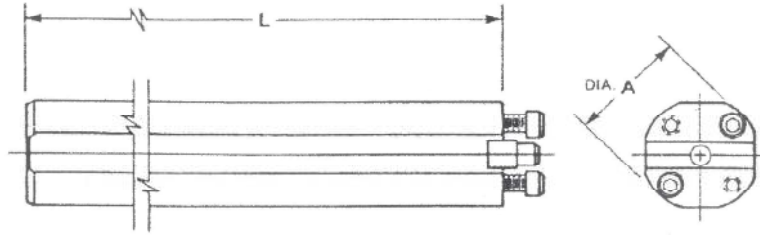




**"TECH" INTERCHANGABLE HEAD BARS**

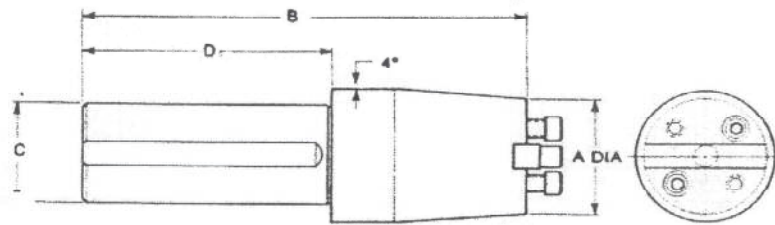


BARS WILL ACCEPT RIGHT OR LEFT HAND HEADS.

Description	Specifications		Spare Parts		
	A	B	Screws	Key	Dowel
TECH-RHB-16	1	10	8-32 X 1/2	K-16	3/16 Dia. X 3/4
TECH-RHB-20	1-1/4	12	10-24 X 3/4	K-20	1/4 Dia. X 1
TECH-RHB-24	1-1/2	13	10-32 X 3/4	K-24	5/16 Dia. X 1
TECH-RHB-28	1-3/4	13	1/4-20 X 1	K-28	5/16 Dia. X 1
TECH-RHB-32	2	15	1/4-20 X 1	K-32	5/16 Dia. X 1
TECH-RHB-36	2-1/4	15	5/16-18 X 1	K-36	5/16 Dia. X 1
TECH-RHB-40	2-1/2	16	5/16-18 X 1	K-40	5/16 Dia. X 1

Bars also available in heavy metal or shot filled for special applications. Note: For coolant provision, add "C" to bar number (Eg. TECH-RHB-16C)

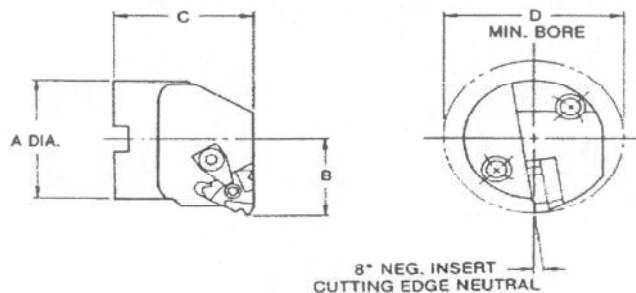
**"TECH" TAPERED INTERCHANGABLE HEAD BARS**



Description	Specifications				Spare Parts		
	A	B	C	D	Screws	Key	Dowel
TECH-RHBT-28-24	1-3/4	7-3/4	1-1/2	3-1/2	1/4-20 X 1	K-28	5/16 Dia. X 1"len.
TECH-RHBT-28-32	1-3/4	12	2	-	1/4-20 X 1	K-28	5/16 Dia. X 1"len.
TECH-RHBT-28-40	2	13	2-1/2	-	1/4-20 X 1	K-32	5/16 Dia. X 1"len.

Note: Coolant provision add "C" to bar number (Eg. TECH-RHBT-28-24). These bars are designed specifically for tapered laydown threading heads. However, standrd heads with "T" same "A" dimension can be used. Bars also available in heavy metal or shot filled for special application.

**"TECH" INTERCHANGABLE HEAD-TYPE H**



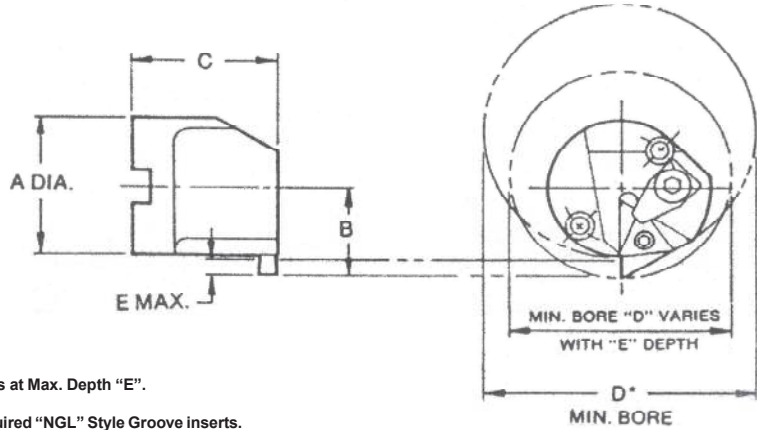
RIGHT HAND SHOWN

Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Shim	Clamp	Clamp Screw
TTHLR-20-4	TTHLL-20-4	1/2 X 3/16	1-1/4	0.875	1-5/8	1-5/8	NL-44	-	C1	10-32 X 5/8
TTHLR-24-4	TTHLL-24-4	1/2 X 3/16	1-1/2	1	1-3/4	1-7/8	NL-46	APIS-4N	C1	10-32 X 5/8
TTHLR-28-4	TTHLL-28-4	1/2 X 3/16	1-3/4	1.125	2	2-1/8	NL-46	APIS-4N	C1	10-32 X 5/8
TTHLR-32-4	TTHLL-32-4	1/2 X 3/16	2	1.125	2	2-3/8	NL-46	APIS-4N	C1	10-32 X 5/8
TTHLR-36-4	TTHLL-36-4	1/2 X 3/16	2-1/4	1.375	2	2-5/8	NL-46	APIS-4N	C1	10-32 X 5/8
TTHLR-40-4	TTHLL-40-4	1/2 X 3/16	2-1/2	1.5	2	2-7/8	NL-46	APIS-4N	C1	10-32 X 5/8

These items available on request & subject to quote. Note: Coolant provision add "C" to head number (Eg. TTHLR-28-4C). Left hand heads require external inserts.



