

Everything for metal Machining "Under one Roof"





MIRCONA CVD coated carbide grades

Multi-layer coating of TiC/Ti(CN)/TiN

TNC 100

TNC 140

P30-P50

P40, M25

TNC 150

TNC 250

P30-P50

P10-P30, M10-M30, K20-K30

Multi-layer coating of TiN/TiCN/Al₂O₃/TiN

ALC 145

ALC 245

P30-P35, M15-M20 P20-P30

ALC 345

P15-P20, K20

ALC 350

P01-P25, K01-K15

ALC 355

P01-P30, M05-M25

ALC 400

PMC

turning











MIRCONA sophisticated cutting geometries for





-NF2

-NF1

-NM1

-NM2







-NM3

-NM4

-NR1

-NR2

P10, K10-K15

ceramic grades Oxide ceramics

MIRCONA

CEW 075 P01-P10, K01-K10

CEB 250

P01-P10, K01-K10

CEB 225

Nitride ceramics

CES 050

K01-K10

CES 025

K01-K15

CES 060

K01-K15











Multi-layer coating of TiN/TiCN/Al₂O₃

ALC 410

K10-K15

ISO throw-away inserts

MIRCONA offers a wide selection of throwaway inserts for turning and milling in uncoated or coated carbide grades or in ceramics. A large number of different cutting geometris adapted to finishing, medium roughing and roughing are stocked as standards



MIRCONA PVD coated carbide grades

TNP 140

TiAIN M15-M25

TNP 175

TiN P15-P40

TNP 200

TiCN P25-P40, K10-K30

TNP 220

TiAIN M15-M20, K15-K20

TNP 225

TiCN P10-P35 K05-K25

MIRCONA coated carbide grades

MIRCONA offers eleven multi-layer coated CVD grades, and five PVD grades with high wear resistance in combination with extreme toughness for all machining operations from finishing to heavy roughing in most materials. For operations with very pronounced demands on high wear resistance and high cutting speeds MIRCONA offer six different ceramic grades.

PMC tool holders





P

Alternative clamping of the insert with pin only.



"3" holders in one

Negative combination tool holder. The range includes holders for external and internal machining.



M

Alternative clamping of the insert with pin and top clamp in one tightening operation.



Alternative clamping of the insert with top clamp only for inserts without hole.





Tool holders for ceramic inserts



Negative for external or internal turning with 8 mm ceramic inserts.





Cartridges for 8 mm ceramic inserts.

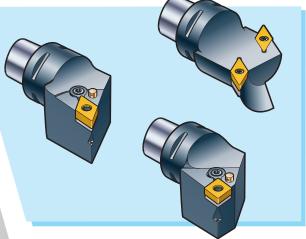
Cartridges with PMC, S or C clamping for incorporation in special purpose tools. Covering most turning, facing and chamfering operations.

Cartridges and boring tools for incorporation in special purpose tools



Turning tools in polygon coupling performance.





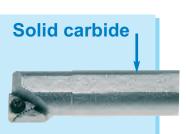
S tool holders



Positive for external or internal machining.



Carbide shank givig three times the rigidity of a steel shank, thereby eliminating resilience and vibration.



C tool holders



Positive for internal machining.

Positive for external machining.



Parting-off and



Type 151S

Type 151K Type 156C

Type 151F

Type 153E

MIRCONA are presently offering the market's most extensive range of parting-off and grooving tools embracing tool holders for radial external and internal machining, grooving, holders and inserts for relief grooves, full-radiuis grooves, O-ring grooves and circlip grooves. The programme includes cutting widths from 0.5 mm to 12 mm and shank sizes from 10x10 to 50x40







Type 158S



Type

Inserts for parting-off and grooving



Type 151B



Type 151RF

Insert type MT.



Insert type MT with chip-breaker c.



Insert type MS with chip former.



Insert type R/LMS with chip former.



Insert type MT with chip-breaker b.



Insert type MT with corner radius for Oring grooves.



Insert type MZ with chip former.

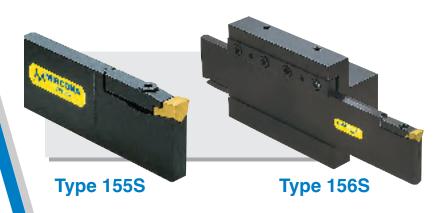


Insert type R/LMZ with chip former.

grooving tools



The inserts for parting-off and grooving are manufactured in uncoated and CVD/PVD coated carbide, cermet, ceramics, CBN and PCD in a number of different cutting geometries for most applications in different materials.





Type 158E





159S



Type 157S-00



Type 157S





Insert type MP with chip former.





Insert type B for relief grooves.

MA



Insert type MA



Insert type R/LMA with chip former.





Insert type E with chip-breaker b.



th Insert type G for circlip grooves and smaller groove widths.

