ERICKSON HOLDERS

ERELL ASSOCIATES
WELLINGTON
12 MAY1971

FOR

Drilling . . . Boring
Milling . . . Reaming
Tapping, etc.

Patent No. 2,727,748

USED ON

Milling Machines . . . Boring Mills . . . Radials
Turret Lathes, etc.

Your Standard MMS Tapered Tools

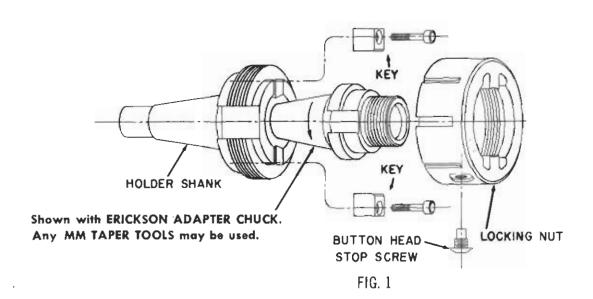
CAN BE ADAPTED TO ERICKSON QUICK CHANGE TOOL HOLDERS

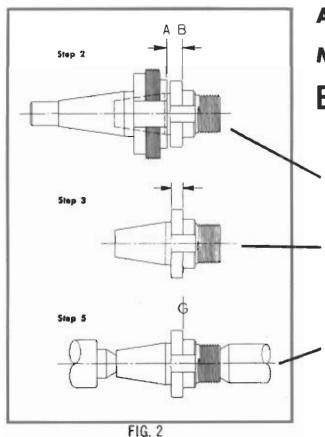
REVISED EDITION

All this ... Plus ERICKSON QUALITY

ERICKSON

ERICKSON Change TOOL HOLDERS





Note:

Your present Standard MMS Tapered Tools can be used with Erickson Quick Change Holders.

A Simple Grinding Operation Makes your Adapter suitable for ERICKSON Quick Phange HOLDER

- Step 1 Take screw out of locknut and remove locknut.
- Step 2 Remove keys, insert adapter selected and turn slightly so you can depth-mike from face of adapter to face of holder.
- Step 3 Mike thickness of flange on adapter.
- Step 4 Gage distance subtracted from DEPTH-MIKED distance gives amount to be removed from front face of adapter flange.
- Step 5 Place adapter between centers and grind face to calculated thickness.

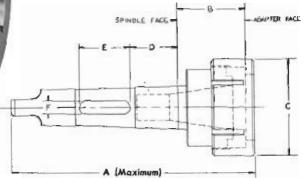
EXAMPLE: Assume depth-miked distance (as in Step 2) is .470^{nt} and thickness of flange on adapter (Step 3) is .375".

Gage distance on #30 MM socket holders is .420". This indicates .050" to be removed from face of adapter. This is arrived at by taking distance of adapter flange to face of holder (Step 2) and subtracting gage distance etched on holder (.470" minus .420" equals .050"). NOTE: Gage dimensions will be different for other MM sockets.

MORSE TAPER HOLDERS

FIG. 3

Holders can be supplied without Keeper Key Slots, with reduced overhang



FOR BORING MILLS AND RADIAL DRILLS . . Available for

spindles that have #4, #5, #6 or

#7 Morse Taper hole. Keeper slots are provided to lock adapter in spindle. Erickson Quick Change Holders are heat treated and ground for accuracy.

For Machine	Morse Taper	A	В	С	D	E	F	Socket
4 MTH-30	4	615/16	21/16	23/4	CUSTO	MER TO	SPECIFY)	30
5 MTH-30	5	83/16	21/16	23/4	tt.	И	71	30
*5 MTH-30 GL	5	83/16	21/16	23/4	11	!!	11	30
5 MTH-40	5	91/4	3	41/8	ş)	п	11	40
6 MTH-40	6	111/16	27/16	41/8	n	H	N	40
*6 MTH-40 GL	6	111/16	27/16	41/5	ti	М	11	40
7 MTH-40	7	1313/16	21/8	41/8	10.	hī .	11	40

^{*}Giddings and Lewis horizontal mills have flats provided to fit slots in end of spindle. *6 MT Holder with *30 MMT socket and *7 MT Holder with *30MM sacket may be furnished.

Also available with No. 9 B & S—used in many small Vertical Mills. Erickson Quick Change Holders may be furnished for all vertical and horizontal Milling Machines. Prices upon opplication.