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-H  
(TRIANGLE)**



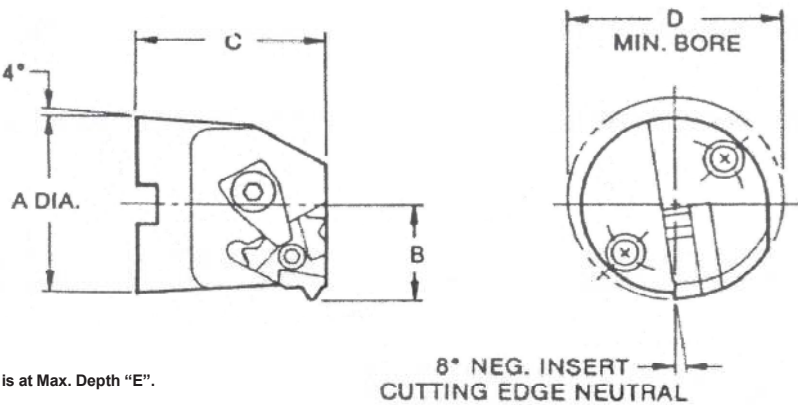
Min Bore "D" is at Max. Depth "E".  
Note:  
R/H heads required "NGL" Style Groove inserts.  
L/H heads required "NGR" Style Groove inserts.

Description		Inserts Size I.C X Thk	Specifications					Spare Parts		
Right Hand	Left Hand		A	B	C	D	E	Lock Pin	Clamp	Clamp Screw
TTHOR-20-3	TTHOL-20-3	3/8 X 1/8	1-1/4	0.775	1-1/2	1-7/8	0.100	NL-33	C-1	10-32 X 5/8
TTHOR-20-4	TTHOL-20-4	1/2 X 3/16	1-1/4	0.800	1-1/2	2-1/2	0.156	NL-44	C-2	1/4-28 X 3/4
TTHOR-24-3	TTHOL-24-3	3/8 X 1/8	1-1/2	0.906	1-1/2	1-15/16	0.100	NL-33	C-1	10-32 X 5/8
TTHOR-24-4	TTHOL-24-4	1/2 X 3/16	1-1/2	0.980	1-1/2	2-3/4	0.156	NL-44	C-2	1/4-28/ X 3/4
TTHOR-24-5	TTHOL-24-5	5/8 X 1/4	1-1/2	1.032	1-1/2	3/4	0.187	NL-56	C-2	1/4-28/ X 3/4
TTHOR-24-55	TTHOL-24-55	5/8 X 5/16	1-1/2	1.032	1-1/2	3-1/4	0.187	NL-56	C-2	1/4-28/ X 3/4
TTHOR-28-4	TTHOL-28-4	1/2 X 3/16	1-3/4	1.100	1-3/4	2-13/16	0.156	NL-44	C-2	1/4-28/ X 3/4
TTHOR-28-5	TTHOL-28-5	5/8 X 1/4	1-3/4	1.156	1-3/4	3-3/8	0.190	NL-56	C-2	1/4-28/ X 3/4
TTHOR-28-55	TTHOL-28-55	5/8 X 5/16	1-3/4	1.156	1-3/4	3-3/8	0.190	NL-56	C-2	1/4-28/ X 3/4
TTHOR-32-4	TTHOL-32-4	1/2 X 3/16	2	1.225	2	2-7/8	0.156	NL-44	C-2	1/4-28/ X 3/4
TTHOR-32-5	TTHOL-32-5	5/8 X 1/4	2	1.281	2	3-1/2	0.190	NL-56	C-2	1/4-28/ X 3/4
TTHOR-32-55	TTHOL-32-55	5/8 X 5/16	2	1.281	2	3-1/2	0.190	NL-56	C-2	1/4-28/ X 3/4
TTHOR-32-66	TTHOL-32-66	3/4 X 3/8	2	1.350	2	3-9/16	0.218	NL-66L	C-3	5/16-24 X 3/4
TTHOR-36-4	TTHOL-36-4	1/2 X 3/16	2-1/4	1.350	2	2-15/16	0.156	NL-44	C-2	1/4-28/ X 3/4
TTHOR-36-5	TTHOL-36-5	5/8 X 1/4	2-1/4	1.406	2	3-5/8	0.195	NL-56	C-2	1/4-28/ X 3/4
TTHOR-36-55	TTHOL-36-55	5/8 X 5/16	2-1/4	1.406	2	3-5/8	0.195	NL-56	C-2	1/4-28/ X 3/4
TTHOR-36-66	TTHOL-36-66	3/4 X 3/8	2-1/4	1.475	2	4	0.234	NL-66L	C-3	5/16-24 X 3/4
TTHOR-40-4	TTHOL-40-4	1/2 X 3/16	2-1/2	1.480	2	3	0.156	NL-44	C-2	1/4-28/ X 3/4
TTHOR-40-5	TTHOL-40-5	5/8 X 1/4	2-1/2	1.540	2	3-1/2	0.200	NL-56	C-2	1/4-28/ X 3/4
TTHOR-40-55	TTHOL-40-55	5/8 X 5/16	2-1/2	1.540	2	3-1/2	0.200	NL-56	C-2	1/4-28/ X 3/4
TTHOR-40-66	TTHOL-40-66	3/4 X 3/8	2-1/2	1.600	2	4-5/8	0.250	NL-66L	C-3	5/16-24 X 3/4

RH Shown

Note: For Coolant provision add "C" to head number (Eg. TTHOR-20-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-H  
(LAYDOWN TRIANGLE)**



Min Bore "D" is at Max. Depth "E".  
Note:  
R/H heads required "NGL" Style Groove inserts.  
L/H heads required "NGR" Style Groove inserts.

