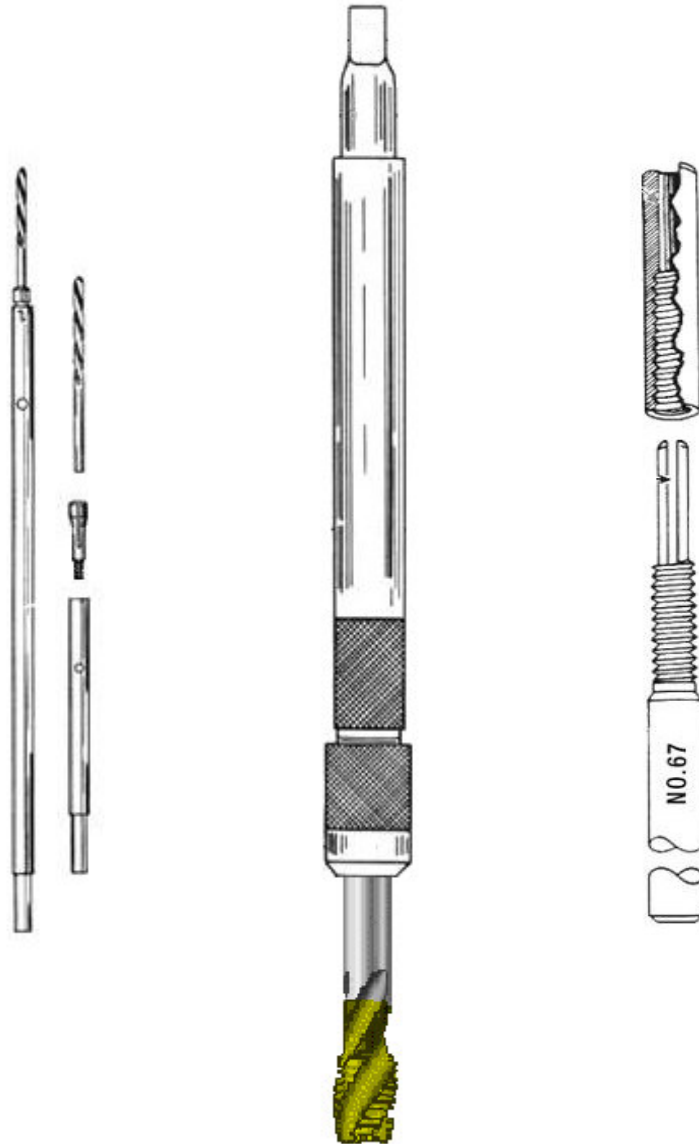


E.W.Equipment



Drill & Tap Extensions





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TAP EXTENSIONS

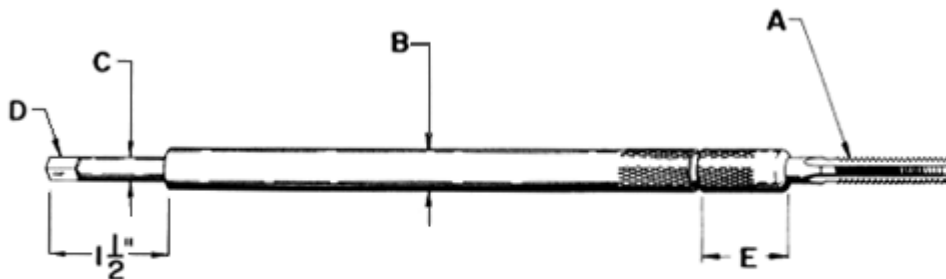
I.S.O Standard

Small Series Tap Extensions

Short Series—707A 707B 707C - 5" OVERALL LENGTH

Long Series—700A 700B 700C - 9" OVERALL LENGTH

A				B	C	D	E
TAP SHANK DIA.	TAP SQ. SIZE	5" RITMAR SERIES	9" RITMAR SERIES	EXTN. DIA.	EXTN. SHANK DIA.	EXTN. SQUARE SIZE	DEPTH TAP ENTERS
2.50	2.00	707A M2	700A M2	1/4"	5.00	4.00	7/8"
2.80	2.24	707A M2.5	700A M2.5	1/4"	5.00	4.00	7/8"
3.15	2.50	707A M3	700A M3	1/4"	5.00	4.00	7/8"
3.55	2.80	707A M3.5	700A M3.5	1/4"	5.00	4.00	7/8"
4.00	3.15	707B M4	700B M4	5/16"	5.00	4.00	1"
4.50	3.55	707B M4.5	700B M4.5	5/16"	5.00	4.00	1"
5.00	4.00	707B M5	700B M5	3/8"	5.00	4.00	1"
5.60	4.50	707B No.12	700B No.12	3/8"	5.00	4.00	1"
6.30	5.00	707B M6	700B M6	7/16"	6.30	5.00	1"
7.10	5.60	707C M7	700C M7	1/2"	7.10	5.60	1 1/16"
8.00	6.30	707C M8	700C M8	1/2"	8.00	6.30	1 1/8"
9.00	7.10	707C M12	700C M12	9/16"	9.00	7.10	1 1/8"
10.00	8.00	707C M10	700C M10	9/16"	10.00	8.00	1 1/8"



