5-25.4 | | | | | 25.4 | | | | | | | | | 7 |
| SB100-2.5-27 | | | | | 27 | | | | | | | | | |
| SB125-2.5-22 | 125 | 3.0 | 45 | 2.25 | 22 | - | - | 12 | 6 | 0.27 | 5000 | 2527 | 150.10-30 | |
| SB125-2.5-25.4 | | | 42 | | 25.4 | | | | | | | | | 8 |
| SB125-2.5-32 | | | 39 | | 32 | | | | | | | | | |
| SB160-2.5-25.4 | 160 | 2.5 | 59.5 | 2.25 | 25.4 | - | - | 16 | 6.35 | 0.47 | 4000 | 2525 | 150.10-30 | |
| SB160-2.5-32 | | | 56.5 | | 32 | | | | | | | | | 10 |
| SB160-2.5-40 | | | 52 | | 40 | | | | | | | | | |
| SB200-2.5-25.4 | 200 | 2.5 | 79.5 | 2.25 | 25.4 | - | - | 20 | 6.35 | 0.73 | 3200 | 2525 | 150.10-30 | |
| SB200M-2.5-25.4 | | | | | | | | 26 | | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



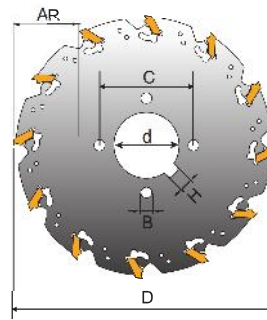
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|-----------------|-----------------|-----|-------|------|------|----|----|----|------|------|----------|--------------|--------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB200-2.5-32 | 200 | | 76.5 | 2.25 | 32 | 63 | 11 | 20 | 8 | 0.73 | 3200 | | |
| SB200M-2.5-32 | | | | | | | | 26 | | | | | |
| SB200-2.5-40 | | | 72 | | 40 | 90 | 20 | 10 | | | | | |
| SB200M-2.5-40 | | | | | | | 26 | | | | | | |
| SB250-2.5-25.4 | 250 | 2.5 | 104.5 | 2.25 | 25.4 | - | - | 26 | 6.35 | | | | |
| SB250M-2.5-25.4 | | | | | | | | 34 | | | | | |
| SB250-2.5-32 | | | 101.5 | | 32 | 63 | 11 | 26 | 8 | | | | |
| SB250M-2.5-32 | | | | | | | | 34 | | | | | |
| SB250-2.5-40 | | | 97 | | 40 | 90 | 26 | 10 | | | | | |
| SB250M-2.5-40 | | | | | | | 34 | | | | | | |
| SB300-2.5-25.4 | 300 | 2.7 | 129.5 | 2.25 | 25.4 | - | - | 30 | 6.35 | 2200 | | | |
| SB300M-2.5-25.4 | | | | | | | | 40 | | | | | |
| SB300-2.5-32 | | | 126.5 | | 32 | 63 | 11 | 30 | 8 | | | | |
| SB300M-2.5-32 | | | | | | | | 40 | | | | | |
| SB300-2.5-40 | | | 122 | | 40 | 90 | 30 | 10 | | | | | |
| SB300M-2.5-40 | | | | | | | 40 | | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



Slitting

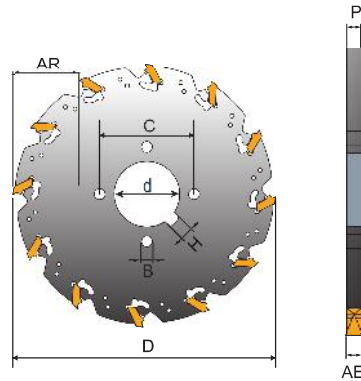
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|----------------|-----------------|-----|------|-----|--------|---|---|----|------|------|----------|--------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-3-13 | 50 | | 14.5 | | 13 | | | 4 | - | 0.10 | 12000 | | |
| SB050-3-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-3-16 | 63 | | 18 | | 16 | | | 6 | - | 0.11 | 11000 | | |
| SB063-3-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-3-22 | 80 | | 22.5 | | 22 | | | 8 | 6 | 0.13 | 8000 | | |
| SB080-3-25.4 | | | | | 25.4 | | | | | | | | |
| SB100-3-22 | 100 | 3.0 | 29.5 | 2.7 | 22 | | | 10 | 6.35 | 0.20 | 6300 | 3030 | 150.10-30 |
| SB100-3-25.4 | | | | | 25.4 | | | | | | | | |
| SB100-3-27 | | | | | 27 | | | | | | | | |
| SB125-3-22 | 125 | 3.5 | 45 | | 22 | | | 12 | 6 | 0.31 | 5000 | 3035 | |
| SB125-3-25.4 | | | | | 25.4 | | | | | | | | |
| SB125-3-32 | | | | | 32 | | | | | | | | |
| SB160-3-25.4 | 160 | | 59.5 | | 25.4 | | | 16 | 6.35 | 0.53 | 4000 | | |
| SB160-3-32 | | | | | 32 | | | | | | | | |
| SB160-3-40 | | | | | 40 | | | | | | | | |
| SB200-3-25.4 | 200 | | 79.5 | | 25.4 | | | 20 | 6.35 | 0.85 | 3200 | | |
| SB200M-3-25.4 | | | | | | | | 26 | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



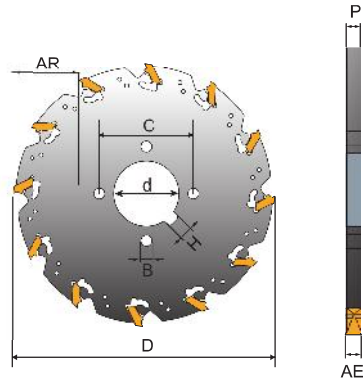
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | kg | MAX. RPM | Inserts LNKT | Wrench | | | | | | | | |
|---------------|-----------------|-----|-------|-----|------|-------|----|-----|------|------|----------|--------------|-----------|---|----|----|------|------|------|------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | | | | | | | | | |
| SB200-3-32 | 200 | | 76.5 | 2.7 | 32 | 63 | 11 | 20 | 8 | 0.85 | 3200 | | | | | | | | | | |
| SB200M-3-32 | | | | | | | | 26 | | | | | | | | | | | | | |
| SB200-3-40 | | | 20 | | 10 | | | | | | | | | | | | | | | | |
| SB200M-3-40 | | | | | | 26 | | | | | | | | | | | | | | | |
| SB250-3-25.4 | 250 | 3.0 | 104.5 | 2.7 | 25.4 | - | 11 | 26 | 6.35 | 1.38 | 2600 | 3030 | 150.10-30 | | | | | | | | |
| SB250M-3-25.4 | | | | | | | | 34 | | | | | | | | | | | | | |
| SB250-3-32 | | | 26 | | 8 | | | | | | | | | | | | | | | | |
| SB250M-3-32 | | | | | | 34 | | | | | | | | | | | | | | | |
| SB250-3-40 | | | 26 | | 10 | | | | | | | | | | | | | | | | |
| SB250M-3-40 | | | | | | 34 | | | | | | | | | | | | | | | |
| SB300-3-25.4 | | | 300 | | 3.2 | 129.5 | | 2.7 | 25.4 | | | | | - | 11 | 30 | 6.35 | 1.86 | 2200 | 3032 | 150.10-30 |
| SB300M-3-25.4 | | | | | | | | | | | | | | | | 40 | | | | | |
| SB300-3-32 | 30 | 8 | | | | | | | | | | | | | | | | | | | |
| SB300M-3-32 | | | | 40 | | | | | | | | | | | | | | | | | |
| SB300-3-40 | 30 | 10 | | | | | | | | | | | | | | | | | | | |
| SB300M-3-40 | | | | 40 | | | | | | | | | | | | | | | | | |
| SB300-3-40 | 122 | | | 40 | | 90 | 11 | | 30 | 10 | 2200 | | | | | | | | | | |
| SB300M-3-40 | | | | | | | | | | | | | | | | | 40 | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



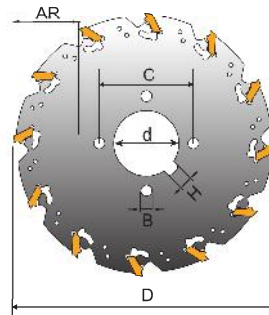
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|----------------|-----------------|-----|------|-----|--------|---|---|------|-------|------|-----------|--------------|--------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-4-13 | 50 | 4.0 | 14.5 | 3.7 | 13 | - | - | 0.09 | 12000 | 4040 | 150.10-30 | | |
| SB050-4-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-4-16 | 63 | 4.2 | 18 | 3.7 | 16 | - | - | 0.12 | 11000 | 4045 | 150.10-30 | | |
| SB063-4-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-4-22 | 80 | 4.5 | 19.5 | 3.7 | 22 | - | - | 0.15 | 8000 | 4045 | 150.10-30 | | |
| SB080-4-25.4 | | | | | 25.4 | | | | | | | | |
| SB100-4-22 | 100 | 4.0 | 22.5 | 3.7 | 22 | - | - | 0.25 | 6300 | 4040 | 150.10-30 | | |
| SB100-4-25.4 | | | | | 25.4 | | | | | | | | |
| SB100-4-27 | | | | | 27 | | | | | | | | |
| SB125-4-22 | 125 | 4.5 | 29.5 | 3.7 | 22 | - | - | 0.40 | 5000 | 4045 | 150.10-30 | | |
| SB125-4-25.4 | | | | | 25.4 | | | | | | | | |
| SB125-4-32 | | | | | 32 | | | | | | | | |
| SB160-4-25.4 | 160 | 4.5 | 39 | 3.7 | 25.4 | - | - | 0.66 | 4000 | 4045 | 150.10-30 | | |
| SB160-4-32 | | | | | 32 | | | | | | | | |
| SB160-4-40 | | | | | 40 | | | | | | | | |
| SB200-4-25.4 | 200 | 4.5 | 52 | 3.7 | 25.4 | - | - | 1.02 | 3200 | 4045 | 150.10-30 | | |
| SB200M-4-25.4 | | | | | 25.4 | | | | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



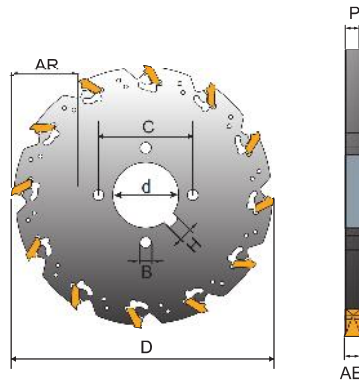
SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench |
|---------------|-----------------|-----|-------|-----|------|----|----|----|------|------|----------|----------------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB200-4-32 | 200 | 4.0 | 76.5 | 3.7 | 32 | 63 | 11 | 20 | 8 | 1.02 | 3200 | 4040 4042 4045 | 150.10-30 |
| SB200M-4-32 | | | | | | | | 26 | | | | | |
| SB200-4-40 | | | 72 | | 40 | 90 | | 20 | 10 | | | | |
| SB200M-4-40 | | | | | | | | 26 | | | | | |
| SB250-4-25.4 | 250 | 4.0 | 104.5 | 3.7 | 25.4 | - | - | 26 | 6.35 | 1.69 | 2600 | 4040 4042 4045 | 150.10-30 |
| SB250M-4-25.4 | | | | | | | 34 | | | | | | |
| SB250-4-32 | | | 101.5 | | 32 | 63 | 26 | 8 | | | | | |
| SB250M-4-32 | | | | | | | 34 | | | | | | |
| SB250-4-40 | | | 97 | | 40 | 90 | 26 | 10 | | | | | |
| SB250M-4-40 | | | | | | | 34 | | | | | | |
| SB300-4-25.4 | 300 | 4.5 | 129.5 | 3.7 | 25.4 | - | - | 30 | 6.35 | 2.18 | 2200 | 4040 4042 4045 | 150.10-30 |
| SB300M-4-25.4 | | | | | | | 40 | | | | | | |
| SB300-4-32 | | | 126.5 | | 32 | 63 | 30 | 8 | | | | | |
| SB300M-4-32 | | | | | | | 40 | | | | | | |
| SB300-4-40 | | | 122 | | 40 | 90 | 30 | 10 | | | | | |
| SB300M-4-40 | | | | | | | 40 | | | | | | |

* Wrench for above holders sold separately.

Saw Blades

- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



SB

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNKT | Wrench |
|----------------|-----------------|-----|------|-----|--------|---|---|----|------|------|----------|----------------------|--------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SB050-5-13 | 50 | 5.0 | 14.5 | 4.5 | 13 | - | - | 4 | - | 0.13 | 12000 | | |
| SB050-5-12.7 | | | | | 12.7 | | | | | | | | |
| SB063-5-16 | 63 | 5.0 | 18 | 4.5 | 16 | - | - | 6 | - | 0.13 | 11000 | | |
| SB063-5-15.875 | | | | | 15.875 | | | | | | | | |
| SB080-5-22 | 80 | 5.0 | 22.5 | 4.5 | 22 | - | - | 8 | 6 | 0.18 | 8000 | | |
| SB080-5-25.4 | | | 19.5 | | 25.4 | | | | 6.35 | | | | |
| SB100-5-22 | 100 | 5.0 | 32.5 | 4.5 | 22 | - | - | 10 | 6 | 0.28 | 6300 | 5050 5052 5055 | |
| SB100-5-25.4 | | 5.2 | 25.4 | | 6.35 | | | | | | | | |
| SB100-5-27 | | 5.5 | 27 | | 7 | | | | | | | | |
| SB125-5-22 | 125 | 5.0 | 45 | 4.5 | 22 | - | - | 12 | 6 | 0.45 | 5000 | | |
| SB125-5-25.4 | | | 42 | | 25.4 | | | | 6.35 | | | | |
| SB125-5-32 | | | 39 | | 32 | | | | 8 | | | | |
| SB160-5-25.4 | 160 | 5.0 | 59.5 | 4.5 | 25.4 | - | - | 16 | 6.35 | 0.75 | 4000 | | |
| SB160-5-32 | | | 56.5 | | 32 | | | | 8 | | | | |
| SB160-5-40 | | | 52 | | 40 | | | | 10 | | | | |

* Wrench for above holders sold separately.