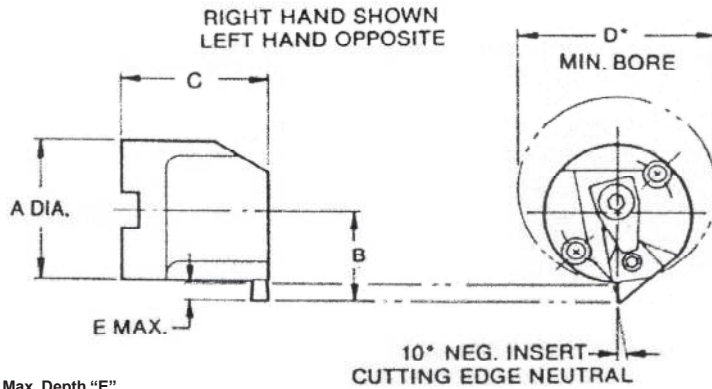
Description		Inserts Size I.C X Thk	Specifications				Spare Parts		
Right Hand	Left Hand		A	B	C	D	Lock Pin	Clamp	Clamp Screw
TTHLR-28-5	TTHLL-28-5	5/8 X 1/4	1-3/4	0.937	1-3/4	1-13/16	NL-56	C-2	1/4-28 X 3/4
TTHLR-32-5	TTHLL-32-5	5/8 X 1/4	2	1.031	2	2-1/8	NL-56	C-2	1/4-28 X 3/4
TTHLR-40-5	TTHLL-40-5	5/8 X 1/4	2-1/2	1.281	2	2-5/8	NL-56	C-2	1/4-28 X 3/4

RH Shown

Note: For Coolant provision add "C" to head number (Eg. TTHLR-28-5C). These items available on request and subject to quote.



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-H  
(TRIANGLE)  
10 DEGREE POSITIVE**



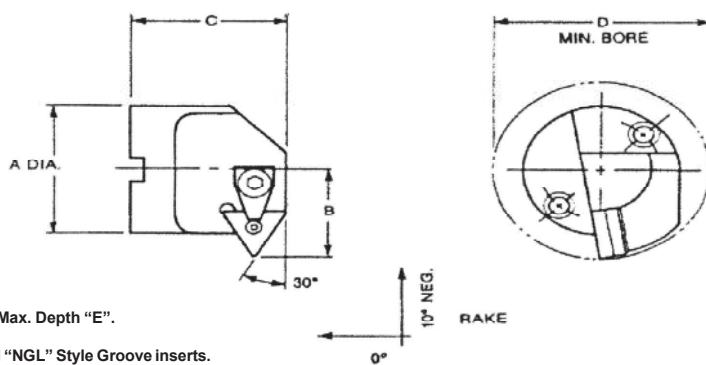
Min Bore "D" is at Max. Depth "E".  
Note:  
R/H heads required "NGL" Style Groove inserts.  
L/H heads required "NGR" Style Groove inserts.

Description		Inserts Size I.C X Thk	Specifications					Spare Parts		
Right Hand	Left Hand		A	B	C	D	E	Lock Pin	Clamp	Clamp Screw
TTHPR-20-3	TTHPL-20-3	3/8 X 1/8	1-1/4	0.775	1-1/2	1-9/16	0.100	NL-33	C-1	10-32 X 5/8
TTHPR-20-4	TTHPL-20-4	1/2 X 3/16	1-1/4	0.800	1-1/2	1-5/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-24-3	TTHPL-24-3	3/8 X 1/8	1-1/2	0.906	1-1/2	1-13/16	0.100	NL-33	C-1	10-32 X 5/8
TTHPR-24-4	TTHPL-24-4	1/2 X 3/16	1-1/2	0.980	1-1/2	1-7/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-24-5	TTHPL-24-5	5/8 X 1/4	1-1/2	1.032	1-1/2	2	0.187	NL-56	C-2	1/4-28 X 3/4
TTHPR-24-55	TTHPL-24-55	5/8 X 5/16	1-1/2	1.032	1-1/2	2	0.187	NL-56	C-2	1/4-28 X 3/4
TTHPR-28-4	TTHPL-28-4	1/2 X 3/16	1-3/4	1.100	1-3/4	2-1/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-28-5	TTHPL-28-5	5/8 X 1/4	1-3/4	1.156	1-3/4	2-1/4	0.190	NL-56	C-2	1/4-28 X 3/4
TTHPR-28-55	TTHPL-28-55	5/8 X 5/16	1-3/4	1.156	1-3/4	2-1/4	0.190	NL-56	C-2	1/4-28 X 3/4
TTHPR-32-4	TTHPL-32-4	1/2 X 3/16	2	1.225	2	2-3/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-32-5	TTHPL-32-5	5/8 X 1/4	2	1.281	2	2-1/2	0.190	NL-56	C-2	1/4-28 X 3/4
TTHPR-32-55	TTHPL-32-55	5/8 X 5/16	2	1.281	2	2-1/2	0.190	NL-56	C-2	1/4-28 X 3/4
TTHPR-32-66	TTHPL-32-66	3/4 X 3/8	2	1.350	2	2-5/8	0.218	NL-66L	C-3	5/16-24 X 3/4
TTHPR-36-4	TTHPL-36-4	1/2 X 3/16	2-1/4	1.350	2	2-5/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-36-5	TTHPL-36-5	5/8 X 1/4	2-1/4	1.406	2	2-3/4	0.195	NL-56	C-2	1/4-28 X 3/4
TTHPR-36-55	TTHPL-36-55	5/8 X 5/16	2-1/4	1.406	2	2-3/4	0.195	NL-56	C-2	1/4-28 X 3/4
TTHPR-36-66	TTHPL-36-66	3/4 X 3/8	2-1/4	1.480	2	2-7/8	0.234	NL-66L	C-3	5/16-24 X 3/4
TTHPR-40-4	TTHPL-40-4	1/2 X 3/16	2-1/2	1.480	2	2-7/8	0.156	NL-44	C-2	1/4-28 X 3/4
TTHPR-40-5	TTHPL-40-5	5/8 X 1/4	2-1/2	1.540	2	3	0.200	NL-56	C-2	1/4-28 X 3/4
TTHPR-40-55	TTHPL-40-55	5/8 X 5/16	2-1/2	1.540	2	3	0.200	NL-56	C-2	1/4-28 X 3/4
TTHPR-40-66	TTHPL-40-66	3/4 X 3/8	2-1/2	1.600	2	2-1/8	0.250	NL-66L	C-3	5/16-24 X 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTHPR-20-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-E  
(TRIANGLE)**



Min Bore "D" is at Max. Depth "E".  
Note:  
R/H heads required "NGL" Style Groove inserts.  
L/H heads required "NGR" Style Groove inserts.

