Material

Plaster for impression taking (type I)
Alabaster plaster (type II)
Hard plaster (type III)
Extra hard plaster (type IV)

Material properties

Easy to cut
Super hard plaster can easily chip when trimming
Wet plaster tends to smear
Blade configuration needs to allow for easy chip removal

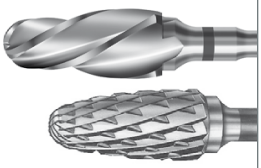
Plaster
Fabrication of models

❶ Working on stone dies

TC cutters with coarse toothing
opt. 15.000 rpm

● **H79SGFA**.104.070

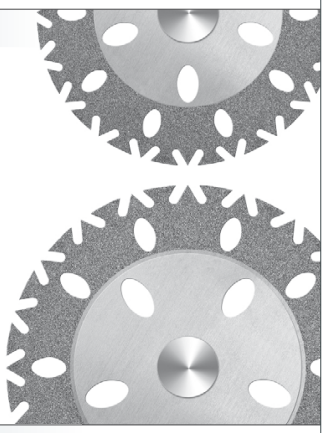
● **H251GEA**.104.060



❷ Cutting segments

Diamond discs
opt. 10.000 rpm

987P.104.400
987P.104.480



❸ Exposing the dowel pins

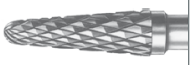
TC cutter
opt. 10.000 rpm

H98.104.040

❹ Trimming model teeth

TC cutter with E toothing
opt. 15.000 rpm

H79E.104.040



❺ Shaping preparation margins

TC cutter with EF toothing
opt. 15.000 rpm

● **H77EF**.104.023

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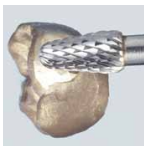


Material properties
alloy with high gold content
< 120 HV
soft/medium hard – difficult to cut

Alloy with contents of gold
120 – 160 HV
Hard/extra-hard – difficult to cut
Increased penetration resistance

Reduced alloys 260 – 300 HV
Slighty smearing – easy to cut
Increased heat generation

Precious metals
Crown and bridge technique

❶ Separating sprues

Elastic fibre-reinforced separating disc
opt. 20.000 rpm

9528.900.220

❷ Eliminating sprue residues

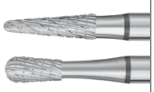
TC cutters with e toothing
opt. 15.000 rpm (< 120 +> 260 HV)
opt. 25.000 rpm (120 – 260 HV)

H 351 E.104.040
H 71.104.010 (eliminating sprue residues)

❸ Fine/ultra-fine cutting

TC cutters with UM toothing
opt. 15.000 rpm (< 120 +> 260 HV)
opt. 25.000 rpm (120 – 260 HV)

● **H 138 UM**.104.023
● **H 77 UM**.104.023



❹ Roughening veneer surfaces

TC cutter with DF toothing
opt. 15.000 rpm (< 120 +> 260 HV)
opt. 25.000 rpm (120 – 260 HV)

● **H 138 DF**.104.023

❺ Shaping occlusal surfaces

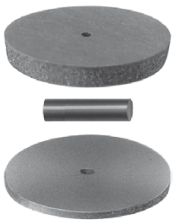
TC finishing instruments
opt. 15.000 rpm (< 120 +> 260 HV)
opt. 25.000 rpm (120 – 260 HV)

H 390 E.104.016 / ● **H 390 EF**.104.016
H 23 RS.104.009
H 349.104.005

❻ Polishing

opt. 6.000 rpm

9572.900.220 / **9661**.000.030
(blue: universal polishing)
9614.900.220 / **9522M**.900.030
(brown: silky finish)
9624.900.220 / **9522F**.900.030
(green: high-shine finish)



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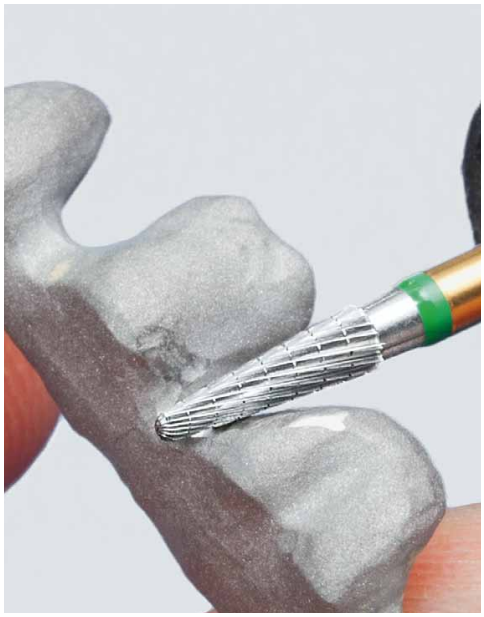
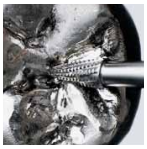
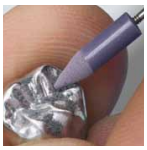






