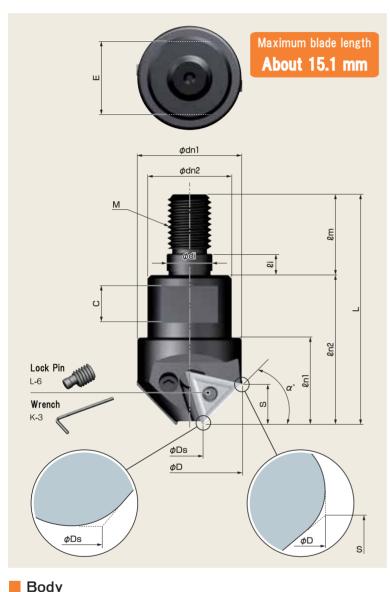
Chamfering Series

Chamfering Cutter

Applications use		Capacity											
Applications use	NK1536T-MD	NK2035T-MD	NK2535T-MD	NK3030T-MD	NK3532T-MD	NK4031T-MD	NK4530T-MD	NK5031T-MD	NK5532T-MD	NK6030T-MD	NK6533T-MD	NK7032T-MD	NK7533T-MD
α°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°
Bore chamfering	ϕ 8 \sim 36mm	$\phi 8{\sim}36$ mm	$\phi 8{\sim}35$ mm	φ8∼33mm	φ8~32mm	φ8∼31mm	ϕ 8 \sim 29mm	¢12∼31mm	φ15~32mm	ϕ 15 \sim 30mm	φ20~33mm	φ22~32mm	φ25~33mm





※ Please use Arbors to size and application, at local market

Body	
	_

								Dimens	ions(mm)							
Model. No.	Blades	φD	<i>ф</i> Ds	ødn1	ødn2	¢di	м	L	ln1	ln2	٤m	li	S	С	Е	α°
NK1536T-MD	2	37.9	8	37.8	23	12.5	M12	63	24	41	22	5.5	4.0	10	17	15°
NK2035T-MD	2	37.1	8	36.8	23	12.5	M12	63	24	41	22	5.5	5.3	10	17	20°
NK2535T-MD	2	36.0	8	35.6	23	12.5	M12	63	24	41	22	5.5	6.5	10	17	25°
NK3030T-MD	2	34.8	8	34.1	23	12.5	M12	63	24	41	22	5.5	7.7	10	17	30°
NK3532T-MD	2	33.3	8	32.5	23	12.5	M12	63	24	41	22	5.5	8.9	10	17	35°
NK4031T-MD	2	31.7	8	30.6	23	12.5	M12	63	24	41	22	5.5	9.9	10	17	40°
NK4530T-MD	2	29.9	8	28.5	23	12.5	M12	63	24	41	22	5.5	10.9	10	17	45°
NK5031T-MD	2	31.9	12	30.6	23	12.5	M12	63	24	41	22	5.5	11.8	10	17	50°
NK5532T-MD	2	32.7	15	31.4	23	12.5	M12	63	24	41	22	5.5	12.7	10	17	55°
NK6030T-MD	2	30.5	15	28.9	23	12.5	M12	63	24	41	22	5.5	13.4	10	17	60°
NK6533T-MD	2	33.1	20	31.7	23	12.5	M12	63	24	41	22	5.5	14.0	10	17	65°
NK7032T-MD	2	32.6	22	31.2	23	12.5	M12	63	24	41	22	5.5	14.5	10	17	70°
NK7533T-MD	2	33.0	25	31.6	23	12.5	M12	63	24	41	22	5.5	15.0	10	17	75°

 $\ensuremath{\ll}$ Inset is not equipped as standard accessory. Please purchase it separately.

℁ Lock Pin is supplied as standard accessory



When mounting insert, please do not take reverse tightening. Due to the eccentricity looking mechanism ,poor accuracy or breakage of insert may be occurred When replacing insert, please confirm twhether you have been taking reserve tightening or not.



2Blade



Cutting Conditions

	T32MOR												
		Material Model	NK2001	NK1010	NK2020	NK3030	AC16N						
	Material	Feed PerBlade (fz)		Cutting speed (m / min)									
	General Steel	0.08~0.2	200~250		150~200	150~200	100~200						
	Alloy Steel	0.08~0.2	200~250		150~200	150~200	100~200						
	Stainless Steel	0.08~0.2			100~150	100~150	100~200						
Alu	ıminum,Resin,Brass												
	Castings	0.08~0.2	200~250 ※FCD	100~150									

