

YUC SMART INSERTS 2013

FOCUS ON ISO TURNING INSERTS

YOUR UNIVERSAL CHOICE

Production characteristics

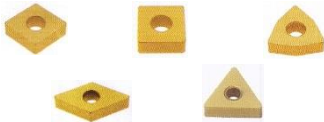
- Limited series
- Various daily production set ups

Tooling characteristics

- Multiple application environment
- Reliable cutting features

YUC Edition

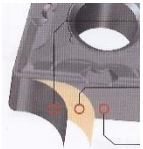
- 5 Negative shapes



- 4 Positive shapes



- 2 Coated grades



CVD

PVD

substrate

- 5 Finish CN.. chip breakers



- 5 Rough CN.. chip breakers



YOUR DEDICATED CHOICE

Production characteristics

- Large series
- Extreme intensive production

Tooling characteristics

- Focussed application environment
- High cutting performance

YDC Edition

- Shapes, grades and chip breakers for

P - Steel

M - Stainless steel

K - Cast iron

N - Non ferrous materials

S - Heat resistant materials

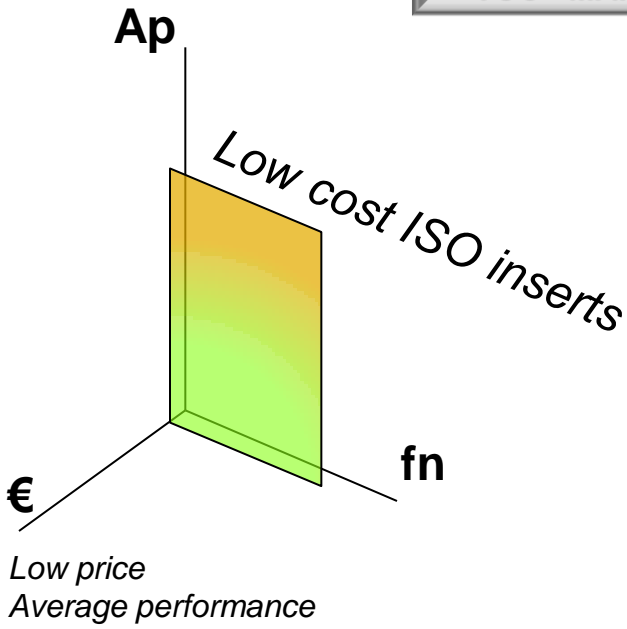
- 4 Standard CN.. chip breakers



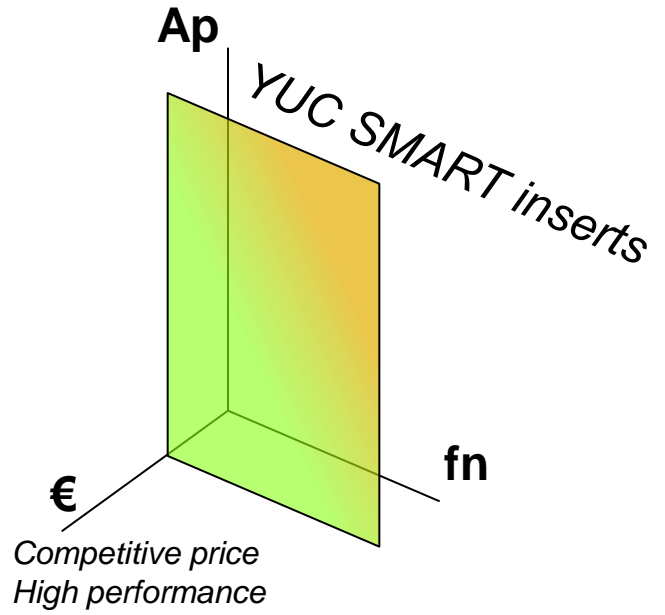
- 4 Positive CC.. chip breakers



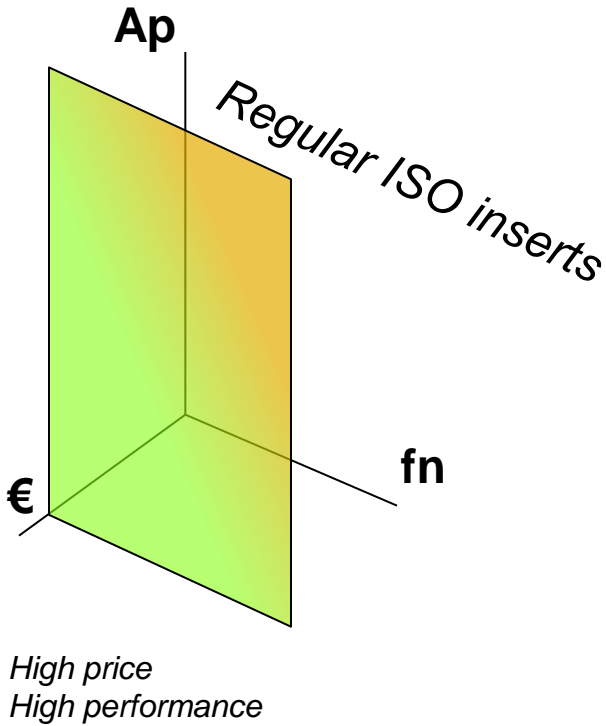
YUC - MARKET POSITION



Poor price / performance ratio



Strong price / performance ratio



Average price / performance ratio

YUC SMART INSERT CODE

C N M G 12 04 08 CS PVD PMKS T

- Insert shape and nose angle

C shape	- 80°
D shape	- 55°
S shape	- 90°
T shape	- 60°
W shape	- 80°

C N M G 12 04 08 CS PVD PMKS T

- Relief angle

B	- 5°
C	- 7°
N	- 0°

C N *M* G 12 04 08 CS PVD PMKS T

- Tolerance

G - fine	d±0.025	m±0.025	t±0.13
M - coarse	d±0.005	m±0.080	t±0.13

C N M G 12 04 08 CS PVD PMKS T

- Cross section

G	- double sided	negative insert
M	- single sided	negative insert
T	- single sided	positive insert

C N M G 12 04 08 CS PVD PMKS T

- Approximate metric edge length

06	- 6 mm
07	- 7 mm
08	- 8 mm
09	- 9 mm
11	- 11 mm
12	- 12 mm
15	- 15 mm
16	- 16 mm
19	- 19 mm
22	- 22 mm
25	- 25 mm

C N M G 12 *04* 08 CS PVD PMKS T

- Metric insert thickness description

02	- 2.38 mm
03	- 3.18 mm
T3	- 3.97 mm
04	- 4.76 mm
06	- 6.35 mm
07	- 7.94 mm
09	- 9.52 mm

YUC SMART INSERT CODE

C N M G 12 04 08 CS PVD PMKS T

- Metric insert radius dimension

02	- 0.2 mm
04	- 0.4 mm
08	- 0.8 mm
12	- 1.2 mm
16	- 1.6 mm
24	- 2.4 mm

C N M G 12 04 08 CS PVD PMKS T

- Chip breaker type

FF	- fine finishing
MF	- medium finishing
UF	- universal finishing
VFS	- very fine standard
MS	- medium standard
US	- universal standard
CS	- coarse standard
WS	- wiper standard
VFR	- very fine roughing
FR	- fine roughing
MR	- medium roughing
UR	- universal roughing
CR	- coarse roughing

C N M G 12 04 08 CS PVD PMKS T

- Substrate and coating

PVD - physical vapour deposition
CVD - chemical vapour deposition

C N M G 12 04 08 CS PVD PMKS T

- Workpiece material application

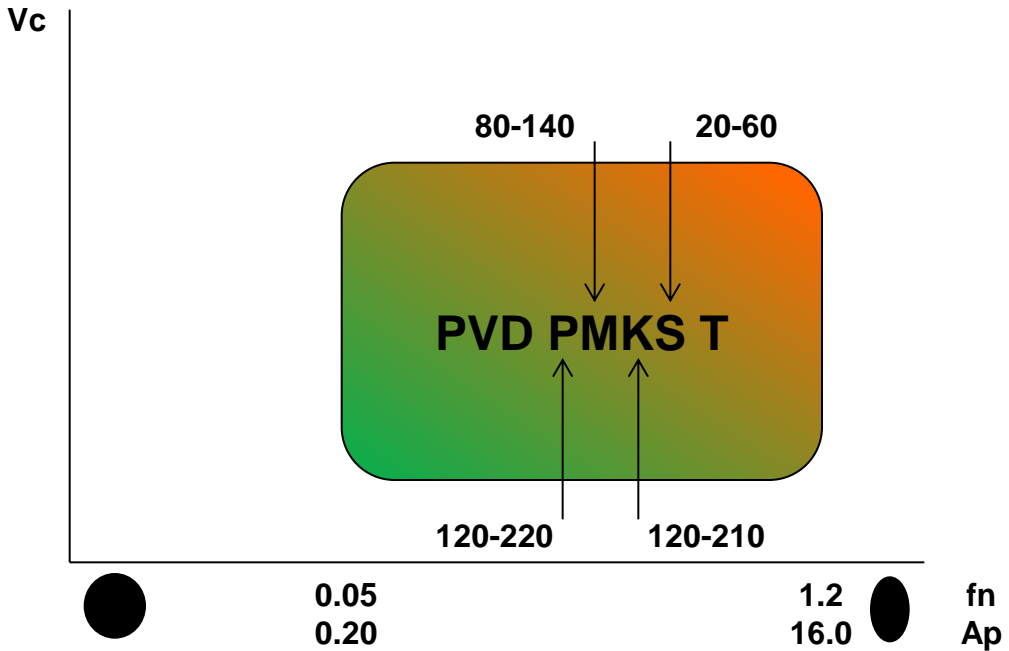
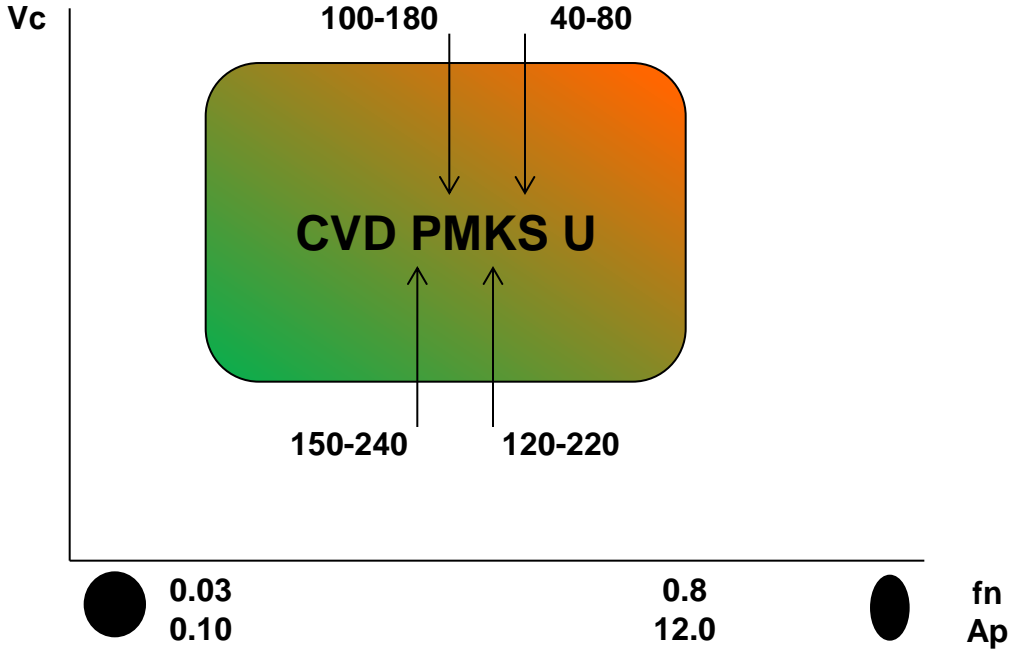
P	- steel
M	- stainless steel
K	- cast iron
S	- heat resistant steel