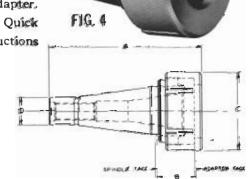
MILLING MACHINE HOLDERS

Erickson Quick Change Milling Machine Holders fit standard Milling Machine tapers in your spindle. Standard driving flange with drive slots is used. Shank is tapped for standard drawbar.

Each STANDARD Quick Change Holder takes next smaller taper tool adapter. Your present MM tapered tools may easily be mated with an Erickson Quick Change Holder. Each holder is marked with gage dimension. (See instructions page 2.)

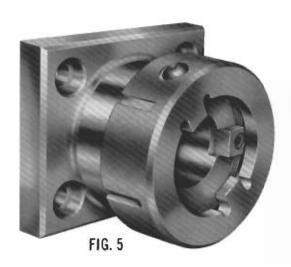
40 and 50 MMS **TAPER** HOLDERS

	A	В	£	D	Socket
40 MMH-30	55/16	1 3/8	23/4	.987	30
50 MMH-40	7	1 5/8	41/8	1.548	40

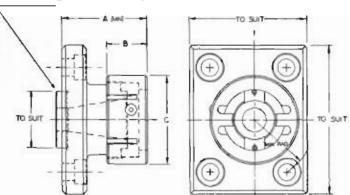




TURRET LATHE HOLDERS



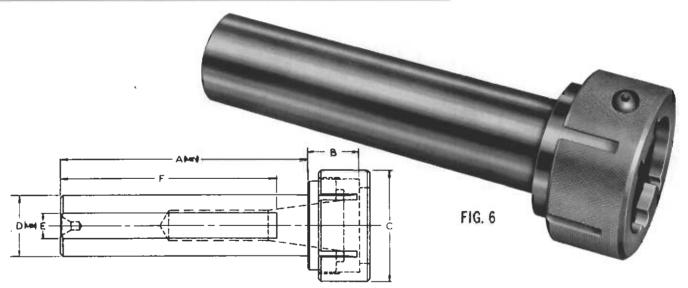
Removable pilot may be used when turret is in alignment with spindle. For best performance when turret is not in alignment, pilot should be removed and holder indicated for correct alignment with spindle.



Increase the capacity of your turret lathe by using series of tools in one position held in Erickson Quick Change Turret Lathe holder. Standard sizes for most machines are offered. Your standard Milling Machine Tool adapter can be used in this style "Quick Change" holder. Mounting data must be furnished when ordering.

	A	В	С	Socket	Min. Bolt Rad.
TL-H-30	25/a	11/4	23/4	30	1 3/4
TL-H-40	35/a	11/2	41/8	40	21/2

STRAIGHT SHANK HOLDERS



Straight Shank Holders can be furnished with #30 or #40 MMS Socket. Dimensions of shank must be furnished when ordering. Holders with smaller shanks available. Prices upon request.

	Α	В	c,	D	E-F	Socket
SSH-30	2	15/16	23/4	11/4	To suit	30
SSH-40	23/4	11/2	4 ½	13/4	To suit	40

ERICKSON Quick TOOL ADAPTERS

ERICKSON COLLET CHUCK MILLING MACHINE ADAPTERS



Standard Erickson Milling Machine Chucks may be adapted for use in Quick Change Holders. Used for holding drills and mills, reamers, etc.



Heavy Duty Model incorporates Positive Drive. The floating driver imparts positive drive to the tool and protects against pull-out on heavy milling and tapping applications. Used for End Mills and Taps.

Adapter	Adapter Range		Taper
209-30	.375" to .093"	t"	30
109-30	.563" to .218"	11/4"	30
189-30	.750" to .218"	1 1/2 "	30
109-40	.563" to .218"	11/4"	40
189-40	.750" to .218"	1 1/2 "	40
409-40	1.000" to .093"	2 1/6"	40
509-40	1.625" to .218"	3%"*	40

*Round, with spanner holes.

HEAVY DUTY MODEL

Adapter	Range	Nosepiece	Toper
F09-30	.750" to .156"	1% " Hex.	30
F09-40	.750" to .156"	· 1%/ Hex.	40
G09-40	1,312" to .250"	2¾**	40

G09-50 also available—prices upon request.

END MILL ADAPTERS

End Mill adapters are available for all standard nominal shanks $\frac{3}{16}$ ⁿ to 1ⁿ diameter. All have set screw holes. Standard dimensions apply.

