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SERIE P • SYSTEM P

TORNITURA ESTERNA • TOOLHOLDERS



PCBNR / L

CNMA - CNMG - CNMM



PCFNR / L

CNMA - CNMG - CNMM

27



PCKNR / L

CNMA - CNMG - CNMM



PCLNR / L

CNMA - CNMG - CNMM

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PCSNR / L

CNMA - CNMG - CNMM



PDJNR / L

DNMA - DNMG - DNMM

29



PDNNN

DNMA - DNMG - DNMM



PRDCN

RCMX

30



PRDCR / L

RCMX



PRGCR / L

RCMX

31



PRGNR / L

RNMA - RNMG



PSBNR / L

SNMA - SNMG - SNMM

32



PSDNN

SNMA - SNMG - SNMM



PSKNR / L

SNMA - SNMG - SNMM

33



PSSNR / L

SNMA - SNMG - SNMM



PTFNR / L

TNMA - TNMG - TNMM

34



PTGNR / L

TNMA - TNMG - TNMM



PWLNR / L

WNMA - WNMG - WNMM

35

UTENSILE TORNITURA ESTERNA SERIE P • TURNING TOOLHOLDER SYSTEM P



PCBNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PCBNR / L 20 20 K12	20	20	125	17	30
PCBNR / L 25 25 M12	25	25	150	22	30
PCBNR / L 32 25 P12	32	25	170	22	39
PCBNR / L 32 25 P16	32	25	170	22	39
PCBNR / L 32 32 P16	32	32	170	27	39
PCBNR / L 32 32 P19	32	32	170	27	39
PCBNR / L 40 40 S19	40	40	250	35	48
PCBNR / L 40 40 S25	40	40	250	35	48
PCBNR / L 50 50 T25	50	50	300	43	48



RICAMBI - SPARE PARTS



12 04 ..

BC 12

V 12

L 12

CH 3

S 12

16 06 ..

BC 16

V 15

L 16

CH 3

S 15

19 06 ..

BC 19

V 19

L 19

CH 4

S 19

25 09 ..

BC 25

V 25

L 25

CH 5

S 25



PCFNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PCFNR / L 20 20 K12	20	20	125	25	30
PCFNR / L 25 25 M12	25	25	150	32	30
PCFNR / L 32 25 P16	32	25	170	32	39
PCFNR / L 32 32 P19	32	32	170	40	39



RICAMBI - SPARE PARTS



12 04 ..

BC 12

V 12

L 12

CH 3

S 12

16 06 ..

BC 16

V 15

L 16

CH 3

S 15

19 06 ..

BC 19

V 19

L 19

CH 4

S 19

TORNITURA • TURNING



PCKNR/L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

CNMA - CNMG - CNMM

ZENIT
CODICE-CODE

	A	B	MM		L1
			L	C	
PCKNR / L 20 20 K12	20	20	125	25	30
PCKNR / L 25 25 M12	25	25	150	32	30
PCKNR / L 32 25 P12	32	25	170	32	39
PCKNR / L 32 32 P19	32	32	170	40	39
PCKNR / L 40 40 S19	40	40	250	50	48

RICAMBI - SPARE PARTS



12 04 ..

BC 12

V 12

L 12

CH 3

S 12

19 06 ..

BC 19

V 19

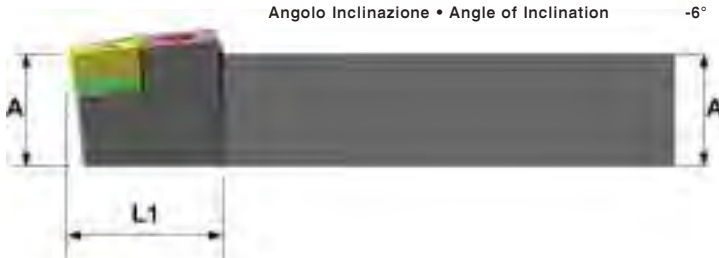
L 19

CH 4

S 19

PCLNR/L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

CNMA - CNMG - CNMM

ZENIT
CODICE-CODE

	A	B	MM		L1
			L	C	
PCLNR / L 16 16 H09	16	16	100	20	26
PCLNR / L 20 20 K09	20	20	125	25	30
PCLNR / L 25 25 M09	25	25	150	32	30
PCLNR / L 16 16 H12	16	16	100	20	26
PCLNR / L 20 20 K12	20	20	125	25	30
PCLNR / L 25 25 M12	25	25	150	32	30
PCLNR / L 32 25 P12	32	25	170	32	39
PCLNR / L 32 32 P12	32	32	170	40	39
PCLNR / L 25 25 M16	25	25	150	32	30
PCLNR / L 32 25 P16	32	25	170	32	39
PCLNR / L 32 32 P16	32	32	170	40	39
PCLNR / L 25 25 M19	25	25	150	32	35
PCLNR / L 32 25 P19	32	25	170	32	39
PCLNR / L 32 32 P19	32	32	170	40	39
PCLNR / L 40 40 S19	40	40	250	50	48
PCLNR / L 40 40 S25	40	40	250	50	48
PCLNR / L 50 50 T25	50	50	300	60	48

RICAMBI - SPARE PARTS



09 03 ..

BC 09

V 09

L 09

CH 2,5

S 09

12 04 ..

BC 12

V 12

L 12

CH 3

S 12

16 06 ..

BC 16

V 15

L 16

CH 3

S 15

19 06 ..

BC 19

V 19

L 19

CH 4

S 19

25 09 ..

BC 25

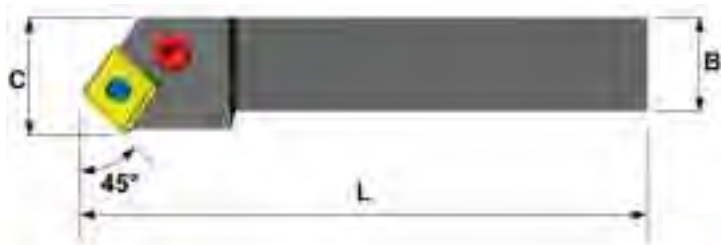
V 25

L 25

CH 5

S 25

UTENSILE TORNITURA ESTERNA SERIE P • TURNING TOOLHOLDER SYSTEM P



PCSNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts

CNMA - CNMG - CNMM

ZENIT CODICE-CODE	A	B	MM L	C	L1
PCSNR / L 20 20 K12	20	20	125	25	30
PCSNR / L 25 25 M12	25	25	150	32	30
PCSNR / L 25 25 M16	25	25	150	32	30
PCSNR / L 32 25 P16	32	25	170	32	39
PCSNR / L 32 25 P19	32	25	170	32	39
PCSNR / L 32 32 P19	32	32	170	40	39
PCSNR / L 40 40 S19	40	40	250	50	48



RICAMBI - SPARE PARTS



12 04 ..

BC 12

V 12

L 12

CH 3

S 12

16 06 ..

BC 16

V 15

L 16

CH 3

S 15

19 06 ..

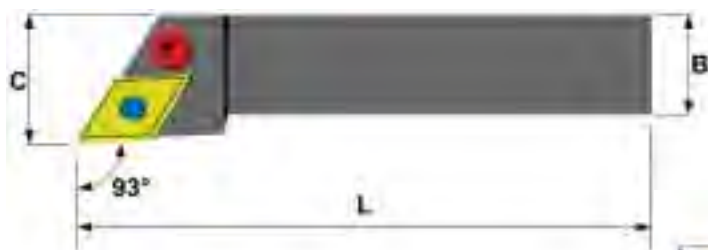
BC 19

V 19

L 19

CH 4

S 19



PDJNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -7°



Utensile per inserti • Toolholder for inserts

DNMA - DNMG - DNMM

ZENIT CODICE-CODE	A	B	MM L	C	L1
PDJNR / L 16 16 H11	16	16	100	20	26
PDJNR / L 20 20 K11	20	20	125	25	30
PDJNR / L 25 25 M11	25	25	150	32	30
PDJNR / L 32 25 P11	32	25	170	32	39
PDJNR / L 20 20 K15	20	20	125	25	35
PDJNR / L 25 25 M15	25	25	150	32	35
PDJNR / L 32 25 P15	32	25	170	32	39
PDJNR / L 32 32 P15	32	32	170	40	39
PDJNR / L 40 40 S15	40	40	250	50	48
PDJNR / L 50 50 T15	50	50	300	60	48



RICAMBI - SPARE PARTS



11 04 ..

BD 11

V 09

L 09

CH 2,5

S 09

15 06 ..

BD 15

V 12

L 15

CH 3

S 12

TORNITURA • TURNING



PDNNN

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

DNMA - DNMG - DNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PDNNN 2020 K15	20	20	125	10,6	35
PDNNN 2525 M15	25	25	150	13,1	35
PDNNN 3225 P15	32	25	170	13,1	39
PDNNN 3232 P15	32	32	170	16,6	39

RICAMBI - SPARE PARTS



15 06 ..

BD 15 V 12 L 15 CH 3 S 12

PRDCN

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

RCMX

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PRDCN 2020 K10	20	20	125	15	30
PRDCN 2525 M12	25	25	150	18,5	30
PRDCN 3225 P12	32	25	170	18,5	39
PRDCN 3225 P16	32	25	170	20,5	39
PRDCN 3232 P20	32	32	170	26	39
PRDCN 4040 S25	40	40	250	32,5	48

RICAMBI - SPARE PARTS



10 03 MO

BR 10 V 10 L 10 R CH 2 S 09

12 04 MO

BR 12 V 09 L 12 R CH 2,5 S 09

16 06 MO

BR 16 V 09 L 16 R CH 2,5 S 12

20 06 MO

BR 20 V 15 L 20 R CH 3 S 15

25 07 MO

BR 25 V 19 L 25 R CH 4 S 19

TORNITURA • TURNING

UTENSILE TORNITURA ESTERNA SERIE P • TURNING TOOLHOLDER SYSTEM P



PRDCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

RCMX

ZENIT CODICE-CODE	A	B	MM L	C	L1
PRDCR / L 20 20 K10	20	20	125	20	30
PRDCR / L 25 25 M12	25	25	150	25	30
PRDCR / L 32 25 P12	32	25	170	25	39
PRDCR / L 32 25 P16	32	25	170	32	39
PRDCR / L 32 32 P20	32	32	170	32	39



RICAMBI - SPARE PARTS



10 03 MO

BR 10

V 10

L 10 R

CH 2

S 09

12 04 MO

BR 12

V 09

L 12 R

CH 2,5

S 09

16 06 MO

BR 16

V 09 L

L 16 R

CH 2,5

S 12

20 06 MO

BR 20

V 15

L 20 R

CH 3

S 15



PRGCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

RCMX

ZENIT CODICE-CODE	A	B	MM L	C	L1
PRGCR / L 20 20 K10	20	20	125	25	30
PRGCR / L 25 25 M12	25	25	150	32	30
PRGCR / L 32 25 P16	32	25	170	32	39
PRGCR / L 32 32 P20	32	32	170	40	39
PRGCR / L 40 40 S25	40	40	250	50	48
PRGCR / L 50 50 T32	50	50	300	60	48



RICAMBI - SPARE PARTS



10 03 MO

BR 10

V 10

L 10 R

CH 2

S 09

12 04 MO

BR 12

V 09

L 12 R

CH 2,5

S 09

16 06 MO

BR 16

V 09 L

L 16 R

CH 2,5

S 12

20 06 MO

BR 20

V 15

L 20 R

CH 3

S 15

25 07 MO

BR 25

V 19

L 25 R

CH 4

S 19

32 09 MO

BR 32

V 25

L 32 R

CH 5

S 25

TORNITURA • TURNING



PRGNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

RNMA - RNMG

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PRGNR / L 20 20 K09	20	20	125	25	30
PRGNR / L 25 25 M12	25	25	150	32	30
PRGNR / L 32 25 P15	32	25	170	32	39
PRGNR / L 32 32 P19	32	32	170	40	39
PRGNR / L 40 40 S25	40	40	250	50	48



RICAMBI - SPARE PARTS



09 03 00	BRN 09	V 09	L 09	CH 2,5	S 09
12 04 00	BRN 12	V 12	L 12	CH 3	S 12
15 06 00	BRN 15	V 15	L 16 L	CH 3	S 15
19 06 00	BRN 19	V 19	L 19	CH 4	S 19
25 09 00	BRN 25	V 25	L 25	CH 5	S 25

PSBNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SNMA - SNMG - SNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PSBNR / L 16 16 H09	16	16	100	13	26
PSBNR / L 20 20 K09	20	20	125	17	30
PSBNR / L 20 20 K12	20	20	125	17	30
PSBNR / L 25 25 M12	25	25	150	22	30
PSBNR / L 32 25 P12	32	25	170	22	39
PSBNR / L 25 25 M15	25	25	150	22	30
PSBNR / L 32 32 P15	32	32	170	27	39
PSBNR / L 32 32 P19	32	32	170	27	39
PSBNR / L 40 40 S19	40	40	250	35	48
PSBNR / L 40 40 S25	40	40	250	35	48
PSBNR / L 50 50 T25	50	50	300	43	48

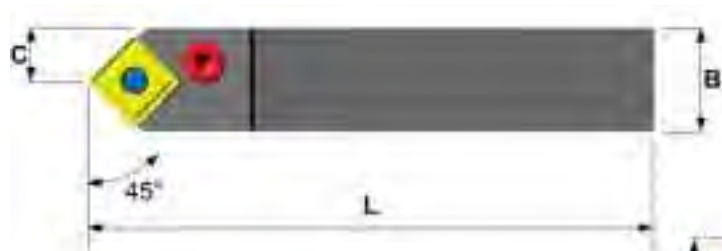


RICAMBI - SPARE PARTS



09 03 ..	BS 09	V 09	L 09	CH 2,5	S 09
12 04 ..	BS 12	V 12	L 12	CH 3	S 12
15 06 ..	BS 15	V 15	L 16	CH 3	S 15
19 06 ..	BS 19	V 19	L 19	CH 4	S 19
25 07 ..	BS 25	V 25	L 25	CH 5	S 25

UTENSILE TORNITURA ESTERNA SERIE P • TURNING TOOLHOLDER SYSTEM P



PSDNN



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts

SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PSDNN 16 16 H09	16	16	100	8,3	26
PSDNN 20 20 K12	20	20	125	10,3	30
PSDNN 25 25 M12	25	25	150	12,8	30
PSDNN 32 32 P12	32	32	170	16,5	39
PSDNN 32 25 P19	32	25	170	12,8	39
PSDNN 32 32 P19	32	32	170	16,5	39
PSDNN 40 40 S25	40	40	250	21	48



RICAMBI - SPARE PARTS



09 03 ..

