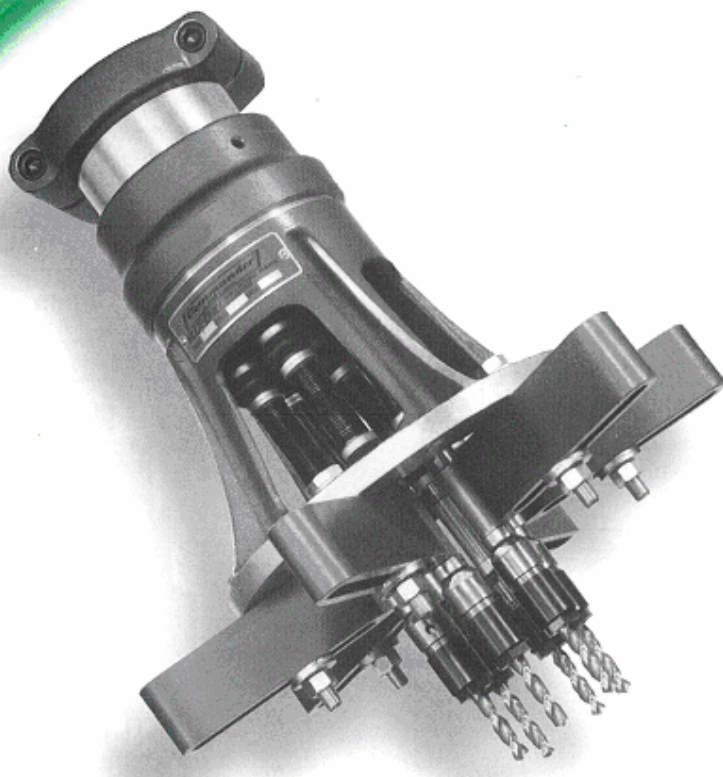


Commander®**MULTIPLE SPINDLE DRILL HEAD****MULTI-DRILL®****500****Sturdy, Compact Head with Heavy-Duty Capabilities**

- *Drill / Tap up to 6 holes in a 4-3/4" diameter circle*
- *3/8" drill capacity*
- *Adapts to any drill press or automatic feed unit.*

The Model 500 Multi-Drill is a heavy-duty adjustable gear-driven spindle drill head. Its 100% ball bearing construction and 6-spindle configuration makes it ideal for most drilling and tapping applications.

Commander Multi-Drill has on file spindle specifications for most machines. Please furnish us with the make and model number of the machine that our head will be adapted to. (See adaptations page)

In some cases there may be an additional charge for adaptation.

MULTI-DRILL 500	ITEM #
Basic Unit without Adaptation	C70020
Basic Unit with Adaptation	C70021

SPECIFICATIONS	
Maximum Drilling Area	4-3/4"
Minimum Center Distance	7/16"
Maximum Number of Spindles	6
Drill Capacity in mild steel	3/8"
Maximum Drilling Area w/ Extension Spindles	18-1/2"
Maximum Horsepower Transmitted	2
Maximum Torque Transmitted	70 inch / lbs.
Maximum Spindle RPM	1800
Maximum Drill Press RPM	1800
Speed Ratio	1:1