FIG. 9	
Note:	
Any Tool with MM	7

(Use procedure outlined on page 2.)

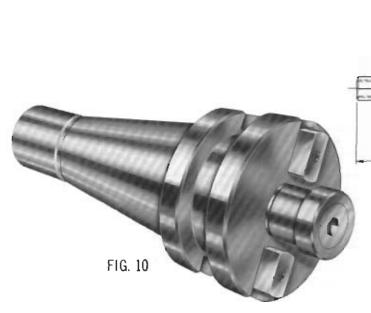
Adapter	Diam. of Hole	Taper
EM-187-30	.187	30
EM-375-30	.375	30
EM-500-30	.500	30
EM-625-30	.625	30
EM-187-40	. 187	40
EM-375-40	.375	40

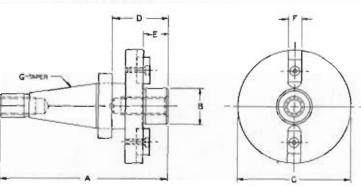
A dapter	Diam. of Hole	Taper
EM-500-40	.500	40
EM-625-40	.625	40
EM-750-40	.750	40
EM-875-40	.875	40
EM-100-40	1.000	40

^{**}Round, with spanner slots.

ERICKSON

SHELL AND FACE MILL ADAPTERS

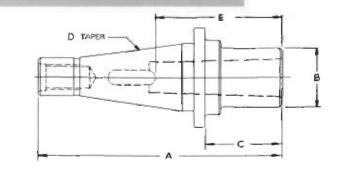


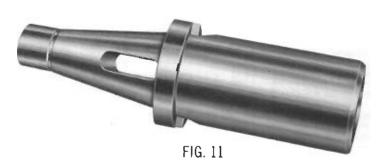


	A	В	C	D	E	F	G
FM-75-30	411/16	.750	23/16	1%	11/16	1/10	30
FM-10-30	411/16	1.000	23/16	1%	11/16	3/6	30
FM-12-30	411/16	1.250	2%	1%	11/16	1/2	30
FM-15-30	51/16	1.500	3%	115/16	15/16	5%	30
FM-20-30	5%	2.000	4%	23/14	13/14	3/4,	30
FM-15-40	61/4	1.500	3%	21/16	15/16	3/6	40
FM-20-40	6%	2.000	4%	25/16	15/16	3/4	40
FM-25-40	67%	2.500	47/6	2%	11/6	3/4	40

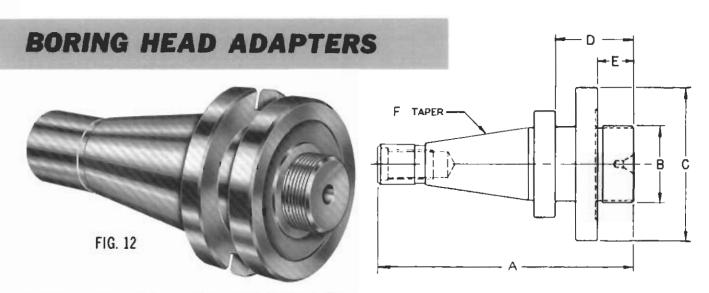
Adapters furnished complete with lockscrew and washer.

MORSE TAPER ADAPTERS





	Morse Taper	A	В	С	D	E
2MTA-30	2	413/16	11/4	111/16	30	21/2
3MTA-30	3	51/2	1%	2%	30	31/16
4MTA-30	4	75/4	13/4	43/14	30	3 7/0
2MTA-40	2	5%	11/2	111/16	40	21/2
3MTA-40	3	513/4	11/2	1 1/6	40	31/4
4MTA-40	4	634	115/14	211/4	40	3%
5MTA-40	5	97/6	2%	5%	40	415%