BS 09

V 09

L 09

CH 2,5

S 09

12 04 ..

BS 12

V 12

L 12

CH 3

S 12

19 06 ..

BS 19

V 19

L 19

CH 4

S 19

25 07 ..

BS 25

V 25

L 25

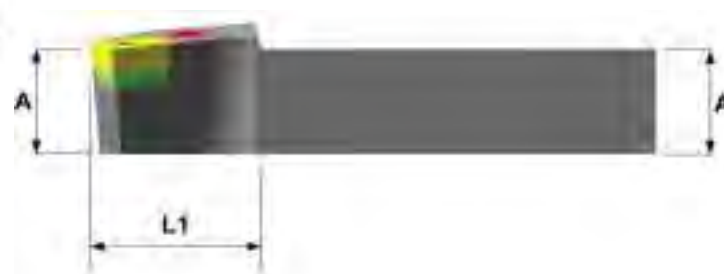
CH 5

S 25



PSKNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts

SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PSKNR / L 16 16 H09	16	16	100	20	26
PSKNR / L 20 20 K09	20	20	125	25	26
PSKNR / L 20 20 K12	20	20	125	25	30
PSKNR / L 25 25 M12	25	25	150	32	30
PSKNR / L 32 25 P12	32	25	170	32	39
PSKNR / L 25 25 M15	25	25	150	32	30
PSKNR / L 32 32 P15	32	32	170	40	39
PSKNR / L 32 32 P19	32	32	170	40	39
PSKNR / L 40 40 S19	40	40	250	50	48
PSKNR / L 40 40 S25	40	40	250	50	48
PSKNR / L 50 50 T25	50	50	300	60	48



RICAMBI - SPARE PARTS



09 03 ..

BS 09

V 09

L 09

CH 2,5

S 09

12 04 ..

BS 12

V 12

L 12

CH 3

S 12

15 06 ..

BS 15

V 15

L 16

CH 3

S 15

19 06 ..

BS 19

V 19

L 19

CH 4

S 19

25 07 ..

BS 25

V 25

L 25

CH 5

S 25

TORNITURA • TURNING



PSSNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SNMA - SNMG - SNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PSSNR / L 16 16 H09	16	16	100	20	26
PSSNR / L 20 20 K12	20	20	125	25	30
PSSNR / L 25 25 M12	25	25	150	32	30
PSSNR / L 32 25 P12	32	25	170	32	39
PSSNR / L 25 25 M15	25	25	150	32	30
PSSNR / L 32 32 P15	32	32	170	40	39
PSSNR / L 32 32 P19	32	32	170	40	39
PSSNR / L 40 40 S19	40	40	250	50	48
PSSNR / L 40 40 S25	40	40	250	50	48



09 03 ..



BS 09

RICAMBI - SPARE PARTS



V 09



L 09



CH 2,5



S 09

12 04 ..

BS 12

V 12

L 12

CH 3

S 12

15 06 ..

BS 15

V 15

L 16

CH 3

S 15

19 06 ..

BS 19

V 19

L 19

CH 4

S 19

25 07 ..

BS 25

V 25

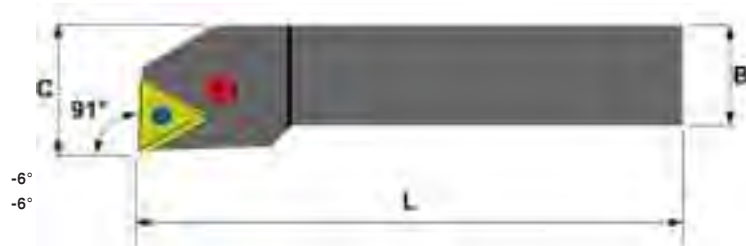
L 25

CH 5

S 25

PTFNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

TNMA - TNMG - TNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
PTFNR / L 16 16 H16	16	16	100	20	26
PTFNR / L 20 20 K16	20	20	125	25	30
PTFNR / L 25 25 M16	25	25	150	32	30
PTFNR / L 32 25 P16	32	25	170	32	39
PTFNR / L 25 25 M22	25	25	150	32	30
PTFNR / L 32 25 P22	32	25	170	32	39
PTFNR / L 32 32 P22	32	32	170	40	39
PTFNR / L 32 32 P27	32	32	170	40	39
PTFNR / L 40 40 S27	40	40	250	50	48



16 04 ..



BTR 16



V 09



L 09



CH 2,5



S 09

22 04 ..

BTR 22

V 12

L 12

CH 3

S 12

27 06 ..

BTR 27

V 15

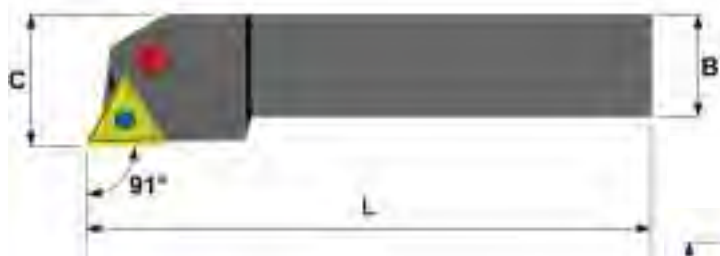
L 16

CH 3

S 15

TORNITURA • TURNING

UTENSILE TORNITURA ESTERNA SERIE P • TURNING TOOLHOLDER SYSTEM P



PTGNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PTGNR / L 16 16 H16	16	16	100	20	26
PTGNR / L 20 20 K16	20	20	125	25	30
PTGNR / L 25 25 M16	25	25	150	32	30
PTGNR / L 32 25 P16	32	25	170	32	39
PTGNR / L 25 25 M22	25	25	150	32	30
PTGNR / L 32 25 P22	32	25	170	32	39
PTGNR / L 32 32 P22	32	32	170	40	39
PTGNR / L 40 40 S22	40	40	250	50	48
PTGNR / L 32 32 P27	32	32	170	40	39
PTGNR / L 40 40 S27	40	40	250	50	48

RICAMBI - SPARE PARTS



16 04 ..

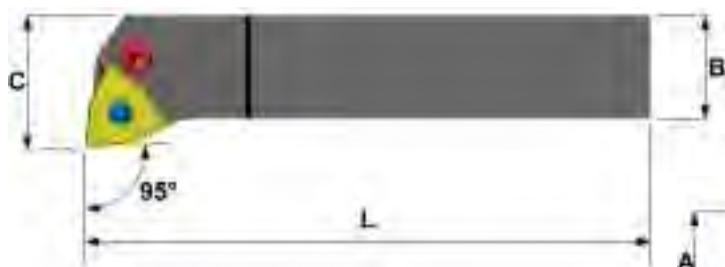
BTR 16 V 09 L 09 CH 2,5 S 09

22 04 ..

BTR 22 V 12 L 12 CH 3 S 12

27 06 ..

BTR 27 V 15 L 16 CH 3 S 15



PWLNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
WNMA - WNMG - WNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
PWLNR / L 16 16 H06	16	16	100	20	26
PWLNR / L 20 20 K06	20	20	125	25	30
PWLNR / L 25 25 M06	25	25	150	32	30
PWLNR / L 20 20 K08	20	20	125	25	30
PWLNR / L 25 25 M08	25	25	150	32	30
PWLNR / L 32 25 P08	32	25	170	32	39
PWLNR / L 32 32 P08	32	32	170	40	39

RICAMBI - SPARE PARTS



06 04 ..

- V 06 L 06 CH 2 -

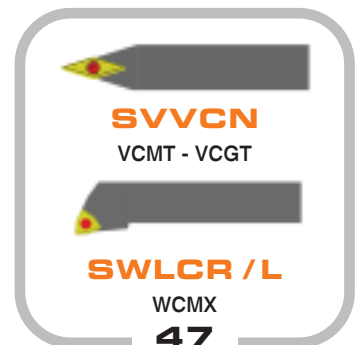
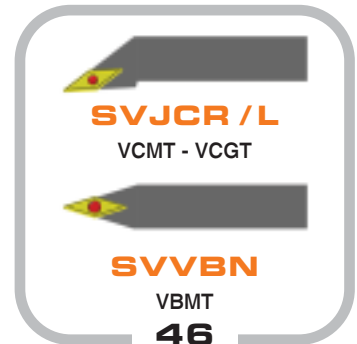
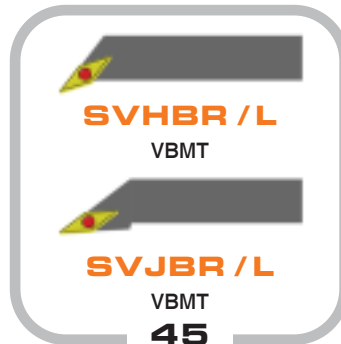
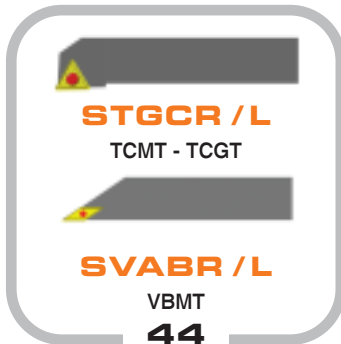
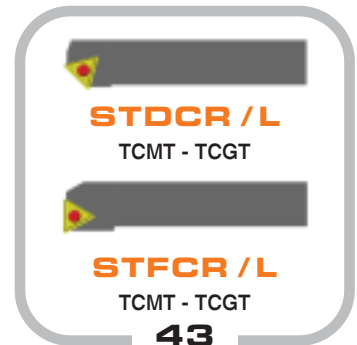
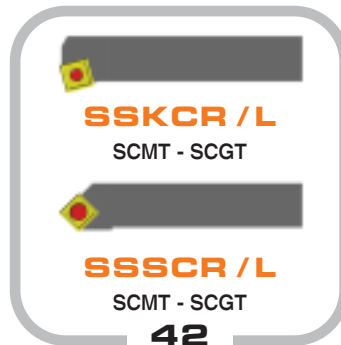
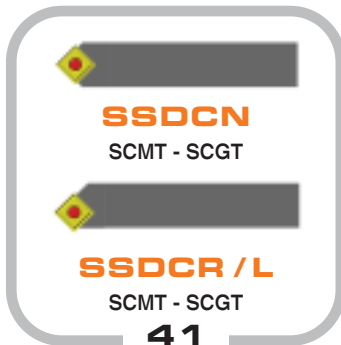
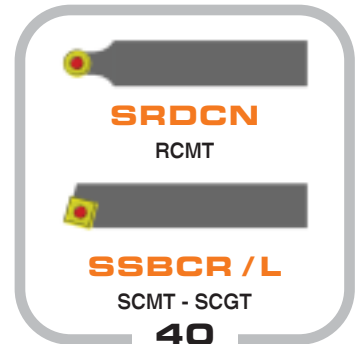
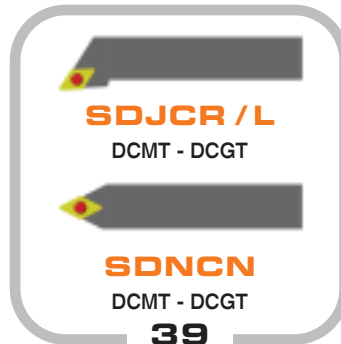
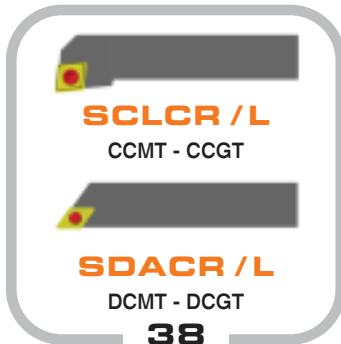
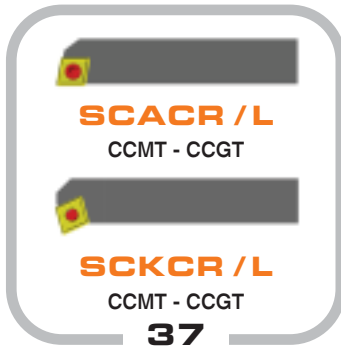
08 04 ..