\smile		TNEA160304
	TT32GUF	۱F
	Material Model	TC16N
Material	Feed per blade (fz)	Cutting speed (m / min)
heat resistant alloy (Inconel)	0.02~0.05	150~200
titanium alloy	0.02~0.05	150~200
	TNEA1603	804
	Material Model	TC16N
Material	Feed per blade (fz)	Cutting speed (m / min)
Hardened alloy steel SKD/HSS (HRC50~65)	0.08~0.2	150~200

	TT32GUR											
	Material Model	NK2001	NK1010	NK2020	NK3030	NK5050	NK8080	AC15N	HSS	HSS TIN		
Material	Feed PerBlade (fz)		Cutting speed (m / min)									
General Steel	0.08~0.2	200~250		150~200	150~200			150~200	13~23	15~25		
Alloy Steel	0.08~0.2	200~250		150~200	150~200			150~200	10~20	13~22		
Stainless Steel	0.08~0.2			120~180	150~200	120~180	150~200 **SUS316	150~200	10~15	11~17		
Aluminum,Resin,Brass	0.08~0.3		250~800			250~800	300~1,000		31~40	31~47		
Castings	0.08~0.3	200~250 ※FCD										

According to the shape of work, large or small chamfering, amount and position of blade, the cutting condition will have to be adjusted.

In case of process with large amount chamfer, please take reducing cutting condition You have been to the workpiece by recommended Inset. In case of chamfering process of stainless steel, please take the down cutting

Insert

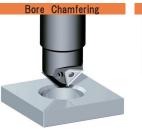
Figure	Model.No.	Material	Blade Shape	Coating	Usable corner	Quantity per box
60°	T32MOR NK2001	Cermet	Honing edge	None	6	12
	T32MOR NK1010	Carbide K10	Sharp edge	None	6	12
R0.4	T32MOR NK2020	Carbide M20	Honing edge	None	6	12
Le contra la con	T32MOR NK3030	Carbide M20	Honing edge	TiN	6	12
φ9.525 3.18	T32MOR AC16N	Fine particles Carbide	Honing edge	AICrN	6	12
	TT32GUR NK2001	Cermet	Honing edge	None	2	12
(TT32GUR) (TT32GURF)	TT32GUR NK1010	Carbide K10	Sharp edge	None	2	12
60°	TT32GUR NK2020	Carbide M20	Honing edge	None	2	12
	TT32GUR NK3030	Carbide M20	Honing edge	TiN	2	12
	TT32GUR NK5050	Carbide K10	Sharp edge	TiN	2	12
R0.4	TT32GUR NK8080	Carbide K10	Sharp edge	TiAℓN	2	12
	TT32GUR AC15N	Fine particles Carbide	Honing edge	AICrN	2	12
	TT32GURF TC16N	Fine particles Carbide	Sharp edge	TiSiN	2	12
φ9.525 3.18	TT32GUR HSS	HSS	Sharp edge	None	2	12
	TT32GUR HSS TIN	HSS	Sharp edge	TiN	2	12
G0° (TNEA160304) R0.4 09.525 0.18 00° 00° 00° 00° 00° 00° 00° 00	TNEA160304 TC16N	Fine particles Carbide	Honing edge	TiSiN	6	12

Chamfering Series Chamfering Cutter

Applications use													
Applications use	NK1536T	NK2035T	NK2535T	NK3030T	NK3532T	NK4031T	NK4530T	NK5031T	NK5532T	NK6030T	NK6533T	NK7032T	NK7533T
α°	15°	20°	25 [°]	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°
Bore chamfering	ϕ 8 \sim 36mm	ϕ 8 \sim 36mm	$\phi 8{\sim}35$ mm	ϕ 8 \sim 33mm	$\phi 8{\sim}32$ mm	ϕ 8 \sim 31mm	$\phi 8{\sim}29$ mm	ϕ 12 \sim 31mm	ϕ 15 \sim 32mm	$\phi 15{\sim}30$ mm	ϕ 20 \sim 33mm	ϕ 22 \sim 32mm	$\phi 25{\sim}33$ mm

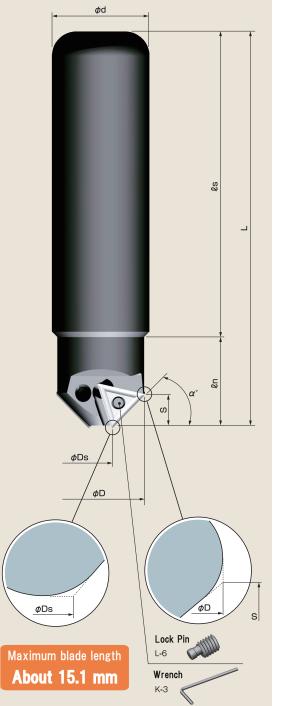
Wide variety!

