

Manufacturers of Precision Ground Cutting Tools



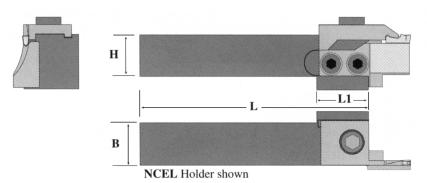
Face Grooving

NC Modular System

e - Catalogue



Type NCER/L Toolholder



NOTE: Toolholders are supplied with screws for support blade and clamp only.

Clamps, support blades and inserts must be ordered separately.

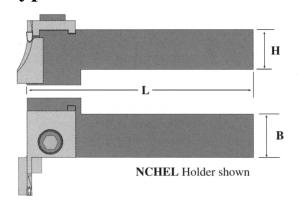
Inserts Type 150 Page: EE7

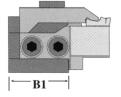
NC basic straight toolholder

	CW	CD		Dime	nsions		Insert	Clamp	Clamp Screw	Support	Blade-Screw
Part number	max.	max.	Н	В	L	L1	Type	Screw	Key	Blade-Screw	Key
NCER/L 2032	6	32	20	32	150	25	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCER/L 2525	6	32	25	25	150	25	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCER/L 2532	6	32	25	32	150	25	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCER/L 3232	10	40	32	32	150	25	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCER/L 4040	10	40	40	40	200	25	150	M8x16MC	Hex M8	M6x25MK	Hex M6

State R or L version

Type NCER/L Toolholder





NOTE: Toolholders are supplied with screws for support blade and clamp only.

Clamps, support blades and inserts must be ordered separately.

Inserts Type 150 Page: EE7

NC cranked toolholder

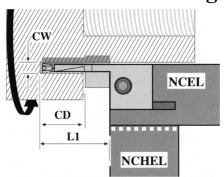
D	CW	CD		Dime	nsions		Insert	Clamp	Clamp Screw	Support	Blade-Screw
Part number	max.	max.	H	В	L	B1	Type	Screw	Key	Blade-Screw	Key
NCHER/L2035	4	25	20	35	150	35	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCHER/L2525	6	40	25	25	150	35	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCHER/L3235	10	40	32	35	150	35	150	M8x16MC	Hex M8	M6x25MK	Hex M6
NCHER/L 4040	10	40	40	40	200	35	150	M8x16MC	Hex M8	M6x25MK	Hex M6

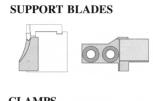
State R or L version



MCMODULAR SYSTEM Face Grooving

LH tools RH turning





CLAMPS

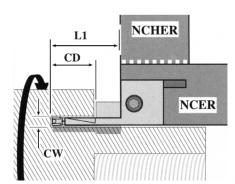


· · ·	Iouuiai	System	ı supp	ort blad	les & clamps	
CW	Outer- Ø*	CD	L1	Insert		
mm.	mm.	mm.	mm	Туре	Catalog Number	Catalog Number
	40-45	12		150	312-15032-040	
	45-50	12		150	312-15032-045	416 15022 040
	50-60	16		150	316-15032-050	416-15032-040
	60-75	16		150	316-15032-060	
3	75-100	20	32	150	320-15032-075	420 15022 075
	100-150	20		150	320-15032-100	420-15032-075
	150-250	25		150	325-15032-150	
	250-450	25		150	325-15032-250	425-15032-150
	450-∞	25		150	325-15032-450	
	40-50	12		150	312-15042-040	
	50-60	16		150	316-15042-050	416-15042-040
	60-75	16		150	316-15042-060	
4	75-100	20	32	150	320-15042-075	420-15042-075
4	100-150	20	32	150	320-15042-100	420-15042-075
	150-250	25		150	325-15042-150	
	250-450	25		150	325-15042-250	425-15042-150
	450-∞	25		150	325-15042-450	
	40-50	12		150	312-15052-040	
	50-60	16		150	316-15052-050	416-15052-040
	60-75	16		150	316-15052-060	
	75-100	20	32	150	320-15052-075	420-15052-075
	100-150	20	32	150	320-15052-100	420-13032-073
	150-250	25		150	325-15052-150	
	250-450	25		150	325-15052-250	425-15052-150
	450-∞	25		150	325-15052-450	
	70-100	30		150	330-15052-070	430-15052-070
	100-150	30		150	330-15052-100	430-13032-070
	150-250	30	40	150	330-15052-150	
	250-450	30		150	330-15052-250	430-15052-150
	450-∞	30		150	330-15052-450	
	40-50	12		150	312-15062-040	416-15062-040
	50-75	16		150	316-15062-050	410-13002-040
	75-150	20	32	150	320-15062-075	
6	150-300	25		150	325-15062-150	425-15062-075
U	300-∞	25		150	325-15062-300	
	70-150	35		150	335-15062-070	
	150-300	35	40	150	335-15062-150	435-15062-070
	300-∞	35		150	335-15062-300	*
	40-50	12		150	312-15082-040	416-15082-040
	50-75	16		150	316-15082-050	710-13002-040
	75-150	20	32	150	320-15082-075	
8	150-300 25		150	325-15082-150	425-15082-075	
O	300-∞	25		150	325-15082-300	
	70-150	35		150	335-15082-070	
	150-300	35	40	150	335-15082-150	435-15082-070
	300-∞	35		150	335-15082-300	