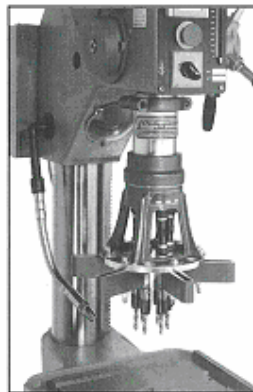
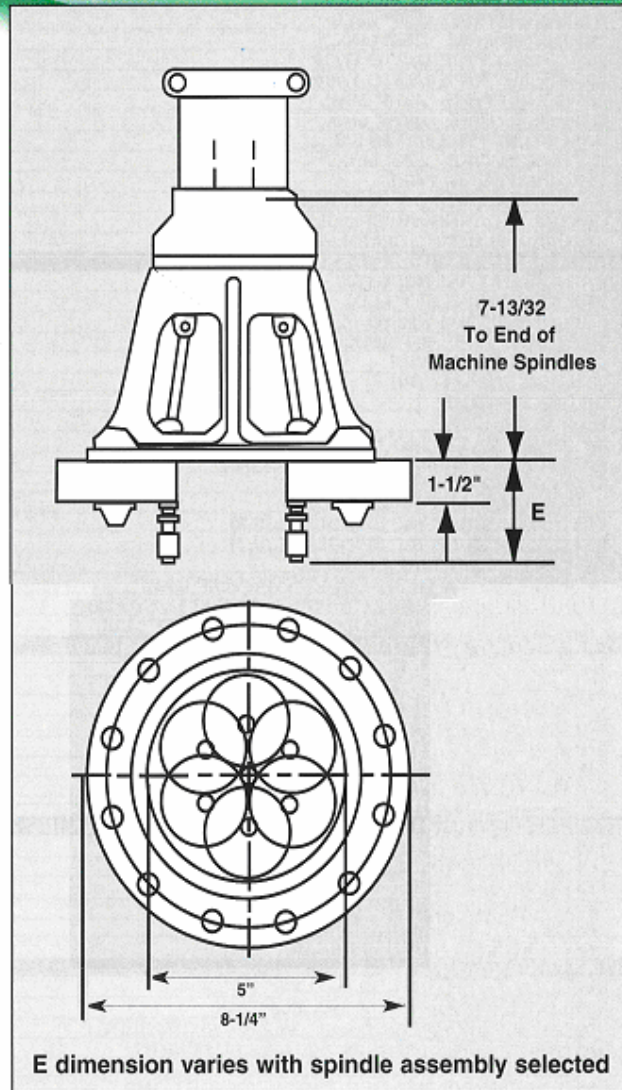
Proudly made in Franklin, WI USA

www.commandermultidrill.com

Ideal for adaptation to drill presses, tapping machines, automatic self-feed drill and tap units, and special machines

- Available with adjustable arm or slip spindle assembly using bored fixed position plate.
- Low profile – compact, close couple design. Minimum amount of open height taken up.
- Allows a more comfortable working position of the operator.
- Heavy-duty gear case allows drilling up to to 6 holes* , 3/8" drill capacity in mild steel, in a 4-3/4" diameter circle.
- Close center capacity.
- Extremely versatile, maximum flexibility of application.
- Operate in any position: upright, inverted or horizontal.
- Adapt to any drilling machine. Standard adapter caps available to fit most popular drilling machines.
- These drill heads can be used for multiple tapping by use of a motor reversing unit.
- Minimum maintenance required.

The maximum angularity of universal joint assemblies should be no more than 22 degrees to obtain best service



*** Multi-Drill Terminology... Hex Pick-Off**
A Hex Pick-Off is the hex protruding from the multi-drill spindle gear case that a universal joint spindle can be attached to.
The model 500 includes all 6 hex pick-offs with the basic unit.

MULTI-DRILL® 500 ADJUSTABLE ARM



Minimum Center Distances		Spindle Length "E" Dimension <i>see drawing</i>	Adjustable Arm	
Plain	Booted		Plain	Booted