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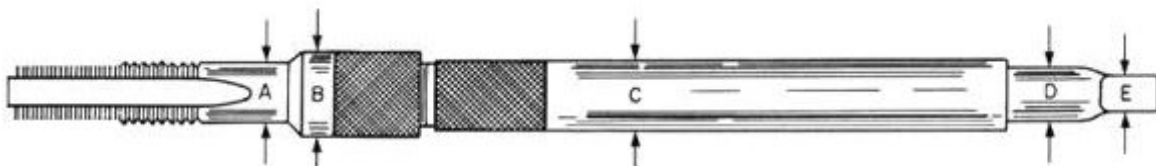
TAP EXTENSIONS

I.S.O Standard

Large Series Tap Extensions

700D 700E 700F & 700G STANDARD LENGTHS 6" OR 12"
OTHER LENGTHS UP TO 30" ON APPLICATION

A		B		C	D	E	
TAP SHANK DIA.	TAP SQ. SIZE	6" RITMAR SERIES	12" RITMAR SERIES	NUT DIA.	EXTN. SHANK DIA.	EXTN. SHANK SIZE	EXTN. SQ. SIZE
11.20	9.00	700D 6" M14	700D 12" M14	7/8"	3/4"	11.20	9.00
12.50	10.00	700D 6" M16	700D 12" M16	7/8"	3/4"	12.50	10.00
14.00	11.20	700E 6" M18	700E 12" M18	1"	7/8"	14.00	11.20
16.00	12.50	700F 6" M22	700F 12" M22	1 1/8"	1"	16.00	12.50
18.00	14.00	700F 6" M24	700F 12" M24	1 1/8"	1"	18.00	14.00
20.00	16.00	700F 6" M30	700F 12" M30	1 1/8"	1"	20.00	16.00



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TAP EXTENSIONS

DIN Standard

Small Series Tap Extensions

Short Series—707A 707B 707C - 5" OVERALL LENGTH

Long Series—700A 700B 700C - 9" OVERALL LENGTH

TO ORDER EXTENSIONS FOR DIN STANDARD TAPS, MEASURE TAP SHANK DIAMETER AND SQUARE SIZE.

USING THE TABLE BELOW, LOCATE THE CORRESPONDING SIZES IN THE LEFT HAND COLUMNS AND READ OFF ORDER COLUMNS IN THE RIGHT HAND COLUMNS.

TAP SHANK DIA	TAP SQ. SIZE	COMMENTS	5" RITMAR SERIES	9" RITMAR SERIES
2.50	2.10	USE ISO M2	707A M2	700A M2
2.80	2.10	USE ISO M2.5	707A M2.5	700A M2.5
3.50	2.70	USE ISO M3.5	707A M3.5	700A M3.5
4.00	3.00	USE ISO M4	707B M4	700B M4
4.50	3.40	USE ISO M4.5	707B M4.5	700B M4.5
6.00	4.90	USE DIN 6 X 4.9	707B DIN 6X4.9	700B DIN 6X4.9
7.00	5.50	USE DIN 7 X 5.5	707B DIN 7X5.5	700B DIN 7X5.5
8.00	6.20	USE ISO M8	707C M8	700C M8
9.00	7.00	USE ISO M12	707C M12	700C M12
10.00	8.00	USE ISO M10	707C M10	700C M10

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TAP EXTENSIONS

DIN Standard

Large Series Tap Extensions

**700D 700E 700F & 700G STANDARD LENGTHS 6" OR 12"
OTHER LENGTHS UP TO 30" ON APPLICATION**

TO ORDER EXTENSIONS FOR DIN STANDARD TAPS, MEASURE TAP SHANK DIAMETER AND SQUARE SIZE.

USING THE TABLE BELOW, LOCATE THE CORRESPONDING SIZES IN THE LEFT HAND COLUMNS AND READ OFF ORDER COLUMNS IN THE RIGHT HAND COLUMNS.