C N M G 12 04 08 CS PVD PMKS T

- Operation area

U	- universal
T	- though

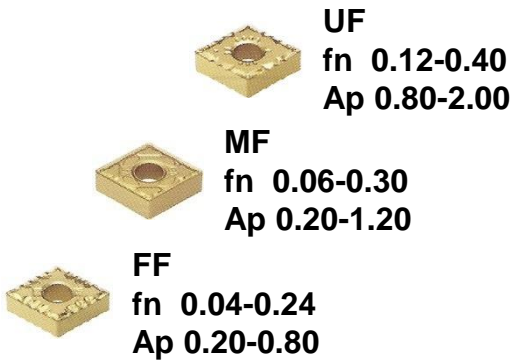
Starting values Vc






Starting values A_p and f_n

A_p

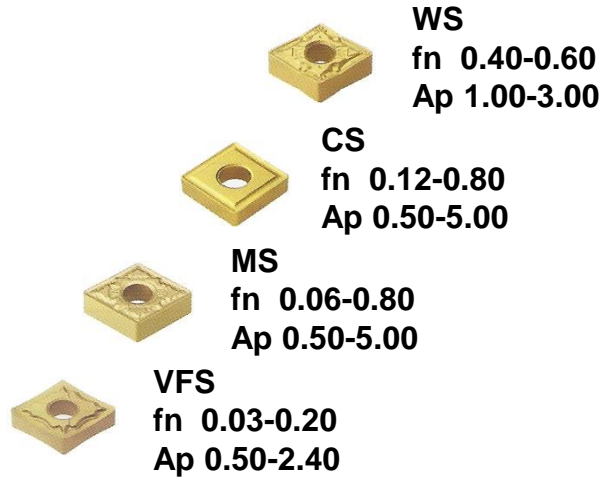
3 CN.. finish chip breakers







-  Excellent chip control during copying fn
-  High cutting edge strength on various A_p values
-  Chip control at corner radius machining

A_p

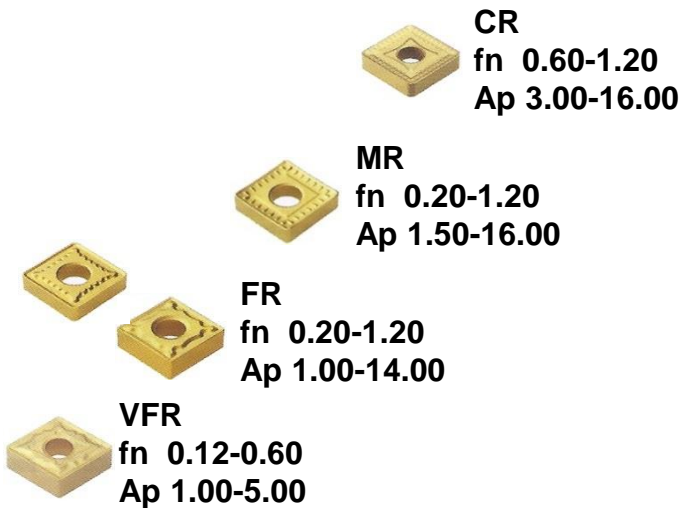
4 CN.. standard chip breakers







-  Sharp cutting edge for M / S and N materials fn
-  Wide A_p range with chip control
-  Strong and reliable cutting edge
-  Wiper geometry for high feed rates

A_p

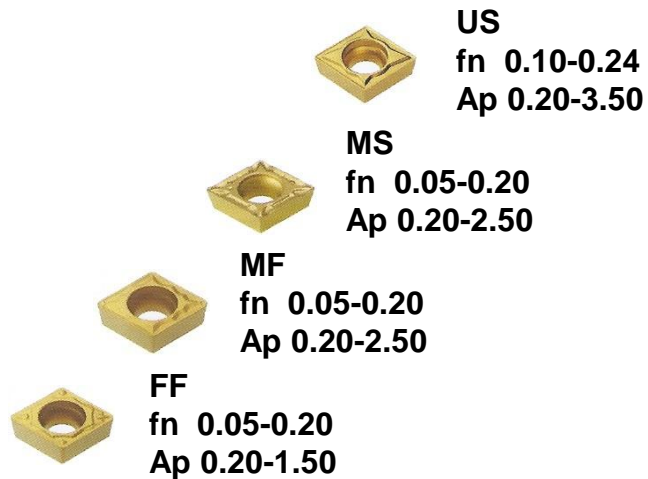
4 + 1 CN.. rough chip breakers







-  Excellent cutting in M materials fn
-  Heavy duty cutting
-  Special for intermitted cutting
- 

A_p

4 CC.. positive chip breakers



-  Excellent chip control on low A_p values fn
-  Wide A_p range with chip control on M materials
-  Geometry with low cutting forces
-  High cutting edge strength on various A_p values

CN.. negative shape - 80°



YUC finishing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

CNMG FF



CNMG 120404 FF CVD PMKS U
CNMG 120408 FF CVD PMKS U

Ap

fn

0.20 - 0.40
0.40 - 0.80

0.04 - 0.12
0.08 - 0.24

CNMG MF



CNMG 090304 MF CVD PMKS U
CNMG 090308 MF CVD PMKS U

0.40 - 0.60
0.80 - 1.20

0.06 - 0.16
0.12 - 0.32

CNMG 120404 MF CVD PMKS U
CNMG 120408 MF CVD PMKS U

0.40 - 1.00
0.80 - 1.50

0.06 - 0.16
0.12 - 0.32

CNMG UF



CNMG 120408 UF CVD PMKS U

0.50 - 2.00

0.12 - 0.32

CN.. negative shape - 80°



YUC standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

CNMG VFS



CNMG 120404 VFS PVD PMKS T
CNMG 120408 VFS PVD PMKS T

Ap	fn
0.50 - 1.20	0.04 - 0.12
1.00 - 2.40	0.08 - 0.24

CNMG MS



CNMG 090304 MS CVD PMKS U
CNMG 090308 MS CVD PMKS U

0.50 - 2.00	0.10 - 0.20
1.00 - 3.00	0.20 - 0.40

CNMG 120404 MS CVD PMKS U
CNMG 120408 MS CVD PMKS U
CNMG 120408 MS PVD PMKS T
CNMG 120412 MS CVD PMKS U
CNMG 120416 MS CVD PMKS U

0.50 - 3.00	0.12 - 0.20
1.00 - 4.00	0.16 - 0.40
1.00 - 4.00	0.16 - 0.40
1.50 - 5.00	0.24 - 0.60
2.00 - 5.00	0.48 - 0.80

CNMG CS



CNMG 120404 CS PVD PMKS T
CNMG 120408 CS PVD PMKS T

0.50 - 4.00	0.12 - 0.20
1.00 - 5.00	1.60 - 0.40

CNMG WS



CNMG 120408 WS CVD PMKS U

0.50 - 3.00	0.20 - 0.60
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CN.. negative shape - 80°



YUC roughing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

CNMG VFR



	Ap	fn
CNMG 120404 VFR PVD PMKS T	1.50 - 4.50	0.10 - 0.20
CNMG 120408 VFR PVD PMKS T	1.50 - 4.50	0.20 - 0.40
CNMG 120412 VFR PVD PMKS T	1.50 - 4.50	0.30 - 0.60
CNMG 190612 VFR PVD PMKS T	2.00 - 7.00	0.30 - 0.60
CNMG 190616 VFR PVD PMKS T	2.00 - 7.00	0.40 - 0.80

CNMG FR



CNMG 120408 FR CVD PMKS U	1.00 - 4.00	0.20 - 0.40
CNMG 120412 FR CVD PMKS U	1.50 - 5.00	0.30 - 0.60
CNMG 160612 FR CVD PMKS U	1.50 - 7.00	0.30 - 0.60
CNMG 190608 FR CVD PMKS U	2.00 - 8.00	0.20 - 0.40
CNMG 190612 FR CVD PMKS U	2.00 - 8.00	0.30 - 0.60
CNMG 190616 FR CVD PMKS U	2.00 - 8.00	0.40 - 0.80
CNMG 250924 FR CVD PMKS U	4.00 - 14.00	0.60 - 1.20

CNMM MR



CNMM 120408 MR CVD PMKS U	1.50 - 6.00	0.20 - 0.40
CNMM 190608 MR CVD PMKS U	1.00 - 10.00	0.20 - 0.40
CNMM 190612 MR CVD PMKS U	1.50 - 10.00	0.30 - 0.60
CNMM 190616 MR CVD PMKS U	2.00 - 10.00	0.40 - 0.80
CNMM 190624 MR CVD PMKS U	3.00 - 10.00	0.60 - 1.20
CNMM 250924 MR CVD PMKS U	3.00 - 16.00	0.60 - 1.20