ADAPTER HOLDER SERIES



Video

Features

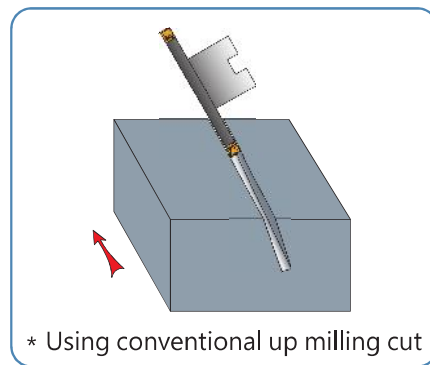
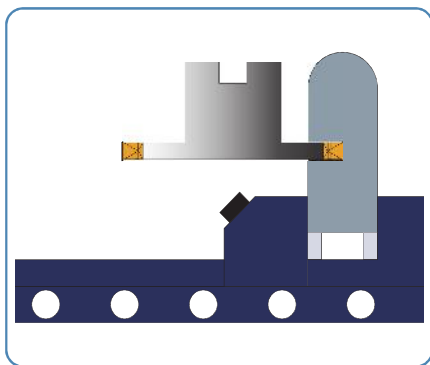
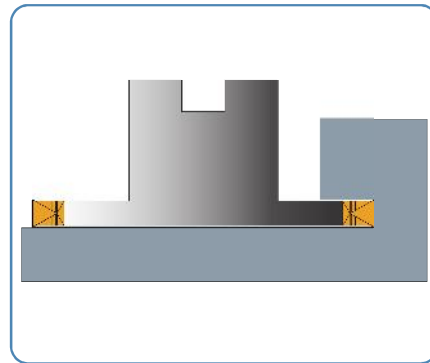
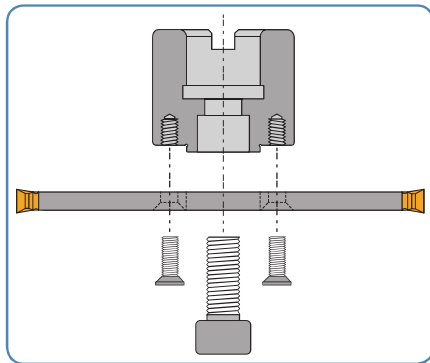


New
System
For T-Slot
Milling

ADAPTER HOLDER

Slitting / Slotting / Cut-off

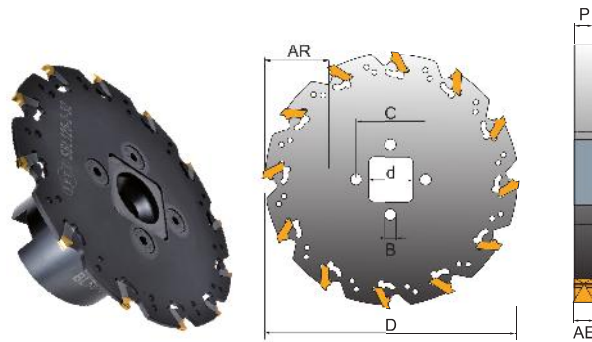
Slotting



PRODUCT SPECIFICATIONS

Saw Milling Cutters

- Adapter Holders P. 154
- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



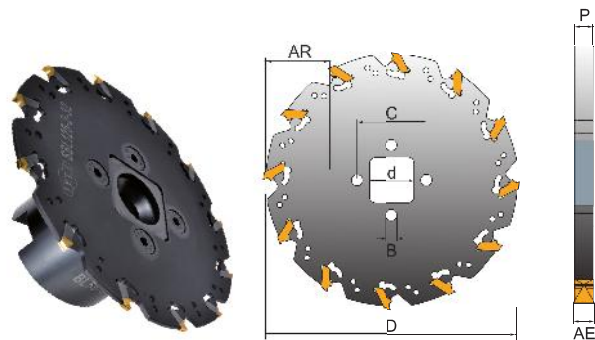
SBL

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGT | Wrench | |
|---------------|-----------------|-----|------|-----|----|----|---|----|---|------|----------|--------------|-----------|------|
| | D | AE | AR | P | d | C | B | | | | | | | |
| SBL080-1.4-22 | 80 | 1.4 | 17 | 1.2 | 22 | 34 | 5 | 8 | - | 0.08 | 8000 | 1414 | 150.10-30 | |
| SBL100-1.4-22 | 100 | | 27 | | | | | 10 | | 0.13 | | | | 6300 |
| SBL125-1.4-32 | 125 | | 33 | | | | | 12 | | 0.18 | | | | 5000 |
| SBL160-1.4-32 | 160 | | 50.5 | | | | | 16 | | 0.33 | | | | 4000 |
| SBL080-1.6-22 | 80 | 1.6 | 17 | 1.4 | 22 | 34 | 5 | 8 | - | 0.09 | 8000 | 1616 | 150.10-30 | |
| SBL100-1.6-22 | 100 | | 27 | | | | | 10 | | 0.14 | | | | 6300 |
| SBL125-1.6-32 | 125 | | 33 | | | | | 12 | | 0.19 | | | | 5000 |
| SBL160-1.6-32 | 160 | | 50.5 | | | | | 16 | | 0.35 | | | | 4000 |

* Wrench for above holders sold separately.

Saw Milling Cutters

- Adapter Holders P. 154
- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



Slotting

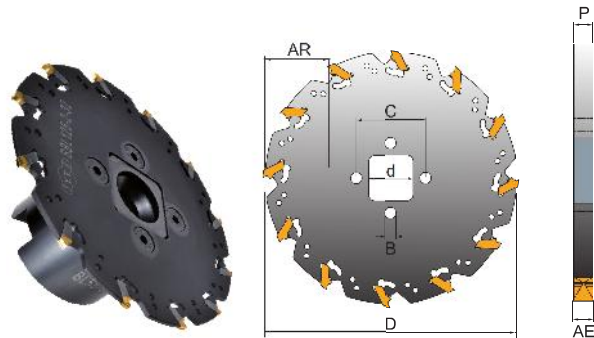
SBL

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNKT | Wrench |
|---------------|-----------------|-----|------|------|----|----|---|----|---|------|----------|----------------------|-----------|
| | D | AE | AR | P | d | C | B | | | | | | |
| SBL080-1.8-22 | 80 | 1.8 | 17 | 1.6 | 22 | 34 | 5 | 8 | - | 0.10 | 8000 | 1818 | 150.10-30 |
| SBL100-1.8-22 | 100 | | 27 | | | | | 10 | | 0.15 | 6300 | | |
| SBL125-1.8-32 | 125 | | 33 | | | | | 12 | | 0.21 | 5000 | | |
| SBL160-1.8-32 | 160 | | 50.5 | | | | | 16 | | 0.37 | 4000 | | |
| SBL080-2-22 | 80 | 2.0 | 17 | 1.75 | 22 | 34 | 5 | 8 | - | 0.10 | 8000 | 2020 2022 2025 | 150.10-30 |
| SBL100-2-22 | 100 | | 27 | | | | | 10 | | 0.15 | 6300 | | |
| SBL125-2-32 | 125 | | 33 | | | | | 12 | | 0.22 | 5000 | | |
| SBL160-2-32 | 160 | | 50.5 | | | | | 16 | | 0.39 | 4000 | | |
| SBL080-2.5-22 | 80 | 2.5 | 17 | 2.25 | 22 | 34 | 5 | 8 | - | 0.11 | 8000 | 2525 2527 2530 | 150.10-30 |
| SBL100-2.5-22 | 100 | | 27 | | | | | 10 | | 0.17 | 6300 | | |
| SBL125-2.5-32 | 125 | | 33 | | | | | 12 | | 0.26 | 5000 | | |
| SBL160-2.5-32 | 160 | | 50.5 | | | | | 16 | | 0.45 | 4000 | | |

* Wrench for above holders sold separately.

Saw Milling Cutters

- Adapter Holders P. 154
- Inserts P. 182 - 189
- Cutting Data P. 193 - 195



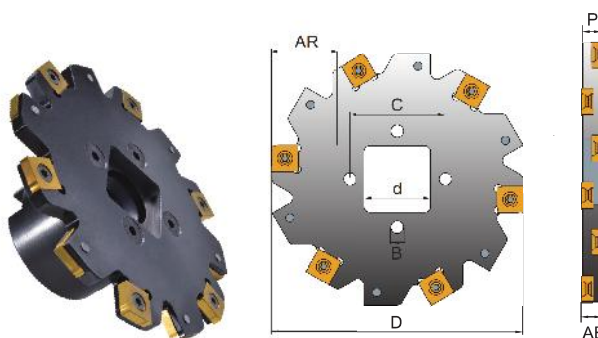
SBL

| Order Code | Dimensions (mm) | | | | | | | Z | H | KG | MAX. RPM | Inserts LNGLT | Wrench | |
|-------------|-----------------|------|------|-----|----|----|---|------|---|------|----------|---------------|-----------|------|
| | D | AE | AR | P | d | C | B | | | | | | | |
| SBL080-3-22 | 80 | 3.0 | 17 | 2.7 | 22 | 34 | 5 | 8 | - | 0.12 | 8000 | 3030 | 150.10-30 | |
| SBL100-3-22 | 100 | | 27 | | | | | 10 | | 0.20 | 6300 | | | 3032 |
| SBL125-3-32 | 125 | | 33 | | | | | 12 | | 0.29 | 5000 | | | 3035 |
| SBL160-3-32 | 160 | | 50.5 | | | | | 16 | | 0.51 | 4000 | | | |
| SBL080-4-22 | 80 | 4.0 | 17 | 3.7 | 22 | 34 | 5 | 8 | - | 0.15 | 8000 | 4040 | 150.10-30 | |
| SBL100-4-22 | 100 | 27 | 10 | | | | | 0.24 | | 6300 | 4042 | | | |
| SBL125-4-32 | 125 | 33 | 12 | | | | | 0.36 | | 5000 | 4045 | | | |
| SBL160-4-32 | 160 | 50.5 | 16 | | | | | 0.64 | | 4000 | | | | |
| SBL080-5-22 | 80 | 5.0 | 17 | 4.5 | 22 | 34 | 5 | 8 | - | 0.17 | 8000 | 5050 | 150.10-30 | |
| SBL100-5-22 | 100 | 27 | 10 | | | | | 0.27 | | 6300 | 5052 | | | |
| SBL125-5-32 | 125 | 33 | 12 | | | | | 0.42 | | 5000 | 5055 | | | |
| SBL160-5-32 | 160 | 50.5 | 16 | | | | | 0.74 | | 4000 | | | | |

* Wrench for above holders sold seperately.

Side Milling Cutters

- Adapter Holders P. 154
- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

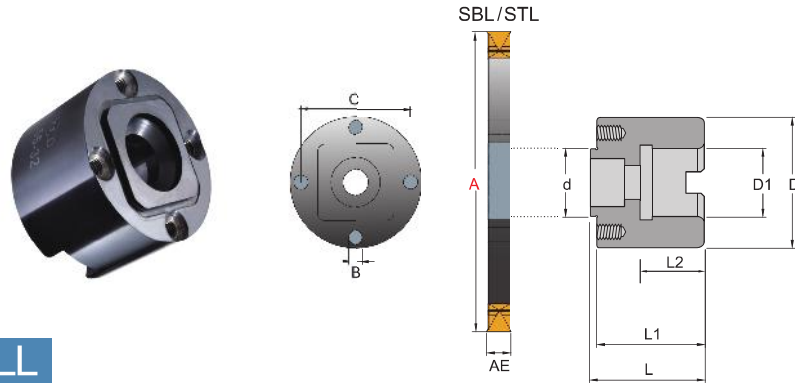


STL

| Order Code | Dimensions (mm) | | | | | | | Z | Zc | kg | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|-------------|-----------------|----|------|-----|----|----|---|----|----|------|----------|-------------------|-------|------|
| | D | AE | AR | P | d | C | B | | | | | | | |
| STL080-4-22 | 80 | 4 | 17 | 3.4 | 22 | 34 | 5 | 8 | 4 | 0.16 | 13700 | 1102 | T9354 | T09P |
| STL080-5-22 | | 5 | | 4.2 | | | | | | | | 1103 | T9355 | T08P |
| STL100-4-22 | 100 | 4 | 27 | 3.4 | 32 | 46 | 6 | 10 | 5 | 0.26 | 12000 | 1102 | T9354 | T09P |
| STL100-5-22 | | 5 | | 4.2 | | | | | | | | 1103 | T9355 | T08P |
| STL125-4-32 | 125 | 4 | 33 | 3.4 | 32 | 46 | 6 | 12 | 6 | 0.37 | 10900 | 1102 | T9354 | T09P |
| STL125-5-32 | | 5 | | 4.2 | | | | | | | | 1103 | T9355 | T08P |
| STL160-4-32 | 160 | 4 | 50.5 | 3.4 | 32 | 46 | 6 | 16 | 8 | 0.68 | 8300 | 1102 | T9354 | T09P |
| STL160-5-32 | | 5 | | 4.2 | | | | | | | | 1103 | T9355 | T08P |

* Wrench for above holders sold separately.

Adapter Holders



BL / BLL

| Order Code | Dimensions (mm) | | | | | | | | | KG | Available AE | |
|-------------|-----------------|-------|----|----|---|----|------|----|-----|------|--------------|-----|
| | D | D1 | d | C | B | L | L1 | L2 | A | | | |
| BL45-22 | 45 | 22 | 22 | 34 | 5 | 43 | 41.8 | 27 | 80 | 0.47 | | |
| BL45-25.4 | | 25.4 | | | | 45 | | | | | | 100 |
| BL58-31.75 | 58 | 31.75 | 32 | 46 | 6 | 55 | 53.8 | 28 | 125 | 0.95 | | |
| BL58-32 | | 32 | | | | | | | 160 | | | |
| BLL45-22 | 45 | 22 | 22 | 34 | 5 | 43 | 40.5 | 27 | 80 | 0.47 | | |
| BLL45-25.4 | | 25.4 | | | | 45 | | | 100 | | | |
| BLL58-31.75 | 58 | 31.75 | 32 | 46 | 6 | 55 | 52.5 | 28 | 125 | 0.95 | | |
| BLL58-32 | | 32 | | | | | | | 160 | | | |

* Please follow the step 1、2、3 to choose the cutter and holder to match: 1. Available AE 2. "d" size 3. "D1" size.

Standard Spare Parts

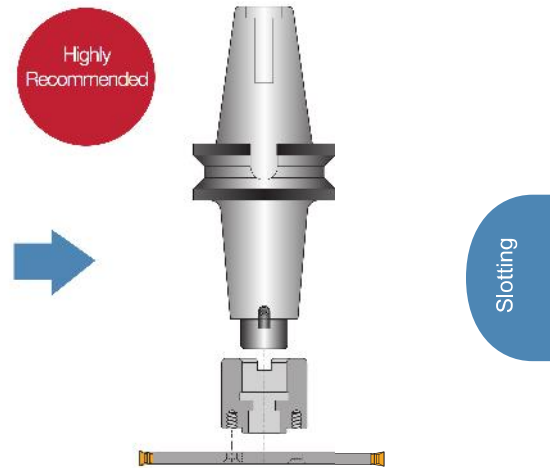
| Holder | Screw | Holder | Screw | Arbor Screw |
|------------|--------|-------------|--------|-----------------------|
| BL45-22 | C90512 | BLL45-22 | C90512 | M1035 |
| BL45-25.4 | | BLL45-25.4 | | M1235 |
| BL58-31.75 | C90612 | BLL58-31.75 | C90612 | M1235/M1635/ W2403 |
| BL58-32 | | BLL58-32 | | M1635 |

SOLUTION-1

SBL/STL Series



Face Milling Arbor:
Better strength with shorter
length and bigger diameter

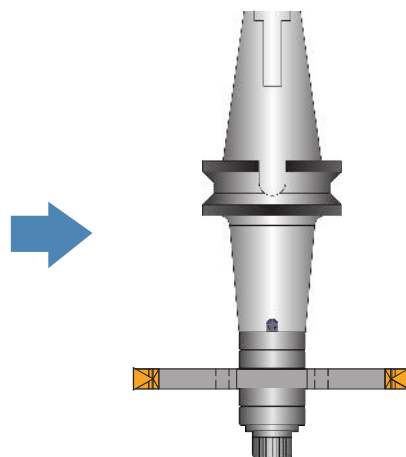


SOLUTION-2

SB Series



Side Milling Arbor:
Poor strength with longer
length and smaller diameter



It might cause mechanism interferences.