- Angle 15 ° ~ 75 ° (by5° increments) can be chosen according your application
- Insert available are rich and will meet with various applicationsyou may need







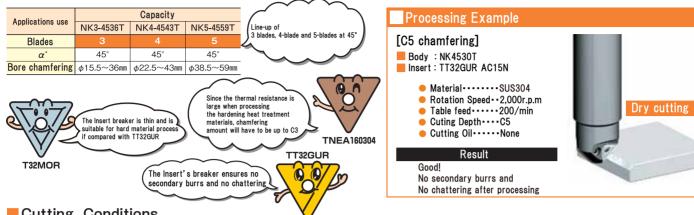


Body									
			C	Dimensio	ns(mm)				
Model. No.	Blades	φD	Minimum cutting diameter ØDs	φd	L	ls	٤n	S	α°
NK1536T-20	2	37.9	8	20	130	100	30	4.0	15°
NK1536T-25	2	37.9	8	25	130	100	30	4.0	15°
NK1536T	2	37.9	8	32	130	100	30	4.0	15°
NK1536TL	2	37.9	8	32	170	140	30	4.0	15°
NK2035T-20	2	37.1	8	20	130	100	30	5.3	20°
NK2035T-25 NK2035T	2	37.1	8	25 32	130	100	30	5.3	20° 20°
NK2035TL	2	37.1 37.1	8	32	130 170	100 140	30 30	5.3 5.3	20°
NK2535T-20	2	36.0	8	20	130	140	30	6.5	20 25°
NK2535T-25	2	36.0	8	25	130	100	30	6.5	25°
NK2535T	2	36.0	8	32	130	100	30	6.5	25°
NK2535TL	2	36.0	8	32	170	140	30	6.5	25°
NK3030T-20	2	34.8	8	20	130	100	30	7.7	30°
NK3030T-25	2	34.8	8	25	130	100	30	7.7	30°
NK3030T	2	34.8	8	32	130	100	30	7.7	30°
NK3030TL	2	34.8	8	32	170	140	30	7.7	30°
NK3532T-20	2	33.3	8	20	130	100	30	8.9	35°
NK3532T-25	2	33.3	8	25	130	100	30	8.9	35°
NK3532T	2	33.3	8	32	130	100	30	8.9	35°
NK3532TL	2	33.3	8	32	170	140	30	8.9	35°
NK4031T-20	2	31.7	8	20	130	100	30	9.9	40°
NK4031T-25	2	31.7	8	25	130	100	30	9.9	40°
NK4031T	2	31.7	8	32	130	100	30	9.9	40°
NK4031TL	2	31.7	8	32	170	140	30	9.9	40°
NK4530T-20	2	29.9	8	20	130	100	30	10.9	45°
NK4530T-25	2	29.9	8	25	130	100	30	10.9	45°
NK4530T	2	29.9	8	32	130	100	30	10.9	45°
NK4530TL	2	29.9	8	32	170	140	30	10.9	45°
NEW NK3-4536T	3	36.9	15	32	130	100	30	10.9	45°
NEW NK4-4543T	4	43.9	22	32	130	100	30	10.9	45°
NK5-4559T	5	59.9	38	32 20	130 130	100	30 30	10.9 11.8	45° 50°
NK5031T-20 NK5031T-25	2	31.9 31.9	12	20	130	100	30	11.8	50°
NK5031T-25	2	31.9	12	32	130	100	30	11.8	50°
NK5031TL	2	31.9	12	32	170	140	30	11.8	 50°
NK5532T-20	2	32.7	15	20	130	100	30	12.7	55°
NK5532T-25	2	32.7	15	25	130	100	30	12.7	55°
NK5532T-25	2	32.7	15	32	130	100	30	12.7	55°
NK5532TL	2	32.7	15	32	170	140	30	12.7	55°
NK6030T-20	2	30.5	15	20	130	100	30	13.4	60°
NK6030T-25	2	30.5	15	25	130	100	30	13.4	60°
NK6030T	2	30.5	15	32	130	100	30	13.4	60°
NK6030TL	2	30.5	15	32	170	140	30	13.4	60°
NK6533T-20	2	33.1	20	20	130	100	30	14.0	65°
NK6533T-25	2	33.1	20	25	130	100	30	14.0	65°
NK6533T	2	33.1	20	32	130	100	30	14.0	65°
NK6533TL	2	33.1	20	32	170	140	30	14.0	65°
NK7032T-20	2	32.6	22	20	130	100	30	14.5	70°
NK7032T-25	2	32.6	22	25	130	100	30	14.5	70°
NK7032T	2	32.6	22	32	130	100	30	14.5	70°
NK7032TL	2	32.6	22	32	170	140	30	14.5	70°
NK7533T-20	2	33.0	25	20	130	100	30	15.0	75°
NK7533T-25	2	33.0	25	25	130	100	30	15.0	75°
NK7533T	2	33.0	25	32	130	100	30	15.0	75°
NK7533TL Winset is not in	2	33.0	25 Order Spearately	32	170	140	30	15.0	75°

% Inset is not Included. Please Order Spearately.
% Lock pin Wrench we have Standard Equipment.