BWN 08 V 12 L 12 CH 3 S 12

TORNITURA • TURNING

SERIE S • SYSTEM S

TORNITURA ESTERNA • TOOLHOLDERS



UTENSILE TORNITURA ESTERNA SERIE S • TURNING TOOLHOLDER SYSTEM S



SCACR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

CCMT - CCGT

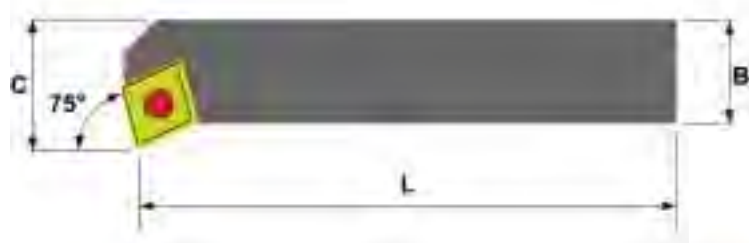
ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
SCACR / L 10 10 E06	10	10	70	10,5	13
SCACR / L 12 12 F06	12	12	80	12,5	18
SCACR / L 16 16 H09	16	16	100	16,5	18
SCACR / L 20 20 K12	20	20	125	20,5	25
SCACR / L 25 25 M12	25	25	150	25,5	25



RICAMBI - SPARE PARTS

06 02 ..	-	-	TX 25	-	CT 08
09 T3 ..	TCS 09	5 B	TX 35 L	CH 3,5	CT 15
12 04 ..	TCS 12	6 B	TX 45	CH 4,5	CT 20



SCKCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

CCMT - CCGT

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
SCKCR / L 16 16 H09	16	16	100	20	25
SCKCR / L 20 20 K09	20	20	125	25	25



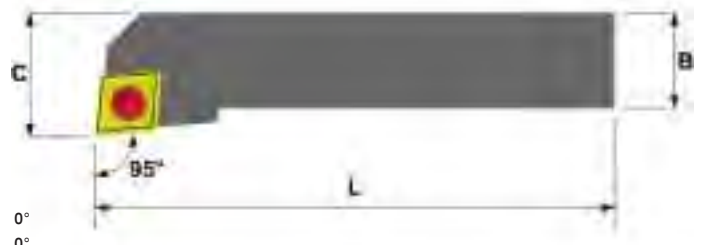
RICAMBI - SPARE PARTS

09 T3 ..	TCS 09	5 B	TX 35 L	CH 3,5	CT 15

TORNITURA • TURNING



SCLCR / L



Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination

0°
0°



Utensile per inserti • Toolholder for inserts

CCMT - CCGT

ZENIT
CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SCLCR / L 08 08 D06	8	8	60	10	13
SCLCR / L 10 10 E06	10	10	70	12	13
SCLCR / L 12 12 F09	12	12	80	16	18
SCLCR / L 16 16 H09	16	16	100	20	18
SCLCR / L 20 20 K12	20	20	125	25	25
SCLCR / L 25 25 M12	25	25	150	32	25



RICAMBI - SPARE PARTS



06 02 ..

- - TX 25 - CT 08

09 T3 ..

TCS 09 5 B TX 35 L CH 3,5 CT 15

12 04 ..

TCS 12 6 B TX 45 CH 4,5 CT 20

SDACR / L



Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination

0°
0°



Utensile per inserti • Toolholder for inserts

DCMT - DCGT

ZENIT
CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SDACR / L 10 10 E07	10	10	70	10,5	13
SDACR / L 12 12 F11	12	12	80	12,5	18
SDACR / L 16 16 H11	16	16	100	16,5	18
SDACR / L 20 20 K11	20	20	125	20,5	25



RICAMBI - SPARE PARTS



07 02 ..

- - TX 25 - CT 08

11 T3 ..

TDS 11 5 B TX 35 L CH 3,5 CT 15

UTENSILE TORNITURA ESTERNA SERIE S • TURNING TOOLHOLDER SYSTEM S



SDJCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SDJCR / L 10 10 E07	10	10	70	12	12
SDJCR / L 12 12 F07	12	12	80	16	18
SDJCR / L 16 16 H07	16	16	100	20	18
SDJCR / L 12 12 F11	12	12	80	16	18
SDJCR / L 16 16 H11	16	16	100	20	25
SDJCR / L 20 20 K11	20	20	125	25	25
SDJCR / L 25 25 M11	25	25	150	32	25



RICAMBI - SPARE PARTS

Insert	Green Insert	Blue Insert	Red Insert	Yellow Insert	Yellow Insert
07 02 ..	-	-	TX 25	-	CT 08
11 T3 ..	TDS 11	5 B	TX 35 L	CH 3,5	CT 15



SDNCN

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SDNCN 10 10 E07	10	10	70	5,2	18
SDNCN 12 12 F07	12	12	80	6,2	18
SDNCN 16 16 H11	16	16	100	8,5	25
SDNCN 20 20 K11	20	20	125	10,5	25
SDNCN 25 25 M11	25	25	150	13	25



RICAMBI - SPARE PARTS

Insert	Green Insert	Blue Insert	Red Insert	Yellow Insert	Yellow Insert
07 02 ..	-	-	TX 25	-	CT 08
11 T3 ..	TDS 11	5 B	TX 35 L	CH 3,5	CT 15

TORNITURA • TURNING



SRDCN

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

RCMT

ZENIT
CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SRDCN 10 10 E06	10	10	70	12	13
SRDCN 12 12 F08	12	12	80	10	16
SRDCN 16 16 H08	16	16	100	12	16
SRDCN 20 20 K08	20	20	125	14	16
SRDCN 20 20 K10	20	20	125	15	25
SRDCN 20 20 K12	20	20	125	16	25

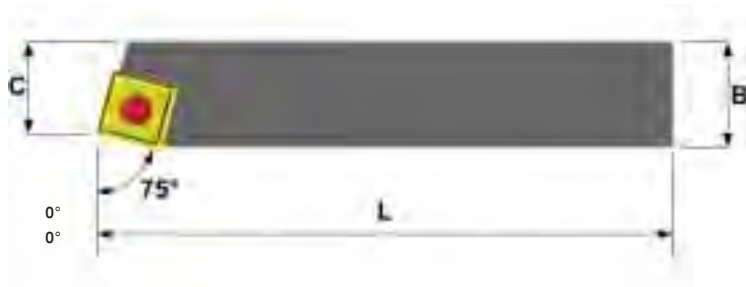


RICAMBI - SPARE PARTS

Image	Image	Image	Image	Image	Image
06 02 MO	-	-	TX 25	-	CT 08
08 03 MO	-	-	TX 30	-	CT 09
10 T3 MO	TRS 10	5 B	TX 35 L	CH 3,5	CT 15
12 04 MO	TRS 12	5 B	TX 35 L	CH 3,5	CT 15

SSBCR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SCMT - SCGT

ZENIT
CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SSBCR / L 16 16 H09	16	16	100	13	18
SSBCR / L 20 20 K12	20	20	125	17	25
SSBCR / L 25 25 M12	25	25	150	22	25



RICAMBI - SPARE PARTS

Image	Image	Image	Image	Image	Image
09 T3 ..	SQS 09	5 B	TX 35 L	CH 3,5	CT 15
12 04 ..	SQS 12	6 B	TX 45	CH 4,5	CT 20

TORNITURA • TURNING

UTENSILE TORNITURA ESTERNA SERIE S • TURNING TOOLHOLDER SYSTEM S



SSDCN



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

SCMT - SCGT

ZENIT
 CODICE-CODE

	MM				
	A	B	L	C	L1
SSDCN 12 12 F09	12	12	80	6	18
SSDCN 16 16 H09	16	16	100	8	18
SSDCN 20 20 K12	20	20	125	10	25
SSDCN 25 25 M12	25	25	150	12,5	25



RICAMBI - SPARE PARTS



09 T3 ..

SQS 09 5 B TX 35 L CH 3,5 CT 15

12 04 ..

SQS 12 6 B TX 45 CH 4,5 CT 20



SSDCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

SCMT - SCGT

ZENIT
 CODICE-CODE

	MM				
	A	B	L	C	L1
SSDCR / L 16 16 H09	16	16	100	17	18
SSDCR / L 20 20 K12	20	20	125	22	25
SSDCR / L 25 25 M12	25	25	150	27	25



RICAMBI - SPARE PARTS



09 T3 ..

SQS 09 5 B TX 35 L CH 3,5 CT 15

12 04 ..

SQS 12 6 B TX 45 CH 4,5 CT 20

TORNITURA • TURNING



SSKCR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SCMT - SCGT

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
SSKCR / L 16 16 H09	16	16	100	20	18
SSKCR / L 20 20 K12	20	20	125	25	25



RICAMBI - SPARE PARTS

	Image	Image	Image	Image	Image
09 T3 ..	SQS 09	5 B	TX 35 L	CH 3,5	CT 15
12 04 ..	SQS 12	6 B	TX 45	CH 4,5	CT 20

SSSCR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SCMT - SCGT

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
SSSCR / L 12 12 F09	12	12	80	16	18
SSSCR / L 16 16 H09	16	16	100	20	18
SSSCR / L 20 20 K12	20	20	125	25	25
SSSCR / L 25 25 M12	25	25	150	32	25

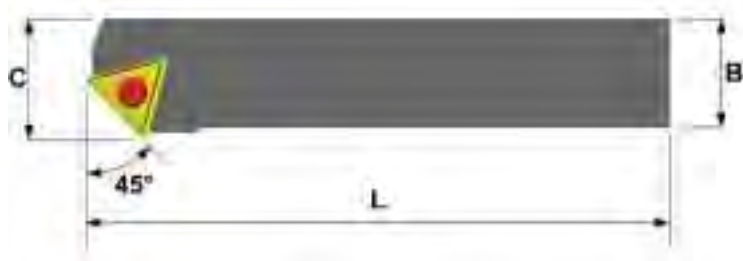


RICAMBI - SPARE PARTS

	Image	Image	Image	Image	Image
09 T3 ..	SQS 09	5 B	TX 35 L	CH 3,5	CT 15
12 04 ..	SQS 12	6 B	TX 45	CH 4,5	CT 20

TORNITURA • TURNING





STDCLR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts
TCMT - TCGT

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
STDCLR / L 12 12 F11	12	12	80	16	18
STDCLR / L 16 16 H11	16	16	100	20	18
STDCLR / L 16 16 H16	16	16	100	20	25
STDCLR / L 20 20 K16	20	20	125	25	25
STDCLR / L 25 25 M16	25	25	150	32	25



11 02 ..

RICAMBI - SPARE PARTS



- - TX 25 - CT 08

16 T3 ..

TTS 16 5 B TX 35 L CH 3,5 CT 15



STFCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts
TCMT - TCGT

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
STFCR / L 12 12 F11	12	12	80	16	18
STFCR / L 16 16 H11	16	16	100	20	18
STFCR / L 16 16 H16	16	16	100	20	25
STFCR / L 20 20 K16	20	20	125	25	25
STFCR / L 25 25 M16	25	25	150	32	25



11 02 ..

RICAMBI - SPARE PARTS



- - TX 25 - CT 08

16 T3 ..

TTS 16 5 B TX 35 L CH 3,5 CT 15

TORNITURA • TURNING



STGCR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts
TCMT - TCGT

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
STGCR / L 12 12 F11	12	12	80	16	18
STGCR / L 16 16 H11	16	16	100	20	18
STGCR / L 16 16 H16	16	16	100	20	25
STGCR / L 20 20 K16	20	20	125	25	25
STGCR / L 25 25 M16	25	25	150	32	25



RICAMBI - SPARE PARTS



11 02 ..

- - TX 25 - CT 08

16 T3 ..

TTS 16 5 B TX 35 L CH 3,5 CT 15

SVABR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

VBMT

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
SVABR / L 08 10 E11	8	10	70	25	10,5
SVABR / L 10 10 E11	10	10	70	25	10,5
SVABR / L 12 12 F11	12	12	80	25	12,5
SVABR / L 16 16 H11	16	16	100	25	16,5
SVABR / L 16 16 H16	16	16	100	35	16,5
SVABR / L 20 20 K16	20	20	125	35	20,5



RICAMBI - SPARE PARTS



11 02 ..