ADAPTER HOLDER SERIES



Features

Available in materials

P K M
N S H

Cost
200~300%
SAVING

Applicable
Machines
Milling machine

Efficiency
300~500%
UP

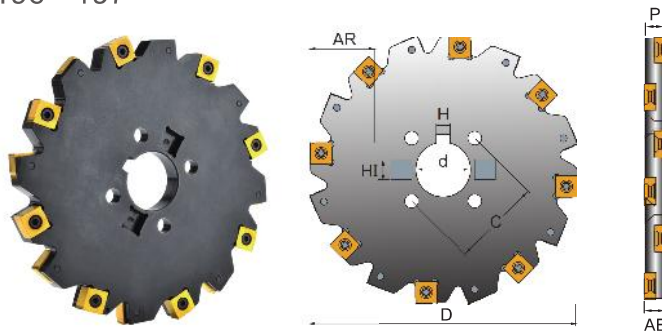
Durability
300%
UP

PRODUCT SPECIFICATIONS

Side Milling Cutters

- Adapter Holders P. 160
- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

Slotting

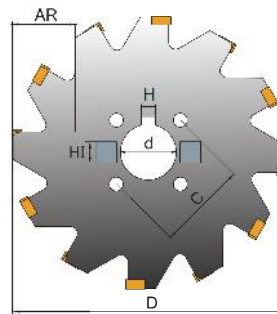


SCL

| Order Code | Dimensions (mm) | | | | | | | | | Z | Zc | kg | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|---------------|-----------------|----|------|----|----|----|----|-------|----|----|----|------|----------|-------------------|-------|-----|
| | D | AE | AR | P | H | C | d | HI | | | | | | | | |
| SCL-160-6-32 | 160 | 6 | 46.5 | 5 | 8 | 52 | 32 | | 16 | 8 | | 8300 | 1203 | T945 | | |
| SCL-160-8-32 | | 8 | | 7 | | | | | | | | | 12045 | T947 | | |
| SCL-160-10-32 | | 10 | | 9 | | | | | | | | | 1205 | T948 | | |
| SCL-160-12-32 | | 12 | | 11 | | | | | | | | | 1207 | T9411 | | |
| SCL-200-6-40 | 200 | 6 | 54 | 5 | 10 | 70 | 40 | 12X12 | 18 | 9 | | 4200 | 1203 | T945 | T15P | |
| SCL-200-8-40 | | 8 | | 7 | | | | | | | | | 12045 | T947 | | |
| SCL-200-10-40 | | 10 | | 9 | | | | | | | | | 1205 | T948 | | |
| SCL-200-12-40 | | 12 | | 11 | | | | | | | | | 1207 | T9411 | | |
| SCL-250-6-40 | 250 | 6 | 79 | 5 | 10 | 70 | 40 | 12X12 | 24 | 12 | | 3800 | 1203 | T945 | | |
| SCL-250-8-40 | | 8 | | 7 | | | | | | | | | 12045 | T947 | | |
| SCL-250-10-40 | | 10 | | 9 | | | | | | | | | 1205 | T948 | | |
| SCL-250-12-40 | | 12 | | 11 | | | | | | | | | 1207 | T9411 | | |

Disc Milling Cutters

- Adapter Holders P. 160
- Inserts P. 193
- Cutting Data P. 198-199



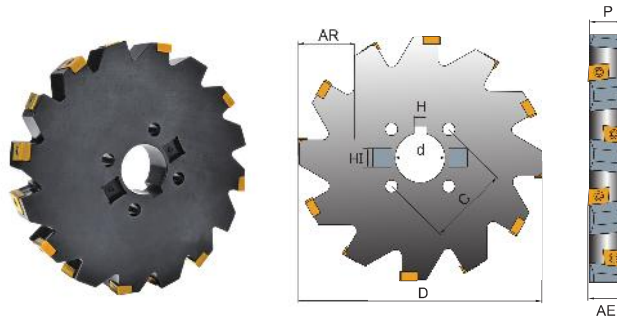
CEL

| Order Code | Dimensions (mm) | | | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key |
|---------------|-----------------|----|------|------|----|----|----|-------|------|------|------|----------|--------------|-------|-----|
| | D | AE | AR | P | H | C | d | HI | | | | | | | |
| CEL-160-14-32 | 160 | 14 | 46.5 | 12.5 | 8 | 52 | 32 | 12 | 6 | 1.72 | 6900 | 1005 | C04011 | T15P | |
| CEL-160-16-32 | | 16 | | 14.5 | | | | | | 1.95 | | | | | |
| CEL-160-18-32 | | 18 | | 16.5 | | | | | | 2.19 | | | | | |
| CEL-160-20-32 | | 20 | | 18.5 | | | | | | 2.44 | | 1305 | | | |
| CEL-160-22-32 | | 22 | | 20.5 | | | | | | 2.68 | | | | | |
| CEL-160-25-32 | | 25 | | 23.5 | | | | | | 3.04 | | | | | |
| CEL-160-30-32 | | 30 | | 28.5 | | | | | | 3.64 | | 1605 | | | |
| CEL-200-14-40 | 200 | 14 | 54 | 12.5 | 10 | 70 | 40 | 12X12 | 16 | 8 | 2.68 | 1005 | C04011 | T15P | |
| CEL-200-16-40 | | 16 | | 14.5 | | | | | | | 3.06 | | | | |
| CEL-200-18-40 | | 18 | | 16.5 | | | | | | | 3.44 | | | | |
| CEL-200-20-40 | | 20 | | 18.5 | | | | | | | 3.82 | 1305 | | | |
| CEL-200-22-40 | | 22 | | 20.5 | | | | | 4.20 | | | | | | |
| CEL-200-25-40 | | 25 | | 23.5 | | | | | 4.77 | | | | | | |
| CEL-200-30-40 | | 30 | | 28.5 | | | | | 5.72 | 1605 | | | | | |

Disc Milling Cutters

- Adapter Holders P. 160
- Inserts P. 193
- Cutting Data P. 198 -199

Slotting

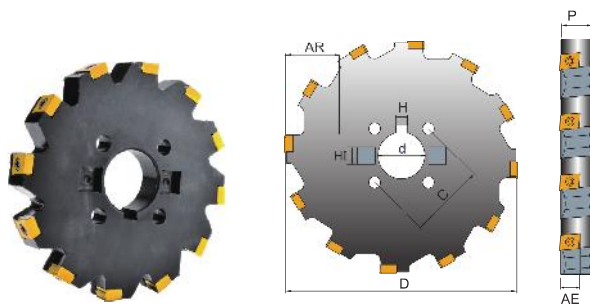


CEL

| Order Code | Dimensions (mm) | | | | | | | | Z | Zc | kg | MAX. RPM | Inserts CNGX | Screw | Key | |
|---------------|-----------------|----|----|------|----|----|----|-------|------|----|------|----------|--------------|--------|------|------|
| | D | AE | AR | P | H | C | d | HI | | | | | | | | |
| CEL-250-14-40 | 250 | 14 | 79 | 12.5 | 10 | 70 | 40 | 12X12 | 20 | 10 | 3.20 | 5500 | 1005 | C04011 | T15P | |
| CEL-250-16-40 | | 16 | | 14.5 | | | | | | | 3.72 | | | | | |
| CEL-250-18-40 | | 18 | | 16.5 | | | | | | | 4.24 | | | | | |
| CEL-250-20-40 | | 20 | | 18.5 | | | | | | | 4.76 | | | | | |
| CEL-250-22-40 | | 22 | | 20.5 | | | | | 5.28 | 16 | 8 | | 6.06 | | | 1605 |
| CEL-250-25-40 | | 25 | | 23.5 | | | | | 7.36 | | | | | | | |
| CEL-250-30-40 | | 30 | | 28.5 | | | | | | | | | | | | |

Back Milling Cutters

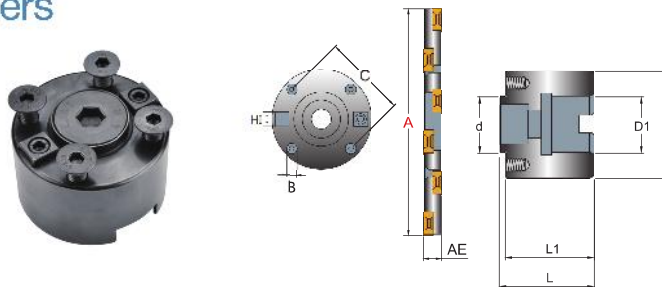
- Adapter Holders P. 160
- Inserts P. 193
- Cutting Data P. 198 -199



CWL

| Order Code | Dimensions(mm) | | | | | | | | Z | KG | MAX. RPM | Inserts CNGX | Screw | Key |
|------------|----------------|----|------|------|----|----|----|-------|----|------|----------|--------------|--------|------|
| | D | AE | AR | P | H | C | d | HI | | | | | | |
| CWL-160-32 | 160 | | 46.5 | | 8 | 52 | 32 | | 16 | 1.90 | 6900 | | | |
| CWL-200-40 | 200 | 12 | 54 | 16.5 | | | | 12X12 | 20 | 2.30 | 6100 | 1305 | C04011 | T15P |
| CWL-250-40 | 250 | | 79 | | 10 | 70 | 40 | | 24 | 3.20 | 5500 | | | |

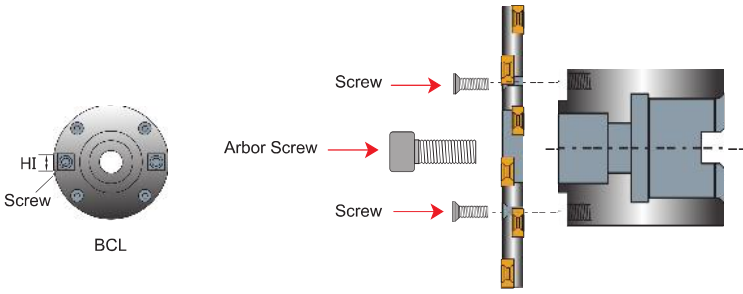
Adapter Holders



BCL

| Order Code | Dimensions (mm) | | | | | | | | | KG |
|-------------|-----------------|-------|----|----|---|----|------|------------|-------|------|
| | D | D1 | d | C | B | L | L1 | A | HI | |
| BCL65-32 | 65 | 32 | 32 | 52 | 8 | 50 | 44.5 | 160 | 12X12 | 0.84 |
| BCL65-31.75 | | 31.75 | | | | | | | | |
| BCL65-40 | | 40 | | | | | | | | |
| BCL65-38.1 | | 38.1 | | | | | | | | |
| BCL90-40 | 90 | 40 | 40 | 70 | 8 | 60 | 54.5 | 200 250 | 12X12 | 2.29 |
| BCL90-38.1 | | 38.1 | | | | | | | | |
| BCL90-60 | | 60 | | | | | | | | |
| BCL90-50.8 | | 50.8 | | | | | | | | |

Standard Spare Parts



Slotting

| Holders | Screw | Arbor Screw | HI+Screw | Holders | Screw | Arbor Screw | HI+Screw | | |
|---------------|---------------|---------------|------------------------|---------------|--------|-------------|------------------------|--------|--------|
| SCL-160-6-32 | C90815 | M1635 | W12.12.8 + M0510 | CEL-160-14-32 | C90820 | M1635 | W12.12.8 + M0510 | | |
| SCL-160-8-32 | C90820 | | | CEL-160-16-32 | C90825 | | | | |
| SCL-160-10-32 | | | | CEL-160-18-32 | C90830 | | | | |
| SCL-160-12-32 | | | | CEL-160-20-32 | | | | | |
| SCL-200-6-40 | C90815 | | | CEL-160-22-32 | C90835 | | | | |
| SCL-200-8-40 | C90820 | | | CEL-160-25-32 | C90820 | | | | |
| SCL-200-10-40 | | | | CEL-160-30-32 | | | | | |
| SCL-200-12-40 | C90815 | | | CEL-200-14-40 | C90825 | | | | |
| SCL-250-6-40 | C90815 | | | CEL-200-16-40 | | | | | |
| SCL-250-8-40 | | | | CEL-200-18-40 | | | | | |
| SCL-250-10-40 | C90820 | | | CEL-200-20-40 | | | | C90830 | |
| SCL-250-12-40 | | | | CEL-200-22-40 | | | | | |
| CWL-160-32 | C90825 | | | CEL-200-25-40 | | | | C90835 | |
| CWL-200-40 | | | | CEL-200-30-40 | | | | | |
| CWL-250-40 | | | | CEL-250-14-40 | | | | | C90820 |
| | | | | CEL-250-16-40 | | | | | |
| | CEL-250-18-40 | | | | | | | | |
| | CEL-250-20-40 | | | | | | | | |
| | CEL-250-22-40 | C90830 | | | | | | | |
| | CEL-250-25-40 | | | | | | | | |
| | | CEL-250-30-40 | C90835 | | | | | | |

SIDE MILLING CUTTER



Video

Features

Available in materials

P K M
N S H

Cost
200~300%
SAVING

Applicable
Machines
Milling machine

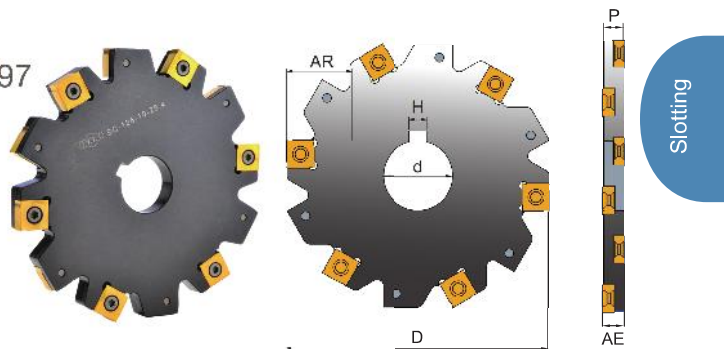
Efficiency
300~500%
UP

Durability
300%
UP

PRODUCT SPECIFICATIONS

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

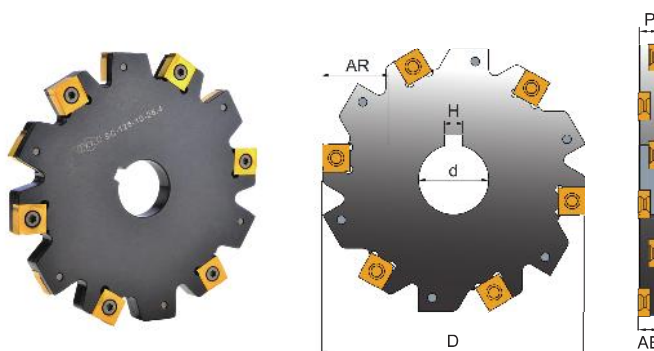


SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key | | | | |
|---------------|-----------------|------|------|-------|-------|----|---|----|-------|----------|-------------------|-------|-----|-------|------|-------|------|
| | D | AE | AR | P | H | d | | | | | | | | | | | |
| SC-80-4-22 | 80 | 4 | 22.5 | 3.4 | 6 | 22 | 8 | 4 | 13700 | 1102 | T9354 | T09P | | | | | |
| SC-80-5-22 | | 5 | | 4.2 | | | | | | 1103 | T9355 | T08P | | | | | |
| SC-80-6-22 | | 6 | | 5 | | | | | | 1203 | T945 | T15P | | | | | |
| SC-80-7-22 | | 7 | 6 | 1204 | | | | | | T946 | | | | | | | |
| SC-80-8-22 | | 8 | 7 | 12045 | | | | | | T947 | | | | | | | |
| SC-80-10-22 | | 10 | 9 | 1205 | | | | | | T948 | | | | | | | |
| SC-80-12-22 | | 12 | 11 | 1207 | | | | | | T9411 | | | | | | | |
| SC-80-4-25.4 | | 19.5 | 4 | 3.4 | | | | | | 6.35 | 25.4 | 8 | 4 | 13700 | 1102 | T9354 | T09P |
| SC-80-5-25.4 | | | 5 | 4.2 | | | | | | | | | | | 1103 | T9355 | T08P |
| SC-80-6-25.4 | | | 6 | 5 | | | | | | | | | | | 1203 | T945 | T15P |
| SC-80-7-25.4 | 7 | | 6 | 1204 | T946 | | | | | | | | | | | | |
| SC-80-8-25.4 | 8 | | 7 | 12045 | T947 | | | | | | | | | | | | |
| SC-80-10-25.4 | 10 | | 9 | 1205 | T948 | | | | | | | | | | | | |
| SC-80-12-25.4 | 12 | | 11 | 1207 | T9411 | | | | | | | | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

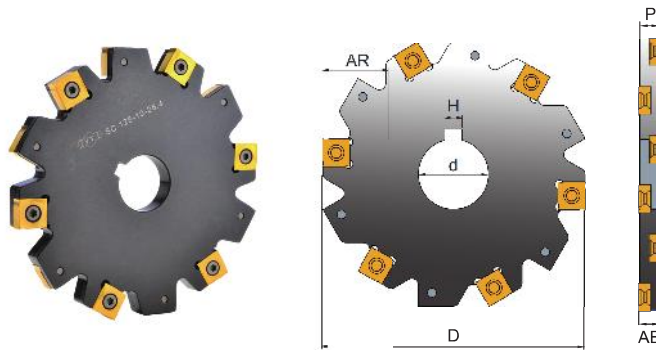


SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | kg | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|----------------|-----------------|----|------|------|------|-------|------|-------|-------|----------|-------------------|-------|------|
| | D | AE | AR | P | H | d | | | | | | | |
| SC-100-4-25.4 | 100 | 4 | 29,5 | 3.4 | 6.35 | 25.4 | 10 | 5 | 12000 | 0.23 | 1102 | T9354 | T09P |
| SC-100-5-25.4 | | 5 | | 4.2 | | | | | | 0.26 | 1103 | T9355 | T08P |
| SC-100-6-25.4 | | 6 | | 5 | | | | | | 0.32 | 1203 | T945 | T15P |
| SC-100-7-25.4 | | 7 | | 6 | | | | | | 0.36 | 1204 | T946 | |
| SC-100-8-25.4 | | 8 | | 7 | | | | | | 0.39 | 12045 | T947 | |
| SC-100-10-25.4 | | 10 | | 9 | | | | | | 0.46 | 1205 | T948 | |
| SC-100-12-25.4 | | 12 | 11 | 0.54 | 1207 | T9411 | | | | | | | |
| SC-100-4-27 | | 4 | 29,5 | 3.4 | 7 | 27 | | | | 0.23 | 1102 | T9354 | |
| SC-100-5-27 | | 5 | | 4.2 | | | | | | 0.26 | 1103 | T9355 | T08P |
| SC-100-6-27 | | 6 | | 5 | | | | | | 0.31 | 1203 | T945 | T15P |
| SC-100-7-27 | | 7 | | 6 | | | | | | 0.35 | 1204 | T946 | |
| SC-100-8-27 | | 8 | | 7 | | | | | | 0.39 | 12045 | T947 | |
| SC-100-10-27 | 10 | 9 | | 0.46 | | | 1205 | T948 | | | | | |
| SC-100-12-27 | 12 | 11 | | 0.53 | | | 1207 | T9411 | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