Material properties
Hard, tough
Difficult to cut
Increased penetration resistance
Increased heat generation

Non-precious metal alloys
Crown and bridge technique

❶ Separating sprues

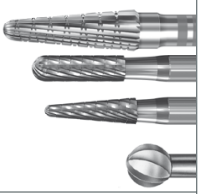
Elastic fibre-reinforced separating disc
opt. 20.000 rpm

9529.900.220

❷ Initial trimming

TC cutters with NE/NEX toothing
opt. 15.000 rpm

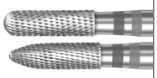
●● **H 79 NE**.104.040
● **H 129 NEX**.104.023
● **H 138 NEX**.104.023
H 71.104.010 (Eliminating sprue residues)



❸ Fine/ultra-fine trimming

TC cutters with NEX/NEF toothing
opt. 15.000 – 20.000 rpm

●● **H 129 NEF**.104.023
●● **H 139 NEF**.104.023



❹ Shaping occlusal surfaces

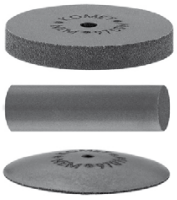
TC finishing instruments
opt. 15.000 rpm

H 349.104.005
● **H 33 FRS**.104.010
●● **H 390 Q**.104.014
● **H 136 ES**.104.016

❺ Polishing

for non-precious metal alloys Polishers
opt. 6.000 rpm

purple: polishing	light purple: high-shine polishing
9703M.900.220	**9703F**.900.220
9702M.900.060	**9702F**.900.060
9701M.900.220	**9701F**.900.220
9704M.900.030	**9704F**.900.030



❻ Fine corrections

silver wire brush
opt. 6.000 rpm

9637.900.220

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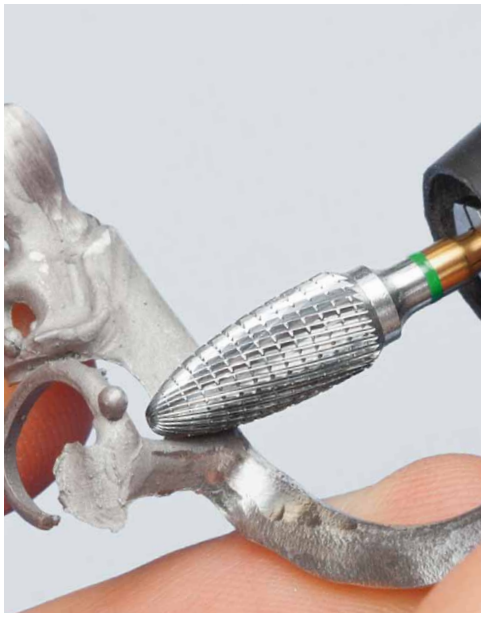


Material properties
Hard, tough
Difficult to cut
Increased penetration resistance
Increased heat generation

Model cast

❶ Separating sprues

Fibre-reinforced separating disc

opt. 10.000 rpm

9530.900.400

Mandrel
305.104.080

❷ Initial cutting

TC cutters with NE/NEX toothing
opt. 15.000 – 20.000 rpm

●● **H 79 NE**.104.040

● **H 251 NEX**.104.060

❸ Fine/ultra-fine cutting

TC cutters with NeF toothing
opt. 20.000 rpm

●● **H 129 NEF**.104.023

●● **H 138 NEF**.104.023

❹ Shaping occlusal surface

TC burs
opt. 15.000 rpm

H 71.104.010

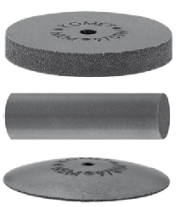
H 30.104.008 – 016

● **H 33 FRS**.104.009

❺ Polishing

for non-precious metal alloys Polishers
opt. 6.000 rpm

purple: polishing	light purple: high-shine polishing
9703M.900.220	**9703F**.900.220
9702M.900.060	**9702F**.900.060
9701M.900.220	**9701F**.900.220
9704M.900.030	**9704F**.900.030



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Material
Pure titanium/Grade 5
Material properties
Hard, tough
Spark generation possible