- - TX 25 - CT 08

16 04 ..

TVS 16 5 B TX 35 L CH 3,5 CT 15

UTENSILE TORNITURA ESTERNA SERIE S • TURNING TOOLHOLDER SYSTEM S



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°

SVHBR / L



Utensile per inserti • Toolholder for inserts

VBMT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SVHBR / L 16 16 H11	16	16	100	20	35
SVHBR / L 20 20 K11	20	20	125	25	35
SVHBR / L 16 16 H16	16	16	100	20	35
SVHBR / L 20 20 K16	20	20	125	25	35
SVHBR / L 25 25 M16	25	25	150	32	35

RICAMBI - SPARE PARTS

Image	Image	Image	Image	Image	Image
11 02 ..	-	-	TX 25	-	CT 08
16 04 ..	TVS 16	5 B	TX 35 L	CH 3,5	CT 15



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°

SVJBR / L



Utensile per inserti • Toolholder for inserts

VBMT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
SVJBR / L 16 16 H11	16	16	100	20	35
SVJBR / L 20 20 K11	20	20	125	25	35
SVJBR / L 16 16 H16	16	16	100	20	35
SVJBR / L 20 20 K16	20	20	125	25	35
SVJBR / L 25 25 M16	25	25	150	32	35
SVJBR / L 32 25 P16	32	25	170	32	35

RICAMBI - SPARE PARTS

Image	Image	Image	Image	Image	Image
11 02 ..	-	-	TX 25	-	CT 08
16 04 ..	TVS 16	5 B	TX 35 L	CH 3,5	CT 15

TORNITURA • TURNING



SVJCR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts
VCMT - VCGT

ZENIT
CODICE-CODE

MM

	A	B	L	C	L1
SVJCR / L 10 10 F11	10	10	80	12	29
SVJCR / L 12 12 F11	12	12	80	16	29
SVJCR / L 16 16 H11	16	16	100	20	29
SVJCR / L 20 20 K11	20	20	125	25	29
SVJCR / L 25 25 M11	25	25	150	32	29
SVJCR / L 16 16 H16	16	16	100	20	29
SVJCR / L 20 20 K16	20	20	125	25	29
SVJCR / L 25 25 M16	25	25	150	32	29

RICAMBI - SPARE PARTS

11 03 ..	-	-	-	TX 25	-	CT 08
16 04 ..	-	TVS 16	5 B	TX 35 L	CH 3,5	CT 15

SVVBN

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts
VBMT

ZENIT
CODICE-CODE

MM

	A	B	L	C	L1
SVVBN 16 16 H11	16	16	100	8,5	35
SVVBN 20 20 K11	20	20	125	10,3	35
SVVBN 16 16 H16	16	16	100	8,5	35
SVVBN 20 20 K16	20	20	125	10,3	35
SVVBN 25 25 M16	25	25	150	12,8	35
SVVBN 32 25 P16	32	25	170	12,8	35

RICAMBI - SPARE PARTS

11 02 ..	-	-	-	TX 25	-	CT 08
16 04 ..	-	TVS 16	5 B	TX 35 L	CH 3,5	CT 15

TORNITURA • TURNING

UTENSILE TORNITURA ESTERNA SERIE S • TURNING TOOLHOLDER SYSTEM S



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°

SVVCN



Utensile per inserti • Toolholder for inserts

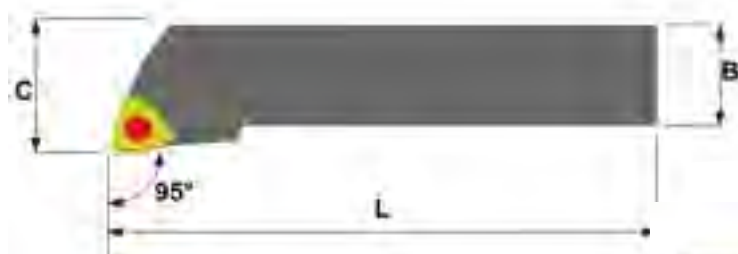
VCMT - VCGT

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
SVVCN 12 12 F11	12	12	80	6,3	29
SVVCN 16 16 H11	16	16	100	8,3	29
SVVCN 20 20 K11	20	20	125	10,3	29
SVVCN 25 25 M11	25	25	150	12,8	29
SVVCN 16 16 H16	16	16	100	8,5	29
SVVCN 20 20 K16	20	20	125	10,3	29
SVVCN 25 25 M16	25	25	150	12,8	29

RICAMBI - SPARE PARTS

11 03 ..	-	-	-	TX 25	-	CT 08
16 04 ..	-	TVS 16	5 B	TX 35 L	CH 3,5	CT 15



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination 0°

SWLCR / L



Utensile per inserti • Toolholder for inserts

WCMX

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
SWLCR / L 08 08 D03	8	8	60	13	10
SWLCR / L 10 10 E03	10	10	70	13	12
SWLCR / L 12 12 F03	12	12	80	18	16
SWLCR / L 16 16 H04	16	16	100	18	20
SWLCR / L 20 20 K04	20	20	125	25	25

RICAMBI - SPARE PARTS

03 02 08	-	-	-	TX 25	-	CT 08
04 02 08	-	-	-	TX 25	-	CT 08

TORNITURA • TURNING

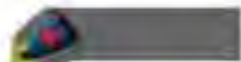
SERIE D • SYSTEM D

TORNITURA ESTERNA • TOOLHOLDERS



DCBNR / L

CNMA - CNMG - CNMM



DCLNR / L

CNMA - CNMG - CNMM

49



DDJNR / L

DNMA - DNMG - DNMM



DSBNR / L

SNMA - SNMG - SNMM

50



DSKNR / L

SNMA - SNMG - SNMM



DSSNR / L

SNMA - SNMG - SNMM

51



DTGNR / L

TNMA - TNMG - TNMM



DTJNR / L

TNMA - TNMG - TNMM

52



DVJNR / L

VNMG



DWLNR / L

WNMA - WNMG - WNMM

53



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°

DCBNR / L



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	MM				
	A	B	L	C	L1
DCBNR / L 20 20 K12	20	20	125	17	35
DCBNR / L 25 25 M12	25	25	150	22	35
DCBNR / L 25 25 M16	25	25	150	22	35
DCBNR / L 32 32 P16	32	32	170	27	39
DCBNR / L 40 40 S19	40	40	250	35	48

RICAMBI - SPARE PARTS



12 04 ..

DC 12

VD 12

SD 12

CT 15

16 06 ..

DC 16

VD 16

SD 16

CT 20

19 06 ..

DC 19

VD 19

SD 19

CT 20



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°

DCLNR / L



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	MM				
	A	B	L	C	L1
DCLNR / L 16 16 H09	16	16	100	20	35
DCLNR / L 20 20 K09	20	20	125	25	35
DCLNR / L 20 20 K12	20	20	125	25	35
DCLNR / L 25 25 M12	25	25	150	32	35
DCLNR / L 25 25 M16	25	25	150	32	35
DCLNR / L 32 32 P16	32	32	170	40	39
DCLNR / L 32 32 P19	32	32	170	40	39
DCLNR / L 40 40 S19	40	40	250	50	48
DCLNR / L 40 40 S25	40	40	250	50	48
DCLNR / L 50 50 T25	50	50	300	60	48

RICAMBI - SPARE PARTS



09 03 ..

DC 09

VD 09

SD 09

CT 08

12 04 ..

DC 12

VD 12

SD 12

CT 15

16 06 ..

DC 16

VD 16

SD 16

CT 20

19 06 ..

DC 19

VD 19

SD 19

CT 20

25 09 ..

DC 25

VD 25

SD 25

CT 25



DDJNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

DNMA - DNMG - DNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
DDJNR / L 20 20 K15	20	20	125	25	35
DDJNR / L 25 25 M15	25	25	150	32	35
DDJNR / L 32 32 P15	32	32	170	40	39

RICAMBI - SPARE PARTS



15 06 ..

DD15

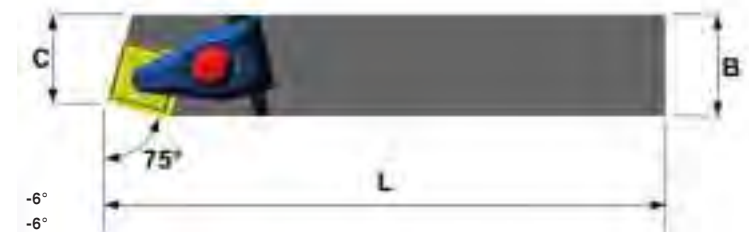
VD 12

SD 12

CT 15

DSBNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SNMA - SNMG - SNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
DSBNR / L 20 20 K12	20	20	125	17	35
DSBNR / L 25 25 M12	25	25	150	22	35
DSBNR / L 32 32 P15	32	32	170	27	39
DSBNR / L 32 32 P19	32	32	170	27	39
DSBNR / L 40 40 S19	40	40	250	35	48
DSBNR / L 40 40 S25	40	40	250	35	48
DSBNR / L 50 50 T25	50	50	300	43	48

RICAMBI - SPARE PARTS



12 04 ..

DS 12

VD 12

SD 12

CT 15

15 06 ..

DS 15

VD 16

SD 16

CT 20

19 06 ..

DS 19

VD 19

SD 19

CT 20

25 07 ..

DS 25

VD 25

SD 25

CT 25

UTENSILE TORNITURA ESTERNA SERIE D • TURNING TOOLHOLDER SYSTEM D



DSKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
DSKNR / L 20 20 K12	20	20	125	25	35
DSKNR / L 25 25 M12	25	25	150	32	35
DSKNR / L 32 32 P19	32	32	170	40	39



RICAMBI - SPARE PARTS



12 04 ..	DS 12	VD 12	SD 12	CT 15
19 06 ..	DS19	VD 19	SD 19	CT 20



DSSNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
DSSNR / L 16 16 H09	16	16	100	20	35
DSSNR / L 20 20 K12	20	20	125	25	35
DSSNR / L 25 25 M12	25	25	150	32	35
DSSNR / L 32 32 P15	32	32	170	40	39
DSSNR / L 32 32 P19	32	32	170	40	39
DSSNR / L 40 40 S19	40	40	250	50	48
DSSNR / L 40 40 S25	40	40	250	50	48



RICAMBI - SPARE PARTS



09 03 ..	DS 09	VD 09	SD 09	CT 08
12 04 ..	DS 12	VD 12	SD 12	CT 15
15 06 ..	DS 15	VD 16	SD 16	CT 20
19 06 ..	DS 19	VD 19	SD 19	CT 20
25 07 ..	DS 25	VD 25	SD 25	CT 25

TORNITURA • TURNING



DTGNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

TNMA - TNMG - TNMM

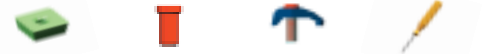
ZENIT
CODICE-CODE

	MM				
	A	B	L	C	L1
DTGNR / L 16 16 H16	16	16	100	20	35
DTGNR / L 20 20 K16	20	20	125	25	35
DTGNR / L 25 25 M16	25	25	150	32	35
DTGNR / L 25 25 M22	25	25	150	32	35
DTGNR / L 32 32 P22	32	32	170	40	39

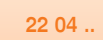


16 04 ..

RICAMBI - SPARE PARTS



DT 16 VD 09 SD 09 CT 08



22 04 ..

DT 22 VD 12 SD 12 CT 15

DTJNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

TNMA - TNMG - TNMM

ZENIT
CODICE-CODE

	MM				
	A	B	L	C	L1
DTJNR / L 20 20 K16	20	20	125	25	35
DTJNR / L 25 25 M16	25	25	150	32	35
DTJNR / L 25 25 M22	25	25	150	32	35
DTJNR / L 32 32 P22	32	32	170	40	39

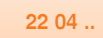


16 04 ..

RICAMBI - SPARE PARTS



DT 16 VD 09 SD 09 CT 08



22 04 ..

DT 22 VD 12 SD 12 CT 15

UTENSILE TORNITURA ESTERNA SERIE D • TURNING TOOLHOLDER SYSTEM D



DVJNR / L



Spoglia Superiore • Rake Angle -4°
 Angolo Inclinazione • Angle of Inclination -13°



Utensile per inserti • Toolholder for inserts
VNMG

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	A	B	MM L	C	L1
DVJNR / L 20 20 K16	20	20	125	25	45
DVJNR / L 25 25 M16	25	25	150	32	45
DVJNR / L 32 25 P16	32	25	170	32	45
DVJNR / L 32 32 P16	32	32	170	32	45



16 04 ..