STANDARD SPINDLE ASSEMBLIES					
125 COLLET TYPE 1/32 TO 1/8	1/2	-----	3-5/16	C74467	-----
125 COLLET TYPE 1/32 TO 1/8	7/16	-----	3-5/16	C74481	-----
125 BORED TYPE .255" MAX.	1/2	-----	3-1/8	C74472	-----
125 BORED TYPE .255" MAX.	7/16	-----	3-1/8	C74482	-----
265 COLLET TYPE 1/32 TO 17/64	11/16	-----	3-9/16	C74473	-----
265 COLLET TYPE 1/32 TO 17/64	5/8	-----	3-9/16	C74483	-----
265 BORED TYPE .4375" MAX.	11/16	-----	3-1/8	C74474	-----
265 BORED TYPE .4375" MAX.	5/8	-----	3-1/8	C74484	-----
375 COLLET TYPE 1/32 TO 3/8	7/8	1-1/4	3-5/8	C74475	C75475
375 BORED TYPE .500" MAX.	7/8	1-1/4	3-5/8	C74477	C75477
#1 MORSE TAPER TYPE	11/16	1-1/4	5	C74466	C75466
375 Q.T. FLOATING TAP SPINDLES	7/8	1-1/4	-----	P.O.A.	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	7/8	1-1/4	-----	P.O.A.	P.O.A.
375 PLAIN FLOATING SPINDLES	7/8	1-1/4	-----	P.O.A.	P.O.A.
BALL BEARING SPINDLE ASSEMBLIES					
375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	3-3/16	-----	C85308
375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85438
500 COLLET TYPE 1/32 TO 1/2	-----	1-1/4	3-5/8	-----	C85433
500 BORED TYPE .625" MAX.	-----	1-1/4	-----	-----	C85444
#1 MORSE TAPER TYPE	-----	1-1/4	4-9/16	-----	C85309
#2 MORSE TAPER TYPE	-----	1-1/4	4-15/16	-----	C85310
5/8 ASA SPINDLE	-----	1-1/4	5-5/16	-----	C85311
7/8 ASA SPINDLE	-----	1-1/4	5-15/16	-----	C85312
375 STUB ASA COLLET TYPE 1/32 TO 3/8	-----	1-1/4	4-5/16	-----	C85399
500 STUB ASA COLLET TYPE 1/32 TO 1/2	-----	1-1/4	6-1/16	-----	C85442
375 PLAIN FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85443
375 Q.T. FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85379
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	1-1/4	-----	-----	C85381
500 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	1-1/4	-----	-----	C85441
500 Q.T. FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85440
ADJUSTABLE DEPTH 375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	4-3/8	-----	C85413
ADJUSTABLE DEPTH 375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85477
PITCH COMPENSATING 375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	4-1/8	-----	C85423
PITCH COMPENSATING 375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85478
STANDARD ADJUSTABLE DEPTH SPINDLE ASSEMBLIES					
125 COLLET TYPE 1/32 TO 1/8	1/2	-----	3-3/16	C74442	-----
125 BORED TYPE .255" MAX.	1/2	-----	3-3/16	C74950	-----
265 COLLET TYPE 1/32 TO 17/64	11/16	-----	4-3/16	C74441	-----
375 COLLET TYPE 1/32 TO 3/8	7/8	1-1/4	4-3/8	C74440	C75440
375 BORED TYPE .500" MAX.	7/8	1-1/4	4-3/8	C74439	C75439