CNMM CR



CNMM 190612 CR CVD PMKS U	1.50 - 10.00	0.30 - 0.60
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CC.. positive shape - 80°



YUC finishing to standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

CC.T FF



	Ap	fn
CCGT 060202 FF PVD PMKS T	0.20 - 1.50	0.03 - 0.06
CCGT 09T304 FF PVD PMKS T	0.20 - 1.50	0.05 - 0.10
CCGT 09T308 FF PVD PMKS T	0.20 - 2.00	0.10 - 0.20
CCMT 09T302 FF CVD PMKS U	0.20 - 1.50	0.03 - 0.06
CCMT 09T304 FF CVD PMKS U	0.20 - 2.00	0.05 - 0.10

CCMT MF



CCMT 060204 MF PVD PMKS T	0.20 - 1.50	0.05 - 0.12
CCMT 060204 MF CVD PMKS U	0.20 - 1.50	0.05 - 0.12
CCMT 060208 MF CVD PMKS U	0.30 - 2.00	0.10 - 0.24
CCMT 09T302 MF CVD PMKS U	0.20 - 1.50	0.03 - 0.06
CCMT 09T304 MF CVD PMKS U	0.30 - 2.00	0.05 - 0.12
CCMT 09T308 MF CVD PMKS U	0.40 - 2.50	0.10 - 0.24
CCMT 120404 MF PVD PMKS T	0.30 - 3.00	0.05 - 0.12
CCMT 120408 MF PVD PMKS T	0.40 - 3.00	0.10 - 0.24
CCMT 120408 MF CVD PMKS U	0.40 - 3.00	0.10 - 0.24

CCMT MS



CCMT 060202 MS PVD PMKS T	0.20 - 1.50	0.03 - 0.06
CCMT 060204 MS PVD PMKS T	0.20 - 1.50	0.05 - 0.12
CCMT 09T304 MS PVD PMKS T	0.30 - 2.00	0.05 - 0.12
CCMT 09T308 MS PVD PMKS T	0.40 - 2.50	0.10 - 0.24

CCMT US



CCMT 060204 US CVD PMKS U	0.20 - 1.50	0.08 - 0.16
CCMT 060204 US PVD PMKS T	0.20 - 1.50	0.08 - 0.16
CCMT 060208 US PVD PMKS T	0.30 - 2.00	0.10 - 0.24

CC.. positive shape - 80°



YUC finishing to standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

CCMT US



	Ap	fn
CCMT 09T304 US CVD PMKS U	0.30 - 2.50	0.08 - 0.16
CCMT 09T304 US PVD PMKS T	0.30 - 2.50	0.08 - 0.16
CCMT 09T308 US CVD PMKS U	0.40 - 3.00	0.10 - 0.30
CCMT 09T308 US PVD PMKS T	0.40 - 3.00	0.10 - 0.30
CCMT 120404 US CVD PMKS U	0.30 - 3.00	0.08 - 0.16
CCMT 120408 US CVD PMKS U	0.40 - 3.50	0.10 - 0.30

CC.. positive shape - 80°
 CN.. negative shape - 80°



YUC aluminium machining

Non coated grade

Vc N in m/min

NON N H

150 - 600

CCGT ALFF



CCGT 060202 ALFF NON N H
 CCGT 060204 ALFF NON N H
 CCGT 060208 ALFF NON N H

CCGT 09T302 ALFF NON N H
 CCGT 09T304 ALFF NON N H
 CCGT 09T308 ALFF NON N H

CCGT 120402 ALFF NON N H
 CCGT 120404 ALFF NON N H
 CCGT 120408 ALFF NON N H

CCGT ALUS



CCGT 060202 ALUS NON N H
 CCGT 060204 ALUS NON N H
 CCGT 060208 ALUS NON N H

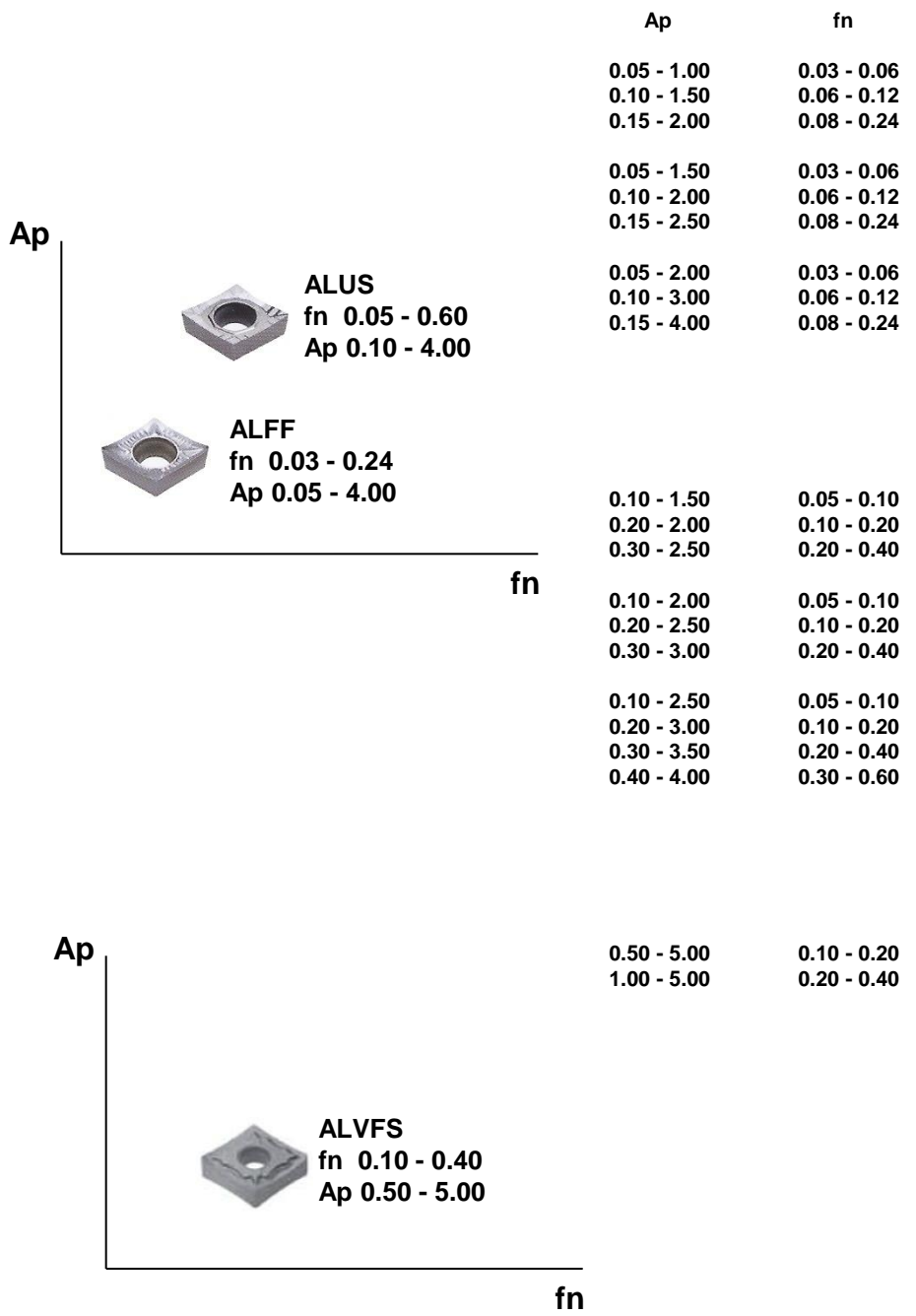
CCGT 09T302 ALUS NON N H
 CCGT 09T304 ALUS NON N H
 CCGT 09T308 ALUS NON N H

CCGT 120402 ALUS NON N H
 CCGT 120404 ALUS NON N H
 CCGT 120408 ALUS NON N H
 CCGT 120412 ALUS NON N H

CNMG ALVFS



CNMG 120404 ALVFS NON N H
 CNMG 120408 ALVFS NON N H



Ap

fn

0.05 - 1.00

0.03 - 0.06

0.10 - 1.50

0.06 - 0.12

0.15 - 2.00

0.08 - 0.24

0.05 - 1.50

0.03 - 0.06

0.10 - 2.00

0.06 - 0.12

0.15 - 2.50

0.08 - 0.24

0.05 - 2.00

0.03 - 0.06

0.10 - 3.00

0.06 - 0.12

0.15 - 4.00

0.08 - 0.24

0.10 - 1.50

0.05 - 0.10

0.20 - 2.00

0.10 - 0.20

0.30 - 2.50

0.20 - 0.40

0.10 - 2.00

0.05 - 0.10

0.20 - 2.50

0.10 - 0.20

0.30 - 3.00

0.20 - 0.40

0.10 - 2.50

0.05 - 0.10

0.20 - 3.00

0.10 - 0.20

0.30 - 3.50

0.20 - 0.40

0.40 - 4.00

0.30 - 0.60

0.50 - 5.00

0.10 - 0.20

1.00 - 5.00

0.20 - 0.40

ALVFS

fn 0.10 - 0.40

Ap 0.50 - 5.00

fn

DN.. negative shape - 55°



YUC finishing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

DNMG MF



DNMG 110404 MF CVD PMKS U

Ap

fn

0.10 - 0.40

0.04 - 0.12

DNMG 150604 MF CVD PMKS U

0.10 - 0.40

0.04 - 0.12

DNMG 150608 MF CVD PMKS U

0.20 - 0.80

0.08 - 0.24

DNMG UF



DNMG 150408 UF CVD PMKS U

0.40 - 2.00

0.08 - 0.24

DNMG 150608 UF CVD PMKS U

0.40 - 2.00

0.08 - 0.24

DN.. negative shape - 55°



YUC standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

DNMG MS



	Ap	fn
DNMG 110408 MS CVD PMKS U	1.00 - 3.00	0.16 - 0.32
DNMG 150408 MS CVD PMKS U	1.00 - 4.00	0.16 - 0.32
DNMG 150604 MS CVD PMKS U	1.00 - 4.00	0.08 - 0.24
DNMG 150608 MS CVD PMKS U	1.00 - 4.00	0.16 - 0.32
DNMG 150608 MS PVD PMKS T	1.00 - 4.00	0.16 - 0.32
DNMG 160612 MS CVD PMKS U	1.00 - 4.00	0.24 - 0.48