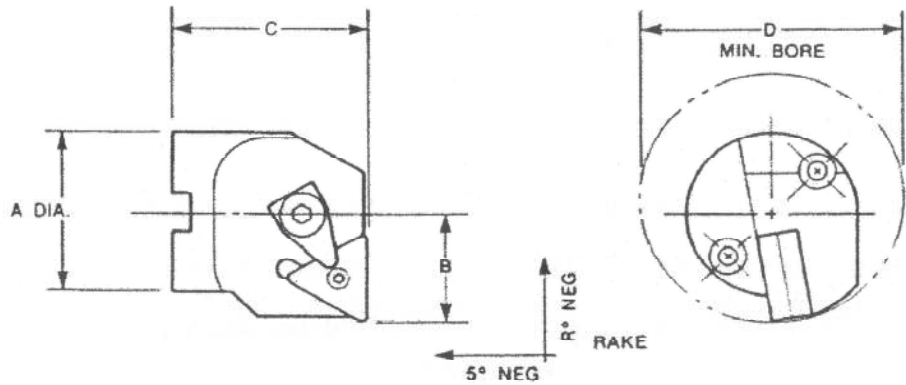
Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TTENR-16-3	TTENL-16-3	3/8 X 3/16	1	0.750	1-3/8	1-1/2	NL-33L	-	C-1	10-32 X 5/8
TTENR-20-3	TTENL-20-3	3/8 X 3/16	1-1/4	0.875	1-5/8	1-3/4	NL-34L	ITSN-323	C-1	10-32 X 5/8
TTENR-24-4	TTENL-24-4	1/2 X 3/16	1-1/2	1.125	1-3/4	2-1/4	NL-46	ITSN-433	C-2	1/4-28 X 3/4
TTENR-28-4	TTENL-28-4	1/8 X 3/16	1-3/4	1.250	2	2-1/2	NL-46	ITSN-433	C-2	1/4-28 X 3/4
TTENR-32-4	TTENL-32-4	1/8 X 3/16	2	1.375	2	2-3/4	NL-46	ITSN-433	C-2	1/4-28 X 3/4
TTENR-36-5	TTENL-36-5	5/8 X 1/4	2-1/4	1.625	2	3-1/4	NL-58	ITSN-533	C-2	1/4-28 X 3/4
TTENR-40-5	TTENL-40-5	5/8 X 1/4	2-1/2	1.750	2	3-1/2	NL-58	ITSN-533	C-2	1/4-28 X 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTENR-16-3C).



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-F  
(TRIANGLE)**

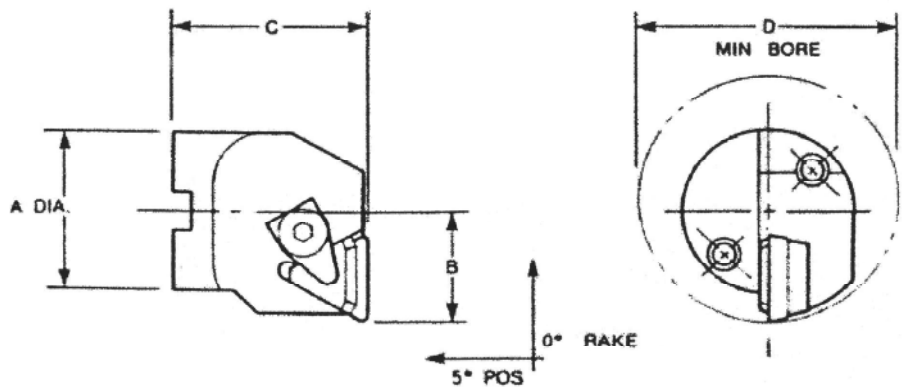


Description		Inserts Size I.C X Thk	Specifications					Spare Parts			
Right Hand	Left Hand		A	B	C	D	R	Lock Pin	Seat	Clamp	Clamp Screw
TTFNR-16-3	TTFNL-16-3	3/8 X 3/16	1	0.640	1-3/8	1-9/32	12	NL-33L	-	C-1	10-32 X 5/8
TTFNR-20-3	TTFNL-20-3	3/8 X 3/16	1-1/4	0.765	1-5/8	1-17/32	12	NL-34L	ITSN-323	C-1	10-32 X 5/8
TTFNR-24-4	TTFNL-24-4	1/2 x 3/16	1-1/2	1.031	1-3/4	2-1/16	10	NL-46	ITSN-433	C-2	1/4-28 x 3/4
TTFNR-28-4	TTFNL-28-4	1/2 x 3/16	1-3/4	1.156	2	2-5/16	8	NL-46	ITSN-433	C-2	1/4-28 x 3/4
TTFNR-32-4	TTFNL-32-4	1/2 x 3/16	2	1.281	2	2-9/16	8	NL-46	ITSN-433	C-2	1/4-28 x 3/4
TTFNR-36-4	TTFNL-36-4	1/2 x 3/16	2-1/4	1.406	2	2-13/16	8	NL-46	ITSN-433	C-2	1/4-28 x 3/4
TTFNR-40-4	TTFNL-40-4	1/2 x 3/16	2-1/2	1.531	2	3-1/16	8	NL-46	ITSN-433	C-2	1/4-28 x 3/4
TTFNR-32-5	TTFNL-32-5	5/8 x 1/4	2	1.281	2	2-9/16	8	NL-58	ITSN-533	C-2	1/4-28 x 3/4
TTFNR-36-5	TTFNL-36-5	5/8 x 1/4	2-1/4	1.406	2	2-13/16	8	NL-58	ITSN-533	C-2	1/4-28 x 3/4
TTFNR-40-5	TTFNL-40-5	5/8 x 1/4	2-1/2	1.531	2	3-1/16	8	NL-58	ITSN-533	C-2	1/4-28 x 3/4
TTFNR-40-6	TTFNL-40-6	3/4 x 3/8	2-1/2	1.531	2	3-1/16	8	NL-68L	ITSN-637	C-3	5/16-28 x 1