DV 16



VD 12



SD 12 L

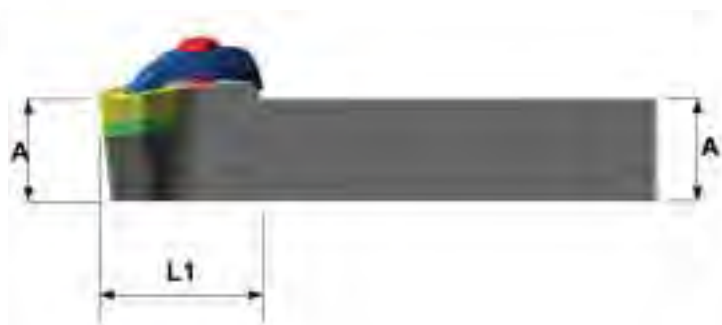


CT 15



DWLNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts

WNMA - WNMG - WNMM

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	A	B	MM L	C	L1
DWLNR / L 16 16 H06	16	16	100	20	35
DWLNR / L 20 20 K06	20	20	125	25	35
DWLNR / L 20 20 K08	20	20	125	25	35
DWLNR / L 25 25 M08	25	25	150	32	35
DWLNR / L 32 32 P08	32	32	170	40	39



06 04 ..



DW 06



VD 06



SD 06



CT 08

08 04 ..

DW 08

VD 12

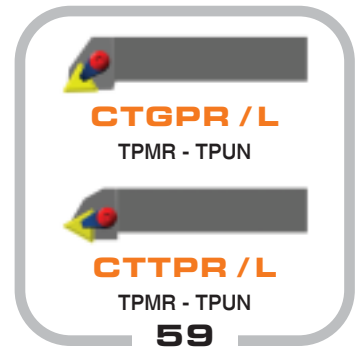
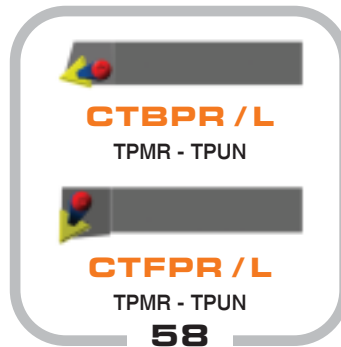
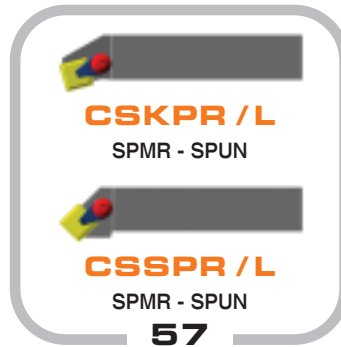
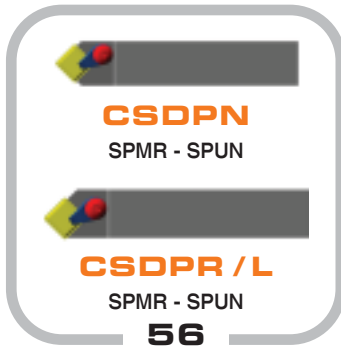
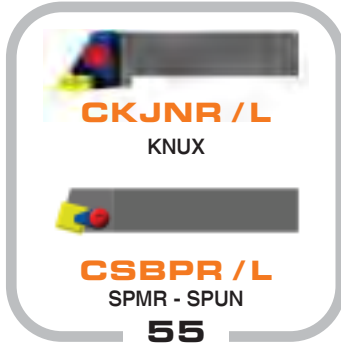
SD 12

CT 15

TORNITURA • TURNING

SERIE C • SYSTEM C

TORNITURA ESTERNA • TOOLHOLDERS



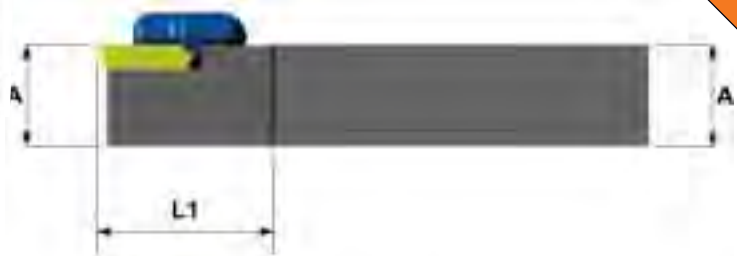
UTENSILE TORNITURA ESTERNA SERIE C • TURNING TOOLHOLDER SYSTEM C



CKJNR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts

KNUX

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

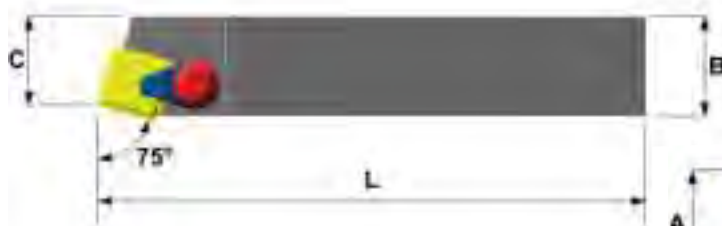
	A	B	MM L	C	L1
CKJNR / L 20 20 K16	20	20	125	29	35
CKJNR / L 25 25 M16	25	25	150	32	35
CKJNR / L 32 25 P16	32	25	170	32	35
CKJNR / L 32 32 P16	32	32	170	40	35



16 04 ..



BKR / L SKR/L VK CH 4 MK CK S 2



CSBPR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination +6°



Utensile per inserti • Toolholder for inserts

SPMR - SPUN

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	A	B	MM L	C	L1
CSBPR / L 12 12 F09	12	12	80	11	18
CSBPR / L 16 16 H09	16	16	100	13	22
CSBPR / L 20 20 K09	20	20	125	17	22
CSBPR / L 20 20 K12	20	20	125	17	22
CSBPR / L 25 25 M12	25	25	150	22	28



09 03 ..

12 03 ..



SQ 09 ST 5 L CH 2,5 S 1

SQ 12 ST 6 L CH 3 S 1



TORNITURA • TURNING



CSDPN

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SPMR - SPUN

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
CSDPN 12 12 F09	12	12	80	6	18
CSDPN 16 16 H09	16	16	100	8	22
CSDPN 20 20 K12	20	20	125	10	22
CSDPN 25 25 M12	25	25	150	12,5	28



09 03 ..

12 03 ..

RICAMBI - SPARE PARTS



SQ 09

SQ 12



ST 5 L

ST 6 L



CH 2,5

CH 3



S 1

S 1

CSDPR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts

SPMR - SPUN

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
CSDPR / L 12 12 F09	12	12	80	8	18
CSDPR / L 16 16 H09	16	16	100	10	22
CSDPR / L 20 20 K12	20	20	125	12	22
CSDPR / L 25 25 M12	25	25	150	14,5	28



09 03 ..

12 03 ..

RICAMBI - SPARE PARTS



SQ 09

SQ 12



ST 5 L

ST 6 L



CH 2,5

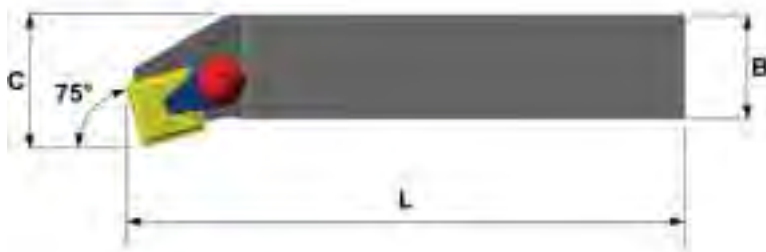
CH 3



S 1

S 1

UTENSILE TORNITURA ESTERNA SERIE C • TURNING TOOLHOLDER SYSTEM C



CSKPR / L



Spoglia Superiore • Rake Angle +6°
Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

SPMR - SPUN

ZENIT
CODICE-CODE

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
CSKPR / L 12 12 F09	12	12	80	16	18
CSKPR / L 16 16 H09	16	16	100	20	22
CSKPR / L 20 20 K09	20	20	125	25	22
CSKPR / L 20 20 K12	20	20	125	25	22
CSKPR / L 25 25 M12	25	25	150	32	28



09 03 ..

12 03 ..



SQ 09

SQ 12



ST 5 L

ST 6 L



CH 2,5

CH 3



S 1

S 1



CSSPR / L

Spoglia Superiore • Rake Angle +6°
Angolo Inclinazione • Angle of Inclination 0°



Utensile per inserti • Toolholder for inserts

SPMR - SPUN

ZENIT
CODICE-CODE

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	MM				
	A	B	L	C	L1
CSSPR / L 12 12 F09	12	12	80	16	18
CSSPR / L 16 16 H09	16	16	100	20	22
CSSPR / L 20 20 K12	20	20	125	25	22
CSSPR / L 25 25 M12	25	25	150	32	28



09 03 ..

12 03 ..



SQ 09

SQ 12



ST 5 L

ST 6 L



CH 2,5

CH 3



S 1

S 1

TORNITURA • TURNING



CTBPR / L



Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination

0°
+6°



Utensile per inserti • Toolholder for inserts

TPMR - TPUN

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
CTBPR / L 12 12 F11	12	12	80	11	18
CTBPR / L 16 16 H11	16	16	100	13	22
CTBPR / L 20 20 K16	20	20	125	17	22
CTBPR / L 25 25 M16	25	25	150	22	28



11 03 ..

16 03 ..

RICAMBI - SPARE PARTS



TT 16



ST 5 C

ST 6 L



CH 2,5

CH 3



S 1

CTFPR / L



Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination

+6°
0°



Utensile per inserti • Toolholder for inserts

TPMR - TPUN

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
CTFPR / L 12 12 F11	12	12	80	16	18
CTFPR / L 16 16 H11	16	16	100	20	22
CTFPR / L 20 20 K11	20	20	125	25	22
CTFPR / L 20 20 K16	20	20	125	25	22
CTFPR / L 25 25 M16	25	25	150	32	28



11 03 ..

16 03 ..

RICAMBI - SPARE PARTS



TT 16



ST 5 C

ST 6 L



CH 2,5

CH 3



S 1

UTENSILE TORNITURA ESTERNA SERIE C • TURNING TOOLHOLDER SYSTEM C



CTGPR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination +6°



Utensile per inserti • Toolholder for inserts

TPMR - TPUN

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	A	B	MM L	C	L1
CTGPR / L 12 12 F11	12	12	80	16	18
CTGPR / L 16 16 H11	16	16	100	20	22
CTGPR / L 20 20 K11	20	20	125	25	22
CTGPR / L 20 20 K16	20	20	125	25	22
CTGPR / L 25 25 M16	25	25	150	32	28



11 03 ..

16 03 ..



ST 5 C

CH 2,5

-

TT 16

ST 6 L

CH 3

S 1



CTTPR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination +6°



Utensile per inserti • Toolholder for inserts

TPMR - TPUN

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	A	B	MM L	C	L1
CTTPR / L 16 16 H11	16	16	100	13	22
CTTPR / L 20 20 K11	20	20	125	17	22
CTTPR / L 20 20 K16	20	20	125	17	22
CTTPR / L 25 25 M16	25	25	150	22	28



11 03 ..

16 03 ..



ST 5 C

CH 2,5

-

TT 16

ST 6 L

CH 3

S 1

TORNITURA • TURNING

SERIE M • SYSTEM M

TORNITURA ESTERNA • TOOLHOLDERS



MCKNR / L

CNMA - CNMG - CNMM



MCLNR / L

CNMA - CNMG - CNMM

61



MDJNR / L

DNMA - DNMG - DNMM



MSKNR / L

SNMA - SNMG - SNMM

62



MTGNR / L

TNMA - TNMG - TNMM



MTJNR / L

TNMA - TNMG - TNMM

63



MVJNR / L

VNMG



MWLNR / L

WNMA - WNMG - WNMM

64



MCKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
MCKNR / L 20 20 K12	20	20	125	25	30
MCKNR / L 25 25 M12	25	25	150	32	30
MCKNR / L 25 25 M16	25	25	150	32	30
MCKNR / L 32 32 P16	32	32	170	40	39
MCKNR / L 32 32 P19	32	32	170	40	39



RICAMBI - SPARE PARTS



12 04 ..

MC 12

SM21

P 02

CH 3

CH 2,5

16 06 ..

MC 16

SM21

P 03

CH 3

CH 2,5

19 06 ..

MC 19

SM12

P 04

CH 4

CH 3,5



MCLNR / L

Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
MCLNR / L 20 20 K12	20	20	125	25	30
MCLNR / L 25 25 M12	25	25	150	32	30
MCLNR / L 25 25 M16	25	25	150	32	30
MCLNR / L 32 32 P16	32	32	170	40	39
MCLNR / L 32 32 P19	32	32	170	40	39



RICAMBI - SPARE PARTS



12 04 ..

MC 12

SM21

P 02

CH 3

CH 2,5

16 06 ..

MC 16

SM21

P 03

CH 3

CH 2,5

19 06 ..