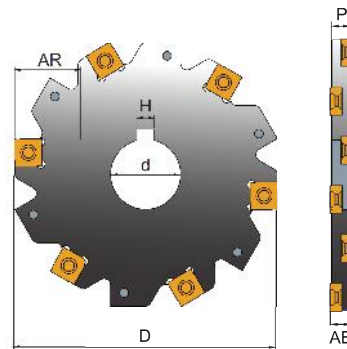


SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|--------------|-----------------|----|------|-----|----|----|----|----|-------|----------|-------------------|-------|-----|
| | D | AE | AR | P | H | d | | | | | | | |
| SC-125-4-32 | 125 | 4 | 39 | 3.4 | 8 | 32 | 12 | 6 | 10900 | 1102 | T9354 | T09P | |
| SC-125-5-32 | | 5 | | 4.2 | | | | | | T15P | | | |
| SC-125-6-32 | | 6 | | 5 | | | | | | | | | |
| SC-125-7-32 | | 7 | | 6 | | | | | | | | | |
| SC-125-8-32 | | 8 | | 7 | | | | | | | | | |
| SC-125-10-32 | | 10 | | 9 | | | | | | | | | |
| SC-125-12-32 | | 12 | 11 | | | | | | | | | | |
| SC-125-4-40 | | 4 | 34.5 | 3.4 | 10 | 40 | | | | 1102 | T9354 | T09P | |
| SC-125-5-40 | | 5 | | 4.2 | | | | | | T15P | | | |
| SC-125-6-40 | | 6 | | 5 | | | | | | | | | |
| SC-125-7-40 | | 7 | | 6 | | | | | | | | | |
| SC-125-8-40 | | 8 | | 7 | | | | | | | | | |
| SC-125-10-40 | 10 | 9 | | | | | | | | | | | |
| SC-125-12-40 | 12 | 11 | | | | | | | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

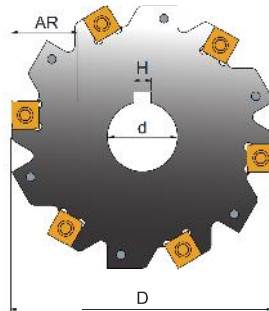


SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key | | | | | | | |
|-----------------|-----------------|-------|----|------|-------|------|----|----|-------|----------|-------------------|-------|-------|----|---|-------|-------|-------|-------|------|
| | D | AE | AR | P | H | d | | | | | | | | | | | | | | |
| SC-125-4-25.4 | 125 | 4 | 42 | 3.4 | 6.35 | 25.4 | 12 | 6 | 10900 | 0.36 | 1102 | T9354 | T09P | | | | | | | |
| SC-125-5-25.4 | | 5 | | 4.2 | | | | | | 1103 | T9355 | T08P | | | | | | | | |
| SC-125-6-25.4 | | 6 | | 5 | | | | | | 1203 | T945 | T15P | | | | | | | | |
| SC-125-7-25.4 | | 7 | | 6 | | | | | | 1204 | T946 | | | | | | | | | |
| SC-125-8-25.4 | | 8 | | 7 | | | | | | 12045 | T947 | | | | | | | | | |
| SC-125-10-25.4 | | 10 | | 9 | | | | | | 1205 | T948 | | | | | | | | | |
| SC-125-12-25.4 | | 12 | | 11 | | | | | | 1207 | T9411 | | | | | | | | | |
| SC-125-4-31.75 | | 31.75 | | 4 | | | | | | 39 | 3.4 | 8 | 31.75 | 12 | 6 | 10900 | 0.36 | 1102 | T9354 | T09P |
| SC-125-5-31.75 | | | | 5 | | | | | | | 4.2 | | | | | | 1103 | T9355 | T08P | |
| SC-125-6-31.75 | | | | 6 | | | | | | | 5 | | | | | | 1203 | T945 | T15P | |
| SC-125-7-31.75 | | | | 7 | | | | | | | 6 | | | | | | 1204 | T946 | | |
| SC-125-8-31.75 | | | | 8 | | | | | | | 7 | | | | | | 12045 | T947 | | |
| SC-125-10-31.75 | 10 | | 9 | 1205 | T948 | | | | | | | | | | | | | | | |
| SC-125-12-31.75 | 12 | | 11 | 1207 | T9411 | | | | | | | | | | | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197



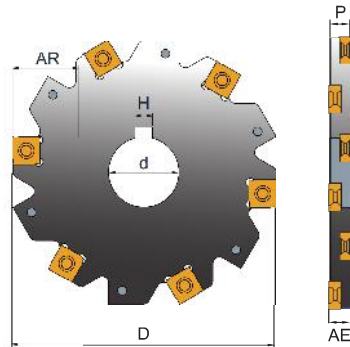
Slotting

SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | Ⓚ | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|--------------|-----------------|----|------|------|-------|----|-------|----|------|----------|-------------------|-------|------|
| | D | AE | AR | P | H | d | | | | | | | |
| SC-160-4-32 | 160 | 4 | 56.5 | 3.4 | 8 | 32 | 16 | 8 | 8300 | 1102 | T9354 | T09P | |
| SC-160-5-32 | | 5 | | 4.2 | | | | | | T08P | | | |
| SC-160-6-32 | | 6 | | 5 | | | | | | 1203 | T945 | T15P | |
| SC-160-7-32 | | 7 | | 6 | | | | | | 1204 | T946 | | |
| SC-160-8-32 | | 8 | | 7 | | | | | | 12045 | T947 | | |
| SC-160-10-32 | | 10 | | 9 | | | | | | 1205 | T948 | | |
| SC-160-12-32 | | 12 | 11 | 1207 | T9411 | | | | | | | | |
| SC-160-4-40 | | 4 | 52 | 3.4 | 10 | 40 | | | | 0.56 | 1102 | T9354 | T09P |
| SC-160-5-40 | | 5 | | 4.2 | | | | | | 1103 | T9355 | T08P | |
| SC-160-6-40 | | 6 | | 5 | | | | | | 1203 | T945 | T15P | |
| SC-160-7-40 | | 7 | | 6 | | | | | | 1204 | T946 | | |
| SC-160-8-40 | | 8 | | 7 | | | | | | 12045 | T947 | | |
| SC-160-10-40 | 10 | 9 | | 1205 | | | T948 | | | | | | |
| SC-160-12-40 | 12 | 11 | | 1207 | | | T9411 | | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197

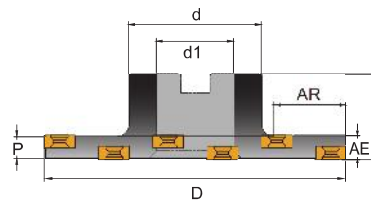


SC

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key | | | |
|-----------------|-----------------|-----|------|------|-------|------|-------|----|------|----------|-------------------|-------|------|-------|-------|------|
| | D | AE | AR | P | H | d | | | | | | | | | | |
| SC-160-4-25.4 | 160 | 4 | 59.5 | 3.4 | 6.35 | 25.4 | 16 | 8 | 8300 | 1102 | T9354 | T09P | | | | |
| SC-160-5-25.4 | | 5 | | 4.2 | | | | | | 1103 | T9355 | T08P | | | | |
| SC-160-6-25.4 | | 6 | | 5 | | | | | | 1203 | T945 | T15P | | | | |
| SC-160-7-25.4 | | 7 | | 6 | | | | | | 1204 | T946 | | | | | |
| SC-160-8-25.4 | | 8 | | 7 | | | | | | 12045 | T947 | | | | | |
| SC-160-10-25.4 | | 10 | | 9 | | | | | | 1205 | T948 | | | | | |
| SC-160-12-25.4 | | 12 | 11 | 1207 | T9411 | | | | | | | | | | | |
| SC-160-4-31.75 | | 160 | 4 | 56.5 | 3.4 | 8 | | | | 31.75 | 16 | 8 | 8300 | 1102 | T9354 | T09P |
| SC-160-5-31.75 | | | 5 | | 4.2 | | | | | | | | | 1103 | T9355 | T08P |
| SC-160-6-31.75 | | | 6 | | 5 | | | | | | | | | 1203 | T945 | T15P |
| SC-160-7-31.75 | | | 7 | | 6 | | | | | | | | | 1204 | T946 | |
| SC-160-8-31.75 | | | 8 | | 7 | | | | | | | | | 12045 | T947 | |
| SC-160-10-31.75 | 10 | | 9 | | 1205 | | T948 | | | | | | | | | |
| SC-160-12-31.75 | 12 | | 11 | | 1207 | | T9411 | | | | | | | | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197



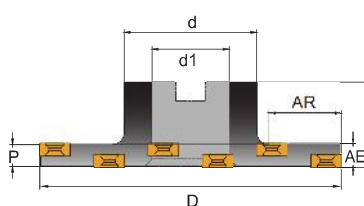
ST

Slotting

| Order Code | Dimensions (mm) | | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|--------------|-----------------|----|------|----|----|----|----|---|------|-------|----------|-------------------|-------|-----|
| | D | AE | AR | P | d | d1 | L | | | | | | | |
| ST-80-6-22 | 80 | 6 | 16.5 | 5 | 40 | 22 | 8 | 4 | 0.47 | 13700 | 1203 | T945 | T15P | |
| ST-80-7-22 | | 7 | | 6 | | | | | | | 1204 | T946 | | |
| ST-80-8-22 | | 8 | | 7 | | | | | | | 12045 | T947 | | |
| ST-80-10-22 | | 10 | | 9 | | | | | | | 1205 | T948 | | |
| ST-80-12-22 | | 12 | | 11 | | | | | | | 1207 | T9411 | | |
| ST-100-6-27 | 100 | 6 | 26.5 | 5 | 27 | 35 | 10 | 5 | 0.56 | 12000 | 1203 | T945 | | |
| ST-100-7-27 | | 7 | | 6 | | | | | | | 1204 | T946 | | |
| ST-100-8-27 | | 8 | | 7 | | | | | | | 12045 | T947 | | |
| ST-100-10-27 | | 10 | | 9 | | | | | | | 1205 | T948 | | |
| ST-100-12-27 | | 12 | | 11 | | | | | | | 1207 | T9411 | | |
| ST-125-6-32 | 125 | 6 | 30.5 | 5 | 55 | 32 | 12 | 6 | 0.96 | 10900 | 1203 | T945 | | |
| ST-125-7-32 | | 7 | | 6 | | | | | | | 1204 | T946 | | |
| ST-125-8-32 | | 8 | | 7 | | | | | | | 12045 | T947 | | |
| ST-125-10-32 | | 10 | | 9 | | | | | | | 1205 | T948 | | |
| ST-125-12-32 | | 12 | | 11 | | | | | | | 1207 | T9411 | | |
| ST-160-6-32 | 160 | 6 | 48 | 5 | 55 | 32 | 16 | 8 | 1.42 | 8300 | 1203 | T945 | | |
| ST-160-7-32 | | 7 | | 6 | | | | | | | 1204 | T946 | | |
| ST-160-8-32 | | 8 | | 7 | | | | | | | 12045 | T947 | | |
| ST-160-10-32 | | 10 | | 9 | | | | | | | 1205 | T948 | | |
| ST-160-12-32 | | 12 | | 11 | | | | | | | 1207 | T9411 | | |

Side Milling Cutters

- Inserts P. 190 - 192
- Cutting Data P. 196 - 197



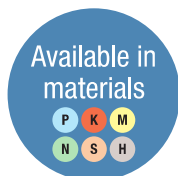
ST

| Order Code | Dimensions (mm) | | | | | | | Z | Zc | KG | MAX. RPM | Inserts SNGX SNGW | Screw | Key |
|-----------------|-----------------|----|------|----|----|-------|----|----|----|------|----------|-------------------|-------|------|
| | D | AE | AR | P | d | d1 | L | | | | | | | |
| ST-80-6-25.4 | 80 | 6 | 16.5 | 5 | 40 | 25.4 | 35 | 8 | 4 | 0.47 | 13700 | 1203 | T945 | T15P |
| ST-80-7-25.4 | | 7 | | 6 | | | | | | | | 1204 | T946 | |
| ST-80-8-25.4 | | 8 | | 7 | | | | | | | | 12045 | T947 | |
| ST-80-10-25.4 | | 10 | | 9 | | | | | | | | 1205 | T948 | |
| ST-80-12-25.4 | | 12 | | 11 | | | | | | | | 1207 | T9411 | |
| ST-100-6-25.4 | 100 | 6 | 26.5 | 5 | 55 | 31.75 | 35 | 10 | 5 | 0.56 | 12000 | 1203 | T945 | |
| ST-100-7-25.4 | | 7 | | 6 | | | | | | | | 1204 | T946 | |
| ST-100-8-25.4 | | 8 | | 7 | | | | | | | | 12045 | T947 | |
| ST-100-10-25.4 | | 10 | | 9 | | | | | | | | 1205 | T948 | |
| ST-100-12-25.4 | | 12 | | 11 | | | | | | | | 1207 | T9411 | |
| ST-125-6-31.75 | 125 | 6 | 30.5 | 5 | 55 | 31.75 | 35 | 12 | 6 | 0.96 | 10900 | 1203 | T945 | |
| ST-125-7-31.75 | | 7 | | 6 | | | | | | | | 1204 | T946 | |
| ST-125-8-31.75 | | 8 | | 7 | | | | | | | | 12045 | T947 | |
| ST-125-10-31.75 | | 10 | | 9 | | | | | | | | 1205 | T948 | |
| ST-125-12-31.75 | | 12 | | 11 | | | | | | | | 1207 | T9411 | |
| ST-160-6-31.75 | 160 | 6 | 48 | 5 | 55 | 31.75 | 35 | 16 | 8 | 1.42 | 8300 | 1203 | T945 | |
| ST-160-7-31.75 | | 7 | | 6 | | | | | | | | 1204 | T946 | |
| ST-160-8-31.75 | | 8 | | 7 | | | | | | | | 12045 | T947 | |
| ST-160-10-31.75 | | 10 | | 9 | | | | | | | | 1205 | T948 | |
| ST-160-12-31.75 | | 12 | | 11 | | | | | | | | 1207 | T9411 | |

DISC MILLING CUTTER



Features



Cost
200~300%
SAVING

Applicable
Machines
Milling machine

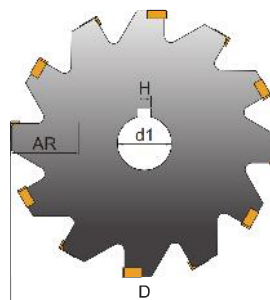
Efficiency
300~500%
UP

Durability
300%
UP

PRODUCT SPECIFICATIONS

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199

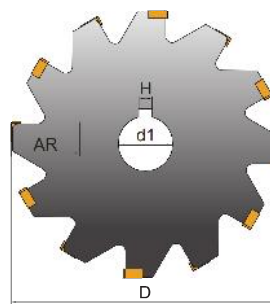


CE

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key |
|-------------|-----------------|----|------|------|---|----|----|----|-------|----------|--------------|-------|-----|
| | D | AE | AR | P | H | d1 | | | | | | | |
| CE080-14-22 | 80 | 14 | 22.5 | 12.5 | 6 | 22 | 8 | 4 | 13700 | 1005 | C04011 | T15P | |
| CE080-16-22 | | 16 | | 14.5 | | | | | | | | | |
| CE080-18-22 | | 18 | | 16.5 | | | | | | | | | |
| CE080-20-22 | | 20 | | 18.5 | | | | | | | | | |
| CE080-22-22 | | 22 | | 20.5 | | | | | | | | | |
| CE080-25-22 | | 25 | | 23.5 | | | | | | | | | |
| CE080-30-22 | | 30 | | 28.5 | | | | | | | | | |
| CE100-14-27 | 100 | 14 | 29.5 | 12.5 | 7 | 27 | 10 | 5 | 12000 | 1005 | C04011 | T15P | |
| CE100-16-27 | | 16 | | 14.5 | | | | | | | | | |
| CE100-18-27 | | 18 | | 16.5 | | | | | | | | | |