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTFNR-16-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-F  
(TRIANGLE)**



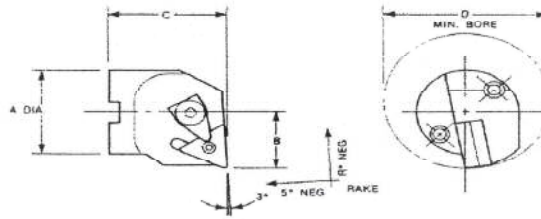
Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Seat Screw	Seat	Clamp	Clamp Screw
TTFPR-16-3	TTFPL-16-3	3/8 X 1/8	1	0.578	1-3/8	1-5/32	-	-	C-1	10-32 X 5/8
TTFPR-20-3	TTFPL-20-3	3/8 X 1/8	1-1/4	0.765	1-5/8	1-17/32	S-34	TS-321-P	C-1	10-32 X 5/8
TTFPR-24-3	TTFPL-24-3	3/8 X 1/8	1-1/2	0.890	1-3/4	1-25/32	S-34	TS-321-P	C-1	10-32 X 5/8
TTFPR-28-3	TTFPL-28-3	3/8 X 1/8	1-3/4	1.015	2	2-1/32	S-34	TS-321-P	C-1	10-32 X 5/8
TTFPR-24-4	TTFPL-24-4	1/2 X 3/16	1-1/2	1.031	1-3/4	2-1/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTFPR-28-4	TTFPL-28-4	1/2 X 3/16	1-3/4	1.156	2	2-5/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTFPR-32-4	TTFPL-32-4	1/2 X 3/16	2	1.281	2	2-9/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTFPR-36-4	TTFPL-36-4	1/2 X 3/16	2-1/4	1.406	2	2-13/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTFPR-40-4	TTFPL-40-4	1/2 X 3/16	2-1/2	1.531	2	3-1/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTFPR-32-5	TTFPL-32-5	5/8 X 1/4	2	1.281	2	2-9/16	S-58	TS-531-P	C-3	5/16-24 X 3/4
TTFPR-36-5	TTFPL-36-5	5/8 X 1/4	2-1/4	1.406	2	2-13/16	S-58	TS-531-P	C-3	5/16-24 X 3/4
TTFPR-40-5	TTFPL-40-5	5/8 X 1/4	2-1/2	1.531	2	3-1/16	S-58	TS-531-P	C-3	5/16-24 X 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTFPR-16-3C).



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-J  
(TRIANGLE)**

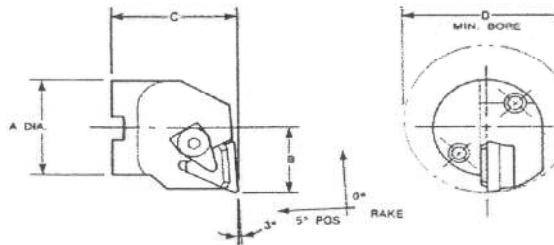


Description		Inserts Size I.C X Thk	Specifications					Spare Parts			
Right Hand	Left Hand		A	B	C	D	R	Lock Pin	Seat	Clamp	Clamp Screw
TTJNR-16-3	TTJNL-16-3		1	0.640	1-3/8	1-9/32	12	NL-33L	-	C-1	10-32 X 5/8
TTJNR-20-3	TTJNL-20-3	3/8 X 3/16	1-1/4	0.765	1-5/8	1-17/32	12	NL-34L	ITSN-323		
TTJNR-24-4	TTJNL-24-4		1-1/2	1.031	1-3/4	2-1/16	10				
TTJNR-28-4	TTJNL-28-4		1-3/4	1.156	2	2-5/16	8				
TTJNR-32-4	TTJNL-32-4		2	1.281	2	2-9/16	8	NL-46	ITSN-433		
TTJNR-36-4	TTJNL-36-4		2-1/4	1.406	2	2-13/16	8			C-2	1/4 x 3/4
TTJNR-40-4	TTJNL-40-4	1/2 x 3/16	2-1/2	1.531	2	3-1/16	8				
TTJNR-32-5	TTJNL-32-5		2	1.281	2	2-9/16	8				
TTJNR-36-5	TTJNL-36-5		2-1/4	1.406	2	2-13/16	8	NL-58	ITSN-533		
TTJNR-40-5	TTJNL-40-5	5/8 x 1/4	2-1/2	1.531	2	3-1/16	8				
TTJNR-40-6	TTJNL-40-6	3/4 x 3/8	2-1/2	1.531	2	3-1/16	8	NL-68L	TSN-637	C-3	5/16-24 x 1

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTJNR-16-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-J  
(TRIANGLE)**