TAP SHANK DIA	TAP SQ. SIZE	COMMENTS	6" RITMAR SERIES	12" RITMAR SERIES
11.00	9.00	USE DIN 11 X 9	700D 6" DIN 11X9	700D 12" DIN 11X9
12.00	9.00	USE DIN 12 X 9	700D 6" DIN 12X9	700D 12" DIN 12X9
14.00	11.00	USE ISO M18	700E 6" M18	700E 12" M18
16.00	12.00	USE ISO M22	700F 6" M22	700F 12" M22
18.00	14.50	USE ISO M24	700F 6" M24	700F 12" M24
20.00	16.00	USE ISO M30	700F 6" M30	700F 12" M30
22.00	18.00	USE 22 X 18	700G 6" 22X18	700G 12" 22X18
25.00	20.00	USE 25 X 20	700G 6" 25X20	700G 12" 22X18

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EXTENDRIL

Drill Extensions 770A, B & C

**TWO STANDARD LENGTHS—4" OR 9"
USES A DIFFERENT COLLET FOR EACH SIZE DRILL**

A combination of Extension Rod and interchangeable Collets. A real precision tool for both machine and hand drilling.

Handles remote-spot drilling problems (A).

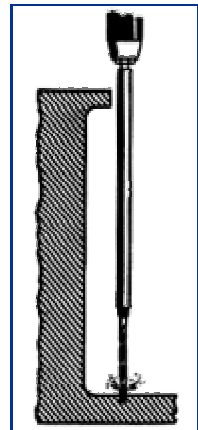
RUGGED – Can be used in drilling the toughest materials such as titanium and stainless steels.

ACCURATE – Eccentricity of drill bit with respect to axis of Extension Rod is less than .002" T.I.R.

EASY TO USE – Dull or broken drill bits can be replaced in a few seconds – without removing Collet from Extension Rod.

EFFICIENT & ECONOMICAL – Three Extension Rods accommodate a total of 81 interchangeable collets covering a range of drills from 0.52mm to 8.00mm, and are available in two standard lengths, 9 inches and 4 inches. Other lengths are available on special order.

The individual drill size is clearly stamped on the head of each Collet. Extension Rods are precision machined from high-grade tool steel for maximum strength and durability. Collets are case hardened for wear resistance. O.D. of Extension Rod is greater than maximum diameter of collet. Tool can therefore be used with drilling bushings (B).



(A)



(B)



SERIES	SHANK DIA.	BODY DIA.	COLLET RANGE	OAL
770A	1/4"	5/16"	0.52mm TO 4.10mm	4" OR 9"
770B	1/4"	7/16"	4.10mm TO 6.50mm	4" OR 9"
770C	3/8"	9/16"	6.00mm TO 8.00mm	4" OR 9"

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EXTENDRIL



Drill Extensions 770D

THREE STANDARD LENGTHS

3 1/2", 6" & 12"

USES A DIFFERENT COLLET FOR EACH SIZE DRILL

The 770D Extendril Drill Extension and Collet has been designed to expand upon the capabilities of our 770A, B and C Extendril Drill Extensions and Collets.



Actual Size

SERIES	BODY DIA.	COLLET RANGE	OAL
770D	1"	.316" TO 9/16" (.5625")	3 1/2", 6" OR 12"

Metric and Special Size Collets Available Upon Request.

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MINDRIL

Miniature Drill Extensions

The drill is held by the clamping action of slotted fingers and a tapered locking sleeve, no soldering or brazing is required.

MATERIAL

Oil hardened drill rod

O.A.L.

(without drill) 3-7/8"

O.D.

1/8" or 3/16" (uniform over entire length)

CAPACITY 1/8" O.D.

No. 80 (.0135) to No. 56 (.0465) (Including fractional sizes)

CAPACITY 3/16" O.D.

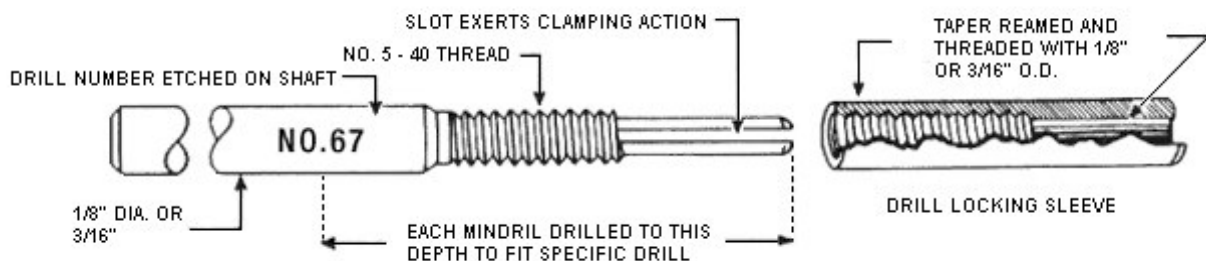
No. 80 (.0135) to 1/16" (.0625) (Including fractional sizes)

ALSO AVAILABLE

In mm sizes on request.