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199



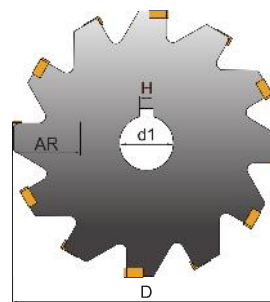
Slotting

CE

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key |
|---------------|-----------------|----|------|------|------|----|----|----|------|----------|--------------|--------|------|
| | D | AE | AR | P | H | d1 | | | | | | | |
| CE100-20-27 | 100 | 20 | 29.5 | 18.5 | 7 | 27 | 10 | 5 | 0.91 | 12000 | 1305 | C04011 | T15P |
| CE100-22-27 | | 22 | | 20.5 | | | | | 1.01 | | | | |
| CE100-25-27 | | 25 | | 23.5 | | | | | 1.16 | | 1605 | | |
| CE100-30-27 | | 30 | | 28.5 | | | | | 1.40 | | | | |
| CE125-14-32 | 125 | 14 | 39 | 12.5 | 8 | 32 | 12 | 6 | 1.02 | 10900 | 1005 | | |
| CE125-16-32 | | 16 | | 14.5 | | | | | 1.17 | | | | |
| CE125-18-32 | | 18 | | 16.5 | | | | | 1.36 | | | | |
| CE125-20-32 | | 20 | | 18.5 | | | | | 1.52 | | 1305 | | |
| CE125-22-32 | | 22 | | 20.5 | | | | | 1.57 | | | | |
| CE125-25-32 | | 25 | | 23.5 | | | | | 1.85 | | 1605 | | |
| CE125-30-32 | | 30 | | 28.5 | | | | | 1.92 | | | | |
| CE080-14-25.4 | | 80 | | 14 | | | | | 19.5 | | 12.5 | 6.35 | 25.4 |
| CE080-16-25.4 | 16 | | 14.5 | 0.51 | | | | | | | | | |
| CE080-18-25.4 | 18 | | 16.5 | 0.54 | 1305 | | | | | | | | |
| CE080-20-25.4 | 20 | | 18.5 | 0.59 | | | | | | | | | |
| CE080-22-25.4 | 22 | | 20.5 | 0.69 | | | | | | | | | |

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199

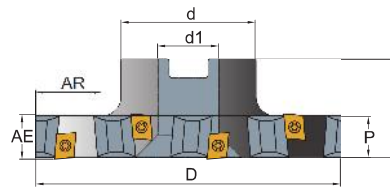


CE

| Order Code | Dimensions (mm) | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----------------|------|------|------|------|------|----|----|------|----------|--------------|--------|------|------|---------------|-----|----|------|------|----|---|------|-------|------|---------------|----|------|------|---------------|----|------|------|---------------|----|------|------|------|---------------|----|------|------|---------------|----|------|------|---------------|----|------|------|------|---------------|-----|----|----|------|----|---|------|-------|------|---------------|----|------|------|---------------|----|------|------|---------------|----|------|------|------|---------------|----|------|------|---------------|----|
| | D | AE | AR | P | H | d1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE080-25-25.4 | 80 | 25 | 19.5 | 23.5 | 6.35 | 25.4 | 8 | 4 | 0.75 | 13700 | 1605 | C04011 | T15P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE080-30-25.4 | | 30 | | 28.5 | | | | | | | | | | 0.88 | CE100-14-25.4 | 100 | 14 | 29.5 | 12.5 | 10 | 5 | 0.67 | 12000 | 1005 | CE100-16-25.4 | 16 | 14.5 | 0.76 | CE100-18-25.4 | 18 | 16.5 | 0.84 | CE100-20-25.4 | 20 | 18.5 | 0.91 | 1305 | CE100-22-25.4 | 22 | 20.5 | 1.01 | CE100-25-25.4 | 25 | 23.5 | 1.16 | CE100-30-25.4 | 30 | 28.5 | 1.40 | 1605 | CE125-14-25.4 | 125 | 14 | 42 | 12.5 | 12 | 6 | 1.02 | 10900 | 1005 | CE125-16-25.4 | 16 | 14.5 | 1.17 | CE125-18-25.4 | 18 | 16.5 | 1.36 | CE125-20-25.4 | 20 | 18.5 | 1.52 | 1305 | CE125-22-25.4 | 22 | 20.5 | 1.57 | CE125-25-25.4 | 25 |
| CE100-14-25.4 | 100 | 14 | 29.5 | 12.5 | | | 10 | 5 | 0.67 | 12000 | 1005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-16-25.4 | | 16 | | 14.5 | | | | | | | | | | 0.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-18-25.4 | | 18 | | 16.5 | | | | | | | | | | 0.84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-20-25.4 | | 20 | | 18.5 | | | | | | | 0.91 | | | 1305 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-22-25.4 | | 22 | | 20.5 | | | | | | | 1.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-25-25.4 | | 25 | | 23.5 | | | | | | | 1.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE100-30-25.4 | 30 | 28.5 | 1.40 | 1605 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-14-25.4 | 125 | 14 | 42 | 12.5 | | | 12 | 6 | 1.02 | 10900 | 1005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-16-25.4 | | 16 | | 14.5 | | | | | | | | | | 1.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-18-25.4 | | 18 | | 16.5 | | | | | | | | | | 1.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-20-25.4 | | 20 | | 18.5 | | | | | | | 1.52 | | | 1305 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-22-25.4 | | 22 | | 20.5 | | | | | | | 1.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-25-25.4 | | 25 | | 23.5 | | | | | | | 1.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CE125-30-25.4 | | 30 | | 28.5 | | | | | | | 1.92 | | | 1605 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199



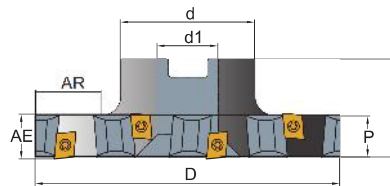
Slotting

CW

| Order Code | Dimensions (mm) | | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key | |
|-------------|-----------------|-----|------|------|----|----|----|----|----|------|----------|--------------|--------|------|------|
| | D | AE | AR | P | d | d1 | L | | | | | | | | |
| CW080-14-22 | 80 | 14 | 16.5 | 12.5 | 40 | 22 | 35 | 8 | 4 | 0.67 | 13700 | 1005 | | | |
| CW080-16-22 | | 16 | | 14.5 | | | | | | | | | | | |
| CW080-18-22 | | 18 | | 16.5 | | | | | | | | | | | |
| CW080-20-22 | | 20 | 16.5 | 18.5 | | | | | | | | | | | 40 |
| CW080-22-22 | | 22 | 20.5 | | | | | | | | | | | | |
| CW080-25-22 | | 25 | 23.5 | | | | | | | | | | | | |
| CW080-30-22 | | 30 | 28.5 | | | | | | | | | | | | |
| CW100-14-27 | 100 | 14 | 26.5 | 12.5 | 45 | 27 | 35 | 10 | 5 | 0.84 | 10900 | 1005 | C04011 | T15P | |
| CW100-16-27 | | 16 | | 14.5 | | | | | | | | | | | |
| CW100-18-27 | | 18 | | 16.5 | | | | | | | | | | | |
| CW100-20-27 | | 20 | | 16.5 | | | | | | | | | | | 18.5 |
| CW100-22-27 | | 22 | 20.5 | | | | | | | | | | | | |
| CW100-25-27 | | 25 | 23.5 | | | | | | | | | | | | |
| CW100-30-27 | | 30 | 28.5 | | | | | | | | | | | | |
| CW125-14-32 | | 125 | 14 | 30 | | | | | | | | | | | 12.5 |
| CW125-16-32 | 16 | | 14.5 | | | | | | | | | | | | |

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199



CW

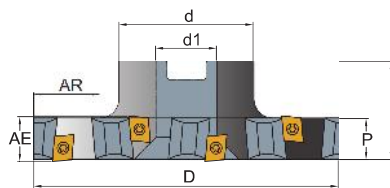
| Order Code | Dimensions (mm) | | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key | |
|---------------|-----------------|-----|------|------|----|------|------|----|------|-------|----------|--------------|--------|------|------|
| | D | AE | AR | P | d | d1 | L | | | | | | | | |
| CW125-18-32 | 125 | 18 | 30 | 16.5 | 55 | 32 | 35 | 12 | 6 | 1.68 | 10900 | 1305 | C04011 | T15P | |
| CW125-20-32 | | 20 | | 18.5 | | | | | | 40 | | | | | 1.92 |
| CW125-22-32 | | 22 | | 20.5 | | | | | | | | | | | 1.94 |
| CW125-25-32 | | 25 | | 23.5 | | | | | | | | | | | 1.96 |
| CW125-30-32 | | 30 | | 28.5 | | | 2.29 | | | | | | | | |
| CW080-14-25.4 | 80 | 14 | 16.5 | 12.5 | 40 | 35 | 8 | 4 | 0.67 | 13700 | 1305 | C04011 | T15P | | |
| CW080-16-25.4 | | 16 | | 14.5 | | | | | 40 | | | | | 0.72 | |
| CW080-18-25.4 | | 18 | | 16.5 | | | | | | | | | | 0.76 | |
| CW080-20-25.4 | | 20 | | 18.5 | | | | | 0.78 | | | | | | |
| CW080-22-25.4 | | 22 | | 20.5 | | 25.4 | | | 0.79 | | | | | | |
| CW080-25-25.4 | | 25 | | 23.5 | | | | | 0.85 | | | | | | |
| CW080-30-25.4 | | 30 | | 28.5 | | | | | 0.92 | | | | | | |
| CW100-14-25.4 | | 100 | | 14 | | | | | 26.5 | | 12.5 | | | 45 | 35 |
| CW100-16-25.4 | 16 | | 14.5 | 0.94 | | | | | | | | | | | |
| CW100-18-25.4 | 18 | | 16.5 | 1.02 | | | | | | | | | | | |
| CW100-20-25.4 | 20 | | 18.5 | 1.09 | | | | | | | | | | | |

Disc Milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199



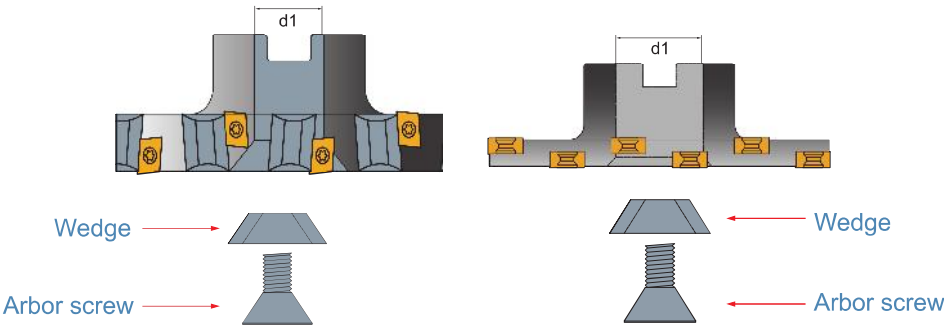
CW



Slotting

| Order Code | Dimensions (mm) | | | | | | | Z | Zc | KG | MAX. RPM | Inserts CNGX | Screw | Key |
|----------------|-----------------|----|------|------|----|-------|----|----|----|------|----------|--------------|--------|------|
| | D | AE | AR | P | d | d1 | L | | | | | | | |
| CW100-22-25.4 | 100 | 22 | 26.5 | 20.5 | 45 | 25.4 | 35 | 10 | 5 | 1.17 | 12000 | 1305 | C04011 | T15P |
| CW100-25-25.4 | | 25 | | 23.5 | | | | | | 1.25 | | 1605 | | |
| CW100-30-25.4 | | 30 | | 28.5 | | | | | | 1.32 | | | | |
| CW125-14-31.75 | 125 | 14 | 30 | 12.5 | 55 | 31.75 | 35 | 12 | 6 | 1.42 | 10900 | 1005 | | |
| CW125-16-31.75 | | 16 | | 14.5 | | | | | | 1.53 | | | | |
| CW125-18-31.75 | | 18 | | 16.5 | | | | | | 1.68 | | | | |
| CW125-20-31.75 | | 20 | | 18.5 | | | | | | 1.92 | | 1305 | | |
| CW125-22-31.75 | | 22 | | 20.5 | | | | | | 1.94 | | | | |
| CW125-25-31.75 | | 25 | | 23.5 | | | | | | 1.96 | | | | |
| CW125-30-31.75 | | 30 | | 28.5 | | | | | | 2.29 | | 1605 | | |
| | | | | | | | | | | | | | | |

Mounting Dimensions



| Dimension (mm) | | |
|---------------------|------------------|---------------|
| Cutter dimension d1 | Arbor screw | Tapered Wedge |
| ST Ø 22 | C901035 | WE30 |
| ST Ø 27 | C901235 | |
| ST Ø 32 | C901635 | WE45 |
| ST Ø 25.4 | C901235 | WE30 |
| ST Ø 31.75 | C901235, C901635 | WE30, WE45 |
| CW Ø 22 | C901035 | WE30 |
| CW Ø 27 | C901235 | |
| CW Ø 32 | C901635 | WE45 |
| CW Ø 40 | C901640 | WE63 |
| CW Ø 25.4 | C901235 | WE30 |
| CW Ø 31.75 | C901235, C901635 | WE30, WE45 |
| CW Ø 38.1 | C901635 | WE63 |
| CW Ø 50.8 | | |

* Cutter price includes the wedge.

BACK AND STRADDLE



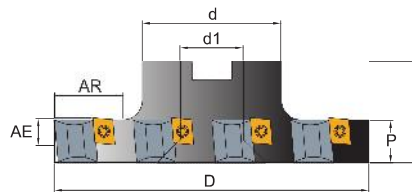
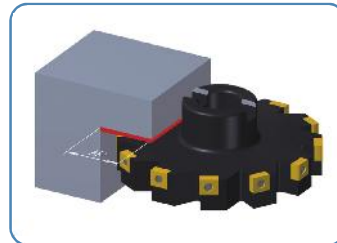
Features



PRODUCT SPECIFICATIONS

Back milling Cutters

- Inserts P. 193
- Cutting Data P. 198 - 199

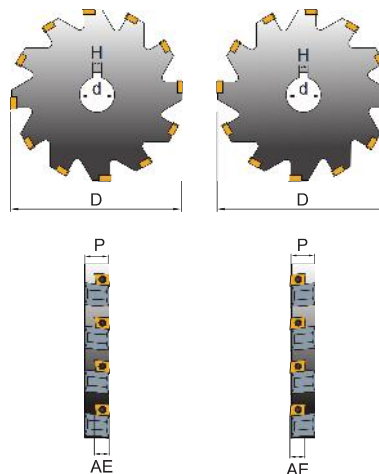


CB

| Order Code | Dimensions (mm) | | | | | | | Z | MAX. RPM | Insert CNGX | Screw | Key | |
|------------|-----------------|----|------|----|----|----|----|----|----------|-------------|-------|--------|------|
| | D | AE | P | d | d1 | L | AR | | | | | | |
| CB-100-27 | 100 | 12 | 16.5 | 45 | 27 | 35 | 25 | 10 | 0.97 | 12000 | 1305 | C04011 | T15P |
| CB-125-32 | 125 | | | 55 | 32 | | 30 | 12 | 1.76 | 10900 | | | |

Straddle milling cutters

- Inserts P. 182
- Cutting Data P. 198 - 199

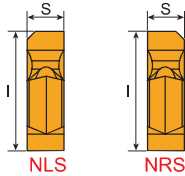


CDL / CDR

| Order Code | Dimensions (mm) | | | | | | Z | KG | MAX. RPM | Insert CNGX | Screw | Key |
|------------|-----------------|----|------|----|----|-----|----|------|----------|-------------|--------|------|
| | D | AE | P | d | H | L/R | | | | | | |
| CDL-100-27 | 100 | 12 | 16.5 | 27 | 7 | L | 10 | 0.87 | 12000 | 1305 | C04011 | T15P |
| CDR-100-27 | | | | | | R | | | | | | |
| CDL-125-32 | 125 | 12 | 16.5 | 32 | 8 | L | 12 | 1.42 | 10900 | 1305 | C04011 | T15P |
| CDR-125-32 | | | | | | R | | | | | | |
| CDL-160-40 | 160 | 12 | 16.5 | 40 | 10 | L | 16 | 2.52 | 6900 | 1305 | C04011 | T15P |
| CDR-160-40 | | | | | | R | | | | | | |