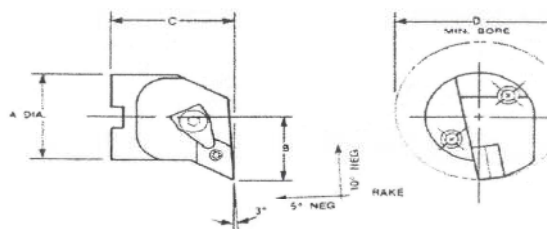


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Seat Screw	Seat	Clamp	Clamp Screw
TTJPR-16-3	TTJPL-16-3		1	0.578	1-3/8	1-5/32	-	-		
TTJPR-20-3	TTJPL-20-3		1-1/4	0.765	1-5/8	1-17/32				
TTJPR-24-3	TTJPL-24-3	3/8 X 1/8	1-1/2	0.890	1-3/4	1-25/32	S-34	TS-321-P	C-1	10-32 X 5/8
TTJPR-28-3	TTJPL-28-3		1-3/4	1.015	2	2-1/32				
TTJPR-24-4	TTJPL-24-4		1-1/2	1.031	1-3/4	2-1/16				
TTJPR-28-4	TTJPL-28-4		1-3/4	1.156	2	2-5/16				
TTJPR-32-4	TTJPL-32-4	1/2 X 3/16	2	1.281	2	2-9/16	S-46	TS-431-P	C-2	1/4-28 X 3/4
TTJPR-36-4	TTJPL-36-4		2-1/4	1.406	2	2-13/16				
TTJPR-40-4	TTJPL-40-4		2-1/2	1.531	2	3-1/16				
TTJPR-32-5	TTJPL-32-5		2	1.281	2	2-9/16				
TTJPR-36-5	TTJPL-36-5	5/8 X 1/4	2-1/4	1.406	2	2-13/16	S-58	TS-531-P	C-3	5/16-24 X 3/4
TTJPR-40-5	TTJPL-40-5		2-1/2	1.531	2	3-1/16				

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TTJPR-16-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-J  
(55 DEGREE DIAMOND)**



Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TDJNR-20-4	TDJNL-20-4		1-1/4	1.000	1-5/8	2				
TDJNR-24-4	TDJNL-24-4	1/2 X 3/16	1-1/2	1.125	1-3/4	2-1/4	NL-46	DSN-433		10-32 X 5/8
TDJNR-28-4	TDJNL-28-4		1-3/4	1.250	2	2-1/2				
TDJNR-28-5	TDJNL-28-5		1-3/4	1.375	2	2-3/4			C-2	1/4-28 X 3/4
TDJNR-32-5	TDJNL-32-5	0.625 X 1/4	2	1.500	2	3	NL-58	DSN-533-S		
TDJNR-36-5	TDJNL-36-5		2-1/4	1.625	2	3-1/4				
TDJNR-40-5	TDJNL-40-5		2-1/2	1.750	2	3-1/2				

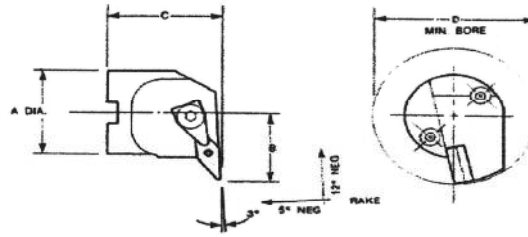
LH Shown

Note: For Coolant provision add "C" to head number (Eg. TDJNR-20-4C).





**"TECH"  
INTERCHANGABLE  
HEAD TYPE-J  
(35 DEGREE DIAMOND)**

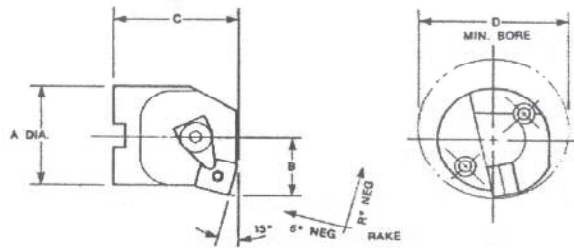


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TVJNR-20-3	TVJNL-20-3	3/8 X 3/16	1-1/4	1.125	1-5/8	2-1/4	NL-34L	IVSN-324	C-1	10-32 X 5/8
TVJNR-24-3	TVJNL-24-3	3/8 X 3/16	1-1/2	1.250	1-3/4	2-1/2	NL-34L	IVSN-324	C-2	1/4-28 X 3/4
TVJNR-28-4	TVJNL-28-4	1/2 X 3/16	1-3/4	1.500	2	3	NL-46	IVSN-433	C-2	1/4-28 X 3/4
TVJNR-32-4	TVJNL-32-4	1/2 X 3/16	2	1.625	2	3-1/4	NL-46	IVSN-433	C-2	1/4-28 X 3/4
TVJNR-36-4	TVJNL-36-4	1/2 X 3/16	2-1/4	1.750	2	3-1/2	NL-46	IVSN-433	C-2	1/4-28 X 3/4
TVJNR-40-4	TVJNL-40-4	1/2 X 3/16	2-1/2	1.875	2	3-3/4	NL-46	IVSN-433	C-2	1/4-28 X 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TVJNR-20-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-K  
(SQUARE)**

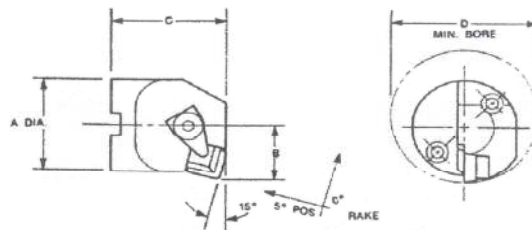


Description		Inserts Size I.C X Thk	Specifications					Spare Parts			
Right Hand	Left Hand		A	B	C	D	R	Lock Pin	Seat	Clamp	Clamp Screw
TSKNR-20-4	TSKNL-20-4	1/2 X 3/16	1-1/4	0.765	1-5/8	1-17/32	12	NL-46	ISSN-433	C-1	10-32 X 5/8
TSKNR-24-4	TSKNL-24-4	1/2 x 3/16	1-1/2	0.890	1-3/4	1-25/32	12	NL-46	ISSN-433	C-2	1/4-28 x 3/4
TSKNR-28-4	TSKNL-28-4	1/2 x 3/16	1-3/4	1.015	2	2-1/32	12	NL-46	ISSN-433	C-2	1/4-28 x 3/4
TSKNR-32-5	TSKNL-32-5	5/8 x 1/4	2	1.281	2	2-9/16	12	NL-58	SSN-533	C-2	1/4-28 x 3/4
TSKNR-36-5	TSKNL-36-5	5/8 x 1/4	2-1/4	1.406	2	2-13/16	10	NL-58	SSN-533	C-2	1/4-28 x 3/4
TSKNR-40-5	TSKNL-40-5	5/8 x 1/4	2-1/2	1.531	2	3-1/16	10	NL-58	SSN-533	C-2	1/4-28 x 3/4
TSKNR-40-6	TSKNL-40-6	3/4 x 1/4	2-1/2	1.531	2	3-1/16	10	NL-68	ISSN-634	C-2	1/4-28 x 3/4
TSKNR-40-8	TSKNL-40-8	1 X 3/8	2-1/2	1.656	2-1/4	3-5/16	10	NL-810	SSN-844	C-3	5/16-24 x 1