375 Q.T. FLOATING TAP SPINDLES	7/8	-----	-----	-----	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	7/8	-----	-----	-----	P.O.A.
375 PLAIN FLOATING SPINDLE	7/8	-----	-----	-----	P.O.A.
STANDARD PITCH COMPENSATING SPINDLE ASSEMBLIES					
125 BORED TYPE .255" MAX.	1/2	-----	4-1/8	C74433	-----
265 COLLET TYPE .255" MAX.	11/16	-----	4-3/16	C74430	-----
375 COLLET TYPE #0-5/16 TAP	7/8	1-1/4	4-1/8	C74429	C75429
375 Q.T. FLOATING TAP SPINDLES	-----	-----	-----	P.O.A.	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	-----	-----	P.O.A.	P.O.A.
375 PLAIN FLOATING SPINDLES	-----	-----	-----	P.O.A.	P.O.A.
3" EXTENSION SPINDLES					
375 COLLET TYPE BALL BRG. 1/32 TO 3/8	1-3/8	1-3/8	3-5/8	C74458	C75458
375 BORED TYPE BALL BRG. .500" MAX.	1-3/8	1-3/8	3-3/8	C74457	C75457
375 COLLET TYPE BALL BRG. 1/32 TO 3/8 ADJ DEPTH	1-3/8	1-3/8	5	C74455	C75446
375 BORED TYPE BALL BRG. .500 MAX ADJ DEPTH	1-3/8	1-3/8	4-7/16	P.O.A.	C75445
375 COLLET TYPE BALL BRG. 1/32 TO 3/8 PITCH COMP	1-3/8	1-3/8	4-3/16	P.O.A.	C75443
375 BORED TYPE BALL BRG. .500 MAX PITCH COMP	1-3/8	1-3/8	4-7/16	P.O.A.	P.O.A.
500 COLLET TYPE BALL BRG. 1/32 TO 1/2	-----	-----	-----	-----	-----
500 BORED TYPE BALL BRG. .625 MAX	1-3/8	1-3/8	3-5/8	-----	-----
#1 MORSE TAPER TYPE	1-3/8	1-3/8	3-3/8	-----	-----
#2 MORSE TAPER TYPE	1-3/8	1-3/8	4-7/16	-----	-----
375 Q.T. FLOATING TAP SPINDLES	-----	-----	-----	-----	-----
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	-----	-----	-----	-----
375 PLAIN FLOATING SPINDLES	-----	-----	-----	-----	-----
6 3/4" EXTENSION SPINDLES					
375 COLLET TYPE BALL BRG. 1/32 TO 3/8	-----	-----	-----	C74450	C75450
375 BORED TYPE BALL BRG. .500" MAX.	-----	-----	-----	C74449	C75449
375 COLLET TYPE BALL BRG. 1/32 TO 3/8 ADJ DEPTH	-----	-----	-----	C74447	C75454
375 BORED TYPE BALL BRG. .500 MAX ADJ DEPTH	-----	-----	-----	P.O.A.	C75453
375 COLLET TYPE BALL BRG. 1/32 TO 3/8 PITCH COMP	-----	-----	-----	P.O.A.	C75451
375 BORED TYPE BALL BRG. .500 MAX PITCH COMP	-----	-----	-----	P.O.A.	P.O.A.
500 COLLET TYPE BALL BRG. 1/32 TO 1/2	-----	-----	-----	-----	-----
500 BORED TYPE BALL BRG. .625 MAX	-----	-----	-----	-----	-----
#1 MORSE TAPER TYPE	-----	-----	-----	-----	-----
#2 MORSE TAPER TYPE	-----	-----	-----	-----	-----
375 Q.T. FLOATING TAP SPINDLES	-----	-----	-----	-----	-----
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	-----	-----	-----	-----
375 PLAIN FLOATING SPINDLES	-----	-----	-----	-----	-----
VERSA SPINDLES					
3/8" CAPACITY	-----	-----	-----	-----	C80140
1/2" CAPACITY	-----	-----	-----	-----	-----