When mounting insert, please do not take reverse tightening. Due to the eccentricity looking mechanism ,poor accuracy or breakage of insert may be occurred When replacing insert, please confirm twhether you have been taking reserve tightening or not.



Cutting Conditions

	T32MOR												
	Material Model	NK2001	NK1010	NK2020	NK3030	AC16N							
Material	Feed PerBlade (fz)		Cutting speed (m / min)										
General Steel	0.08~0.2	200~250		150~200	150~200	100~200							
Alloy Steel	0.08~0.2	200~250		150~200	150~200	100~200							
Stainless Steel	0.08~0.2			100~150	100~150	100~200							
Aluminum,Resin,Brass	5												
Castings	0.08~0.2	200~250 ※FCD	100~150										

TT32GURF									
	Material Model	TC16N							
Material	Feed per blade (fz)	Cutting speed (m / min)							
heat resistant alloy (Inconel)	0.02~0.05	150~200							
titanium alloy	0.02~0.05	150~200							
	TNEA1603	104							
	Material Model	TC16N							
Material	Feed per blade (fz)	Cutting speed (m / min)							
Hardened alloy steel SKD/HSS (HRC50~65)	0.08~0.2	150~200							

	TT32GUR												
	Material Model	NK2001	NK1010	NK2020	NK3030	NK5050	NK8080	AC15N	HSS	HSS TIN			
Material	Feed PerBlade (fz)		Cutting speed (m / min)										
General Steel	0.08~0.2	200~250		150~200	150~200			150~200	13~23	15~25			
Alloy Steel	0.08~0.2	200~250		150~200	150~200			150~200	10~20	13~22			
Stainless Steel	0.08~0.2			120~180	150~200	120~180	150~200 *SUS316	150~200	10~15	11~17			
Aluminum,Resin,Bras	s 0.08~0.3		250~800			250~800	300~1,000		31~40	31~47			
Castings	0.08~0.3	200~250 ※FCD											

According to the shape of work, large or small chamfering, amount and position of blade, the cutting condition will have to be adjusted.
In case of process with large amount chamfer, please take reducing cutting condition

You have been to the workpiece by recommended inset.
In case of chamfering process of stainless steel,please take the down cutting

Insert

moort						
Figure	Model.No.	Material	Blade Shape	Coating	Usable corner	Quantity per box
CONTROL CONTRO	T32MOR NK2001	Cermet	Honing edge	None	6	12
	T32MOR NK1010	Carbide K10	Sharp edge	None	6	12
	T32MOR NK2020	Carbide M20	Honing edge	None	6	12
	T32MOR NK3030	Carbide M20	Honing edge	TiN	6	12
φ9.525 3.18	T32MOR AC16N	Fine particles Carbide	Honing edge	AlCrN	6	12
<tt32gur><tt32gurf> 60° B0.4 B0.4 C(b) C(b) B0.4 C(b) C(b) C(b) C(b) C(b) C(b) C(b) C(b)</tt32gurf></tt32gur>	TT32GUR NK2001	Cermet	Honing edge	None	2	12
	TT32GUR NK1010	Carbide K10	Sharp edge	None	2	12
	TT32GUR NK2020	Carbide M20	Honing edge	None	2	12
	TT32GUR NK3030	Carbide M20	Honing edge	TiN	2	12
	TT32GUR NK5050	Carbide K10	Sharp edge	TiN	2	12
	TT32GUR NK8080	Carbide K10	Sharp edge	TiAℓN	2	12
	TT32GUR AC15N	Fine particles Carbide	Honing edge	AlCrN	2	12
	TT32GURF TC16N	Fine particles Carbide	Sharp edge	TiSiN	2	12
φ9.525 3.18	TT32GUR HSS	HSS	Sharp edge	None	2	12
	TT32GUR HSS TIN	HSS	Sharp edge	TiN	2	12
(TNEA160304) H0.4 (9,525 (1,1) (1	TNEA160304 TC16N	Fine particles Carbide	Honing edge	TiSiN	6	12