Back & Straddle

LNGT Inserts


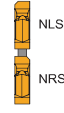
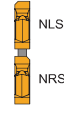


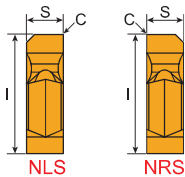
Tolerances (mm)
S : ±0.02



Inserts 10 PCS / Box

| Dimensions (mm) | | |
|-----------------|-----|---|
| Blade Thickness | S | I |
| 1.2 | 1.4 | 9 |
| 1.2 | 1.5 | |
| 1.4 | 1.6 | |
| 1.6 | 1.8 | |

| Inserts | Order Code | Grades | | | | | | | |  Inserts Sequencing Position  (Interleaving one after another different one.) | |
|---------|-----------------|---------|------|------|-----|-----|--------|------|----------|--|--|
| | | Carbide | | | | | Cermet | | Uncoated | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | | CE |
| NLS | LNGT 1414NLS-EE | | | | | | | | | |  (Interleaving one after another different one.) |
| | LNGT 1415NLS-EE | | | | | | | | | | |
| | LNGT 1616NLS-EE | | | | | | | | | | |
| | LNGT 1818NLS-EE | | | | | | | | | | |
| NRS | LNGT 1414NRS-EE | | | | | | | | | | |
| | LNGT 1415NRS-EE | | | | | | | | | | |
| | LNGT 1616NRS-EE | | | | | | | | | | |
| | LNGT 1818NRS-EE | | | | | | | | | | |


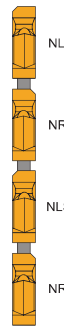
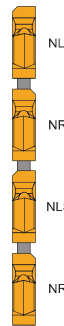


Tolerances (mm)
S : ±0.02



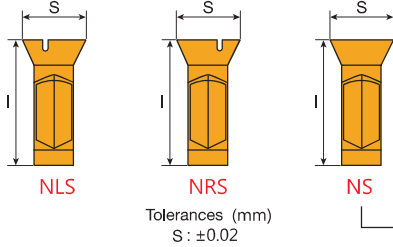
Inserts 10 PCS / Box

| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | C |
| 1.2 | 1.4 | 9 | 0.03 |
| 1.2 | 1.5 | | |
| 1.4 | 1.6 | | |
| 1.6 | 1.8 | | |

| Inserts | Order Code | Grades | | | | | | | |  Inserts Sequencing Position  (Interleaving one after another different one.) | |
|---------|-----------------|---------|------|------|-----|-----|--------|------|----------|--|--|
| | | Carbide | | | | | Cermet | | Uncoated | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | | CE |
| NLS | LNGT 1414NLS-M | | | | | | | | | |  (Interleaving one after another different one.) |
| | LNGT 1415NLS-M | | | | | | | | | | |
| | LNGT 1616NLS-M | | | | | | | | | | |
| | LNGT 1818NLS-M | | | | | | | | | | |
| NRS | LNGT 1414NRS-M | | | | | | | | | | |
| | LNGT 1415NRS-M | | | | | | | | | | |
| | LNGT 1616NRS-M | | | | | | | | | | |
| | LNGT 1818NRS-M | | | | | | | | | | |
| NLS | LNGT 1414NLS-ME | ⊗ | | | | | | | | | |
| | LNGT 1415NLS-ME | ⊗ | | | | | | | | | |
| | LNGT 1616NLS-ME | ⊗ | | | | | | | | | |
| | LNGT 1818NLS-ME | ⊗ | | | | | | | | | |
| NRS | LNGT 1414NRS-ME | ⊗ | | | | | | | | | |
| | LNGT 1415NRS-ME | ⊗ | | | | | | | | | |
| | LNGT 1616NRS-ME | ⊗ | | | | | | | | | |
| | LNGT 1818NRS-ME | ⊗ | | | | | | | | | |

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 1414NLS-M,B100

LNGT Inserts



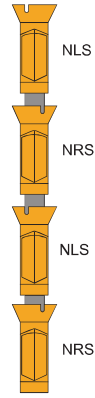
Only applicable in cutter width 6,8mm

| Dimensions (mm) | | |
|-----------------|-----|---|
| Blade Thickness | S | I |
| 1.75 | 2.0 | 9 |
| | 2.2 | |
| | 2.5 | |
| 2.25 | 2.5 | |
| | 2.7 | |
| | 3.0 | |
| 2.7 | 3.0 | |
| | 3.2 | |
| | 3.5 | |
| 3.7 | 4.0 | |
| | 4.2 | |
| | 4.5 | |
| 4.5 | 5.0 | |
| | 5.2 | |
| | 5.5 | |

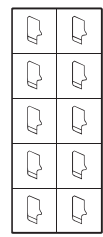
| Inserts | Order Code | Grades | | | | | | | | | | EE | | |
|-----------------|-----------------|---------|------|------|-----|-----|--------|------|----------|----|--|----|--|--|
| | | Carbide | | | | | Cermet | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
| NLS | LNGT 2020NLS-EE | | | | | | | | | | | | | |
| | LNGT 2022NLS-EE | | | | | | | | | | | | | |
| | LNGT 2025NLS-EE | | | | | | | | | | | | | |
| | LNGT 2525NLS-EE | | | | | | | | | | | | | |
| | LNGT 2527NLS-EE | | | | | | | | | | | | | |
| | LNGT 2530NLS-EE | | | | | | | | | | | | | |
| | LNGT 3030NLS-EE | | | | | | | | | | | | | |
| | LNGT 3032NLS-EE | | | | | | | | | | | | | |
| | LNGT 3035NLS-EE | | | | | | | | | | | | | |
| | LNGT 4040NLS-EE | | | | | | | | | | | | | |
| | LNGT 4042NLS-EE | | | | | | | | | | | | | |
| | LNGT 4045NLS-EE | | | | | | | | | | | | | |
| | LNGT 5050NLS-EE | | | | | | | | | | | | | |
| | LNGT 5052NLS-EE | | | | | | | | | | | | | |
| LNGT 5055NLS-EE | | | | | | | | | | | | | | |
| NRS | LNGT 2020NRS-EE | | | | | | | | | | | | | |
| | LNGT 2022NRS-EE | | | | | | | | | | | | | |
| | LNGT 2025NRS-EE | | | | | | | | | | | | | |
| | LNGT 2525NRS-EE | | | | | | | | | | | | | |
| | LNGT 2527NRS-EE | | | | | | | | | | | | | |
| | LNGT 2530NRS-EE | | | | | | | | | | | | | |
| | LNGT 3030NRS-EE | | | | | | | | | | | | | |
| | LNGT 3032NRS-EE | | | | | | | | | | | | | |
| | LNGT 3035NRS-EE | | | | | | | | | | | | | |
| | LNGT 4040NRS-EE | | | | | | | | | | | | | |
| | LNGT 4042NRS-EE | | | | | | | | | | | | | |
| | LNGT 4045NRS-EE | | | | | | | | | | | | | |
| | LNGT 5050NRS-EE | | | | | | | | | | | | | |
| | LNGT 5052NRS-EE | | | | | | | | | | | | | |
| LNGT 5055NRS-EE | | | | | | | | | | | | | | |
| NS | LNGT 5050NS-EE | | | | | | | | | | | | | |

Insert

Inserts Sequencing Position



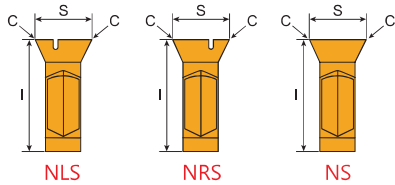
(Interleaving one after another different one.)



Inserts 10 PCS / Box

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 2020NLS-EE, F20

LNGT Inserts



Tolerances (mm)
S : ±0.02

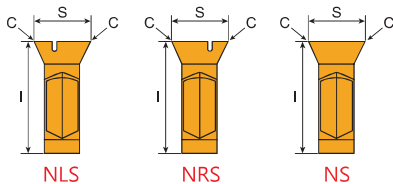
Only applicable in cutter width 6,8mm

| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | C |
| 1.75 | 2.0 | 9 | 0.05 |
| | 2.2 | | |
| | 2.5 | | |
| 2.25 | 2.5 | | |
| | 2.7 | | |
| | 3.0 | | |
| 2.7 | 3.0 | | |
| | 3.2 | | |
| | 3.5 | | |
| 3.7 | 4.0 | | |
| | 4.2 | | |
| | 4.5 | | |
| 4.5 | 5.0 | | |
| | 5.2 | | |
| | 5.5 | | |

| Inserts | Order Code | Grades | | | | | | | | | | | | |
|----------------|----------------|---------|------|------|-----|-----|--------|------|----------|----|--|--|--|--|
| | | Carbide | | | | | Cermet | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
| NLS | LNGT 2020NLS-M | | | | | | | | | | | | | Inserts Sequencing Position NLS NRS NLS NRS (Interleaving one after another different one.) Inserts 10 PCS / Box |
| | LNGT 2022NLS-M | | | | | | | | | | | | | |
| | LNGT 2025NLS-M | | | | | | | | | | | | | |
| | LNGT 2525NLS-M | | | | | | | | | | | | | |
| | LNGT 2527NLS-M | | | | | | | | | | | | | |
| | LNGT 2530NLS-M | | | | | | | | | | | | | |
| | LNGT 3030NLS-M | | | | | | | | | | | | | |
| | LNGT 3032NLS-M | | | | | | | | | | | | | |
| | LNGT 3035NLS-M | | | | | | | | | | | | | |
| | LNGT 4040NLS-M | | | | | | | | | | | | | |
| | LNGT 4042NLS-M | | | | | | | | | | | | | |
| | LNGT 4045NLS-M | | | | | | | | | | | | | |
| | LNGT 5050NLS-M | | | | | | | | | | | | | |
| | LNGT 5052NLS-M | | | | | | | | | | | | | |
| LNGT 5055NLS-M | | | | | | | | | | | | | | |
| NRS | LNGT 2020NRS-M | | | | | | | | | | | | | |
| | LNGT 2022NRS-M | | | | | | | | | | | | | |
| | LNGT 2025NRS-M | | | | | | | | | | | | | |
| | LNGT 2525NRS-M | | | | | | | | | | | | | |
| | LNGT 2527NRS-M | | | | | | | | | | | | | |
| | LNGT 2530NRS-M | | | | | | | | | | | | | |
| | LNGT 3030NRS-M | | | | | | | | | | | | | |
| | LNGT 3032NRS-M | | | | | | | | | | | | | |
| | LNGT 3035NRS-M | | | | | | | | | | | | | |
| | LNGT 4040NRS-M | | | | | | | | | | | | | |
| | LNGT 4042NRS-M | | | | | | | | | | | | | |
| | LNGT 4045NRS-M | | | | | | | | | | | | | |
| | LNGT 5050NRS-M | | | | | | | | | | | | | |
| | LNGT 5052NRS-M | | | | | | | | | | | | | |
| LNGT 5055NRS-M | | | | | | | | | | | | | | |
| NS | LNGT 5050NS-M | | | | | | | | | | | | | |

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 2020NLS-M,B100

LNGT Inserts



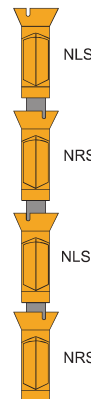
Tolerances (mm)
S: ±0.02

Only applicable in cutter width 6,8mm

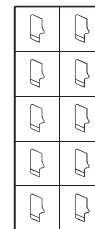
| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | C |
| 1.75 | 2.0 | 9 | 0.05 |
| | 2.2 | | |
| | 2.5 | | |
| 2.25 | 2.5 | | |
| | 2.7 | | |
| | 3.0 | | |
| 2.7 | 3.0 | | |
| | 3.2 | | |
| | 3.5 | | |
| 3.7 | 4.0 | | |
| | 4.2 | | |
| | 4.5 | | |
| 4.5 | 5.0 | | |
| | 5.2 | | |
| | 5.5 | | |

| Inserts | Order Code | Grades | | | | | | | | | | | | |
|-----------------|-----------------|---------|------|------|-----|-----|--------|------|----------|----|--|--|--|--|
| | | Carbide | | | | | Cermet | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
| NLS | LNGT 2020NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2022NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2025NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2525NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2527NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2530NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3030NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3032NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3035NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4040NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4042NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4045NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 5050NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 5052NLS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| LNGT 5055NLS-ME | ⊙ | | | | | ⊙ | | | | | | | | |
| NRS | LNGT 2020NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2022NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2025NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2525NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2527NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 2530NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3030NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3032NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 3035NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4040NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4042NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 4045NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 5050NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| | LNGT 5052NRS-ME | ⊙ | | | | | ⊙ | | | | | | | |
| LNGT 5055NRS-ME | ⊙ | | | | | ⊙ | | | | | | | | |
| NS | LNGT 5050NS-ME | ⊙ | | | | | | | | | | | | |

Inserts Sequencing Position



(Interleaving one after another different one.)

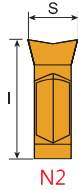


Inserts 10 PCS / Box

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 2020NLS-ME,B100

Insert



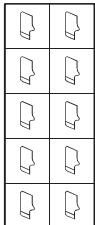
LNGT Inserts



For the application in Alu. pipe and Alu. plate

Tolerances (mm)
S : ±0.02

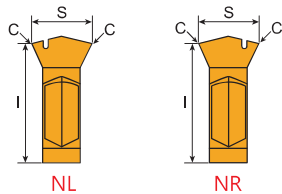
| Dimensions (mm) | | |
|-----------------|-----|---|
| Blade Thickness | S | I |
| 1.4 | 1.6 | 9 |
| 1.6 | 1.8 | |
| 1.75 | 2.0 | |
| | 2.2 | |
| | 2.5 | |
| 2.25 | 2.5 | |
| | 2.7 | |
| | 3.0 | |
| 2.7 | 3.0 | |
| | 3.2 | |
| | 3.5 | |
| 3.7 | 4.0 | |
| | 4.2 | |
| | 4.5 | |
| 4.5 | 5.0 | |
| | 5.2 | |
| | 5.5 | |

| Inserts | Order Code | Grades | | | | | | | | | |  | | |
|---------|----------------|---------|------|------|-----|-----|--------|------|----------|----|--|---|---|---|
| | | Carbide | | | | | Cermet | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
| N2 | LNGT 1616N2-EE | | | | | | | | | | | | | Inserts Sequencing Position  |
| | LNGT 1818N2-EE | | | | | | | | | | | | | |
| | LNGT 2020N2-EE | | | | | | | | | | | | | |
| | LNGT 2022N2-EE | | | | | | | | | | | | | |
| | LNGT 2025N2-EE | | | | | | | | | | | | | |
| | LNGT 2525N2-EE | | | | | | | | | | | | | |
| | LNGT 2527N2-EE | | | | | | | | | | | | | |
| | LNGT 2530N2-EE | | | | | | | | | | | | | |
| | LNGT 3030N2-EE | | | | | | | | | | | | | |
| | LNGT 3032N2-EE | | | | | | | | | | | | | |
| | LNGT 3035N2-EE | | | | | | | | | | | | | |
| | LNGT 4040N2-EE | | | | | | | | | | | | | |
| | LNGT 4042N2-EE | | | | | | | | | | | | | |
| | LNGT 4045N2-EE | | | | | | | | | | | | | |
| | LNGT 5050N2-EE | | | | | | | | | | | | | |
| | LNGT 5052N2-EE | | | | | | | | | | | | | |
| | LNGT 5055N2-EE | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