MB



Insert type MB for fullradius grooves, turning and profiling.

K

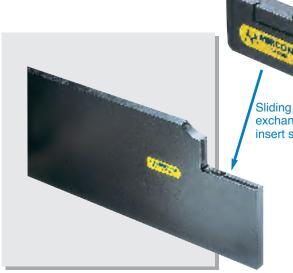


Insert type K in ceramics.



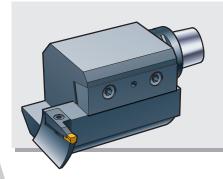
Type 157B

MIRCONA heavy duty tools for parting-off and grooving in large diameter work-pieces





Sliding blade with exchangeable insert seat.



Adapter for the polygon coupling system enabling use of conventional turning tools.

Side and face cutters from 100 o 315 mm in diameter.





Milling cutters







Face mills from 32 to 500 mm in diameter.



diameter.



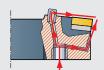


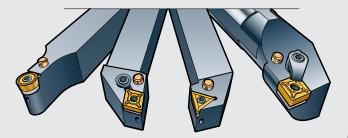


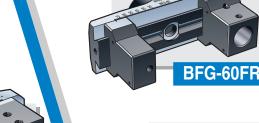
Square mills from 40 to 250 mm in diameter.



MIRCONA micrlubrication system for turning EB

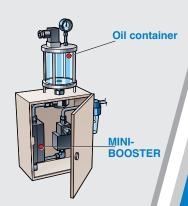


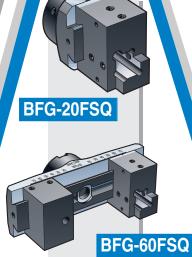


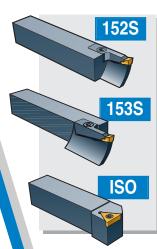


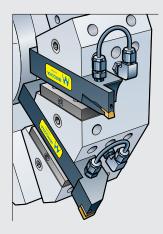
BFG-20FR

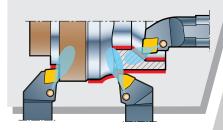




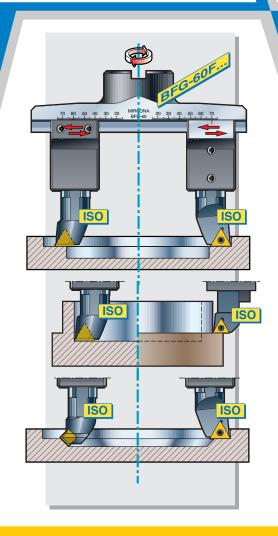


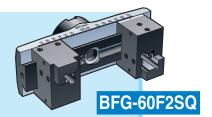






MIRCONA ACCU-LUBE ECO/MINIBOOSTER system is based on the use of a vegetable oil that through a MINIBOOSTER is turned into micro-drops of oil and air. The mixture is supplied through the tool holder onto the cutting edge, where it forms an extremely efficient lubrication film.





MIRCONA boring heads BFG-20F.. and BFG-60F...

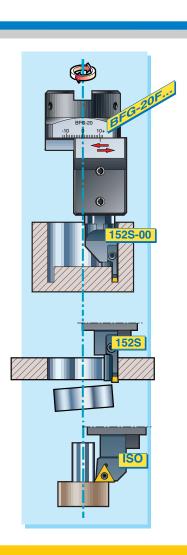


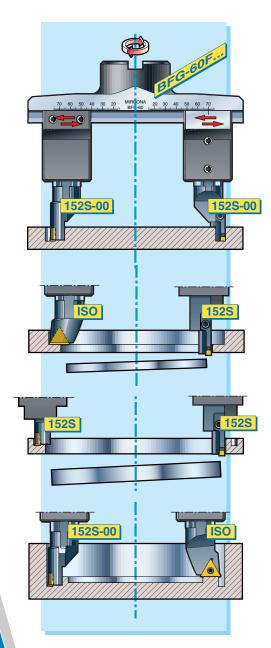


BFG-20F.. and BFG-60F..

To save time and cost you can transform your milling machine or machining centre to a "lathe" and essentially increase the productivity by completing the machining in one set-up.

With MIRCONA boring head BFG-20F.. (diameter range < 20 – 60 mm) and BFG-60F... (diameter-range < 60–190 mm), face grooving, trepanning, external or internal turning can be made with a rotating tool in a milling machine or machining centre.





..... dependant on the machining operation BFG-20FSQ or BFG-60FSQ, may be mounted with square tool holder shanks (type 152S, 153S or an ISO tool holder), and BFG-20FR or BFG-60FR, with round tool holder shanks (type 152S-00 or an ISO tool holder).

BFG-60F2SQ or BFG-60F2R may be mounted with two tool holders simultaneously.