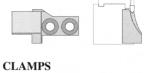


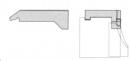
MCMODULAR SYSTEM Face Grooving

RH tools LH turning









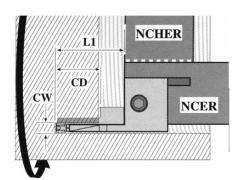
CW mm.	Outer Ø*	CD mm.	L1 mm	Insert Type	Catalog Number	Catalog Number	
	40.45	10					
	40-45	12		150	312-15031-040		
	45-50	12		150	312-15031-045	416-15031-040	
	50-60	16		150	316-15031-050		
	60-75	16	22	150	316-15031-060		
3	75-100	20	32	150	320-15031-075	420-15031-075	
	100-150	20		150	320-15031-100		
	150-250	25		150	325-15031-150		
	250-450	25		150	325-15031-250	425-15031-150	
	450-∞	25		150	325-15031-450		
	40-50	12		150	312-15041-040		
	50-60	16		150	316-15041-050	416-15041-040	
	60-75	16		150	316-15041-060		
4	75-100	20	32	150	320-15041-075	420-15041-075	
	100-150	20	J-2	150	320-15041-100		
	150-250	25		150	325-15041-150	425-15041-150	
	250-450	25		150	325-15041-250	425-15041-150	
	450-∞	25		150	325-15041-450		
77. 11.	40-50	12		150	312-15051-040		
	50-60	16		150	316-15051-050	416-15051-040	
	60-75	16		150	316-15051-060		
	75-100	20	22	150	320-15051-075	420 15051 075	
	100-150	20	32	150	320-15051-100	420-15051-075	
	150-250	25		150	325-15051-150		
5	250-450	25		150	325-15051-250	425-15051-150	
	450-∞	25		150	325-15051-450		
	70-100	30		150	330-15051-070	420 45054 050	
	100-150	30		150	330-15051-100	430-15051-070	
	150-250	30	40	150	330-15051-150		
	250-450	30		150	330-15051-250	430-15051-150	
	450-∞	30		150	330-15051-450		
	40-50	12	1	150	312-15061-040		
	50-75	16		150	316-15061-050	416-15061-040	
	75-150	20	32	150	320-15061-075		
	150-300	25	22	150	325-15061-150	425-15061-075	
6	300-∞	25		150	325-15061-300		
	70-150	35		150	335-15061-070		
	150-300	35	40	150	335-15061-150	435-15061-070	
	300-∞		40	150	335-15061-300	433-13001-070	
	40-50	35 12		150	312-15081-040		
				150		416-15081-040	
	50-75	16	22	150	316-15081-050		
	75-150	20	32	150	320-15081-075	435 15001 055	
8	150-300	25		150	325-15081-150	425-15081-075	
	300-∞	25		150	325-15081-300		
	70-150	35	40		335-15081-070	10.0 4.0004 0.00	
	150-300	35	40	150	335-15081-150	435-15081-070	
	300-∞	35		150	335-15081-300		