Inserts 10 PCS / Box

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 1616N2-EE,F20

LNGT Inserts



V shape insert designed for superior stability and durability

Tolerances (mm)
S: ±0.02

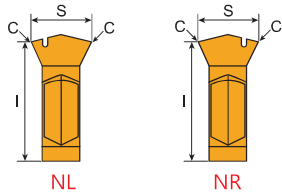
| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | C |
| 1.75 | 2.0 | 9 | 0.05 |
| | 2.2 | | |
| | 2.5 | | |
| 2.25 | 2.5 | | |
| | 2.7 | | |
| | 3.0 | | |
| 2.7 | 3.0 | | |
| | 3.2 | | |
| | 3.5 | | |
| 3.7 | 4.0 | | |
| | 4.2 | | |
| | 4.5 | | |
| 4.5 | 5.0 | | |
| | 5.2 | | |
| | 5.5 | | |

| Inserts | Order Code | Grades | | | | | | | | | | | | |
|---------------|---------------|---------|------|------|-----|-----|---------|------|----------|----|--|--|--|--|
| | | Carbide | | | | | Cermets | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
| NL | LNGT 2020NL-M | | | | | | | | | | | | | Inserts Sequencing Position (Interleaving one after another different one.) Inserts 10 PCS / Box |
| | LNGT 2022NL-M | | | | | | | | | | | | | |
| | LNGT 2025NL-M | | | | | | | | | | | | | |
| | LNGT 2525NL-M | | | | | | | | | | | | | |
| | LNGT 2527NL-M | | | | | | | | | | | | | |
| | LNGT 2530NL-M | | | | | | | | | | | | | |
| | LNGT 3030NL-M | | | | | | | | | | | | | |
| | LNGT 3032NL-M | | | | | | | | | | | | | |
| | LNGT 3035NL-M | | | | | | | | | | | | | |
| | LNGT 4040NL-M | | | | | | | | | | | | | |
| | LNGT 4042NL-M | | | | | | | | | | | | | |
| | LNGT 4045NL-M | | | | | | | | | | | | | |
| | LNGT 5050NL-M | | | | | | | | | | | | | |
| | LNGT 5052NL-M | | | | | | | | | | | | | |
| LNGT 5055NL-M | | | | | | | | | | | | | | |
| NR | LNGT 2020NR-M | | | | | | | | | | | | | |
| | LNGT 2022NR-M | | | | | | | | | | | | | |
| | LNGT 2025NR-M | | | | | | | | | | | | | |
| | LNGT 2525NR-M | | | | | | | | | | | | | |
| | LNGT 2527NR-M | | | | | | | | | | | | | |
| | LNGT 2530NR-M | | | | | | | | | | | | | |
| | LNGT 3030NR-M | | | | | | | | | | | | | |
| | LNGT 3032NR-M | | | | | | | | | | | | | |
| | LNGT 3035NR-M | | | | | | | | | | | | | |
| | LNGT 4040NR-M | | | | | | | | | | | | | |
| | LNGT 4042NR-M | | | | | | | | | | | | | |
| | LNGT 4045NR-M | | | | | | | | | | | | | |
| | LNGT 5050NR-M | | | | | | | | | | | | | |
| | LNGT 5052NR-M | | | | | | | | | | | | | |
| LNGT 5055NR-M | | | | | | | | | | | | | | |

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 2020NL-M, B100


Insert

LNGT Inserts

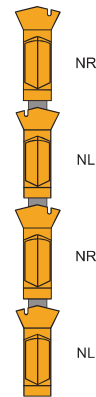


Tolerances (mm)
S: ±0.02

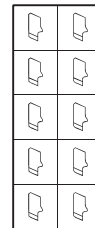
| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | C |
| 1.75 | 2.0 | 9 | 0.05 |
| | 2.2 | | |
| | 2.5 | | |
| 2.25 | 2.5 | | |
| | 2.7 | | |
| | 3.0 | | |
| 2.7 | 3.0 | | |
| | 3.2 | | |
| | 3.5 | | |
| 3.7 | 4.0 | | |
| | 4.2 | | |
| | 4.5 | | |
| 4.5 | 5.0 | | |
| | 5.2 | | |
| | 5.5 | | |

| Inserts | Order Code | Grades | | | | | | | |  | | | |
|----------------|----------------|---------|------|------|-----|-----|---------|------|----------|---|----|--|--|
| | | Carbide | | | | | Cermets | | Uncoated | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | | CE | | |
| NL | LNGT 2020NL-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 2022NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2025NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2525NL-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 2527NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2530NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 3030NL-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 3032NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 3035NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 4040NL-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 4042NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 4045NL-ME | ⊙ | | | | | | | | | | | |
| | LNGT 5050NL-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 5052NL-ME | ⊙ | | | | | | | | | | | |
| LNGT 5055NL-ME | ⊙ | | | | | | | | | | | | |
| NR | LNGT 2020NR-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 2022NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2025NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2525NR-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 2527NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 2530NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 3030NR-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 3032NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 3035NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 4040NR-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 4042NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 4045NR-ME | ⊙ | | | | | | | | | | | |
| | LNGT 5050NR-ME | ⊙ | | | | | ⊙ | | | | | | |
| | LNGT 5052NR-ME | ⊙ | | | | | | | | | | | |
| LNGT 5055NR-ME | ⊙ | | | | | | | | | | | | |

Inserts Sequencing Position



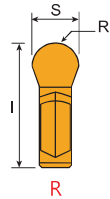
(Interleaving one after another different one.)



Inserts 10 PCS / Box


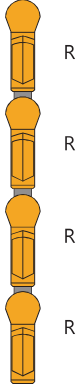
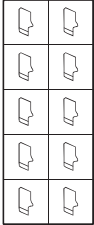
- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 2020NL-ME,B100

LNGT Inserts



Tolerances (mm)
S : ±0.02

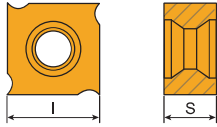
| Dimensions (mm) | | | |
|-----------------|-----|---|------|
| Blade Thickness | S | I | R |
| 1.2 | 1.5 | 9 | 0.75 |
| 1.75 | 2.0 | | 1.0 |
| 2.25 | 2.5 | | 1.25 |
| 2.7 | 3.0 | | 1.5 |

| Inserts | Order Code | Grades | | | | | | | | |  | | | | |
|---------|------------------|---------|------|------|-----|-----|--------|------|-----|----------|---|--|--|---|--|
| | | Carbide | | | | | Cermet | | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | | |
| | LNGT 1415R075-ME | ⊗ | | | ■ | | | | | | | | Inserts Sequencing Position  | | |
| | LNGT 2020R100-ME | ⊗ | | | ■ | | | | | | | | |  | |
| | LNGT 2525R125-ME | ⊗ | | | ■ | | | | | | | | | | |
| | LNGT 3030R150-ME | ⊗ | | | ■ | | | | | | | | | | |
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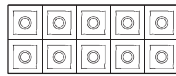
- Steel ■ Stainless Steel ⊗ Steel/Stainless Steel /Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: LNGT 1415R075-ME,B100

Insert

SNGX Inserts




Tolerances (mm)
I=±0.025 S=±0.025



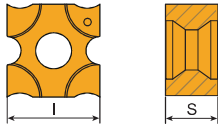
Inserts 10 PCS / Box

| Dimensions (mm) | | |
|------------------|-----|------|
| Cutter Thickness | S | I |
| 1102 | 2.3 | 11.0 |
| 1103 | 2.7 | |
| 1203 | 3.2 | 12.7 |
| 1204 | 4.0 | |
| 12045 | 4.5 | |
| 1205 | 5.4 | |
| 1207 | 7.0 | |

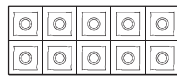
| Inserts | Order Code | Cutting Rake | Grades | | | | | | | | | | |
|---|---------------|--------------|---------|------|------|-----|--------|-------|----------|-----|----|--|--|
| | | | Carbide | | | | Cermet | | Uncoated | | | | |
| | | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | |
|  E / ME / M | SNGX 1102-E | 25 ° | | | | | | | | | | | |
| | SNGX 1103-E | | | | | | | | | | | | |
| | SNGX 1203-E | | | | | | | | | | | | |
| | SNGX 1204-E | | | | | | | | | | | | |
| | SNGX 12045-E | | | | | | | | | | | | |
| | SNGX 1205-E | | | | | | | | | | | | |
| | SNGX 1207-E | | | | | | | | | | | | |
| | SNGX 1102-ME | 15 ° | ⊗ | | | | | | | | | | |
| | SNGX 1103-ME | | ⊗ | | | | | | | | | | |
| | SNGX 1203-ME | | ⊗ | | | | | | | | | | |
| | SNGX 1204-ME | | ⊗ | | | | | | | | | | |
| | SNGX 12045-ME | | ⊗ | | | | | | | | | | |
| | SNGX 1205-ME | | ⊗ | | | | | | | | | | |
| | SNGX 1207-ME | | ⊗ | | | | | | | | | | |
| | SNGX 1102T-M | 15 ° | | | | | | | | | | | |
| | SNGX 1103T-M | | | | | | | | | | | | |
| | SNGX 1203T-M | | | | | | | | | | | | |
| | SNGX 1204T-M | | | | | | | | | | | | |
| | SNGX 12045T-M | | | | | | | | | | | | |
| | SNGX 1205T-M | | | | | | | | | | | | |
| | SNGX 1207T-M | | | | | | | | | | | | |

- Steel
 ■ Stainless Steel
 ⊗ Steel/Stainless Steel /Super alloy
 ■ Cast Iron
 ■ Aluminum
 ■ Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: SNGX 1102-E,F20

SNGW Inserts




Tolerances (mm)
I=±0.025 S=±0.025



Inserts 10 PCS / Box

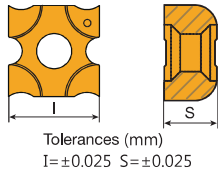
| Dimensions (mm) | | |
|------------------|-----|------|
| Cutter Thickness | S | I |
| 1102 | 2.3 | 11.0 |
| 1103 | 2.7 | |
| 1203 | 3.2 | 12.7 |
| 1204 | 4.0 | |
| 12045 | 4.5 | |
| 1205 | 5.4 | |
| 1207 | 7.0 | |

| Inserts | Order Code | Cutting Rake | Grades | | | | | | | | | | |
|---|---------------|--------------|---------|------|------|-----|--------|-------|----------|-----|----|--|--|
| | | | Carbide | | | | Cermet | | Uncoated | | | | |
| | | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | |
|  E / ME / M | SNGW 1102-E | 25° | | | | | | | | | | | |
| | SNGW 1103-E | | | | | | | | | | | | |
| | SNGW 1203-E | | | | | | | | | | | | |
| | SNGW 1204-E | | | | | | | | | | | | |
| | SNGW 12045-E | | | | | | | | | | | | |
| | SNGW 1205-E | | | | | | | | | | | | |
| | SNGW 1207-E | | | | | | | | | | | | |
| | SNGW 1102-ME | 15° | ⊗ | | | | | | | | | | |
| | SNGW 1103-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1203-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1204-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1102T-M | 15° | ⊗ | | | | | | | | | | |
| | SNGW 1103T-M | | ⊗ | | | | | | | | | | |
| | SNGW 1203T-M | | ⊗ | | | | | | | | | | |
| | SNGW 1204T-M | | ⊗ | | | | | | | | | | |
| | SNGW 12045T-M | | ⊗ | | | | | | | | | | |
| | SNGW 1205T-M | | ⊗ | | | | | | | | | | |
| | SNGW 1207T-M | | ⊗ | | | | | | | | | | |

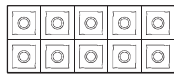
- Steel ■ Stainless Steel ⊗ Steel/Stainless Steel /Super alloy ■ Cast Iron ■ Aluminum ■ Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: SNGW 1102-E,F20

Insert

SNGW Inserts - R0.4~R3.0




Tolerances (mm)
I=±0.025 S=±0.025



Inserts 10 PCS / Box

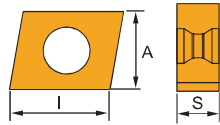
| Dimensions (mm) | | | |
|------------------|-----|------|-----|
| Cutter Thickness | S | I | R |
| 1102 | 2.3 | 11.0 | 0.4 |
| 1102 | | | 0.8 |
| 1103 | | | 0.4 |
| 1103 | 2.7 | 11.0 | 0.8 |
| 1203 | | | 0.4 |
| 1203 | 3.2 | 12.7 | 0.8 |
| 1203 | | | 1.2 |
| 1204 | | | 0.4 |
| 1204 | 4.0 | 12.7 | 0.8 |
| 1204 | | | 1.2 |
| 1204 | | | 1.6 |
| 12045 | 4.5 | 12.7 | 0.4 |
| 12045 | | | 0.8 |
| 12045 | | | 1.2 |

| Dimensions (mm) | | | |
|------------------|-----|------|-----|
| Cutter Thickness | S | I | R |
| 12045 | 4.5 | 11.0 | 1.6 |
| 12045 | | | 2.0 |
| 1205 | | | 0.4 |
| 1205 | 5.4 | 12.7 | 0.8 |
| 1205 | | | 1.2 |
| 1205 | | | 1.6 |
| 1205 | 7.0 | 12.7 | 2.0 |
| 1205 | | | 2.5 |
| 1207 | | | 0.4 |
| 1207 | 7.0 | 12.7 | 0.8 |
| 1207 | | | 1.2 |
| 1207 | | | 1.6 |
| 1207 | 7.0 | 12.7 | 2.0 |
| 1207 | | | 2.5 |
| 1207 | | | 3.0 |

| Inserts | Order Code | Cutting Rake | Grades | | | | | | | | | | |
|---|------------------|--------------|---------|------|------|-----|-----|---------|------|----------|----|--|--|
| | | | Carbide | | | | | Cermets | | Uncoated | | | |
| | | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | |
|  ME | SNGW 1102R04-ME | 15° | ⊗ | | | | | | | | | | |
| | SNGW 1102R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1103R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1103R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1203R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1203R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1203R12-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1204R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1204R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1204R12-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1204R16-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045R12-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045R16-ME | | ⊗ | | | | | | | | | | |
| | SNGW 12045R20-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R12-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R16-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R20-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1205R25-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R04-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R08-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R12-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R16-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R20-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R25-ME | | ⊗ | | | | | | | | | | |
| | SNGW 1207R30-ME | | ⊗ | | | | | | | | | | |

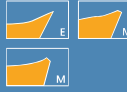
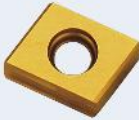
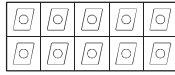
- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: SNGW 1102R04-ME,F20

CNGX Inserts



Tolerances (mm)
I=±0.025 S=±0.025 A=±0.025

| Dimensions (mm) | | | |
|------------------|-----|------|----|
| Cutter Thickness | S | I | A |
| 1005 | 5.4 | 10.0 | 10 |
| 1305 | | 12.7 | |
| 1605 | | 16.0 | |

| Inserts | Order Code | Grades | | | | | | | | | |  | | |
|---|--------------|---------|------|------|-----|-----|--------|------|----------|----|--|---|--|---|
| | | Carbide | | | | | Cermet | | Uncoated | | | | | |
| | | B100 | C200 | C250 | F20 | F30 | CE100 | CE60 | K10 | CE | | | | |
|  | CNGX 1005-E | | | | | | | | | | | | |  |
| | CNGX 1305-E | | | | | | | | | | | | | |
| | CNGX 1605-E | | | | | | | | | | | | | |
| | CNGX 1005-ME | ⊗ | | | | | | | | | | | | |
| | CNGX 1305-ME | ⊗ | | | | | | | | | | | | |
| | CNGX 1605-ME | ⊗ | | | | | | | | | | | | |
| | CNGX 1005T-M | | | | | | | | | | | | | |
| | CNGX 1305T-M | | | | | | | | | | | | | |
| | CNGX 1605T-M | | | | | | | | | | | | | |

- Steel Stainless Steel Steel/Stainless Steel /Super alloy Cast Iron Aluminum Steel/Cast Iron
- ⊗ Steel/Stainless Steel/Cast Iron
- Prices and stocks are based on present conditions
- Please specify model numbers and the grade of inserts, ie.: CNGX 1005-E,F20

Insert

Inserts 10 PCS / Box

Recommendation-LNGT Inserts

LNGT Insert Grade Selection

| Material group | Recom. fz (mm/tooth) | Inserts | | | |
|----------------|----------------------|------------|-----------|-----------|---|
| | | LNGT ... M | LNGT...ME | LNGT...EE | |
| 1 | 0.04-0.12 | B100 | B100 | - | - |
| 2 | 0.04-0.10 | B100 | B100 | - | - |
| 3 | 0.04-0.10 | B100 | B100 | - | - |
| 4 | 0.04-0.10 | B100 | B100 | - | - |
| 5 | 0.04-0.08 | B100 | B100 | - | - |
| 6 | 0.04-0.07 | B100 | B100 | - | - |
| 7 | 0.03-0.06 | - | B100 | - | - |
| 8 | 0.04-0.12 | - | B100 | - | - |
| 9 | 0.04-0.10 | - | B100 | - | - |
| 10 | 0.04-0.09 | - | B100 | - | - |
| 11 | 0.04-0.08 | - | B100 | - | - |
| 12 | 0.04-0.12 | - | F20 | - | - |
| 13 | 0.04-0.12 | - | F20 | - | - |
| 14 | 0.04-0.11 | - | F20 | - | - |
| 15 | 0.04-0.10 | - | F20 | - | - |
| 16 | 0.06-0.13 | - | - | F20 | - |
| 17 | 0.06-0.12 | - | - | F20 | - |
| 18 | 0.06-0.11 | - | - | F20 | - |
| 19 | 0.06-0.09 | - | B100 | - | - |
| 20 | 0.06-0.08 | - | B100 | - | - |
| 21 | 0.04-0.06 | - | B100 | - | - |
| 22 | 0.04-0.07 | - | B100 | - | - |