NOTE

Each Mindril is made for a single drill diameter - the size is etched on shaft of each tool.



Prices on application

E.W.Equipment

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MIDGET CHUCKS

Midget Chucks - Series 200 & 300

HOW THE RITMAR MIDGET CHUCK ELIMINATES THE TOUGH DRILLING PROBLEMS...

THE COLLET



A slotted collet, internally drilled and punched to the desired drill size, is provided with a hexagonal head and external threads. Drill is inserted through the rear of the collet. The flutes of the drill are gripped by a pair of internal prongs in the collet head freezing the drill in place and preventing slippage. Collets will hold drill sizes from #50 to "F"... and fractional sizes from 1/16" to 1/4" by 64ths.

THE ADAPTOR

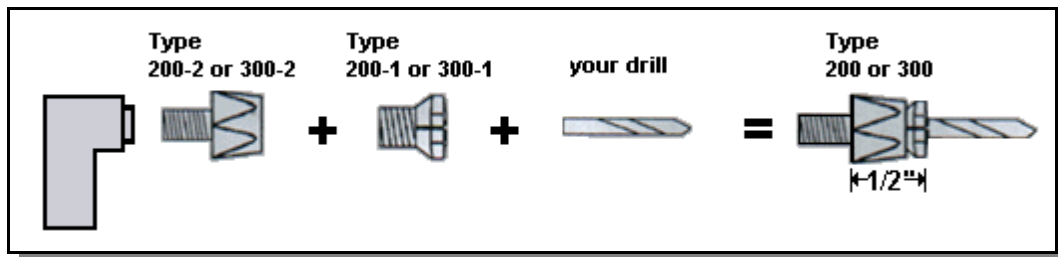


A goblet shaped piece having internal threads which mate with the collet threads. It also has an externally threaded shank which screws into the driving unit spindle. When the tapered shank of the collet is screwed into the internal bevel of the adaptor, a squeezing action develops a vice-like grip on the drill preventing accidental extraction of the drill from the chuck assembly.

Adapter threads fit four standard spindle sizes: #10-31; 1/4"-28; 9/32"-40; 5/16"-24.

Both of these parts are made from steel bar stock, hardened and permanently coated with a rust preventive.

READY FOR USE IN SECONDS-WITHOUT SOLDERING OR BRAZING



All Collets and adaptors are completely interchangeable within each series. For example: in the "200" Series, an adaptor having any of the four standard thread sizes will accommodate collets holding all drill sizes from #50 to #6, OR 1/16" TO 13/64". This versatility makes the drill diameter completely independent of thread size in the driving spindle...it eliminates one of the big cost problems in production tooling.

Please Note: Each collet holds one size of drill only.

Sizes & Specifications: See Page 12.

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MIDGET CHUCKS

Series 200 & 300 Sizes & Specifications

“200 Series”

Sizes marked * available in plain through hole only.

Fractional Size	Decimal Size	Number or Letter	Fractional Size	Decimal Size	Number or Letter
1/16	.0625		9/64	.140625	
	*.0700	50		.1440	27
	*.0730	49		.1470	26
	*.0760	48		*.1495	25
5/64	.78125			*.1520	24
	*.0785	47		*.1540	23
	.0810	46	5/32	.15625	
	*.0820	45		*.1570	22
	.0860	44		.1590	21
	.0890	43		.1610	20
	*.0935	42		.1660	19
3/32	.09375			.1695	18
	*.0960	41	11/64	.171875	
	.0980	40		*.1730	17
	.0995	39		*.1770	16
	*.1015	38		.1800	15
	*.1040	37		.1820	14
	*.1065	36		.1850	13
7/64	.109375		3/16	.1875	
	*.1100	35		.1890	12
	*.1110	34		.1910	11
	*.1130	33		.1935	10
	.1160	32		*.1960	9
	.1200	31		*.1990	8
1/8	.1250			*.2010	7
	.1285	30	13/64	.203125	
	.1360	29		.2040	6
	.1405	28			

“300 Series”

Fractional Size	Decimal Size	Number or Letter	Fractional Size	Decimal Size	Number or Letter
	.2055	5	15/64	.234375	
	.2090	4		.238	B
	.2160	3		.242	C
7/32	.21875			.246	D
	*.2210	2			
	.2280	1	1/4	.250	E
	.234	A		.257	F

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