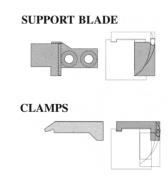


MODULAR SYSTEM TM

Face Grooving

Contra RH tools RH turning



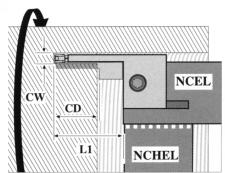


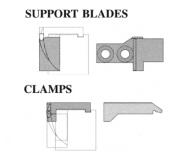
					es & clamps	
CW	Outer- Ø*	CD	L1	Insert	Catalaa Namban	Catalaa Naashaa
mm.	mm.	mm.	mm	Туре	Catalog Number	Catalog Number
	40-45	12		150	312-15031-040 C	
	45-50	12		150	312-15031-045 C	416-15031-040 C
	50-60	16		150	316-15031-050 C	410-15051-040 (
	60-75	16		150	316-15031-060 C	
3	75-100	20	32	150	320-15031-075 C	420-15031-075 C
	100-150	20		150	320-15031-100 C	420-13031-073 C
	150-250	25		150	325-15031-150 C	
	250-450	25		150	325-15031-250 C	425-15031-150 C
	450-∞	25		150	325-15031-450 C	
	40-50	12		150	312-15041-040 C	
	50-60	16		150	316-15041-050 C	416-15041-040 C
	60-75	16		150	316-15041-060 C	
4	75-100	20	32	150	320-15041-075 C	420-15041-075 C
4	100-150	20	32	150	320-15041-100 C	420-15041-075 C
	150-250	25		150	325-15041-150 C	
	250-450	25		150	325-15041-250 C	425-15041-150 C
	450-∞	25		150	325-15041-450 C	
	40-50	12		150	312-15051-040 C	
	50-60	16		150	316-15051-050 C	416-15051-040 C
	60-75	16		150	316-15051-060 C	
	75-100	20	22	150	320-15051-075 C	430 15051 055 6
	100-150	20	32	150	320-15051-100 C	420-15051-075 C
	150-250	25		150	325-15051-150 C	
5	250-450	25		150	325-15051-250 C	425-15051-150 C
	450-∞	25		150	325-15051-450 C	
	70-100	30		150	330-15051-070 С	420 15051 050 6
	100-150	30		150	330-15051-100 C	430-15051-070 C
	150-250	30	40	150	330-15051-150 C	
	250-450	30		150	330-15051-250 C	430-15051-150 C
	450-∞	30		150	330-15051-450 C	
	40-50	12		150	312-15061-040 C	44 (4 80 (4 0 40 6
	50-75	16		150	316-15061-050 C	416-15061-040 C
	75-150	20	32	150	320-15061-075 C	
	150-300	25		150	325-15061-150 C	425-15061-075 C
6	300-∞	25		150	325-15061-300 C	
	70-150	35		150	335-15061-070 С	
	150-300	35	40	150	335-15061-150 С	435-15061-070 C
	300-∞	35		150	335-15061-300 C	
	40-50	12		150	312-15081-040 C	14 2 4 8 2 2 2 2 2 2
	50-75	16		150	316-15081-050 C	416-15081-040 C
	75-150	20	32	150	320-15081-075 C	
0	150-300	25		150	325-15081-150 C	425-15081-075 C
8	300-∞	25		150	325-15081-300 C	.22 22001 070 0
	70-150	35		150	335-15081-070 C	
	150-300	35	40	150	335-15081-150 C	435-15081-070 C
	300-∞	35		150	335-15081-300 C	122 12001 070 €
	70-150	40		150	340-15101-070 C	
10	150-300	40	45	150	340-15101-070 C	440-15101-070 C
10	300-∞	40	73	150	340-15101-130 C	770-13101-070 C
	300-00	40		150	340-13101-300 C	