Recommendation-LNGT Inserts


• LNGT Insert Recommended Cutting speed, Vc(m/min)

| Material group | Grades | | | | | | | |
|---------------------------|---------------|------|------|------|------|------|-----|-----|
| | B100 | | C250 | F20 | CE60 | CE | K10 | F30 |
| | fz (mm/tooth) | | | | | | | |
| | 0.03 | 0.05 | 0.08 | 0.05 | 0.09 | 0.13 | | |
| Cutting speed, Vc (m/min) | | | | | | | | |
| 1 | 215 | 195 | 168 | - | - | - | - | - |
| 2 | 168 | 151 | 135 | - | - | - | - | - |
| 3 | 151 | 135 | 122 | - | - | - | - | - |
| 4 | 134 | 122 | 109 | - | - | - | - | - |
| 5 | 121 | 109 | 97 | - | - | - | - | - |
| 6 | 109 | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - |
| 8 | 160 | - | 80 | - | - | - | - | - |
| 9 | 160 | - | 80 | - | - | - | - | - |
| 10 | 80 | - | 50 | - | - | - | - | - |
| 11 | 80 | - | 50 | - | - | - | - | - |
| 12 | - | - | - | 168 | 142 | 126 | - | - |
| 13 | - | - | - | 151 | 126 | 117 | - | - |
| 14 | - | - | - | 134 | 117 | 109 | - | - |
| 15 | - | - | - | 105 | 97 | - | - | - |
| 16 | - | - | - | 1150 | 950 | 850 | - | - |
| 17 | - | - | - | 950 | 780 | 700 | - | - |
| 18 | - | - | - | 950 | 780 | 700 | - | - |
| 19 | 50 | 45 | - | - | - | - | - | - |
| 20 | 50 | 45 | - | - | - | - | - | - |
| 21 | 35 | 40 | - | - | - | - | - | - |
| 22 | 50 | 45 | - | - | - | - | - | - |

• Cutting Data-Side Milling

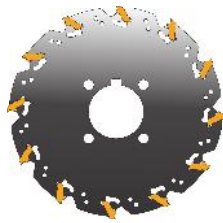
| Operations | AR / Dc | Recom.fz (mm/tooth) | | | Speed Factor |
|-----------------------------|---------|---------------------|------|------|--------------|
| Full engagement | - | 0.05 | 0.10 | 0.14 | 0.65 |
| Side Milling | 2% | 0.21 | 0.44 | 0.65 | 1.20 |
| | 5% | 0.14 | 0.28 | 0.41 | 1.10 |
| | 10% | 0.10 | 0.20 | 0.30 | 1.00 |
| | 20% | 0.07 | 0.14 | 0.21 | 0.90 |
| | 30% | 0.06 | 0.12 | 0.18 | 0.85 |
| Average Chip Thickness (hm) | - | 0.03 | 0.06 | 0.09 | - |

• Type Of Inserts

|  | Insert Code | Width of slot (mm) |
|--|-------------|--------------------|
| | 1414 | 1.4 |
| | 2020 | 2.0 |
| | 2525 | 2.5 |
| | 3030 | 3.0 |
| | 4040 | 4.0 |
| 5050 | 5.0 | |

Recommendation-LNGT Inserts

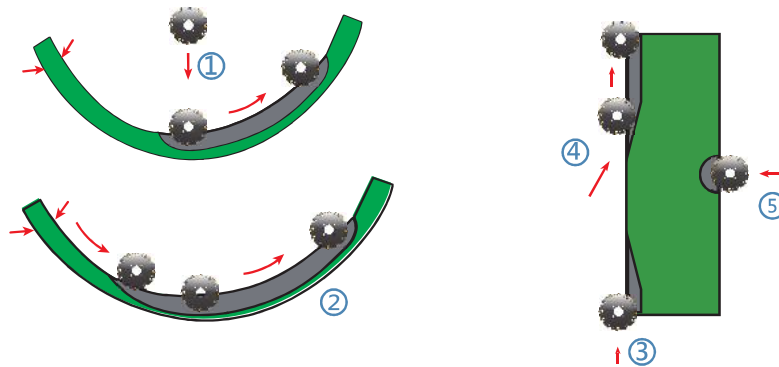
f_z (mm / tooth)



Insert

• f_z (mm/tooth)

| AE | f_z (mm/tooth) | | | | | |
|------------|------------------|-------------|-----------|-------------|-----------|-------------|
| | Material group | | | | | |
| | 1 2 3 4 | 5 6 | 8 9 10 11 | 12 13 14 15 | 16 17 18 | 19 20 21 22 |
| 1.4-1.7 mm | 0.02-0.03 | 0.015-0.025 | 0.03-0.04 | 0.02-0.04 | 0.02-0.04 | 0.015-0.025 |
| 1.8-2.2 mm | 0.03-0.05 | 0.03-0.04 | 0.03-0.04 | 0.03-0.06 | 0.03-0.08 | 0.02-0.03 |
| 2.5-3.0 mm | 0.03-0.06 | 0.03-0.05 | 0.02-0.03 | 0.03-0.08 | 0.03-0.1 | 0.03-0.04 |
| 3.0-3.5 mm | 0.04-0.08 | 0.03-0.06 | 0.03-0.06 | 0.04-0.1 | 0.04-0.1 | 0.03-0.05 |
| 4.0-4.5 mm | | | | | | |
| 5.0-5.5 mm | 0.05-0.1 | 0.04-0.08 | 0.04-0.07 | 0.05-0.12 | 0.05-0.17 | 0.04-0.06 |



- ① Plunging to mill : F_z reduce to 50%
- ② Ramping to mill : F_z remain 100%
- ③ Mill : F_z remain 100%
- ④ Ramping : F_z remain 100%
- ⑤ Plunging to mill : F_z reduce to 50%

Recommendation-SNGX / SNGW Inserts

• SNGX / SNGW Insert Grade Selection

| Material group | Recom. fz (mm/tooth) | Inserts | | | |
|----------------|----------------------|-------------------------|----------------------------|----------------------------|---|
| | | SNGX ... M SNGW ...M | SNGX ... ME SNGW ... ME | SNGX ... EE SNGW ... EE | |
| 1 | 0.14-0.30 | C250/B100 | B100 | - | - |
| 2 | 0.14-0.25 | C250/B100 | B100 | - | - |
| 3 | 0.14-0.22 | C250/B100 | B100 | - | - |
| 4 | 0.14-0.22 | C250/B100 | B100 | - | - |
| 5 | 0.14-0.20 | C250/B100 | B100 | - | - |
| 6 | 0.10-0.15 | C250/B100 | B100 | - | - |
| 7 | 0.10-0.13 | C250/B100 | B100 | - | - |
| 8 | 0.14-0.25 | - | B100 | - | - |
| 9 | 0.14-0.22 | - | B100 | - | - |
| 10 | 0.14-0.20 | - | B100 | - | - |
| 11 | 0.10-0.15 | - | B100 | - | - |
| 12 | 0.14-0.30 | - | F30 | - | - |
| 13 | 0.14-0.22 | - | F30 | - | - |
| 14 | 0.14-0.20 | - | F30 | - | - |
| 15 | 0.10-0.15 | - | F30 | - | - |
| 16 | 0.16-0.30 | - | - | F20 | - |
| 17 | 0.16-0.25 | - | - | F20 | - |
| 18 | 0.16-0.20 | - | - | F20 | - |
| 19 | 0.14-0.20 | - | B100 | - | - |
| 20 | 0.14-0.18 | - | B100 | - | - |
| 21 | 0.10-0.13 | - | B100 | - | - |
| 22 | 0.14-0.20 | - | B100 | - | - |

Recommendation-SNGX SNGW Inserts

• Recommended Cutting Speed, Vc(m/min)

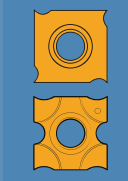
| Material group | Grades | | | | | | | | | | | | | | |
|---------------------------|---------------|-----|-----|------|-----|-----|------|-----|-----|------|----|-----|-----|-----|-----|
| | B100 | | | C250 | | | F20 | | | CE60 | CE | K10 | F30 | | |
| | fz (mm/tooth) | | | | | | | | | | | | | | |
| | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | | | | 0.1 | 0.2 | 0.3 |
| Cutting Speed, Vc (m/min) | | | | | | | | | | | | | | | |
| 1 | 186 | 166 | 150 | 166 | 146 | 130 | - | - | - | - | - | - | - | - | - |
| 2 | 168 | 150 | 135 | 148 | 130 | 115 | - | - | - | - | - | - | - | - | - |
| 3 | 151 | 136 | 122 | 131 | 116 | 102 | - | - | - | - | - | - | - | - | - |
| 4 | 136 | 122 | 110 | 116 | 102 | 90 | - | - | - | - | - | - | - | - | - |
| 5 | 120 | 110 | 99 | 100 | 90 | 79 | - | - | - | - | - | - | - | - | - |
| 6 | 92 | 78 | - | 72 | 58 | - | - | - | - | - | - | - | - | - | - |
| 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8 | 160 | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | 160 | - | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 80 | - | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11 | 80 | - | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - | - | - | - | - | - | 140 | 119 | 105 |
| 13 | - | - | - | - | - | - | - | - | - | - | - | - | 126 | 105 | 98 |
| 14 | - | - | - | - | - | - | - | - | - | - | - | - | 119 | 98 | 91 |
| 15 | - | - | - | - | - | - | - | - | - | - | - | - | 91 | 88 | - |
| 16 | - | - | - | - | - | - | 1150 | 950 | 850 | - | - | - | - | - | - |
| 17 | - | - | - | - | - | - | 950 | 780 | 700 | - | - | - | - | - | - |
| 18 | - | - | - | - | - | - | 950 | 780 | 700 | - | - | - | - | - | - |
| 19 | 55 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20 | 55 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21 | 46 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 22 | 55 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - |

Insert

• Cutting Data-Side Milling

| Operations | AR / Dc | Recom.fz (mm/tooth) | | | Speed Factor |
|-----------------------------|---------|---------------------|------|------|--------------|
| Full Engagement | - | 0.05 | 0.10 | 0.14 | 0.65 |
| Side Milling | 2% | 0.21 | 0.44 | 0.65 | 1.20 |
| | 5% | 0.14 | 0.28 | 0.41 | 1.10 |
| | 10% | 0.10 | 0.20 | 0.30 | 1.00 |
| | 20% | 0.07 | 0.14 | 0.21 | 0.90 |
| | 30% | 0.06 | 0.12 | 0.18 | 0.85 |
| Average Chip Thickness (hm) | - | 0.03 | 0.06 | 0.09 | - |

• Type Of Inserts

|  | Insert Code | Width of slot (mm) |
|--|-------------|--------------------|
| | | 1203 |
| | 1204 | 7 |
| | 12045 | 8 |
| | 1205 | 10 |
| | 1207 | 12 |

Recommendation-CNGX Inserts

• CNGX Insert Grade Selection

| Material group | Recom. fz (mm/tooth) | Inserts | | | |
|----------------|----------------------|------------|-----------|----------|---|
| | | CNGX ... M | CNGX...ME | CNGX...E | |
| 1 | 0.2-0.4 | C250/B100 | B100 | - | - |
| 2 | | C250/B100 | B100 | - | - |
| 3 | 0.2-0.35 | C250/B100 | B100 | - | - |
| 4 | | C250/B100 | B100 | - | - |
| 5 | 0.2-0.32 | C250/B100 | B100 | - | - |
| 6 | | C250/B100 | B100 | - | - |
| 7 | 0.15-0.3 | C250/B100 | B100 | - | - |
| 8 | 0.2-0.4 | - | B100 | - | - |
| 9 | | - | B100 | - | - |
| 10 | 0.2-0.33 | - | B100 | - | - |
| 11 | | - | B100 | - | - |
| 12 | 0.22-0.4 | - | F30 | - | - |
| 13 | | - | F30 | - | - |
| 14 | 0.2-0.35 | - | F30 | - | - |
| 15 | | - | F30 | - | - |
| 16 | 0.22-0.42 | - | - | F20 | - |
| 17 | | - | - | F20 | - |
| 18 | | - | - | F20 | - |
| 19 | 0.2-0.3 | - | B100 | - | - |
| 20 | | - | B100 | - | - |
| 21 | 0.15-0.25 | - | B100 | - | - |
| 22 | 0.2-0.25 | - | B100 | - | - |

• Cutting Data-Side Milling


| Operations | AR / Dc | Recom. fz (mm/tooth) | | | Speed Factor |
|-----------------------------|---------|----------------------|------|------|--------------|
| Full engagement | - | 0.05 | 0.10 | 0.14 | 0.65 |
| Side Milling | 2% | 0.21 | 0.44 | 0.65 | 1.20 |
| | 5% | 0.14 | 0.28 | 0.41 | 1.10 |
| | 10% | 0.10 | 0.20 | 0.30 | 1.00 |
| | 20% | 0.07 | 0.14 | 0.21 | 0.90 |
| | 30% | 0.06 | 0.12 | 0.18 | 0.85 |
| Average Chip Thickness (hm) | - | 0.03 | 0.06 | 0.09 | - |

• Recommended Cutting Speed, Vc(m/min)

| Material group | Grades | | | | | | | | | | | |
|---------------------------|---------------|-----|------|-----|-----|-----|------|-----|-----|-----|-----|---------|
| | B100 | | C250 | | F20 | | CE60 | CE | K10 | F30 | | |
| | fz (mm/tooth) | | | | | | | | | | | |
| | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | | | |
| Cutting Speed, Vc (m/min) | | | | | | | | | | | | |
| 1 | 162 | 140 | 123 | 162 | 140 | 123 | - | - | - | - | - | - |
| 2 | 146 | 123 | 105 | 146 | 123 | 105 | - | - | - | - | - | - |
| 3 | 120 | 101 | 92 | 120 | 101 | 92 | - | - | - | - | - | - |
| 4 | 109 | 92 | 84 | 109 | 92 | 84 | - | - | - | - | - | - |
| 5 | 90 | 78 | 70 | 90 | 78 | 70 | - | - | - | - | - | - |
| 6 | 63 | 56 | - | 64 | 56 | - | - | - | - | - | - | - |
| 7 | - | - | - | 28 | - | - | - | - | - | - | - | - |
| 8 | 160 | - | 70 | - | - | - | - | - | - | - | - | - |
| 9 | 160 | - | 70 | - | - | - | - | - | - | - | - | - |
| 10 | 80 | - | 50 | - | - | - | - | - | - | - | - | - |
| 11 | 80 | - | 50 | - | - | - | - | - | - | - | - | - |
| 12 | - | - | - | - | - | - | - | - | - | - | 140 | 119 105 |
| 13 | - | - | - | - | - | - | - | - | - | - | 126 | 105 98 |
| 14 | - | - | - | - | - | - | - | - | - | - | 119 | 98 91 |
| 15 | - | - | - | - | - | - | - | - | - | - | 91 | 84 - |
| 16 | - | - | - | - | - | - | 805 | 665 | 595 | - | - | - |
| 17 | - | - | - | - | - | - | 665 | 549 | 490 | - | - | - |
| 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 19 | 40 | 37 | - | - | - | - | - | - | - | - | - | - |
| 20 | 40 | 37 | - | - | - | - | - | - | - | - | - | - |
| 21 | 35 | 30 | - | - | - | - | - | - | - | - | - | - |
| 22 | 40 | 37 | - | - | - | - | - | - | - | - | - | - |

Insert

• Type Of Inserts

|  | Insert Code | Width of slot (mm) |
|---|-------------|--------------------|
| | 1005 | 14-16 |
| | 1305 | 18-24 |
| | 1605 | 25-30 |