

Flat-Angle Drills

Drills and Tappers

Torque Output: 4.0 to 8.3 ft-lbs (5.4 to 11.3 Nm)

Standard Equipment

- Suspension Bail
- 33500-3 Drive Spindle
- Choice of 33628-(-) Collet

Flat-Angle Drills

1,450 to 3,300 rpm / 0.4 hp (.3 kW)

Capacity: 1/4" (6 mm)

- Excellent for drilling smaller diameter holes for airframe builders and metal fab shops.
- Flat angle allows reach into limited access areas.



7439-D

Flat-Angle Drills

Model No.	Speed rpm	Standard Collet Cap.	Throttle Style	Stall Torque		Std. Spindle Thread Female	Tool Length		Angle Head Height w/o Collet		Tool Weight		@ Free Speed		Standard Spindle Part No.	
				ft-lbs	Nm		in.	mm	in.	mm	lbs	kg	Air Cons. cfm	Sound Level L/s dB(A)		
7441-D	3,300	Specify	Lever	4.0	5.4	1/4"-28	10.6	269	.7	17	2.9	1.3	24	11	86	33500-3
7439-D	2,500	Specify	Lever	3.0	4.1	1/4"-28	10.6	269	.7	17	2.9	1.3	24	11	86	33500-3
7438-D	1,450	Specify	Lever	8.3	11.3	1/4"-28	11.9	302	.7	17	3.5	1.6	24	11	86	33500-3

• Most popular model. Air Inlet – 1/4" NPTF Recommended Air Pressure – 90 PSI (6.2 bar) Recommended Hose Size – 5/16" (8 mm) I.D.

No Cost Options (Order "With" Option)

Drive Spindle No.	Female Thread Size	For Use With
33500-5	1/4"-24	Threaded Bits
43494	9/32"-40	43497-(-) Collet ¹

(1) Choice of 43497-(-) Collet when flat angle is ordered with 43494 Spindle.

Drive Spindles

The drive spindle of every flat-angle drill is an internal threaded gear. Three drive spindles are available so that various attachments can be used. The drive spindle is easily inserted into the angle head by removing the bottom plate.

Chuck Adapter 33662²

Use with 33500-3 Drive Spindle. Has 1/4"-28 male thread and #0 taper for use with:

- Drill Chuck 30442, 5/32" Cap. (4 mm).
- Drill Chuck is at extra cost.

(2) May be substituted for choice of collet when ordered with 33500-3 Drive Spindle.



33662



33628



43497

Series 33628-(-) One Piece Collets, Non-Precision

Use with 33500-3 Drive Spindle. Collet has 1/4"-28 male thread. Overall length (less thread) ²³/32" (18.2 mm).

Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.
7	-1	15	-9	22	-16	30	-24	38	-32	46	-40	54	-48	5/64	-56	11/64	-64
8	-2	16	-10	23	-17	31	-25	39	-33	47	-41	55	-49	3/32	-57	7/32	-65
9	-3	17	-11	24	-18	32	-26	40	-34	48	-42	56	-50	7/64	-58	15/64	-66
10	-4	18	-12	25	-19	33	-27	41	-35	49	-43	57	-51	1/8	-59	1/4	-67
11	-5	19	-13	26	-20	34	-28	42	-36	50	-44	58	-52	9/64	-60	F	-68
12	-6	20	-14	27	-21	35	-29	43	-37	51	-45	59	-53	5/32	-61		
13	-7	20	-14	28	-22	36	-30	44	-38	52	-46	60	-54	11/64	-62		
14	-8	21	-15	29	-23	37	-31	45	-39	53	-47	53	-47	1/16	-55	3/16	-63

Series 43497-(-) One Piece Collets, Non-Precision

Use with 43494 Drive Spindle. Collet has 9/32" - 40 male thread. Overall length – 1/2" (13 mm).

Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.	Drill Size	Dash No.
7	-7	14	-14	21	-21	28	-28	35	-35	42	-42	49	-49	56	-56	3/32	-163
8	-8	15	-15	22	-22	29	-29	36	-36	43	-43	50	-50	57	-57	7/64	-164
9	-9	16	-16	23	-23	30	-30	37	-37	44	-44	51	-51	58	-58	1/8	-165
10	-10	17	-17	24	-24	31	-31	38	-38	45	-45	52	-52	59	-59	9/64	-166
11	-11	18	-18	25	-25	32	-32	39	-39	46	-46	53	-53	60	-60	5/32	-167
12	-12	19	-19	26	-26	33	-33	40	-40	47	-47	54	-54	1/16	-161	11/64	-168
13	-13	20	-20	27	-27	34	-34	41	-41	48	-48	55	-55	5/64	-162	3/16	-169