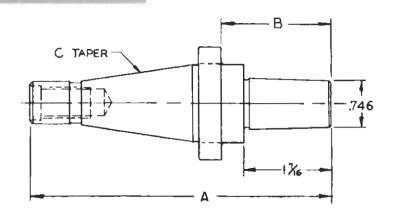


Adapter	A	B-Thread	C	D	E	F-Taper	For
CRA-875-30	415/4	%-18	21/0	13/6	7/14	30	Craley No. 1 and 3
CRA-1312-30	41/2	11/16-18	21/4	13/4	3/6	30	Craley No. 2 and 4
CHD-30	5	34-16	1 5/6	15%4	%16	30	Chandler D-11/2 - 21/2
CHJ-30	434	1/2-20	1 1/2	14164	3/14	30	Chondler J
CRA-875-40	5	76-18	21/0	15/16	7/16	40	Craley No. 1 and 3
CRA-1312-40	5%	11/4-18	25%	11/2	*	40	Craley No. 2 and 4
CHD-40	5%	34-16	13/4	11/4	5/6	40	Chandler D-11/2 - 21/2
CHJ-40	47/6	1/2-20	13/16	13/16	3/16	40	Chandler J
CH-35-40	53/14	*11/4-10	2 1/8	11/1		40	Chandler 31/2 - 41/2
FL-1437-40	5%	17/4-12	31/2	1%	%16	40	Flynn 8, 10, 12, 30, 35, 45
FL-20-40	5%	2-12	31/2	1%6	9/4	40	Flynn 20, 32, 33, 36, 47, 48, 49
EV-40	51/6	11/2-12	2	11/20	17/12	40	Everede
CRI-40	51/8	11/2-18	1 1/8	1	1/2	40	Criterian No. 3
MA-750-40	51/6	34-16	1	1	1/2	40	Maxwell 30, 40, 50
MA-10-40	55/16	1-14	11/4	11/4	3/4	40	Maxwell 60
MA-12-40	57%	11/4-12	11/2	13%	7/4	40	Maxwell 31, 41, 70
MA-175-40	61/16	134-12	2	2	1 1/2	40	Maxwell 32, 42
		*Tap					

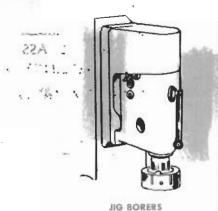
CHUCK ADAPTERS

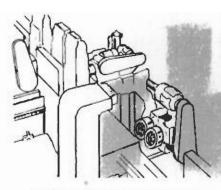
These adapters are standard for any chuck having #3 Jacobs internal taper. Other sizes can be quoted. All adapters are hardened and ground.

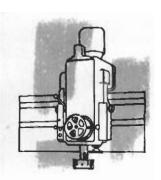
	A	В	С
JT3-30	4 1/8	1¾	30
JT3-40	513/4	1 3/4	40



TYPICAL APPLICATIONS of Erickson Quick Change Tool Holders and Adapters





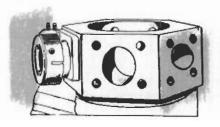


AUTOMATED TRANSFER MACHINE

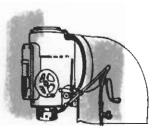
RADIAL DRILLS



PLAIN TYPE MILLS



LATHE TURRETS



UNIVERSAL TYPE MILLS

HOLDERS AVAILABLE FOR SMALL MILLING MACHINES Bridgeport R8, No. 9 B & S, and No. 30 MMS holders can be furnished with adapters to suit. Adapters in various styles already described will be made in appropriate sizes for this smaller series. Prices on application.

HOW TO

- On all holders with Keeper Key slots—we must have complete dimensions showing location of Keeper Key slot.
- On holders with drawbar threads—please give drawbar thread desired.
- Advise type of machine, taper if applicable, dimensions of shank,
 Keeper Key data, drawbar thread, and other pertinent data.

COLLET CHUCKS • FLOATING HOLDERS • TAP CHUCKS • TAP HOLDERS • AIR-OPERATED CHUCKS

EXPANDING MANDRELS • SPECIAL HOLDING FIXTURES

ERICKSON TOOL COMPANY

34350 SOLON ROAD * SOLON, OHIO (Greater Cleveland)
248-1000 Area 216

COLLET CHUCKS . EXPANDING MANDRELS . AIR-OPERATED CHUCKS . FLOATING HOLDERS . TAP CHUCKS . AUTOMATIC INDEXING . MASTER SPACERS . DIAPHRAGM CHUCKS . PUSH-ON ARBORS . QUICK-CHANGE HOLDERS . EXPANDING COLLETS . END-CLAMPING CHUCKS . AIR CYLINDERS (allowing stock to poss through) . EXPANDING JAW MANDRELS . SPECIAL HOLDING FIXTURES (including gear-holding) . BORING HEADS . BORING BARS . SPADE DRILLS . RECESSING TOOLS . POWER JAW CHUCKS