Titanium
Crown and bridge Technique

❶ Separating sprues

Elastic fibre-reinforced separating disc
opt. 20.000 rpm

9529.900.220

❷ Initial trimming

TC cutters with GTi toothing
opt. 15.000 rpm

- **H 79 GTi**.104.040
- **H 129 GTi**.104.023
- **H 138 GTi**.104.023

H 71.104.008 (eliminating sprue residues)

❸ Fine trimming

TC cutters with NE- and GTi toothing
opt. 15.000 rpm

- **H 129 NE**.104.023
- **H 138 NE**.104.023
- **H 136 GTi**.104.016

❹ Ultra-fine trimming

TC cutters with NEF toothing
opt. 15.000 rpm

- **H 129 NEF**.104.023
- **H 138 NEF**.104.023

❺ Shaping occlusal surfaces

TC finishing instruments
opt. 15.000 rpm

H 349.104.005
- **H 33 FRS**.104.010
- **H 390 Q**.104.014

❻ Polishing

for non-precious metal alloys Polishers
opt. 6.000 rpm

purple: polishing	light purple: high-shine polishing
9703M.900.220	**9703F**.900.220
9702M.900.060	**9702F**.900.060
9701M.900.220	**9701F**.900.220
9704M.900.030	**9704F**.900.030

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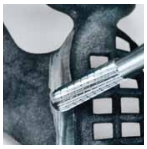


Material
Pure titanium/Grade 5
Material properties
Hard, tough
spark generation possible

Titanium
Partial prosthetics

❶ Separating sprues

Fibre-reinforced separating disc
opt. 10.000 rpm

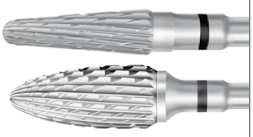
9530.900.400

❷ Initial trimming

TC cutters with GTi toothing
opt. 15.000 rpm

● **H 79 GTi**.104.040

● **H 251 GTi**.104.060



❸ Fine trimming

TC cutters with NE toothing
opt. 15.000 rpm

●● **H 129 NE**.104.023
●● **H 138 NE**.104.023

❹ Ultra-fine trimming

TC cutters with NEF toothing
opt. 15.000 rpm

●● **H 129 NEF**.104.023
●● **H 138 NEF**.104.023

❺ Fine corrections

TC burs and finishing instruments
opt. 15.000 rpm

H 71.104.010
H 30.104.008 – 016
● **H 33 FRS**.104.009

❻ Polishing

for non-precious metal alloys Polishers
opt. 6.000 rpm

purple: polishing	light purple: high-shine polishing
9703M.900.220	**9703F**.900.220
9702M.900.060	**9702F**.900.060
9701M.900.220	**9701F**.900.220
9704M.900.030	**9704F**.900.030

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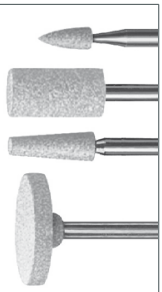
Material properties
Hard, brittle
Difficult to cut
Very high penetration resistance

Ceramics
Veneers

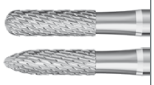
❶ Shaping



DCB abrasives
opt. 12.000 rpm

DCB1.104.025
DCB2.104.065 / ● **DCB2C**.104.065
DCB3.104.040 / ● **DCB3C**.104.040
DCB4.104.120 / ● **DCB4C**.104.120

Soft ceramics
TC cutters with UK toothing
opt. 25.000 rpm



○ **H 129 UK**.104.023
○ **H 139 UK**.104.023

❷ Occlusal shaping

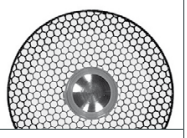
TC burs

H 97 BZ.314.011
H 99.104.008

Diamond abrasive tools
opt. 25.000 rpm

805 A.104.023
805.104.012

❸ Interdental – Fine trimming



Hyperflex diamond disc
opt. 15.000 rpm

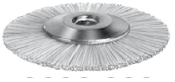
● **6934**.104.220

❹ Polishing

Polishers interspersed with diamond grit
opt. 6.000 rpm

blue (pre-polishing)	pink (polishing)	grey (high-shine polishing)
9697.900.180	**9698**.900.180	**9699**.900.180
94001C.104.055	**94001M**.104.055	**94001F**.104.055
94003C.104.260	**94003M**.104.260	**94003F**.104.260

❺ Rework



Goat hair brush
opt. 6.000 rpm

9638.900.220 (removal of polishing paste residues)

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Material properties
easy-medium to cut
Low penetration resistance