DNMG CS



DNMG 150604 CS CVD PMKS U	1.00 - 6.00	0.12 - 0.24
DNMG 150608 CS CVD PMKS U	1.00 - 6.00	0.20 - 0.40
DNMG 150612 CS CVD PMKS U	1.00 - 6.00	0.30 - 0.60

DN.. negative shape - 55°



YUC roughing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

DNMG VFR



	Ap	fn
DNMG 150404 VFR PVD PMKS T	0.20 - 4.00	0.08 - 0.24
DNMG 150408 VFR PVD PMKS T	0.20 - 4.00	0.16 - 0.32
DNMG 150412 VFR PVD PMKS T	0.20 - 4.00	0.24 - 0.48
DNMG 150604 VFR PVD PMKS T	0.20 - 4.00	0.08 - 0.24
DNMG 150608 VFR PVD PMKS T	0.20 - 4.00	0.16 - 0.32

DNMG FR



	Ap	fn
DNMG 150408 FR PVD PMKS T	0.50 - 4.00	0.16 - 0.32
DNMG 150604 FR PVD PMKS T	0.50 - 4.00	0.08 - 0.24
DNMG 150608 FR PVD PMKS T	0.50 - 4.00	0.16 - 0.32

DNMG UR



	Ap	fn
DNMG 150608 UR CVD PMKS U	1.00 - 5.00	0.16 - 0.32
DNMG 150616 UR CVD PMKS U	1.00 - 5.00	0.32 - 0.72

DC.. positive shape - 55°



YUC finishing to standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

DC.T FF



	Ap	fn
DCMT 070202 FF CVD PMKS U	0.10 - 1.00	0.03 - 0.06
DCGT 11T308 FF PVD PMKS T	0.20 - 2.00	0.10 - 0.20
DCMT 11T302 FF CVD PMKS U	0.10 - 1.00	0.03 - 0.06

DCMT MF



DCMT 070202 MF CVD PMKS U	0.20 - 1.50	0.05 - 0.10
DCMT 070204 MF CVD PMKS U	0.20 - 1.50	0.12 - 0.20
DCMT 11T302 MF CVD PMKS U	0.20 - 1.50	0.08 - 0.16
DCMT 11T304 MF CVD PMKS U	0.20 - 2.00	0.12 - 0.20
DCMT 11T308 MF CVD PMKS U	0.20 - 2.00	0.20 - 0.30
DCMT 11T304 MF PVD PMKS T	0.20 - 2.00	0.12 - 0.20
DCMT 11T308 MF PVD PMKS T	0.20 - 2.00	0.20 - 0.30

DCMT MS



DCMT 070204 MS PVD PMKS T	0.20 - 1.50	0.08 - 0.16
DCMT 11T304 MS PVD PMKS T	0.20 - 2.00	0.08 - 0.16
DCMT 11T308 MS PVD PMKS T	0.20 - 2.00	0.20 - 0.30

DCMT US



DCMT 070204 US CVD PMKS U	0.20 - 2.00	0.08 - 0.16
DCMT 11T304 US CVD PMKS U	0.20 - 2.50	0.08 - 0.16
DCMT 11T308 US CVD PMKS U	0.20 - 2.50	0.20 - 0.30

DC.. positive shape - 55°
 DN.. negative shape - 55°



YUC aluminium machining

Non coated grade

Vc N in m/min

NON N H

150 - 600

DCGT ALFF



DCGT 070202 ALFF NON N H
 DCGT 070204 ALFF NON N H
 DCGT 070208 ALFF NON N H

DCGT 11T302 ALFF NON N H
 DCGT 11T304 ALFF NON N H
 DCGT 11T308 ALFF NON N H
 DCGT 11T312 ALFF NON N H

DCGT ALUS



DCGT 070202 ALUS NON N H
 DCGT 070204 ALUS NON N H
 DCGT 070208 ALUS NON N H

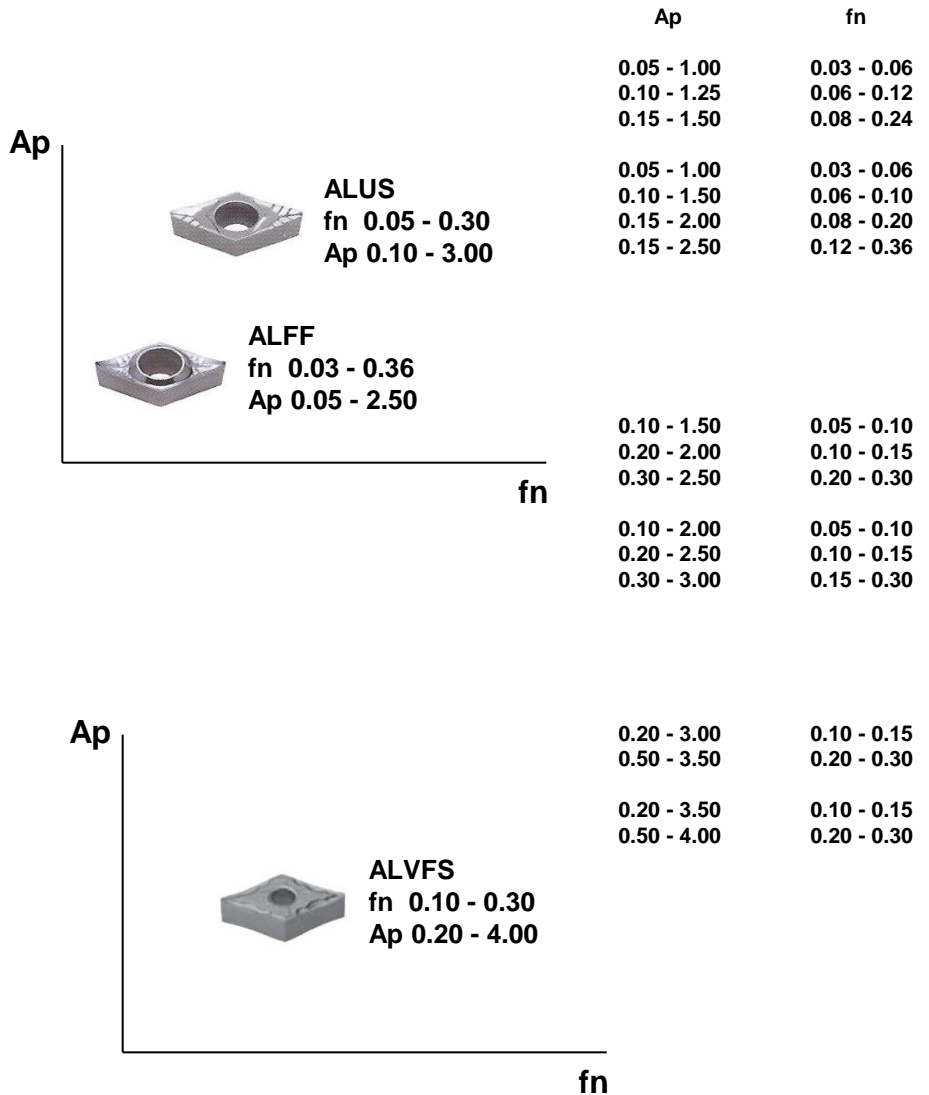
DCGT 11T302 ALUS NON N H
 DCGT 11T304 ALUS NON N H
 DCGT 11T308 ALUS NON N H

DNMG ALVFS



DNMG 150404 ALVFS NON N H
 DNMG 150408 ALVFS NON N H

DNMG 150604 ALVFS NON N H
 DNMG 150608 ALVFS NON N H



TN.. negative shape - 60°



YUC finishing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

TNMG MF



	Ap	fn
TNMG 110304 MF CVD PMKS U	0.10 - 1.00	0.04 - 0.12
TNMG 160404 MF CVD PMKS U	0.10 - 1.00	0.04 - 0.12
TNMG 160408 MF CVD PMKS U	0.20 - 1.50	0.08 - 0.24
TNMG 220404 MF CVD PMKS U	0.20 - 2.00	0.04 - 0.12

TNMG UF



TNMG 160408 UF CVD PMKS U	0.30 - 2.50	0.08 - 0.24
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TN.. negative shape - 60°



YUC standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

TNMG MS



TNMG 160404 MS CVD PMKS U
 TNMG 160408 MS CVD PMKS U
 TNMG 160408 MS PVD PMKS T
 TNMG 160412 MS CVD PMKS U

TNMG 220408 MS CVD PMKS U

Ap

fn

1.00 - 5.00 0.10 - 0.20
 1.00 - 5.00 0.20 - 0.40
 1.00 - 5.00 0.20 - 0.40
 1.00 - 5.00 0.30 - 0.60

TNMG CS



TNMG 220404 CS CVD PMKS U
 TNMG 220408 CS CVD PMKS U

2.00 - 6.00 0.15 - 0.25
 2.00 - 6.00 0.25 - 0.45

TN.. negative shape - 60°



YUC roughing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

TNMG VFR



TNMG 160404 VFR PVD PMKS T
TNMG 160408 VFR PVD PMKS T

TNMG 220408 VFR PVD PMKS T

Ap

fn

1.00 - 4.00

0.10 - 0.20

1.00 - 4.00

0.15 - 0.40

1.00 - 6.00

0.15 - 0.40

TNMG MR



TNMG 220408 MR CVD PMKS U

1.50 - 7.00

0.15 - 0.40

TC.. positive shape - 60°



YUC finishing to standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

TCMT FF



TCMT 110204 FF CVD PMKS U

Ap

fn

0.10 - 1.50

0.05 - 0.10

TCMT MF



TCMT 110204 MF CVD PMKS U

0.20 - 2.00

0.05 - 0.10

TCMT 110208 MF CVD PMKS U

0.20 - 2.00

0.10 - 0.20

TCMT 110204 MF PCD PMKS T

0.20 - 2.00

0.05 - 0.10

TCMT 11T308 MF PVD PMKS T

0.20 - 2.00

0.10 - 0.20

TCMT 16T304 MF CVD PMKS U

0.25 - 3.00

0.05 - 0.10

TCMT 16T308 MF CVD PMKS U

0.25 - 3.00

0.10 - 0.20

TCMT 16T304 MF PVD PMKS T

0.25 - 3.00

0.05 - 0.10

TCMT 16T308 MF PVD PMKS T

0.25 - 3.00

0.10 - 0.20

TCMT MS



TCMT 110204 MS PVD PMKS T

0.30 - 1.50

0.10 - 0.20

TCMT 110208 MS PVD PMKS T

0.30 - 1.50

0.15 - 0.40

TCMT US



TCMT 090204 US CVD PMKS U

0.50 - 2.00

0.12 - 0.24

TCMT 110204 US CVD PMKS U

0.50 - 2.50

0.12 - 0.24

TCMT 110208 US CVD PMKS U

0.50 - 2.50

0.15 - 0.45

TC.. positive shape - 60°
TN.. negative shape - 60°



YUC aluminium machining

Non coated grade

Vc N in m/min

NON N H

150 - 600

TCGT ALFF



TCGT 090202 ALFF NON N H
 TCGT 090204 ALFF NON N H

TCGT 11T302 ALFF NON N H
 TCGT 11T304 ALFF NON N H
 TCGT 11T308 ALFF NON N H

TCGT 16T302 ALFF NON N H
 TCGT 16T304 ALFF NON N H
 TCGT 16T308 ALFF NON N H
 TCGT 16T312 ALFF NON N H
 TCGT 16T316 ALFF NON N H