MODULAR SYSTEM TM Face Grooving

Contra LH tools LH turning



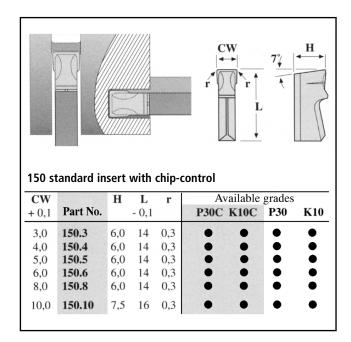


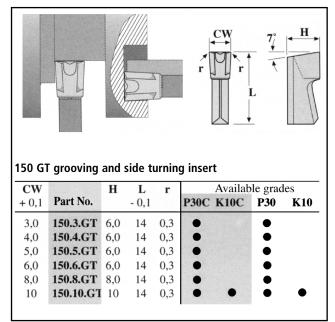
CW	Outer- Ø*	CD	L1	Insert	Gatalaa Namahan	Catalan Namahan
mm.	mm.	mm.	mm	Type	Catalog Number	Catalog Number
	40-45	12		150	312-15032-040 C	
	45-50	12		150	312-15032-045 C	416 15033 040 C
	50-60	16		150	316-15032-050 C	416-15032-040 C
	60-75	16		150	316-15032-060 C	
3	75-100	20	32	150	320-15032-075 C	420 15022 075 C
	100-150	20		150	320-15032-100 C	420-15032-075 C
	150-250	25		150	325-15032-150 C	
	250-450	25		150	325-15032-250 C	425-15032-150 C
	450-∞	25		150	325-15032-450 C	
	40-50	12		150	312-15042-040 C	
	50-60	16		150	316-15042-050 C	416-15042-040 C
	60-75	16		150	316-15042-060 C	
4	75-100	20	32	150	320-15042-075 C	420-15042-075 C
4	100-150	20	34	150	320-15042-100 C	720-13042-073 C
	150-250	25		150	325-15042-150 C	
	250-450	25		150	325-15042-250 C	425-15042-150 C
	450-∞	25		150	325-15042-450 C	
	40-50	12		150	312-15052-040 C	
	50-60	16		150	316-15052-050 C	416-15052-040 C
	60-75	16		150	316-15052-060 C	4
	75-100	20	32	150	320-15052-075 C	420-15052-075 C
	100-150	20	32	150	320-15052-100 C	420-13032-073 C
	150-250	25		150	325-15052-150 C	
5	250-450	25		150	325-15052-250 C	425-15052-150 C
	450-∞	25		150	325-15052-450 C	
	70-100	30		150	330-15052-070 C	430-15052-070 C
	100-150	30		150	330-15052-100 C	
	150-250	30	40	150	330-15052-150 C	
	250-450	30		150	330-15052-250 C	430-15052-150 C
	450-∞	30		150	330-15052-450 C	
	40-50	12		150	312-15062-040 C	416-15062-040 C
	50-75	16		150	316-15062-050 C	
	75-150	20	32	150	320-15062-075 C	
6	150-300	25		150	325-15062-150 C	425-15062-075 C
	300-∞	25		150	325-15062-300 C	
	70-150	35		150	335-15062-070 C	
	150-300	35	40	150	335-15062-150 C	435-15062-070 C
	300-∞	35		150	335-15062-300 C	
	40-50	12		150	312-15082-040 C	416-15082-040 C
	50-75	16	22	150	316-15082-050 C	
	75-150	20	32	150	320-15082-075 C	400 40000 0000
8	150-300	25		150	325-15082-150 C	425-15082-075 C
	300-∞	25		150	325-15082-300 C	
	70-150	35	40	150	335-15082-070 C	400 45000 050 0
	150-300	35	40	150	335-15082-150 C	435-15082-070 C
	300-∞	35		150	335-15082-300 C	
1.0	70-150	40	4.5	150	340-15102-070 C	440 45403 050 0
10	150-300	40	45	150	340-15102-150 C	440-15102-070 C
	300-∞	40		150	340-15102-300 C	

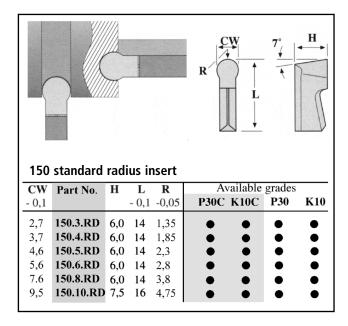


MODULAR SYSTEM TM Face Grooving

Type 150 Inserts









Recommendations for Face grooving

	RECOMMENDED		FEED M	IM REV			
MATERIAL	CARBIDE	0,025	0,05	0,1	0,2		
	GRADE	C	CUTTING SPEED M/MIN				
Low carbon steel	P30C	130	100	90	90		
Carbon steel	P30C	160	140	110			
Alloyed steel	P30C		110	80	75		
Stainless steel	P30C		100	90	70		
Cast steel	P30C		80	65	50		
Heat resistant Iron-based alloys	K10C	100	65	60	40		
Hard steel (Manganese steel)	K10		20	15			
Malleable Iron	K10C	130	130	110			
Cast Iron	K10C	110	110	95			
Aluminium alloys	K10		240	200			
Heat resistant Nickel-based alloys	K10	30	20	12			
Heat resistant Cobalt-based alloys	K10	30	20	12			
Non-Ferrous materials	K10	240	160	120			

NOTE

The above data are for guidance only. Actual performance depends on various factors, such as mounting stability, workpiece shape and specific material characteristics.



Technical Information - Face Grooving

Recommendations for face grooving and Special face grooving circumstances: trepanning operations: - cutting speed 80% of cutting speed for parting-off Close to a boss: - feed 50% of feed for parting-off - R.H. turning / L.H. tool - apply sufficient cooling directly on cutting edge - L.H. turning / R.H. tool (use STANDARD support Profile and contour turning: blades and clamps. The initial face groove must be made within the diameter range of assembly. From this first groove it is possible to turn toward larger or smaller diameters. In a blind hole: Trepanning: - R.H. turning / R.H. tool When trepanning it is recommendable to stop cutting just before the tool - L.H. turning / L.H. tool penetrates through, then the slug can be knocked out with a hammer. (use CONTRA support blades and clamps). Note. Outer Ø of groove When ordering support blades and clamps for face grooving, always consider: - turning direction (R.H. or L.H.), - toolholder execution (R.H. or L.H.), - width of groove (CW), - outer diameter of groove. C. = CONTRA FACE GROOVING C. = CONTRA FACE GROOVING **LEFT RIGHT** RIGHT **LEFT RIGHT** LEFT **HAND HAND HAND HAND HAND HAND** HOLDER HOLDER HOLDER **HOLDER TURNING TURNING** 90° CRANKED 90° CRANKED RIGHT HAND LEFT HAND HOLDER HOLDER

For current stock availability, refer to our latest price list



Manufacturers of Precision Ground Cutting Tools



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