Composite
Veneers

❶ Shaping

TC cutters with UK toothing
opt. 25.000 rpm

○ **H 138 UK**.104.023
○ **H 139UK**.104.023

❷ Occlusal shaping

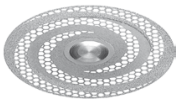
Triangular TC cutters
opt. 15.000 rpm

H 97.104.010
H 349.104.005
H 30.104.008–016

❸ Interdental – Fine trimming

Hyperflex diamond disc
opt. 15.000 rpm

● **6924**.104.180



❹ Polishers

Polishers interspersed with diamond grit
opt. 6.000 rpm

9687.900.180
(light blue: pre-polishing of proximal surfaces)

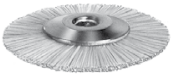
9688.900.180
(light pink: polishing of proximal surfaces)

9689.900.180
(light grey: high-shine polishing of proximal surfaces)

❺ Rework

Goat hair brush
opt. 6.000 rpm

9638.900.220 (removal of polishing paste residues)



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Material properties
Easy to cut
Low penetration resistence

Denture acrylics
Full dentures

❶ Shaping

TC and ceramic cutters with FSQ/EQ/ACR toothing
opt. 15.000 rpm

e.g. ● **H 79 FSQ**.104.070

e.g. ● **H 251 EQ**.104.060
(Dual cutter: coarse, fine tip)

e.g. ● **K 251 ACR**.104.060

❷ Labial/buccal frenum

TC cutter with FSQ or Q toothing
opt. 15.000 rpm

● **H 261 FSQ**.104.023

❸ Preparation of dental pockets

TC cutter with EF toothing
opt. 15.000 rpm

● **H 136 EF**.104.016

❹ Interdental – fine trimming

Hyperflex diamond disc
opt. 15.000 rpm

946.104.220

❺ Shaping the occlusion

Diamond grinding instrument
opt. 15.000 rpm

801.104.035

❻ Polishing

Acrylic polisher
opt. 6.000 rpm

9603.104.100 (green: initial polishing)
9641.104.100 (grey: polishing)
9644.104.100 (yellow: high-shine polishing)

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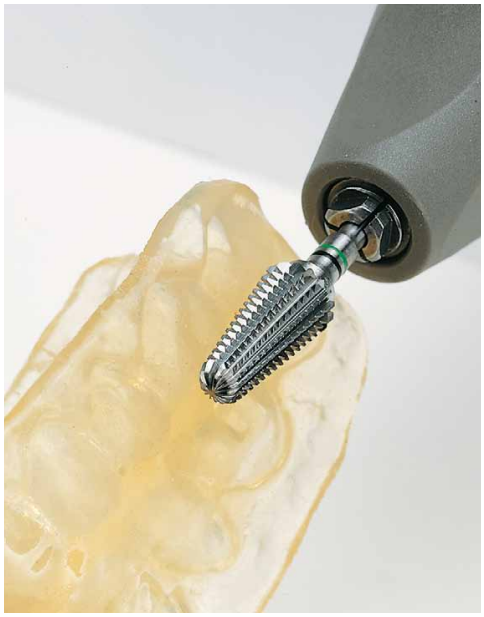