TCGT ALUS



TCGT 090204 ALUS NON N H

TCGT 11T304 ALUS NON N H
 TCGT 11T308 ALUS NON N H

TCGT 16T302 ALUS NON N H
 TCGT 16T304 ALUS NON N H
 TCGT 16T308 ALUS NON N H

TNMG ALVFS



TNMG 160404 ALVFS NON N H
 TNMG 160408 ALVFS NON N H

Ap

fn

0.05 - 1.00 0.03 - 0.06
 0.10 - 1.50 0.06 - 0.12

0.05 - 1.50 0.03 - 0.06
 0.10 - 2.00 0.06 - 0.12
 0.15 - 2.50 0.08 - 0.24

0.05 - 2.00 0.03 - 0.06
 0.10 - 3.00 0.06 - 0.12
 0.15 - 4.00 0.10 - 0.24
 0.20 - 4.50 0.12 - 0.36
 0.25 - 5.00 0.16 - 0.48

Ap



ALUS
 fn 0.05 - 0.40
 Ap 0.10 - 3.50



ALFF
 fn 0.03 - 0.48
 Ap 0.05 - 5.00

fn

0.20 - 2.00 0.10 - 0.20
 0.20 - 2.50 0.10 - 0.20
 0.30 - 3.00 0.20 - 0.40

0.10 - 2.50 0.05 - 0.10
 0.20 - 3.00 0.10 - 0.20
 0.30 - 3.50 0.20 - 0.40

Ap



ALVFS
 fn 0.10 - 0.30
 Ap 0.20 - 4.00

fn

0.20 - 3.50 0.10 - 0.15
 0.50 - 4.00 0.20 - 0.30

SN.. negative shape - 90°



YUC finishing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

SNMG MF



	Ap	fn
SNMG 090308 MF CVD PMKS U	0.50 - 1.50	0.10 - 0.30
SNMG 120404 MF CVD PMKS U	0.50 - 1.50	0.10 - 0.20
SNMG 120408 MF CVD PMKS U	0.50 - 1.50	0.15 - 0.30

SN.. negative shape - 90°



YUC standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

SNMG MS



	Ap	fn
SNMG 090308 MS CVD PMKS U	0.50 - 3.00	0.20 - 0.40
SNMG 120404 MS CVD PMKS U	1.00 - 5.00	0.12 - 0.20
SNMG 120408 MS CVD PMKS U	1.00 - 5.00	0.16 - 0.40
SNMG 120412 MS CVD PMKS U	1.00 - 5.00	0.24 - 0.60

SNMG CS



SNMG 120404 CS CVD PMKS U	1.00 - 5.00	0.12 - 0.24
SNMG 120408 CS CVD PMKS U	1.00 - 5.00	0.20 - 0.40
SNMG 120408 CS PVD PMKS T	1.00 - 5.00	0.20 - 0.40
SNMG 120412 CS CVD PMKS U	1.00 - 5.00	0.30 - 0.60
SNMG 120416 CS CVD PMKS U	1.00 - 5.00	0.40 - 0.80
SNMG 150608 CS CVD PMKS U	1.50 - 6.00	0.20 - 0.40
SNMG 190612 CS CVD PMKS U	3.00 - 8.00	0.30 - 0.60
SNMG 190616 CS CVD PMKS U	3.00 - 8.00	0.40 - 0.80
SNMG 250716 CS CVD PMKS U	4.00 - 12.00	0.40 - 0.80
SNMG 250724 CS CVD PMKS U	4.00 - 12.00	0.60 - 1.20

SN.. negative shape - 90°



YUC roughing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

SNMG VFR



	Ap	fn
SNMG 120404 VFR PVD PMKS T	1.00 - 4.50	0.05 - 0.20
SNMG 120408 VFR PVD PMKS T	1.00 - 4.50	0.10 - 0.30
SNMG 120412 VFR PVD PMKS T	1.00 - 4.50	0.20 - 0.40
SNMG 190612 VFR PVD PMKS T	1.00 - 8.00	0.20 - 0.40
SNMG 190616 VFR PVD PMKS T	1.00 - 8.00	0.30 - 0.60

SNMM MR



	Ap	fn
SNMM 120408 MR CVD PMKS U	1.50 - 6.00	0.20 - 0.40
SNMM 150612 MR CVD PMKS U	2.50 - 7.00	0.30 - 0.60
SNMM 190612 MR CVD PMKS U	3.00 - 8.00	0.30 - 0.60
SNMM 190616 MR CVD PMKS U	3.00 - 8.00	0.40 - 0.80
SNMM 190624 MR CVD PMKS U	3.00 - 8.00	0.60 - 1.20
SNMM 250924 MR CVD PMKS U	4.00 - 12.00	0.60 - 1.20

SNMM CR



	Ap	fn
SNMM 190612 CR CVD PKMS U	5.00 - 12.00	0.30 - 0.60

SN.. negative shape - 80°



YUC aluminium machining

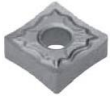
Non coated grade

Vc N in m/min

NON N H

150 - 600

SNMG ALVFS



SNMG 120404 ALVFS NON N H
SNMG 120408 ALVFS NON N H

Ap

fn

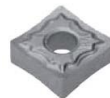
1.00 - 3.50

0.04 - 0.20

1.00 - 3.50

0.08 - 0.30

Ap



ALVFS
fn 0.04 - 0.30
Ap 1.00 - 3.50

fn

WN.. negative shape - 80°



YUC finishing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

WNMG MF



WNMG 080404 MF CVD PMKS U
WNMG 080408 MF CVD PMKS U

Ap

fn

0.20 - 1.00
0.20 - 1.00

0.05 - 0.10
0.10 - 0.20

WNMG UF



WNMG 080408 UF CVD PMKS U

0.50 - 3.00

0.10 - 0.20

WN.. negative shape - 80°



YUC standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

WNMG MS



	Ap	fn
WNMG 060404 MS CVD PMKS U	0.50 - 3.00	0.10 - 0.20
WNMG 060408 MS CVD PMKS U	0.50 - 3.00	0.20 - 0.40
WNMG 080404 MS CVD PMKS U	1.00 - 4.00	0.10 - 0.20
WNMG 080408 MS CVD PMKS U	1.00 - 4.00	0.20 - 0.40
WNMG 080412 MS CVD PMKS U	1.00 - 4.00	0.30 - 0.60

WN.. negative shape - 80°



YUC roughing operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

WNMG VFR



	Ap	fn
WNMG 060404 VFR PVD PMKS T	0.50 - 2.50	0.05 - 0.15
WNMG 060408 VFR PVD PMKS T	0.50 - 2.50	0.15 - 0.30
WNMG 060412 VFR PVD PMKS T	0.50 - 2.50	0.25 - 0.50
WNMG 080408 VFR PVD PMKS T	0.50 - 3.00	0.15 - 0.30

WNMG MR



	Ap	fn
WNMG 060408 MR PVD PMKS T	1.00 - 3.00	0.20 - 0.40
WNMG 080404 MR PVD PMKS T	1.00 - 4.00	0.10 - 0.20
WNMG 080408 MR PVD PKMS T	1.00 - 4.00	0.20 - 0.40

WNMG UR



	Ap	fn
WNMG 080408 UR CVD PMKS U	1.50 - 4.50	0.20 - 0.40
WNMG 080412 UR CVD PMKS U	1.50 - 4.50	0.30 - 0.60

WNMG CR



	Ap	fn
WNMG 080408 CR CVD PMKS U	1.50 - 4.50	0.20 - 0.40

WN.. negative shape - 80°



YUC aluminium machining

Non coated grade

Vc N in m/min

NON N H

150 - 600

WNMG ALVFS



WNMG 060404 ALVFS NON N H
WNMG 060408 ALVFS NON N H

WNMG 080404 ALVFS NON N H
WNMG 080408 ALVFS NON N H

Ap

fn

1.00 - 2.50

0.10 - 0.20

1.00 - 2.50

0.20 - 0.40

1.00 - 4.00

0.10 - 0.20

1.00 - 4.00

0.20 - 0.40

Ap



ALVFS

fn 0.10 - 0.40

Ap 1.00 - 4.00

fn

VB.. / VC.. positive shape - 35°



YUC finishing to standard operations

Coated grade	Vc P in m/min	Vc M in m/min	Vc K in m/min	Vc S in m/min
CVD PMKS U	150 - 240	100 - 180	120 - 220	40 - 80
PVD PMKS T	120 - 220	80 - 140	120 - 210	20 - 60