MC 19

SM12

P 04

CH 4

CH 3,5



MDJNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination



Utensile per inserti • Toolholder for inserts
DNMA - DNMG - DNMM

ZENIT
CODICE-CODE

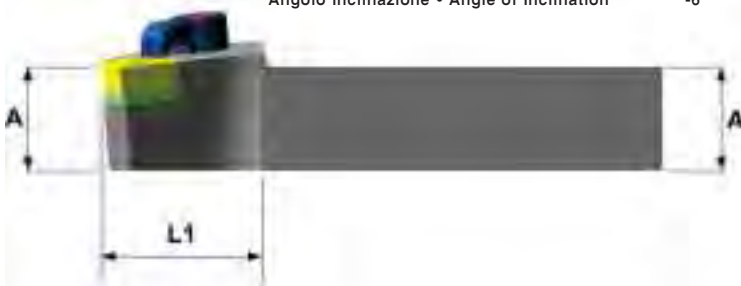
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MDJNR / L 20 20 K15	20	20	125	25	35
MDJNR / L 25 25 M15	25	25	150	32	35
MDJNR / L 32 32 P15	32	32	170	40	39

RICAMBI - SPARE PARTS



MSKNR / L

Spoglia Superiore • Rake Angle
Angolo Inclinazione • Angle of Inclination

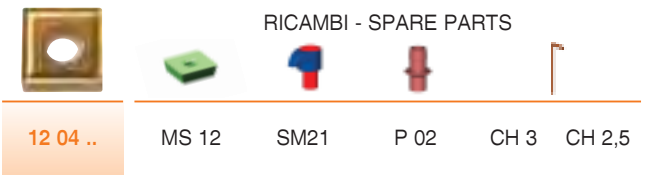


Utensile per inserti • Toolholder for inserts
SNMA - SNMG - SNMM

ZENIT
CODICE-CODE

	A	B	MM L	C	L1
MSKNR / L 20 20 K12	20	20	125	25	30
MSKNR / L 25 25 M12	25	25	150	32	30

RICAMBI - SPARE PARTS





MTGNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



Utensile per inserti • Toolholder for inserts
TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
MTGNR / L 20 20 K16	20	20	125	25	30
MTGNR / L 25 25 M16	25	25	150	32	30
MTGNR / L 25 25 M22	25	25	150	32	30



RICAMBI - SPARE PARTS



16 04 ..

MT 16

SM21

P 01

CH 3

CH 2

22 04 ..

MT 22

SM9

P 05

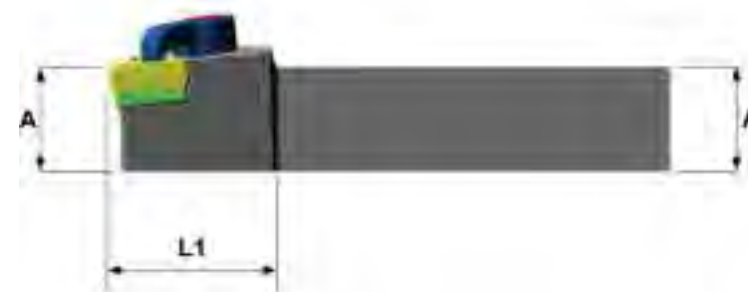
CH 4

CH 2,5



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°

MTJNR / L



Utensile per inserti • Toolholder for inserts
TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

	A	B	MM L	C	L1
MTJNR / L 20 20 K16	20	20	125	25	30
MTJNR / L 25 25 M16	25	25	150	32	30
MTJNR / L 32 25 P16	32	25	170	32	39
MTJNR / L 32 25 P22	32	25	170	32	39
MTJNR / L 32 32 P22	32	32	170	40	39



RICAMBI - SPARE PARTS



16 04 ..

MT 16

SM21

P 01

CH 3

CH 2

22 04 ..

MT 22

SM9

P 05

CH 4

CH 2,5



MVJNR / L



Spoglia Superiore • Rake Angle -4°
 Angolo Inclinazione • Angle of Inclination -13°



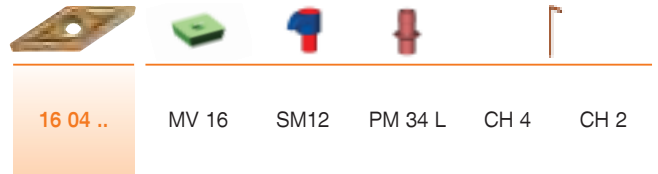
Utensile per inserti • Toolholder for inserts

VNMG

ZENIT
 CODICE-CODE

	A	B	MM		L1
			L	C	
MVJNR / L 20 20 K16	20	20	125	25	37
MVJNR / L 25 25 M16	25	25	150	32	37
MVJNR / L 32 25 P16	32	25	170	32	39

RICAMBI - SPARE PARTS



MWLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination -6°



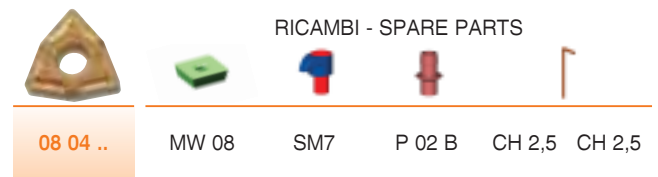
Utensile per inserti • Toolholder for inserts

WNMA - VNMG - WNMM

ZENIT
 CODICE-CODE

	A	B	MM		L1
			L	C	
MWLNR / L 20 20 K08	20	20	125	25	30
MWLNR / L 25 25 M08	25	25	150	32	30

RICAMBI - SPARE PARTS



ISO CHART



P	C	L	N	R	25	25	M	12
1	2	3	4	5	6	7	8	11
S	25	T	P	C	L	N	R	12
9	10	8	1	2	3	4	5	11

1
Sistema di bloccaggio / Clamping system

C
A staffa / Top clamping

M
Staffa perno / Top and hole clamping

E
A vite / Screw clamping

D
Staffa / Top and hole clamping

F
A base / Hole clamping

2
Forma dell'inserto / Insert shape

4
Scopola inferiore inserto / Clearance angle

Simbolo / Symbol	α
A	3°
B	5°
C	7°
D	10°
E	20°
F	25°
G	30°
H	0°
P	11°
X	Spec.

5
Direzione / Feed of tool

3
Angolo di attacco / Bar style

B	C	H	S	F	G	N	J
K	L	M	O	R	S	T	V

6
Altezza dello stelo / Shank height

7
Larghezza dello stelo / Shank width

8
Lunghezza utensile / Tool length

A	32
B	40
C	50
D	60
E	70
F	80
G	90
H	100
J	110
K	120
L	140
M	160
N	180
P	175
Q	180
R	200
S	250
T	300
V	350
W	400
X	Spec.

9
Tipo di stelo / Type of bar

A - Monoblocco in acciaio con filo per refrigerante / Steel bar with internal coolant

C - Mandrillo stelo a testa in acciaio / Carbide shank bar

E - Mandrillo in acciaio con Anti-vibrazione / Anti-vibrator bar

S - Monoblocco in acciaio / Solid steel bar

11
Lunghezza tagliente / Cutting edge length

10
Diametro dello stelo / Bar diameter

TORNITURA • TURNING



INDICE • INDEX

TORNITURA INTERNA • BORING BARS

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SERIE D
SYSTEM D
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SERIE C
SYSTEM C
82

SERIE M
SYSTEM M
82

METALLO DURO
SOLID CARBIDE
88

KIT
88

SERIE P • SYSTEM P

TORNITURA INTERNA • BORING BARS



S.. PCKNR / L

CNMA - CNMG - CNMM



S.. PCLNR / L

CNMA - CNMG - CNMM

69



S.. PDUNR / L

DNMA - DNMG - DNMM



S.. PSKNR / L

SNMA - SNMG - SNMM

70



S.. PTFNR / L

TNMA - TNMG - TNMM



S.. PWLNR / L

WNMA - WNMG - WNMM

71

S.. PCKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
S25T PCKNR / L 12	25	300	37	23	32	17	-11°	
S32U PCKNR / L 12	32	350	40	30	40	22	-10°	
S40V PCKNR / L 12	40	400	56	38	50	27	-10°	



12 04 ..

RICAMBI - SPARE PARTS

-	V 09	L 09 C	CH 2,5	-	
BC 12	V 12	L 12	CH 3	S 12	

S.. PCLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
S16R PCLNR / L 09	16	200	32	14	20	11	-14°	
S20S PCLNR / L 09	20	250	32	18	25	13	-14°	
S25T PCLNR / L 09	25	300	37	23	32	17	-13°	
S25T PCLNR / L 12	25	300	37	23	32	17	-13°	
S32U PCLNR / L 12	32	350	40	30	40	22	-11°	
S40V PCLNR / L 12	40	400	56	38	50	27	-10°	
S50W PCLNR / L 12	50	450	63	47	63	35	-11°	
S50W PCLNR / L 16	50	450	63	47	63	35	-11°	
S50W PCLNR / L 19	50	450	63	47	63	35	-11°	



09 03 ..

12 04 ..

16 06 ..

19 06 ..

RICAMBI - SPARE PARTS

-	V 06	L 06 C	CH 2	-	
-	V 09	L 09 C	CH 2,5	-	
BC 12	V 12	L 12	CH 3	S 12	
BC 16	V 15	L 16	CH 3	S 15	
BC 19	V 19	L 19	CH 4	S 19	



S.. PDUNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
S20S PDUNR / L 11	20	250	32	18	25	13	-10°
S25T PDUNR / L 11	25	300	37	23	32	17	-10°
S32U PDUNR / L 15	32	350	40	30	40	22	-13°
S40V PDUNR / L 15	40	400	56	38	50	27	-11°
S50W PDUNR / L 15	50	450	63	47	63	35	-10°

Barra per inserti • Boring bar for inserts

DNMA - DNMG - DNMM



RICAMBI - SPARE PARTS



	11 04 ..	V 09	L 09	CH 2,5	-
15 06 ..	BD 15	V 12	L 15	CH 3	S 12

S.. PSKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
S25T PSKNR / L 12	25	300	40	23	32	17	-11°
S32U PSKNR / L 12	32	350	47	30	40	22	-10°
S40V PSKNR / L 12	40	400	50	38	50	27	-10°
S50W PSKNR / L 12	50	450	57	47	63	35	-10°
S40V PSKNR / L 15	40	400	50	38	50	27	-10°
S50W PSKNR / L 19	50	450	57	47	63	35	-10°

Barra per inserti • Boring bar for inserts

SNMA - SNMG - SNMM



RICAMBI - SPARE PARTS



	12 04 ..	V 09	L 09 C	CH 2,5	-
15 06 ..	BS 12	V 12	L 12	CH 3	S 12
19 06 ..	BS 15	V 15	L 16	CH 3	S 15
	BS 19	V 19	L 19	CH 4	S 19

S.. PTFNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
				A	C	F		
S25T PTFNR / L 16	25	300	37	23	32	17	-13°	
S32U PTFNR / L 16	32	350	40	30	40	22	-12°	
S40V PTFNR / L 16	40	400	56	38	50	27	-11°	
S50W PTFNR / L 16	50	450	63	47	63	35	-10°	
S40V PTFNR / L 22	40	400	56	38	50	27	-11°	
S50W PTFNR / L 22	50	450	63	47	63	35	-10°	



RICAMBI - SPARE PARTS



16 04 ..

BTR 16 V 09 L 09 CH 2,5 S 09

22 04 ..

BTR 22 V 12 L 12 CH 3 S 12

S.. PWLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
WNMA - WNMG - WNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
				A	C	F		
S16R PWLNR / L 06	16	200	32	14	20	11	-14°	
S20S PWLNR / L 06	20	250	32	18	25	13	-14°	
S25T PWLNR / L 06	25	300	37	23	32	17	-12°	
S25T PWLNR / L 08	25	300	37	23	32	17	-14°	
S32U PWLNR / L 08	32	350	40	30	40	22	-14°	
S40V PWLNR / L 08	40	400	56	38	50	27	-12°	
S50W PWLNR / L 08	50	450	63	47	63	35	-12°	



RICAMBI - SPARE PARTS



06 04 ..

- V 06 L 06 CH 2 -

08 04 ..

BWN 08 V 12 L 12 CH 3 S 12

TORNITURA • TURNING

SERIE S • SYSTEM S

TORNITURA INTERNA • BORING BARS



S..SCKCR / L

CCMT - CCGT



S..SCLCR / L

CCMT - CCGT

73



S..SDNCR / L

DCMT - DCGT



S..SDQCR / L

DCMT - DCGT

74



S..SDUCR / L

DCMT - DCGT



S..SDXCR / L

DCMT - DCGT

75



S..SSKCR / L

SCMT - SCGT



S..STFCR / L

TCMW - TCMT - TCGT

76



S..SVQBR / L

VBMT



S..SVUBR / L

VBMT

77

S.. SCKCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

CCMT - CCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
S16R SCKCR / L 09	16	200	32	14	20	11	-11°	
S20S SCKCR / L 09	20	250	32	18	25	13	-6°	



09 T3 ..

RICAMBI - SPARE PARTS



- - TX 35 - CT 15

S.. SCLCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

CCMT - CCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
S08K SCLCR / L 06	8	125	17	7	10	6	-12°	
S10K SCLCR / L 06	10	125	17	9	12	7	-10°	
S12M SCLCR / L 06	12	150	25	11	16	9	-15°	
S16R SCLCR / L 06	16	200	32	15	20	11	-12°	
S12M SCLCR / L 09	12	150	25	11	16	9	-15°	
S16R SCLCR / L 09	16	200	32	15	20	11	-12°	
S20S SCLCR / L 09	20	250	35	19	25	13	-8°	
S25T SCLCR / L 09	25	300	40	23	32	17	-6°	
S25T SCLCR / L 12	25	300	40	23	32	17	-6°	
S32U SCLCR / L 12	32	350	49	30	40	22	-10°	
S40V SCLCR / L 12	40	400	55	38	50	27	-8°	



06 02 ..