Plain



Booted

MULTI-DRILL® 500 SLIP SPINDLE



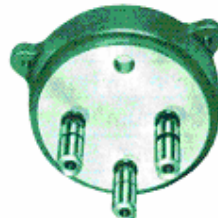
Minimum Center Distances		Spindle Length "E" Dimension <i>see drawing</i>	Slip Spindle	
Plain	Booted		Plain	Booted

STANDARD SPINDLE ASSEMBLIES					
125 COLLET TYPE 1/32 TO 1/8	1/2	-----	3-5/16	C74401	-----
125 COLLET TYPE 1/32 TO 1/8	7/16	-----	3-5/16	P.O.A.	-----
125 BORED TYPE .255" MAX.	1/2	-----	3-1/8	C74406	-----
125 BORED TYPE .255" MAX.	7/16	-----	3-1/8	P.O.A.	-----
265 COLLET TYPE 1/32 TO 17/64	11/16	-----	3-9/16	P.O.A.	-----
265 COLLET TYPE 1/32 TO 17/64	5/8	-----	3-9/16	P.O.A.	-----
265 BORED TYPE .4375" MAX.	11/16	-----	3-1/8	P.O.A.	-----
265 BORED TYPE .4375" MAX.	5/8	-----	3-1/8	P.O.A.	-----
375 COLLET TYPE 1/32 TO 3/8	7/8	1-1/4	3-5/8	C74407	C75407
375 BORED TYPE .500" MAX.	7/8	1-1/4	3-5/8	C74409	C75409
#1 MORSE TAPER TYPE	11/16	1-1/4	5	C74485	C75485
375 Q.T. FLOATING TAP SPINDLES	7/8	1-1/4	-----	P.O.A.	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	7/8	1-1/4	-----	P.O.A.	P.O.A.
375 PLAIN FLOATING SPINDLES	7/8	1-1/4	-----	P.O.A.	P.O.A.
BALL BEARING SPINDLE ASSEMBLIES					
375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	3-3/16	-----	C85336
375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85445
500 COLLET TYPE 1/32 TO 1/2	-----	1-1/4	3-5/8	-----	C85434
500 BORED TYPE .625" MAX.	-----	1-1/4	-----	-----	C85447
#1 MORSE TAPER TYPE	-----	1-1/4	4-9/16	-----	C85337
#2 MORSE TAPER TYPE	-----	1-1/4	4-15/16	-----	C85338
5/8 ASA SPINDLE	-----	1-1/4	5-5/16	-----	C85339
7/8 ASA SPINDLE	-----	1-1/4	5-15/16	-----	C85340
STUB ASA (SPECIFY BORE)	-----	1-1/4	4-5/16	-----	C85400
375 PLAIN FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85446
375 Q.T. FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85357
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	1-1/4	-----	-----	C85359
500 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	1-1/4	-----	-----	-----
500 Q.T. FLOATING TAP SPINDLES	-----	1-1/4	-----	-----	C85448
ADJUSTABLE DEPTH 375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	4-3/8	-----	C85414
ADJUSTABLE DEPTH 375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85479
PITCH COMPENSATING 375 COLLET TYPE 1/32 TO 3/8	-----	1-1/4	4-1/8	-----	C85424
PITCH COMPENSATING 375 BORED TYPE .500" MAX.	-----	1-1/4	-----	-----	C85480
STANDARD ADJUSTABLE DEPTH SPINDLE ASSEMBLIES					
125 COLLET TYPE 1/32 TO 1/8	1/2	-----	3-3/16	C74417	-----
125 BORED TYPE .255" MAX.	1/2	-----	3-3/16	C74954	-----
265 COLLET TYPE 1/32 TO 17/64	11/16	-----	4-3/16	P.O.A.	-----
265 BORED TYPE .4375" MAX.	11/16	-----	4-3/16	P.O.A.	-----
375 COLLET TYPE 1/32 TO 3/8	7/8	1-1/4	4-3/8	C74419	C75419
375 BORED TYPE .500" MAX.	7/8	1-1/4	4-3/8	C74480	C75480
375 Q.T. FLOATING TAP SPINDLES	-----	-----	-----	P.O.A.	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	-----	-----	P.O.A.	P.O.A.
375 PLAIN FLOATING SPINDLES.	-----	-----	-----	P.O.A.	P.O.A.
STANDARD PITCH COMPENSATING SPINDLE ASSEMBLIES					
125 BORED TYPE .255" MAX.	1/2	-----	4-1/8	C74424	-----
265 BORED TYPE .255" MAX.	11/16	-----	4-3/16	P.O.A.	-----
265 COLLET TYPE #0-1/4 TAP	11/16	-----	4-3/16	P.O.A.	-----
375 COLLET TYPE #0-5/16 TAP	7/8	1-1/4	4-1/8	C74426	C75426
375 BORED TYPE 5/16" TAP MAX.	7/8	1-1/4	4-1/8	P.O.A.	P.O.A.
375 Q.T. FLOATING TAP SPINDLES	-----	-----	-----	P.O.A.	P.O.A.
375 Q.C. FLOATING TAP SPINDLES (BILZ)	-----	-----	-----	P.O.A.	P.O.A.
375 PLAIN FLOATING SPINDLES	-----	-----	-----	P.O.A.	P.O.A.

HEAD ACCESSORIES	ITEM #
FIXED POSITION PLATE	C71042
BORED HOLES	C71135
GUIDE RODS AND BUSHED ARMS	C71211/C71212



The maximum angularity of universal joint assemblies should be no more than 22 degrees to obtain best service life.



Fixed Position Plate



Guide Rods & Bushed Arms