VBMT FF



VBMT 160404 FF PVD PMKS T
VBMT 160408 FF PVD PMKS T

Ap

fn

0.20 - 1.00
0.20 - 1.00

0.08 - 0.12
0.16 - 0.24

VBMT MF



VBMT 160404 MF CVD PMKS U
VBMT 160408 MF CVD PMKS U
VBMT 160408 MF PVD PMKS T

0.20 - 2.00
0.20 - 2.00
0.20 - 2.00

0.08 - 0.14
0.16 - 0.28
0.16 - 0.28

VCMT MS



VCMT 080208 MS CVD PMKS U

0.20 - 1.00

0.16 - 0.28

VC.. positive shape - 35°



YUC aluminium machining

Non coated grade

Vc N in m/min

NON N H

150 - 600

VCGT ALFF



VCGT 110302 ALFF NON N H
 VCGT 110304 ALFF NON N H
 VCGT 110308 ALFF NON N H

Ap	fn
0.05 - 1.50	0.03 - 0.06
0.10 - 1.50	0.06 - 0.12
0.15 - 1.50	0.08 - 0.24

VCGT 130302 ALFF NON N H
 VCGT 130204 ALFF NON N H

0.05 - 2.00	0.03 - 0.06
0.05 - 2.00	0.06 - 0.12

VCGT 160402 ALFF NON N H
 VCGT 160404 ALFF NON N H
 VCGT 160408 ALFF NON N H
 VCGT 160412 ALFF NON N H

0.05 - 2.50	0.03 - 0.06
0.10 - 2.50	0.06 - 0.12
0.15 - 2.50	0.10 - 0.24
0.20 - 2.50	0.12 - 0.36

VCGT 220530 ALFF NON N H

0.50 - 6.00	0.50 - 1.00
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VCGT ALUS



VCGT 110302 ALUS NON N H
 VCGT 110304 ALUS NON N H
 VCGT 110308 ALUS NON N H

0.05 - 1.50	0.03 - 0.08
0.10 - 1.50	0.06 - 0.14
0.15 - 1.50	0.08 - 0.28

VCGT 130302 ALUS NON N H
 VCGT 130204 ALUS NON N H

0.05 - 2.00	0.03 - 0.08
0.05 - 2.00	0.06 - 0.14

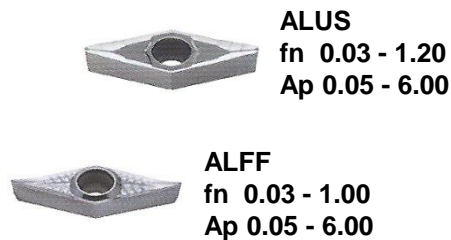
VCGT 160402 ALUS NON N H
 VCGT 160404 ALUS NON N H
 VCGT 160408 ALUS NON N H
 VCGT 160412 ALUS NON N H

0.05 - 2.50	0.03 - 0.08
0.10 - 2.50	0.06 - 0.14
0.15 - 2.50	0.10 - 0.28
0.20 - 2.50	0.12 - 0.40

VCGT 220530 ALUS NON N H

0.50 - 6.00	0.80 - 1.20
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Ap



fn

Code

Net price list10 pcs.
€ / piece30 pcs.
€ / piece≥ 50 pcs.
€ / piece**CNMG FF - FINISHING OPERATIONS**

CNMG 120404 FF CVD PMKS U	6.20	5.40	4.60
CNMG 120408 FF CVD PMKS U	6.20	5.40	4.60

CNMG MF - FINISHING OPERATIONS

CNMG 090304 MF CVD PMKS U	5.10	4.40	4.10
CNMG 090308 MF CVD PMKS U	5.10	4.40	4.10

CNMG 120404 MF CVD PMKS U	6.20	5.40	4.60
CNMG 120408 MF CVD PMKS U	6.20	5.40	4.60

CNMG UF - FINISHING OPERATIONS

CNMG 120408 UF CVD PMKS U	6.20	5.40	4.60
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CNMG VFS - STANDARD OPERATIONS

CNMG 120404 VFS PVD PMKS T	6.20	5.40	4.60
CNMG 120408 VFS PVD PMKS T	6.20	5.40	4.60

CNMG MS - STANDARD OPERATIONS

CNMG 090304 MS CVD PMKS U	5.10	4.40	4.10
CNMG 090308 MS CVD PMKS U	5.10	4.40	4.10

CNMG 120404 MF CVD PMKS U	6.20	5.40	4.60
CNMG 120408 MF CVD PMKS U	6.20	5.40	4.60
CNMG 120408 MF PVD PMKS T	6.20	5.40	4.60
CNMG 120412 MF CVD PMKS U	6.20	5.40	4.60
CNMG 120416 MF VCD PMKS U	6.20	5.40	4.60

CNMG CS - STANDARD OPERATIONS

CNMG 120404 CS PVD PMKS T	6.20	5.40	4.60
CNMG 120408 CS PVD PMKS T	6.20	5.40	4.60

CNMG WS - STANDARD OPERATIONS

CNMG 120408 WS CVD PMKS U	6.60	5.70	5.30
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Code

*Net price list*10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**CNMG VFR - ROUGHING OPERATIONS**

CNMG 120404 VFR PVD PMKS T	6.20	5.40	4.60
CNMG 120408 VFR PVD PMKS T	6.20	5.40	4.60
CNMG 120412 VFR PVD PMKS T	6.20	5.40	4.60
CNMG 190612 VFR PVD PMKS T	12.10	10.50	9.70
CNMG 190616 VFR PVD PMKS T	12.10	10.50	9.70

CNMG FR - ROUGHING OPERATIONS

CNMG 120408 FR CVD PMKS U	6.20	5.40	4.60
CNMG 120412 FR CVD PMKS U	6.20	5.40	4.60
CNMG 160612 FR CVD PMKS U	9.00	7.80	7.20
CNMG 190608 FR CVD PMKS U	12.10	10.50	9.70
CNMG 190612 FR CVD PMKS U	12.10	10.50	9.70
CNMG 190616 FR CVD PMKS U	12.10	10.50	9.70
CNMG 250924 FR CVD PMKS U	25.70	22.20	20.50

CNMM MR - ROUGHING OPERATIONS

CNMM 120408 MR CVD PMKS U	6.20	5.40	4.60
CNMM 190608 MR CVD PMKS U	12.10	10.50	9.70
CNMM 190612 MR CVD PMKS U	12.10	10.50	9.70
CNMM 190616 MR CVD PMKS U	12.10	10.50	9.70
CNMM 190624 MR CVD PMKS U	12.10	10.50	9.70
CNMM 250924 MR CVD PMKS U	25.70	22.20	20.50

CNMM CR - ROUGHING OPERATIONS

CNMM 190612 CR CVD PMKS U	12.10	10.50	9.70
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Code

Net price list10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**CC.T FF - FINISHING OPERATONS**

CCGT 060202 FF PVD PMKS T	7.80	6.80	6.20
CCGT 09T304 FF PVD PMKS T	9.20	7.90	7.30
CCGT 09T308 FF PVD PMKS T	9.20	7.90	7.30
CCMT 09T302 FF CVD PMKS U	6.10	5.30	4.90
CCMT 09T304 FF CVD PMKS U	6.10	5.30	4.90

CCMT MF - FINISHING OPERATONS

CCMT 060204 MF PVD PMKS T	5.20	4.50	4.20
CCMT 060204 MF CVD PMKS U	5.20	4.50	4.20
CCMT 060208 MF CVD PMKS U	5.20	4.50	4.20
CCMT 09T302 MF CVD PMKS U	6.10	5.30	4.90
CCMT 09T304 MF CVD PMKS U	6.10	5.30	4.90
CCMT 09T308 MF CVD PMKS U	6.10	5.30	4.90
CCMT 120404 MF PVD PMKS T	7.10	6.20	5.70
CCMT 120408 MF PVD PMKS T	7.10	6.20	5.70
CCMT 120408 MF CVD PMKS U	7.10	6.20	5.70

CCMT MS - STANDARD OPERATONS

CCMT 060202 MS PVD PMKS T	5.20	4.50	4.20
CCMT 060204 MS PVD PMKS T	5.20	4.50	4.20
CCMT 09T304 MS PVD PMKS T	6.10	5.30	4.90
CCMT 09T308 MS PVD PMKS T	6.10	5.30	4.90

CCMT US - STANDARD OPERATONS

CCMT 060204 US CVD PMKS U	5.20	4.50	4.20
CCMT 060204 US PVD PMKS T	5.20	4.50	4.20
CCMT 060208 US CVD PMKS U	5.20	4.50	4.20
CCMT 09T304 US CVD PMKS U	6.10	5.30	4.90
CCMT 09T304 US PVD PMKS T	6.10	5.30	4.90
CCMT 09T308 US CVD PMKS U	6.10	5.30	4.90
CCMT 09T308 US PVD PMKS T	6.10	5.30	4.90
CCMT 120404 US CVD PMKS U	7.10	6.20	5.70
CCMT 120408 US CVD PMKS U	7.10	6.20	5.70

Code

Net price list10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**CCGT ALFF - ALUMINIUM MACHINING**

CCGT 060202 ALFF NON N H	6.80	5.90	5.40
CCGT 060204 ALFF NON N H	6.80	5.90	5.40
CCGT 060208 ALFF NON N H	6.80	5.90	5.40
CCGT 09T302 ALFF NON N H	8.00	7.00	6.40
CCGT 09T304 ALFF NON N H	8.00	7.00	6.40
CCGT 09T308 ALFF NON N H	8.00	7.00	6.40
CCGT 120402 ALFF NON N H	8.90	8.30	7.20
CCGT 120404 ALFF NON N H	8.90	8.30	7.20
CCGT 120408 ALFF NON N H	8.90	8.30	7.20

CCGT ALUS - ALUMINIUM MACHINING

CCGT 060202 ALUS NON N H	6.80	5.90	5.40
CCGT 060204 ALUS NON N H	6.80	5.90	5.40
CCGT 060208 ALUS NON N H	6.80	5.90	5.40
CCGT 09T302 ALUS NON N H	8.00	6.90	6.40
CCGT 09T304 ALUS NON N H	8.00	6.90	6.40
CCGT 09T308 ALUS NON N H	8.00	6.90	6.40
CCGT 120402 ALUS NON N H	8.90	8.30	7.20
CCGT 120404 ALUS NON N H	8.90	8.30	7.20
CCGT 120408 ALUS NON N H	8.90	8.30	7.20
CCGT 120412 ALUS NON N H	8.90	8.30	7.20

CNMG ALVFS - ALUMINUM MACHINING

CNMG 120404 ALVFS NON N H	5.60	4.90	4.20
CNMG 120408 ALVFS NON N H	5.60	4.90	4.20

Code

*Net price list*10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**DNMG MF - FINISHING OPERATIONS**

DNMG 110404 MF CVD PMKS U	5.90	5.10	4.70
DNMG 150604 MF CVD PMKS U	8.20	7.10	6.50
DNMG 150608 MF CVD PMKS U	8.20	7.10	6.50