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TSKNR-20-4C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-K  
(SQUARE)**



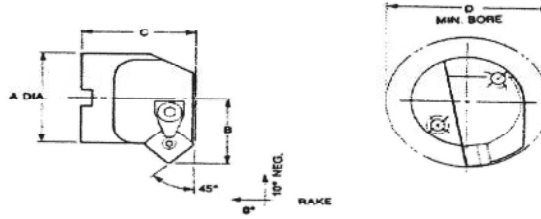
Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Seat Screw	Seat	Clamp	Clamp Screw
TSKPR-16-4	TSKPL-16-4	1/2 X 1/8	1	0.578	1-3/8	1-5/32	-	-	C-1	10-32 X 5/8
TSKPR-20-4	TSKPL-20-4	1/2 X 1/8	1-1/4	0.765	1-5/8	1-17/32	-	-	C-1	10-32 X 5/8
TSKPR-24-4	TSKPL-24-4	1/2 X 1/8	1-1/2	0.890	1-3/4	1-25/32	-	-	C-2	1/4-28 x 3/4
TSKPR-28-4	TSKPL-28-4	1/2 X 1/8	1-3/4	1.015	2	2-1/32	-	-	C-2	1/4-28 x 3/4
TSKPR-24-6	TSKPL-24-6	3/4 X 3/16	1-1/2	1.031	1-3/4	2-1/16	S-68	SS-631-P	C-3	5/16-24 x 3/4
TSKPR-28-6	TSKPL-28-6	3/4 X 3/16	1-3/4	1.156	2	2-5/16	S-68	SS-631-P	C-3	5/16-24 x 3/4
TSKPR-32-6	TSKPL-32-6	3/4 X 3/16	2	1.281	2	2-9/16	S-68	SS-631-P	C-3	5/16-24 x 3/4
TSKPR-36-6	TSKPL-36-6	3/4 X 3/16	2-1/4	1.406	2	2-13/16	S-68	SS-631-P	C-3	5/16-24 x 3/4
TSKPR-40-6	TSKPL-40-6	3/4 X 3/16	2-1/2	1.531	2	2-1/16	S-68	SS-631-P	C-3	5/16-24 x 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TSKPR-16-4C).



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-D  
(SQUARE)**

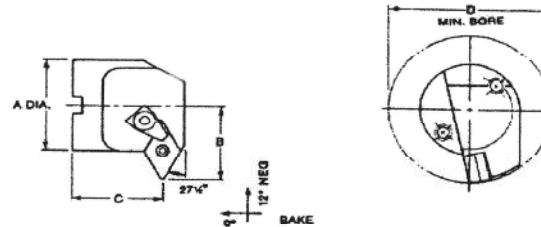


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TSDNR-16-3	TSDNL-16-3	3/8 X 3/16	1	0.750	1-3/8	1-1/2	NL-33L	-	C-1	10-32 X 5/8
TSDNR-20-4	TSDNL-20-4	1/2 X 3/16	1-1/4	0.937	1-5/8	1-7/8	NL-46	ISSN-433	C-2	1/4-28 x 3/4
TSDNR-24-4	TSDNL-24-4	1/2 X 3/16	1-1/2	1.062	1-3/4	2-1/8	NL-46	ISSN-433	C-2	1/4-28 x 3/4
TSDNR-28-5	TSDNL-28-5	5/8 X 1/4	1-3/4	1.312	2	2-5/8	NL-58	ISSN-533	C-2	1/4-28 x 3/4
TSDNR-32-5	TSDNL-32-5	5/8 X 1/4	2	1.437	2	2-7/8	NL-58	ISSN-533	C-2	1/4-28 x 3/4
TSDNR-36-6	TSDNL-36-6	3/4 X 1/4	2-1/4	1.625	2	3-1/4	NL-68	ISSN-633	C-2	1/4-28 x 3/4
TSDNR-40-6	TSDNL-40-6	3/4 X 1/4	2-1/2	1.750	2	3-1/2	NL-68	ISSN-633	C-2	1/4-28 x 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TSDNR-16-3C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-P  
(55 DEGREE DIAMOND)**

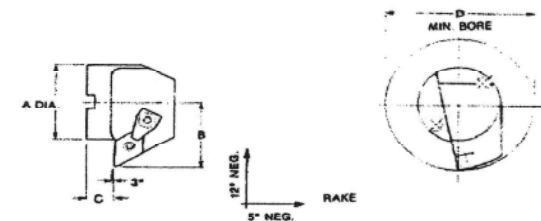


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TDPNR-20-4	TDPNL-20-4	1/2 X 3/16	1-1/4	1.125	1-3/8	2-1/4	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDPNR-24-4	TDPNL-24-4	1/2 X 3/16	1-1/2	1.250	1-1/2	2-1/2	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDPNR-28-4	TDPNL-28-4	1/2 X 3/16	1-3/4	1.375	1-3/4	2-3/4	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDPNR-32-5	TDPNL-32-5	5/8 X 1/4	2	1.625	1-3/4	3-1/4	NL-58	DSN-533	C-2	1/4-28 x 3/4
TDPNR-36-5	TDPNL-36-6	5/8 X 1/4	2-1/4	1.750	1-3/4	3-1/2	NL-58	DSN-533	C-2	1/4-28 x 3/4
TDPNR-40-5	TDPNL-40-5	5/8 X 1/4	2-1/2	1.875	1-3/4	3-3/4	NL-58	DSN-533	C-2	1/4-28 x 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TDPNR-20-4C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-R  
(55 DEGREE DIAMOND)**