Material properties
Elastic
Difficult to cut
Increased resistance to penetration

Relines
Positioner/Gingiva masks

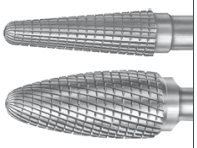
Relines

❶ Shaping

TC cutters with FSQ toothing
opt. 15.000 rpm

e.g. **H 79 FSQ**.104.040/070

e.g. **H 251 FSQ**.104.060



❷ Labial/buccal frenum

TC cutter with FSQ toothing
opt. 15.000 rpm

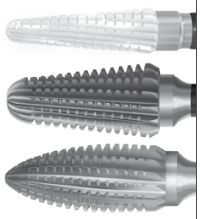
H 261 FSQ.104.023

Positioner/Gingiva masks

❶ Shaping

TC and ceramic cutters
with GSQ toothing
opt. 15.000 rpm

e.g. **K79 GSQ**.104.040
H 79 GSQ.104.070
H 251 GSQ.104.060



❷ Labial/buccal frenum

TC and ceramic cutters
with GSQ toothing
opt. 15.000 rpm

K261GSQ.104.023
H 261 GSQ.104.023

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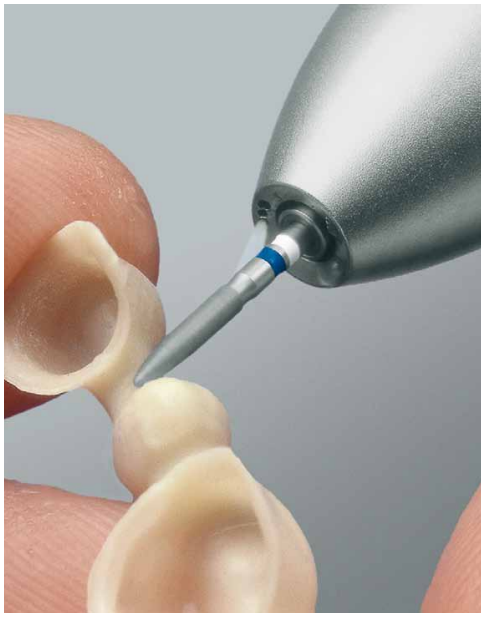
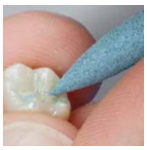
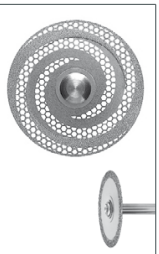




Material properties
very hard
difficult to cut
increased resistance
to penetration
temperature sensitive

Zirconium oxide ZrO_2
Crowns and bridges
Work on abutments

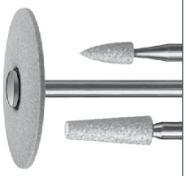
❶ Separation of holding pins



Diamond discs
Green body: handpiece, ↻opt. 20.000 rpm
● **6924**.104.180
Sintered:
Turbine with spray, ↻opt. 160.000 rpm
●○ **ZR943**.314.100

❷ Trimming

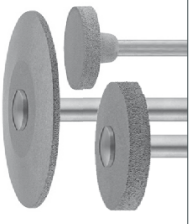
Cutters/diamond abrasives
Green body:
Handpiece
↻opt. 20.000 rpm
● **K6974**.104.220
825.104.060
859.104.018
○ **H73EUF**.104.014



In hard condition:
Handpiece
↻opt. 12.000 rpm
DCB1.104.025
DCB3.104.040 / ● **DCB3C**.104.040
DCB5.104.220

Turbine with spray
↻opt. 160.000 rpm
●○ **ZR6856**.314.025
●○ **ZR862**.314.016
●○ **ZR379**.314.014
●○ **ZR8801L**.315.008/010/014/018
●○ **ZR8379L**.315.014/023

❸ Polishing (sintered only!)



Diamond polishers
↻opt. 6.000 rpm

blue: pre-polishing	grey: high-shine polishing
94011C.104.260	**94011F**.104.260
94012C.104.110	**94012F**.104.110
94013C.104.170	**94013F**.104.170
94018C.104.055	**94018F**.104.055

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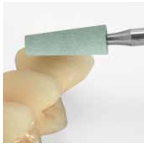


Material properties
hard
difficult to cut
increased resistance
to penetration
temperature sensitive

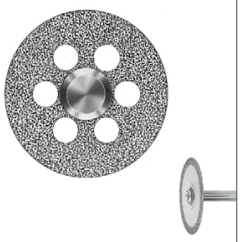
Pressed ceramics
Crowns and bridges

❶ Deflasking

Stable diamond disc
↻opt. 10.000 rpm

● **924XC**.104.400

❷ Separation of casting sprues



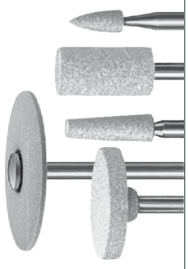
Diamond discs
Handpiece, ↻opt. 15.000 rpm

918PB.104.220

Turbine with spray, ↻opt. 160.000 rpm

●○ **ZR943**.314.100

❸ Trimming



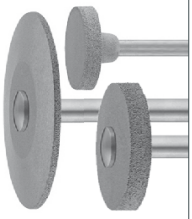
Diamond abrasives
Handpiece
↻opt. 12.000 rpm

DCB1.104.025
DCB2.104.065 / **DCB2**.104.048/● **DCB2C**.104.065
DCB3.104.040 /● **DCB3C**.104.040
DCB4.104.120 /● **DCB4C**.104.120
DCB5.104.220
DCB6.104.120

Turbine with spray
↻opt. 160.000 rpm

●○ **ZR6856**.314.025
●○ **ZR862**.314.016
●○ **ZR379**.314.014
●○ **ZR8801L**.315.008/010/014/018
●○ **ZR8379L**.315.014/023

❹ Polishing



Diamond polishers
↻opt. 6.000 rpm

blue: pre-polishing	grey: high-shine polishing
94011C.104.260	**94011F**.104.260
94012C.104.110	**94012F**.104.110
94013C.104.170	**94013F**.104.170
94018C.104.055	**94018F**.104.055

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