DNMG UF - FINISHING OPERATIONS

DNMG 150408 UF CVD PMKS U	7.10	6.20	5.70
DNMG 150608 UF CVD PMKS U	8.20	7.10	6.50

DNMG MS - STANDARD OPERATIONS

DNMG 110408 MS CVD PMKS U	5.90	5.10	4.70
DNMG 150408 MS CVD PMKS U	7.10	6.20	5.70
DNMG 150604 MS CVD PMKS U	8.20	7.10	6.50
DNMG 150608 MS CVD PMKS U	8.20	7.10	6.50
DNMG 150608 MS PVD PMKS T	8.20	7.10	6.50
DNMG 160512 MS CVD PMKS U	8.20	7.10	6.50

DNMG CS - STANDARD OPERATIONS

DNMG 150604 CS CVD PMKS U	8.20	7.10	6.50
DNMG 150608 CS CVD PMKS U	8.20	7.10	6.50
DNMG 150612 CS CVD PMKS U	8.20	7.10	6.50

DNMG VFR - ROUGHING OPERATIONS

DNMG 150404 VFR PVD PMKS T	7.10	6.20	5.70
DNMG 150408 VFR PVD PMKS T	7.10	6.20	5.70
DNMG 150412 VFR PVD PMKS T	7.10	6.20	5.70
DNMG 150604 VFR PVD PMKS T	8.20	7.10	6.50
DNMG 150608 VFR PVD PMKS T	8.20	7.10	6.50

DNMG FR - ROUGHING OPERATIONS

DNMG 150408 FR PVD PMKS T	7.10	6.20	5.70
DNMG 150604 FR PVD PMKS T	8.20	7.10	6.50
DNMG 150608 FR PVD PMKS T	8.20	7.10	6.50

DNMG UR - ROUGHING OPERATIONS

DNMG 150608 UR CVD PMKS U	8.20	7.10	6.50
DNMG 150616 UR CVD PMKS U	8.20	7.10	6.50

Code

*Net price list*10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**DC.T FF - FINISHING OPERATONS**

DCMT 070202 FF CVD PMKS U	5.90	5.20	4.90
DCGT 11T308 FF PVD PMKS T	6.70	5.80	5.40
DCMT 11T302 FF CVD PMKS U	6.70	5.80	5.40

DCMT MF - FINISHING OPERATONS

DCMT 070202 MF CVD PMKS U	5.90	5.20	4.90
DCMT 070204 MF CVD PMKS U	5.90	5.20	4.90
DCMT 11T302 MF CVD PMKS U	6.70	5.80	5.40
DCMT 11T304 MF CVD PMKS U	6.70	5.80	5.40
DCMT 11T308 MF CVD PMKS U	6.70	5.80	5.40
DCMT 11T304 MF PVD PMKS T	6.70	5.80	5.40
DCMT 11T308 MF PVD PMKS T	6.70	5.80	5.40

DCMT MS - STANDARD OPERATONS

DCMT 070204 MS PVD PMKS T	5.90	5.20	4.90
DCMT 11T304 MS PVD PMKS T	6.70	5.80	5.40
DCMT 11T308 MS PVD PMKS T	6.70	5.80	5.40

DCMT US - STANDARD OPERATONS

DCMT 070204 US CVD PMKS U	5.90	5.20	4.90
DCMT 11T304 US CVD PMKS U	6.70	5.80	5.40
DCMT 11T308 US CVD PMKS U	6.70	5.80	5.40

Code

*Net price list*10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**DCGT ALFF - ALUMINIUM MACHINING**

DCGT 070202 ALFF NON N H	6.80	5.90	5.40
DCGT 070204 ALFF NON N H	6.80	5.90	5.40
DCGT 070208 ALFF NON N H	6.80	5.90	5.40
DCGT 11T302 ALFF NON N H	8.00	7.00	6.40
DCGT 11T304 ALFF NON N H	8.00	7.00	6.40
DCGT 11T308 ALFF NON N H	8.00	7.00	6.40
DCGT 11T312 ALFF NON N H	8.00	7.00	6.40

DCGT ALUS - ALUMINIUM MACHINING

DCGT 070202 ALUS NON N H	6.80	5.90	5.40
DCGT 070204 ALUS NON N H	6.80	5.90	5.40
DCGT 070208 ALUS NON N H	6.80	5.90	5.40
DCGT 11T302 ALUS NON N H	8.00	7.00	6.40
DCGT 11T304 ALUS NON N H	8.00	7.00	6.40
DCGT 11T308 ALUS NON N H	8.00	7.00	6.40

DNMG ALVFS - ALUMINIUM MACHINING

DNMG 150404 ALVFS NON N H	6.80	5.90	5.10
DNMG 150408 ALVFS NON N H	6.80	5.90	5.10
DNMG 150604 ALVFS NON N H	6.80	5.90	5.10
DNMG 150608 ALVFS NON N H	6.80	5.90	5.10

Code

Net price list10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**TNMG MF - FINISHING OPERATIONS**

TNMG 110304 MF CVD PMKS U	4.20	3.60	3.30
TNMG 160404 MF CVD PMKS U	5.00	4.40	4.00
TNMG 160408 MF CVD PMKS U	5.00	4.40	4.00
TNMG 220404 MF CVD PMKS U	7.20	6.20	5.80

TNMG UF - FINISHING OPERATIONS

TNMG 160408 UF CVD PMKS U	5.00	4,40	4.00
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TNMG MS - STANDARD OPERATIONS

TNMG 160404 MS CVD PMKS U	5.00	4.40	4.00
TNMG 160408 MS CVD PMKS U	5.00	4.40	4.00
TNMG 160408 MS PVD PMKS T	5.00	4.40	4.00
TNMG 160412 MS CVD PMKS U	5.00	4.40	4.00
TNMG 220408 MS CVD PMKS U	7.20	6.20	5.80

TNMG CS - STANDARD OPERATIONS

TNMG 220404 CS CVD PMKS U	7.20	6.20	5.80
TNMG 220408 CS CVD PMKS U	7.20	6.20	5.80

TNMG VFR - ROUGHING OPERATIONS

TNMG 160404 VFR PVD PMKS T	5.00	4.40	4.00
TNMG 160408 VFR PVD PMKS T	5.00	4.40	4.00

TNMG 220408 VFR PVD PMKS T

TNMG MR - ROUGHING OPERATIONS

TNMG 220408 MR CVD PMKS U	7.20	6.20	5.890
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Code

Net price list10 pcs.
€ / piece30 pcs.
€ / piece≥ 50 pcs.
€ / piece**TCMT FF - FINISHING OPERATIONS**

TCMT 110204 FF CVD PMKS U

5.20

4.50

4.20

TCMT MF - FINISHING OPERATIONS

TCMT 110204 MF CVD PMKS U

5.20

4.50

4.20

TCMT 110208 MF CVD PMKS U

5.20

4.50

4.20

TCMT 110204 MF PCD PMKS T

5.20

4.50

4.20

TCMT 11T308 MF PVD PMKS T

5.20

4.50

4.20

TCMT 16T304 MF CVD PMKS U

6.20

5.40

4.90

TCMT 16T308 MF CVD PMKS U

6.20

5.40

4.90

TCMT 16T304 MF PVD PMKS T

6.20

5.40

4.90

TCMT 16T308 MF PVD PMKS T

6.20

5.40

4.90

TCMT MS - STANDARD OPERATIONS

TCMT 110204 MS PVD PMKS T

5.20

4.50

4.20

TCMT 110208 MS PVD PMKS T

5.20

4.50

4.20

TCMT US - STANDARD OPERATIONS

TCMT 090204 US CVD PMKS U

4.80

4.10

3.80

TCMT 110204 US CVD PMKS U

5.20

4.50

4.20

TCMT 110208 US CVD PMKS U

5.20

4.50

4.20

Code

Net price list10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**TCGT ALFF - ALUMINIUM MACHINING**

TCGT 090202 ALFF NON N H	7.00	6.00	5.60
TCGT 090204 ALFF NON N H	7.00	6.00	5.60
TCGT 11T302 ALFF NON N H	7.00	6.00	5.60
TCGT 11T304 ALFF NON N H	7.00	6.00	5.60
TCGT 11T308 ALFF NON N H	7.00	6.00	5.60
TCGT 16T302 ALFF NON N H	8.80	7.60	7.00
TCGT 16T304 ALFF NON N H	8.80	7.60	7.00
TCGT 16T308 ALFF NON N H	8.80	7.60	7.00
TCGT 16T312 ALFF NON N H	8.80	7.60	7.00
TCGT 16T316 ALFF NON N H	8.80	7.60	7.00

TCGT ALUS - ALUMINIUM MACHINING

TCGT 090204 ALUS NON N H	7.00	6.00	5.60
TCGT 11T304 ALUS NON N H	7.00	6.00	5.60
TCGT 11T308 ALUS NON N H	7.00	6.00	5.60
TCGT 16T302 ALUS NON N H	8.80	7.60	7.00
TCGT 16T304 ALUS NON N H	8.80	7.60	7.00
TCGT 16T308 ALUS NON N H	8.80	7.60	7.00

TNMG ALVFS - ALUMINIUM MACHINING

TNMG 160404 VFS NON N H	4.80	4.20	3.60
TNMG 160408 VFS NON N H	4.80	4.20	3.60

Code

*Net price list*10 pcs.
€ / piece30 pcs.
€ / piece≥ 50 pcs.
€ / piece**SNMG MF - FINISHING OPERATION**

SNMG 090308 MF CVD PMKS U	5.00	4.40	4.00
SNMG 120404 MF CVD PMKS U	5.80	5.00	4.60
SNMG 120408 MF CVD PMKS U	5.80	5.00	4.60

SNMG MS - STANDARD OPERATION

SNMG 090308 MS CVD PMKS U	5.00	4.40	4.00
SNMG 120404 MS CVD PMKS U	5.80	5.00	4.60
SNMG 120408 MS CVD PMKS U	5.80	5.00	4.60
SNMG 120412 MS CVD PMKS U	5.80	5.00	4.60

SNMG CS - STANDARD OPERATION

SNMG 120404 CS CVD PMKS U	5.80	5.00	4.60
SNMG 120408 CS CVD PMKS U	5.80	5.00	4.60
SNMG 120408 CS PVD PMKS T	5.80	5.00	4.60
SNMG 120412 CS CVD PMKS U	5.80	5.00	4.60
SNMG 120416 CS CVD PMKS U	5.80	5.00	4.60
SNMG 150608 CS CVD PMKS U	9.30	8.00	7.40
SNMG 190612 CS CVD PMKS U	12.10	10.50	9.70
SNMG 190616 CS CVD PMKS U	12.10	10.50	9.70
SNMG 250716 CS CVD PMKS U	21.70	18.80	17.30
SNMG 250724 CS CVD PMKS U	21.70	18.80	17.30