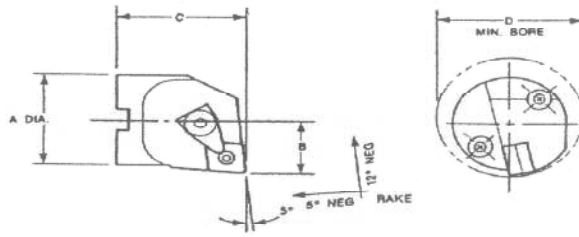
Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TDRNR-20-4	TDRNL-20-4	1/2 X 3/16	1-1/4	1-1/4	1/2	2-1/2	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDRNR-24-4	TDRNL-24-4	1/2 X 3/16	1-1/2	1-3/8	1/2	2-3/4	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDRNR-28-4	TDRNL-28-4	1/2 X 3/16	1-3/4	1-1/2	1/2	3	NL-46	DSN-433	C-2	1/4-28 x 3/4
TDRNR-32-5	TDRNL-32-5	5/8 X 1/4	2	1-3/4	5/8	3-1/2	NL-58	DSN-533-S	C-2	1/4-28 x 3/4
TDRNR-36-5	TDRNL-36-6	5/8 X 1/4	2-1/4	1-7/8	5/8	3-3/4	NL-58	DSN-533-S	C-2	1/4-28 x 3/4
TDRNR-40-5	TDRNL-40-5	5/8 X 1/4	2-1/2	2	5/8	4	NL-58	DSN-533-S	C-2	1/4-28 x 3/4

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TDRNR-20-4C).



**"TECH"  
INTERCHANGABLE  
HEAD TYPE-L  
(80 DEGREE DIAMOND)**

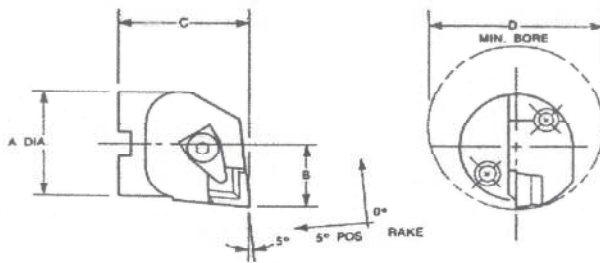


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TCLNR-20-4	TCLNL-20-4		1-1/4	0.765	1-5/8	1-17/32			C-1	10-32 X 5/8
TCLNR-24-4	TCLNL-24-4		1-1/2	0.890	1-3/4	1-25/32				
TCLNR-28-4	TCLNL-28-4	1/2 X 3/16	1-3/4	1.015	2	2-1/32	NL-46	CSN-433-S		
TCLNR-32-4	TCLNL-32-4		2	1.281	2	2-9/16				
TCLNR-36-4	TCLNL-36-4		2-1/4	1.406	2	2-13/16			C-2	1/4-28 x 3/4
TCLNR-40-4	TCLNL-40-4		2-1/2	1.531	2	3-1/16				
TCLNR-32-6	TCLNL-32-6		2	1.281	2	2-9/16				
TCLNR-36-6	TCLNL-36-6	3/4 X 1/4	2-1/4	1.406	2	2-13/16	NL-68	CSN-633		
TCLNR-40-6	TCLNL-40-6		2-1/2	1.531	2	3-1/16				

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TCLNR-20-4C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-L  
(80 DEGREE DIAMOND)**

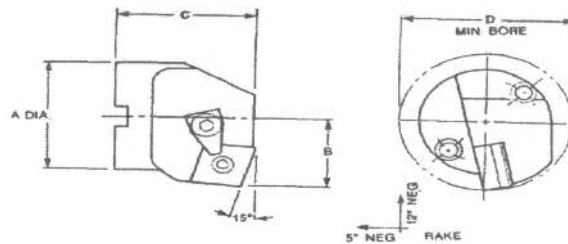


Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Seat Screw	Seat	Clamp	Clamp Screw
TCLPR-16-4	TCLPL-16-4		1	0.640	1-3/8	1-9/32	-	-	C-1	10-32 X 5/8
TCLPR-20-4	TCLPL-20-4	1/2 X 1/8	1-1/4	0.765	1-5/8	1-17/32				
TCLPR-24-4	TCLPL-24-4		1-1/2	0.890	1-3/4	1-25/32	5-40 X 3/8	CSP-432-S	C-2	1/4-28 x 3/4
TCLPR-28-4	TCLPL-28-4		1-3/4	1.015	2	2-1/32				
TCLPR-32-6	TCLPL-32-6		2	1.281	2	2-9/16				
TCLPR-36-6	TCLPL-36-6	3/4 X 3/16	2-1/4	1.406	2	2-13/16	S-68	CSP-632	C-3	5/16-24 X 3/4
TCLPR-40-6	TCLPL-40-6		2-1/2	1.531	2	3-1/16				

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TCLPR-16-4C).

**"TECH"  
INTERCHANGABLE  
HEAD TYPE-K  
(100 DEGREE DIAMOND)**



Description		Inserts Size I.C X Thk	Specifications				Spare Parts			
Right Hand	Left Hand		A	B	C	D	Lock Pin	Seat	Clamp	Clamp Screw
TCKNR-20-4	TCKNL-20-4		1-1/4	0.765	1-5/8	1-17/32			C-1	10-32 X 5/8
TCKNR-24-4	TCKNL-24-4		1-1/2	0.890	1-3/4	1-25/32				
TCKNR-28-4	TCKNL-28-4	1/2 X 3/16	1-3/4	1.015	2	2-1/32	NL-46	CSN-433-S		
TCKNR-32-4	TCKNL-32-4		2	1.281	2	2-9/16				
TCKNR-36-4	TCKNL-36-4		2-1/4	1.406	2	2-13/16			C-2	1/4-28 x 3/4
TCKNR-40-4	TCKNL-40-4		2-1/2	1.531	2	3-1/16				
TCKNR-32-6	TCKNL-32-6		2	1.281	2	2-9/16				
TCKNR-36-6	TCKNL-36-6	3/4 X 1/4	2-1/4	1.406	2	2-13/16	NL-68	CSN-633		
TCKNR-40-6	TCKNL-40-6		2-1/2	1.531	2	3-1/16				

LH Shown

Note: For Coolant provision add "C" to head number (Eg. TCKNR-20-4C).