RICAMBI - SPARE PARTS



- - TX 25 - CT 08

09 T3 ..

- - TX 35 - CT 15

12 04 ..

TCS 12 6 B TX 45 CH 4,5 CT 20

TORNITURA • TURNING



S.. SDNCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
				A	C	F		
S16R SDNCR / L 07	16	200	27	15	20	11	-5°	
S20S SDNCR / L 11	20	250	30	18	25	13	-5°	
S25T SDNCR / L 11	25	300	40	23	32	17	-6°	
S32U SDNCR / L 11	32	350	49	30	40	22	-8°	



RICAMBI - SPARE PARTS

07 02 ..	-	-	TX 25	-	CT 08
11 T3 ..	-	-	TX 35	-	CT15
	TDS 11	5 B	TX 35 L	CH 3,5	CT 15

S.. SDQCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM				α
				A	C	F		
S10K SDQCR / L 07	10	125	20	9	12	7	-15°	
S12M SDQCR / L 07	12	150	22	11	16	9	-10°	
S16R SDQCR / L 07	16	200	27	15	20	11	-8°	
S20S SDQCR / L 11	20	250	30	18	25	13	-6°	
S25T SDQCR / L 11	25	300	40	23	32	17	-6°	
S32U SDQCR / L 11	32	350	49	30	40	22	-10°	



RICAMBI - SPARE PARTS

07 02 ..	-	-	TX 25	-	CT 08
11 T3 ..	-	-	TX 35	-	CT 15
	TDS 11	5 B	TX 35 L	CH 3,5	CT 15

S.. SDUCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM						
	D.	L	L1	A	C	F	α
S10K SDUCR / L 07	10	125	20	9	12	7	-15°
S12M SDUCR / L 07	12	150	22	11	16	9	-10°
S16R SDUCR / L 07	16	200	27	15	20	11	-8°
S20S SDUCR / L 07	20	250	30	18	25	13	-6°
S20S SDUCR / L 11	20	250	30	18	25	13	-6°
S25T SDUCR / L 11	25	300	40	23	32	17	-6°
S32U SDUCR / L 11	32	350	49	30	40	22	-10°



RICAMBI - SPARE PARTS



07 02 ..

- - TX 25 - CT 08

11 T3 ..

- - TX 35 - CT 15

TDS 11 5 B TX 35 L CH 3,5 CT 15

S.. SDXCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM						
	D.	L	L1	A	C	F	α
S12M SDXCR / L 07	12	150	22	11	16	9	-6°
S16R SDXCR / L 07	16	200	27	15	20	11	-6°
S20S SDXCR / L 11	20	250	30	18	25	13	-6°
S25T SDXCR / L 11	25	300	40	23	32	17	-6°
S32U SDXCR / L 11	32	350	49	30	40	22	-8°



RICAMBI - SPARE PARTS



07 02 ..

- - TX 25 - CT 08

11 T3 ..

- - TX 35 - CT 15

TDS 11 5 B TX 35 L CH 3,5 CT 15

TORNITURA • TURNING



S.. SSKCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

SCMT - SCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
S16R SSKCR / L 09	16	200	32	14	20	11	-11°
S20S SSKCR / L 09	20	250	32	18	25	13	-6°
S25T SSKCR / L 12	25	300	40	23	32	17	-8°
S32U SSKCR / L 12	32	350	50	30	40	22	-10°



RICAMBI - SPARE PARTS

09 T3 ..	-	-	TX 35	-	CT 15
12 04 ..	-	-	TX 45	-	CT 20
	SQS 12	6 B	TX 45	CH 4,5	CT 20

S.. STFCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

TCMW - TCMT - TCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
S06H STFCR / L 06	6	100	10	5	8	4,5	-10°
S08K STFCR / L 06	8	125	10	7	10	6	-11°
S10K STFCR / L 09	10	125	22	9	12	7	-15°
S12M STFCR / L 09	12	150	25	11	16	9	-10°
S12M STFCR / L 11	12	150	27	11	16	9	-10°
S16R STFCR / L 11	16	200	32	14	20	11	-8°
S20S STFCR / L 11	20	250	35	18	25	13	-3°
S16R STFCR / L 16	16	200	32	14	20	11	-10°
S20S STFCR / L 16	20	250	35	18	25	13	-8°
S25T STFCR / L 16	25	300	40	23	32	17	-6°
S32U STFCR / L 16	32	350	49	30	40	22	-10°
S40V STFCR / L 16	40	400	55	38	50	27	-8°



RICAMBI - SPARE PARTS

06 01 ..	-	-	TX 20	-	CT 06
09 02 ..	-	-	TX 22	-	CT 07
11 02 ..	-	-	TX 25	-	CT 08
16 T3 ..	-	-	TX 35	-	CT 15
	TTS 16	5 B	TX 35 L	CH 3,5	CT 15

S.. SVQBR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

VBMT

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	D.	L	L1	MM				α
S16R SVQBR / L 11	16	200	27	15	20	11	-8°	
S20S SVQBR / L 11	20	250	30	18	25	13	-6°	
S25T SVQBR / L 11	25	300	40	23	32	17	-6°	
S25T SVQBR / L 16	25	300	40	23	32	17	-6°	
S32U SVQBR / L 16	32	350	49	30	40	22	-10°	
S40V SVQBR / L 16	40	400	55	38	50	27	-10°	



11 02 ..

- - TX 25 - CT 08

16 04 ..

- - TX 35 - CT 15
 TVS 16 5 B TX 35 L CH 3,5 CT 15

S.. SVUBR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

VBMT

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	D.	L	L1	MM				α
S16R SVUBR / L 11	16	200	27	15	20	13	-8°	
S20S SVUBR / L 11	20	250	30	18	25	15	-6°	
S25T SVUBR / L 11	25	300	40	23	32	18	-6°	
S25T SVUBR / L 16	25	300	40	23	32	18	-6°	
S32U SVUBR / L 16	32	350	49	30	40	22	-10°	
S40V SVUBR / L 16	40	400	55	38	50	27	-10°	



11 02 ..

- - TX 25 - CT 08

16 04 ..

- - TX 35 - CT 15
 TVS 16 5 B TX 35 L CH 3,5 CT 15

TORNITURA • TURNING

SERIE D • SYSTEM D

TORNITURA INTERNA • BORING BARS



S.. DCLNR / L

CNMA - CNMG - CNMM



S.. DDUNR / L

DNMA - DNMG - DNMM

79



S.. DSKNR / L

SNMA - SNMG - SNMM



S.. DTFNR / L

TNMA - TNMG - TNMM

80



S.. DWLNR / L

WNMA - WNMG - WNMM

81

S.. DCLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C

Barra per inserti • Boring bar for inserts

CNMA - CNMG - CNMM

ZENIT CODICE-CODE	D.	L	L1	MM A	C	F	α
S25T DCLNR / L 12	25	300	37	23	32	17	-13°
S32U DCLNR / L 12	32	350	40	30	40	22	-11°
S40V DCLNR / L 12	40	400	56	38	50	27	-10°
S50W DCLNR / L 16	50	450	63	47	63	35	-11°



RICAMBI - SPARE PARTS



12 04 ..

DC 12 VD 12 SD 12 CT 15

16 06 ..

DC 16 VD 16 SD 16 CT 20

S.. DDUNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C

Barra per inserti • Boring bar for inserts

DNMA - DNMG - DNMM

ZENIT CODICE-CODE	D.	L	L1	MM A	C	F	α
S25T DDUNR / L 11	25	300	37	23	32	17	-13°
S32U DDUNR / L 11	32	350	40	30	40	22	-10°
S40V DDUNR / L 15	40	400	56	38	50	27	-12°



RICAMBI - SPARE PARTS



11 04 ..

DD 11 VD 09 SD 09 CT 08

15 06 ..

DD 15 VD 12 SD 12 CT 15



S.. DSKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	D.	L	L1	MM			
				A	C	F	α
S25T DSKNR / L 12	25	300	40	23	32	17	-11°
S32U DSKNR / L 12	32	350	47	30	40	22	-10°
S40V DSKNR / L 12	40	400	50	38	50	27	-10°



RICAMBI - SPARE PARTS



12 04 ..

DS 12 VD 12 SD 12 CT 15

S.. DTFNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	D.	L	L1	MM			
				A	C	F	α
S25T DTFNR / L 16	25	300	37	23	32	17	-13°
S32U DTFNR / L 16	32	350	40	30	40	22	-12°
S40V DTFNR / L 22	40	400	56	38	50	27	-11°



RICAMBI - SPARE PARTS



16 04 ..

DT 16 VD 09 SD 09 CT 08

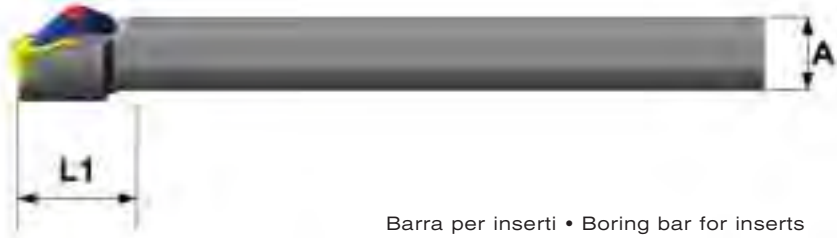
22 04 ..

DT 22 VD 12 SD 12 CT 15

S.. DWLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
WNMA - WNMG - WNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM		F	α
S25T DWLNR / L 08	25	300	37	23	32	17	-14°
S32U DWLNR / L 08	32	350	40	30	40	22	-14°
S40V DWLNR / L 08	40	400	56	38	50	27	-12°



08 04 ..

RICAMBI - SPARE PARTS



DW 08



VD 12



SD 12



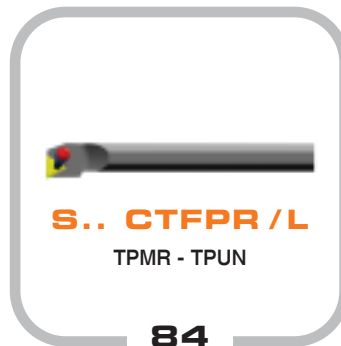
CT 15



TORNITURA • TURNING

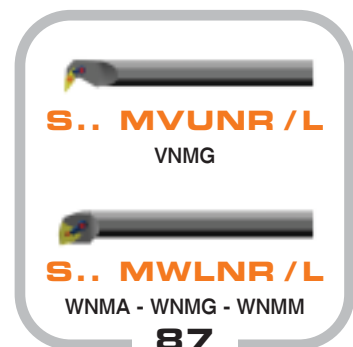
SERIE C • SYSTEM C

TORNITURA INTERNA • BORING BARS



SERIE M • SYSTEM M

TORNITURA INTERNA • BORING BARS



S.. CKUNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
KNUX

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	D.	L	L1	MM											
				A	C	F	α								
S25T CKUNR / L 16	25	300	50	23	32	17	-12°	16 04 ..	-	SKR/L	VK	CH4	MK	-	-
S32U CKUNR / L 16	32	350	54	30	40	22	-10°		BKR/L	SKR/L	VK	CH4	MK	CK	S2
S40V CKUNR / L 16	40	400	60	38	50	27	-8°								

S.. CSKPR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
SPMR - SPUN

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	D.	L	L1	MM									
				A	C	F	α						
S16R CSKPR / L 09	16	200	30	14	20	11	0°	09 03 ..	-	ST 5 C	CH 2,5	-	
S20S CSKPR / L 09	20	250	35	18	25	13	0°		-	ST 6 C	CH 3	-	
S25T CSKPR / L 12	25	300	40	23	32	17	0°	12 03 ..	SQ 12	ST 6 L	CH 3	S 1	
S32U CSKPR / L 12	32	350	45	30	40	22	0°						
S40V CSKPR / L 12	40	400	50	38	50	27	0°						



S.. CTFPR / L



Spoglia Superiore • Rake Angle +6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