Code

*Net price list*10 pcs.
€ / piece30 pcs.
€ / piece≥ 50 pcs.
€ / piece**SNMG VFR - ROUGHING OPERATION**

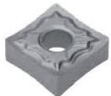
SNMG 120404 VFR PVD PMKS T	5.80	5.00	4.60
SNMG 120408 VFR PVD PMKS T	5.80	5.00	4.60
SNMG 120412 VFR PVD PMKS T	5.80	5.00	4.60
SNMG 190612 VFR PVD PMKS T	12.10	10.50	9.70
SNMG 190616 VFR PVD PMKS T	12.10	10.50	9.70

SNMM MR - ROUGHING OPERATION

SNMM 120408 MR CVD PMKS U	5.80	5.00	4.60
SNMM 150612 MR CVD PMKS U	9.30	8.00	7.40
SNMM 190612 MR CVD PMKS U	12.10	10.50	9.70
SNMM 190616 MR CVD PMKS U	12.10	10.50	9.70
SNMM 190624 MR CVD PMKS U	12.10	10.50	9.70
SNMM 250924 MR CVD PMKS U	25.70	22.20	20.50

SNMM CR - ROUGHING OPERATION

SNMM 190612 CR CVD PKMS U	12.10	10.50	9.70
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SNMG ALVFS - ALUMINIUM MACHINING

SNMG 120404 ALVFS NON N H	5.60	4.90	4.20
SNMG 120408 ALVFS NON N H	5.60	4.90	4.20

Code

Net price list10 pcs.
€ / piece30 pcs.
€ / piece≥ 50 pcs.
€ / piece**WNMG MF - FINISHING OPERATION**

WNMG 080404 MF CVD PMKS U	5.80	5.00	4.60
WNMG 080408 MF CVD PMKS U	5.80	5.00	4.60

WNMG UF - FINISHING OPERATION

WNMG 080408 UF CVD PMKS U	5.80	5.00	4.60
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WNMG MS - STANDARD OPERATION

WNMG 060404 MS CVD PMKS U	4.90	4.20	3.90
WNMG 060408 MS CVD PMKS U	4.90	4.20	3.90

WNMG 080404 MS CVD PMKS U	5.80	5.00	4.60
WNMG 080408 MS CVD PMKS U	5.80	5.00	4.60
WNMG 080412 MS CVD PMKS U	5.80	5.00	4.60

WNMG VFR - ROUGHING OPERATION

WNMG 060404 VFR PVD PMKS T	4.90	4.20	3.90
WNMG 060408 VFR PVD PMKS T	4.90	4.20	3.90
WNMG 060412 VFR PVD PMKS T	4.90	4.20	3.90

WNMG 080408 VFR PVD PMKS T	5.80	5.00	4.60
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WNMG MR - ROUGHING OPERATION

WNMG 060408 MR PVD PMKS T	4.90	4.20	3.90
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WNMG 080404 MR PVD PMKS T	5.80	5.00	4.60
WNMG 080408 MR PVD PKMS T	5.80	5.00	4.60

WNMG UR - ROUGHING OPERATION

WNMG 080408 UR CVD PMKS U	5.80	5.00	4.60
WNMG 080412 UR CVD PMKS U	5.80	5.00	4.60

WNMG CR - ROUGHING OPERATION

WNMG 080408 CR CVD PMKS U	5.80	5.00	4.60
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Code

Net price list

10 pcs.
€/ piece

30 pcs.
€/ piece

≥ 50 pcs.
€/ piece

WNMG ALVFS - ALUMINIUM MACHINING



WNMG 060404 ALVFS NON N H

4.70

4.10

3.60

WNMG 060408 ALVFS NON N H

4.70

4.10

3.60

WNMG 080404 ALVFS NON N H

5.60

4.90

4.20

WNMG 080408 ALVFS NON N H

5.60

4.90

4.20

Code

*Net price list*10 pcs.
€/ piece30 pcs.
€/ piece≥ 50 pcs.
€/ piece**VBMT FF - FINISHING OPERATION**

VBMT 160404 FF PVD PMKS T	9.00	7.80	7.20
VBMT 160408 FF PVD PMKS T	9.00	7.80	7.20

VBMT MF - STANDARD OPERATION

VBMT 160404 MF CVD PMKS U	9.00	7.80	7.20
VBMT 160408 MF CVD PMKS U	9.00	7.80	7.20
VBMT 160408 MF PVD PMKS T	9.00	7.80	7.20

VCMT MS - STANDARD OPERATION

VCMT 080208 MS CVD PMKS U	8.40	7.20	7.20
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VCGT ALFF - ALUMINIUM MACHINING

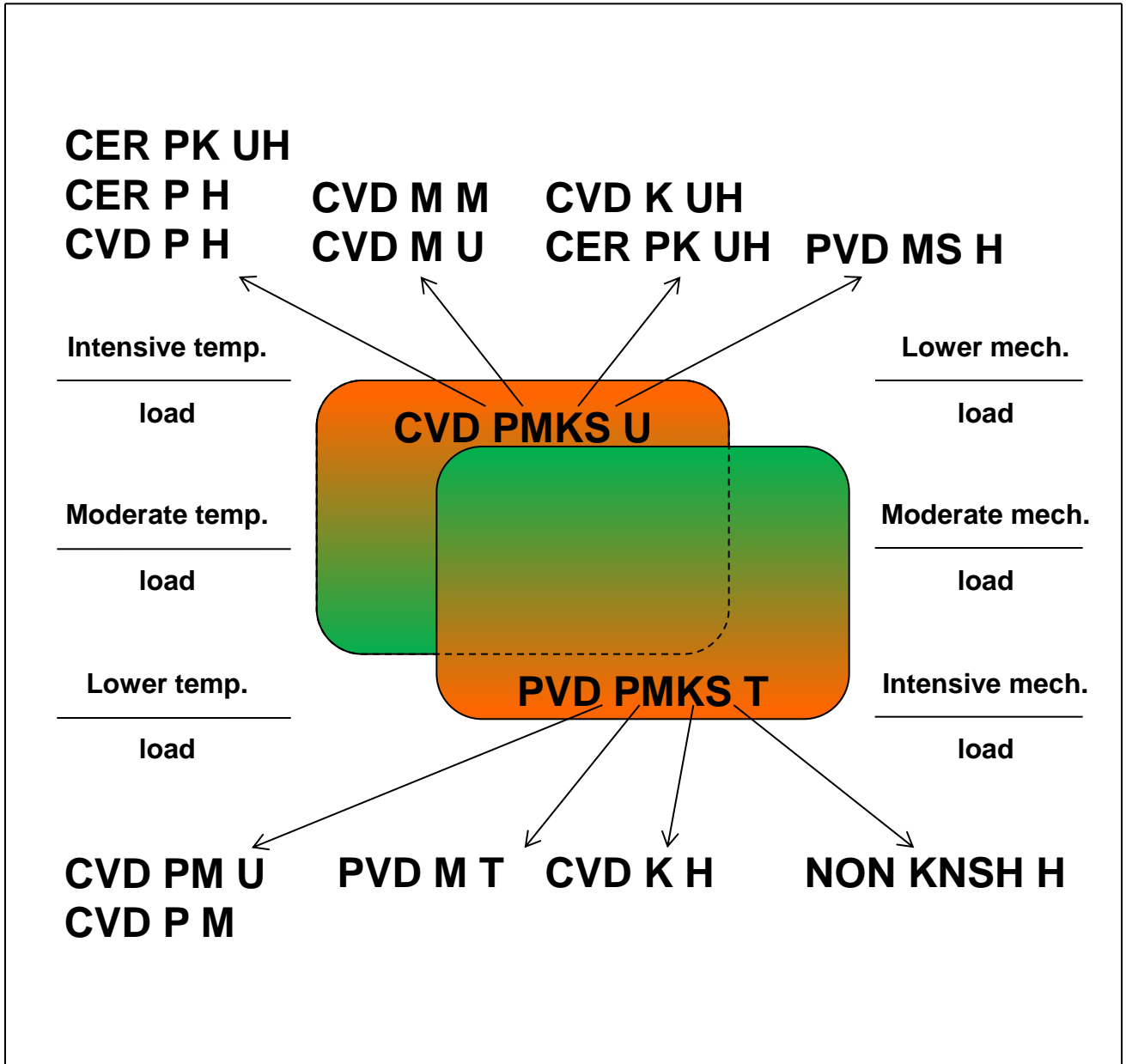
VCGT 110302 ALFF NON N H	8.10	7.30	6.80
VCGT 110304 ALFF NON N H	8.10	7.30	6.80
VCGT 110308 ALFF NON N H	8.10	7.30	6.80
VCGT 130302 ALFF NON N H	9.00	7.80	7.20
VCGT 130204 ALFF NON N H	9.00	7.80	7.20
VCGT 160402 ALFF NON N H	9.60	8.30	7.70
VCGT 160404 ALFF NON N H	9.60	8.30	7.70
VCGT 160408 ALFF NON N H	9.60	8.30	7.70
VCGT 160412 ALFF NON N H	9.60	8.30	7.70
VCGT 220530 ALFF NON N H	16.10	13.90	12.90

VCGT ALUS - ALUMINIUM MACHINING

VCGT 110302 ALUS NON N H	8.10	7.30	6.80
VCGT 110304 ALUS NON N H	8.10	7.30	6.80
VCGT 110308 ALUS NON N H	8.10	7.30	6.80
VCGT 130302 ALUS NON N H	9.00	7.80	7.20
VCGT 130204 ALUS NON N H	9.00	7.80	7.20
VCGT 160402 ALUS NON N H	9.60	8.30	7.70
VCGT 160404 ALUS NON N H	9.60	8.30	7.70
VCGT 160408 ALUS NON N H	9.60	8.30	7.70
VCGT 160412 ALUS NON N H	9.60	8.30	7.70
VCGT 220530 ALUS NON N H	16.10	13.90	12.90

High hardness

High chemical resistant



High toughness

High mechanical resistant



0031 6 48 27 77 13



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