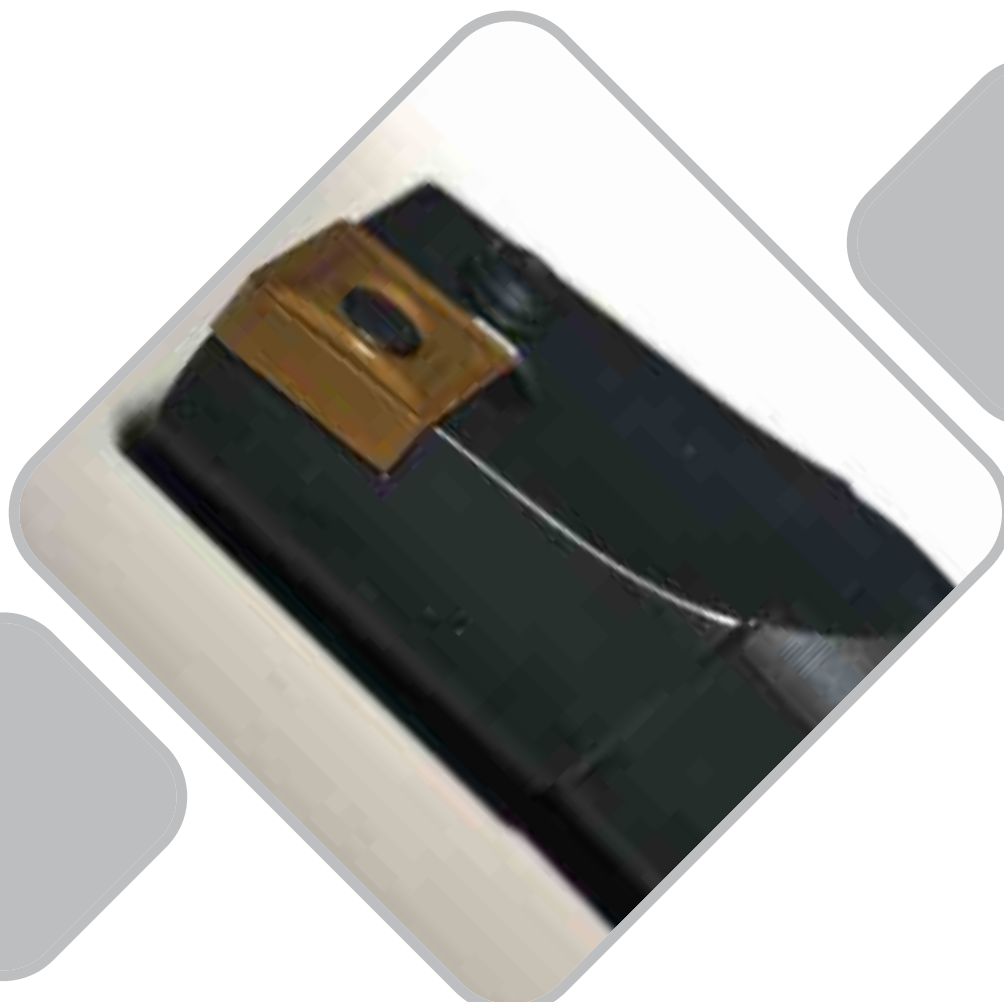
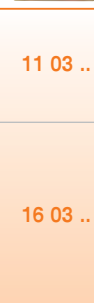
Barra per inserti • Boring bar for inserts

TPMR - TPUN

ZENIT
 CODICE-CODE

	D.	L	L1	MM				
				A	C	F	α	
S12M CTFPR / L 11	12	150	26	10	16	9	0°	11 03 ..
S16R CTFPR / L 11	16	200	30	14	20	11	0°	
S20S CTFPR / L 11	20	250	30	18	25	13	0°	
S16R CTFPR / L 16	16	200	30	14	20	11	0°	16 03 ..
S20S CTFPR / L 16	20	250	35	18	25	13	0°	
S25T CTFPR / L 16	25	300	40	23	32	17	0°	
S32U CTFPR / L 16	32	350	45	30	40	22	0°	TT 16
S40V CTFPR / L 16	40	400	45	38	50	27	0°	

RICAMBI - SPARE PARTS



TORNITURA • TURNING

S.. MCLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
CNMA - CNMG - CNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM		F	α
				A	C		
S25T MCLNR / L 12	25	300	37	23	32	17	-13°
S32U MCLNR / L 12	32	350	40	30	40	22	-11°



12 04 ..

RICAMBI - SPARE PARTS

-	SM 21	P 02 A	CH 3	CH 2,5	
MC 12	SM 21	P 02	CH 3	CH 2,5	

S.. MDUNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts
DNMA - DNMG - DNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM		F	α
				A	C		
S32U MDUNR / L 15	32	350	40	30	40	22	-13°



15 06 ..

RICAMBI - SPARE PARTS

MD 15	SM 22	P 02	CH 3	CH 2,5	

TORNITURA • TURNING



S.. MSKNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

SNMA - SNMG - SNMM

ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
S25T MSKNR / L 12	25	300	40	23	32	17	-11°
S32U MSKNR / L 12	32	350	47	30	40	22	-10°



RICAMBI - SPARE PARTS

	SM 21	P 02 A	CH 3	CH 2,5
12 04 ..	SM 21	P 02	CH 3	CH 2,5

S.. MTUNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

TNMA - TNMG - TNMM

ZENIT
 CODICE-CODE

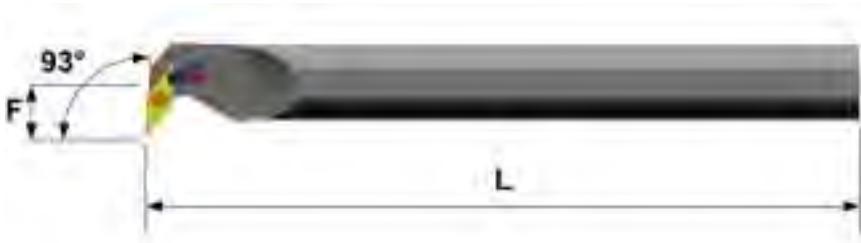
	D.	L	L1	MM A	C	F	α
S25T MTUNR / L 16	25	300	37	23	32	17	-13°
S32U MTUNR / L 16	32	350	40	30	40	22	-12°



RICAMBI - SPARE PARTS

	SM 21	P 01	CH 3	CH 2
16 04 ..	SM 21	P 01	CH 3	CH 2

S.. MVUNR / L



Spoglia Superiore • Rake Angle -5°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

VNMG

RICAMBI - SPARE PARTS

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM						
	D.	L	L1	A	C	F	α
S25T MVUNR / L 16	25	300	37	23	32	17	-13°
S32U MVUNR / L 16	32	350	40	30	40	22	-13°
S40V MVUNR / L 16	40	400	47	38	50	27	-14°



16 04 ..



MV 16 SM 12 PM 34 L CH 4 CH 2

S.. MWLNR / L



Spoglia Superiore • Rake Angle -6°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

WNMA - WNMG - WNMM

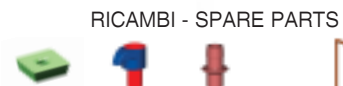
RICAMBI - SPARE PARTS

ZENIT
 CODICE-CODE

ZENIT CODICE-CODE	MM						
	D.	L	L1	A	C	F	α
S25T MWLNR / L 08	25	300	37	23	32	17	-14°
S32U MWLNR / L 08	32	350	40	30	40	22	-14°



08 04 ..



- SM 20 P 02 A CH 3 CH 2,5
 MW 08 SM 20 P 02 B CH 3 CH 2,5

TORNITURA • TURNING

METALLO DURO•SOLID CARBIDE

TORNITURA INTERNA•BORING BARS



E.. SCLCR / L
CCMT - CCGT



E.. SDQCR / L
DCMT - DCGT

89



E.. SDUCR / L
DCMT - DCGT



E.. STFCR / L
TCMW - TCMT - TCGT

90



ZETA KIT
CCMT - CCGT - DCMT -
DCGT - TCMW

91

E.. SCLCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

CCMT - CCGT

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	D.	L	L1	MM				α
				A	C	F		
E08K SCLCR / L 06	8	125	17	7	10	6	-10°	
E10M SCLCR / L 06	10	150	21	9	12	7	-8°	06 02 ..
E12Q SCLCR / L 06	12	180	23	11	16	9	-8°	
E12Q SCLCR / L 09	12	180	22	11	16	9	-8°	
E16R SCLCR / L 09	16	200	28	15	20	11	-8°	
E20S SCLCR / L 09	20	250	33	18	25	13	-6°	09 T3 ..
E25T SCLCR / L 09	25	300	38	23	32	17	-6°	



06 02 ..

- - TX 25 - CT 08

09 T3 ..

- - TX 35 - CT 15

E.. SDQCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

RICAMBI - SPARE PARTS

	D.	L	L1	MM				α
				A	C	F		
E10M SDQCR / L 07	10	150	21	9	12	7	-8°	
E12Q SDQCR / L 07	12	180	23	11	16	9	-8°	07 02 ..
E16R SDQCR / L 07	16	200	23	15	20	11	-6°	
E20S SDQCR / L 11	20	250	33	18	25	13	-6°	
E25T SDQCR / L 11	25	300	38	23	32	17	-6°	11 T3 ..



07 02 ..

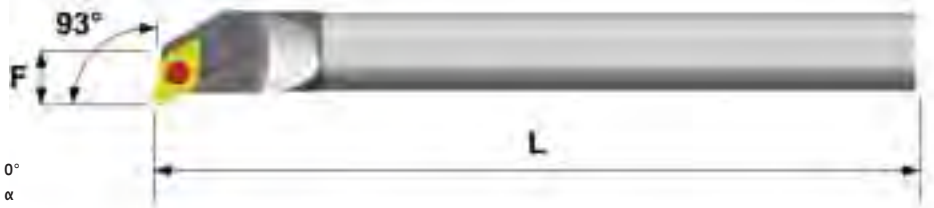
- - TX 25 - CT 08

11 T3 ..

- - TX 35 - CT 15



E.. SDCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

DCMT - DCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
E10M SDCR / L 07	10	150	21	9	12	7	-8°
E12Q SDCR / L 07	12	180	23	11	16	9	-8°
E16R SDCR / L 07	16	200	23	15	20	11	-6°
E20S SDCR / L 11	20	250	33	18	25	13	-6°
E25T SDCR / L 11	25	300	38	23	32	17	-6°



RICAMBI - SPARE PARTS



07 02 ..	-	-	TX 25	-	CT 08
11 T3 ..	-	-	TX 35	-	CT 15

E.. STFCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



Barra per inserti • Boring bar for inserts

TCMW - TCMT - TCGT

ZENIT
 CODICE-CODE

	D.	L	L1	MM A	C	F	α
E06H STFCR / L 06	6	100	13	5	8	4,5	-10°
E08K STFCR / L 06	8	125	17	7	10	6	-6°
E10M STFCR / L 09	10	150	21	9	12	7	-8°
E12Q STFCR / L 09	12	180	23	11	16	9	-6°
E10M STFCR / L 11	10	150	21	9	12	7	-8°
E12Q STFCR / L 11	12	180	23	11	16	9	-6°
E16R STFCR / L 11	16	200	28	15	20	11	-4°
E20S STFCR / L 16	20	250	33	18	25	13	-8°
E25T STFCR / L 16	25	300	38	23	32	17	-6°



RICAMBI - SPARE PARTS



06 01 ..	-	-	TX 20	-	CT 06
09 02 ..	-	-	TX 22	-	CT 07
11 02 ..	-	-	TX 25	-	CT 08
16 T3 ..	-	-	TX 35	-	CT 15

KIT SCLCR / L



Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



ZENIT
 CODICE-CODE

Barra per inserti • Boring bar for inserts
CCMT - CCGT

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	D.	L	L1	MM				α
				A	C	F		
S0608H SCLCR / L 06	8	100	20	7	8,5	4,5	-15°	
S0810J SCLCR / L 06	10	110	30	9	11	5	-15°	
S1012K SCLCR / L 06	12	125	35	11	13	7	-10°	
S1216M SCLCR / L 06	16	150	45	15	17	9	-10°	



06 02 ..



TX 25



CT 08

KIT SDUCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



ZENIT
 CODICE-CODE

Barra per inserti • Boring bar for inserts
DCMT - DCGT

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	D.	L	L1	MM				α
				A	C	F		
S0810J SDUCR / L 07	10	110	30	9	12	7	-10°	
S1012K SDUCR / L 07	12	125	35	11	16	9	-8°	
S1216M SDUCR / L 07	16	150	45	15	20	11	-6°	



07 02 ..



TX 25



CT 08

KIT STFCR / L

Spoglia Superiore • Rake Angle 0°
 Angolo Inclinazione • Angle of Inclination α
 Diametro minimo del foro • Min. Boring Diameter C



ZENIT
 CODICE-CODE

Barra per inserti • Boring bar for inserts
TCMW

RICAMBI - SPARE PARTS

ZENIT CODICE-CODE	D.	L	L1	MM				α
				A	C	F		
S0608H STFCR / L 06	8	100	20	7	8,5	4,5	-15°	
S0810J STFCR / L 06	10	110	30	9	11	5	-15°	
S1012K STFCR / L 06	12	125	35	11	13	7	-10°	
S1216M STFCR / L 06	16	150	45	15	17	9	-10°	



06 01 04



TX 20



CT 06