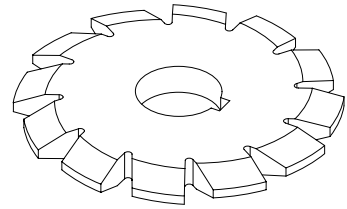


FRW20 SERIES DP 20° PA

Axial DP	Cutter Dia.	Size Hole	Point Width	Series
1-1/4	8	2	.5828	FRW20-125-8
1-1/2	7	1-3/4	.486	FRW20-150-7
1-3/4	7	1-3/4	.416	FRW20-175-7
2	5-3/4	1-1/2	.364	FRW20-200-5
2	7	1-3/4	.364	FRW20-200-7
2-1/2	6	1-3/4	.291	FRW20-250-6
3	4	1-1/4	.243	FRW20-300-4
3	5	1-1/2	.243	FRW20-300-5
3	6	1-3/4	.243	FRW20-300-6
3	7	1-3/4	.243	FRW20-300-7
3-1/2	4	1-1/4	.208	FRW20-350-4
4	3-3/4	1-1/4	.182	FRW20-400-3L
4	4	1-1/4	.182	FRW20-400-4
4	5	1-1/2	.182	FRW20-400-5
4	6	1-3/4	.182	FRW20-400-6
4	7	1-3/4	.182	FRW20-400-7
4-1/2	4	1-1/4	.162	FRW20-450-4
5	4	1-1/4	.146	FRW20-500-4
5	4	1	.146	FRW20-500-4A
5	5	1-1/2	.146	FRW20-500-5
5	6	1-3/4	.146	FRW20-500-6
5	7	1-3/4	.146	FRW20-500-7
6	3-1/4	1	.121	FRW20-600-3A
6	4	1-1/4	.121	FRW20-600-4
6	4	1	.121	FRW20-600-4A
6	5	1-1/2	.121	FRW20-600-5
6	6	1-3/4	.121	FRW20-600-6
6	7	1-3/4	.121	FRW20-600-7
7	4	1-1/4	.104	FRW20-700-4
7	4	1	.104	FRW20-700-4A
7	6	1-3/4	.104	FRW20-700-6
8	3-1/4	1	.091	FRW20-800-3A
8	3-1/4	1-1/4	.091	FRW20-800-3L
8	4	1-1/4	.091	FRW20-800-4
8	4	1	.091	FRW20-800-4A
8	5	1-1/2	.091	FRW20-800-5
8	6	1-3/4	.091	FRW20-800-6
9	4	1-1/4	.081	FRW20-900-4
10	3	1	.073	FRW20-010-3A
10	3-1/4	1-1/4	.073	FRW20-010-3L
10	4	1-1/4	.073	FRW20-010-4
10	4	1	.073	FRW20-010-4A
10	4-1/2	1-1/4	.073	FRW20-010-4L
10	5	1-1/2	.073	FRW20-010-5
10	6	1-3/4	.073	FRW20-010-6
12	2-1/2	1-1/4	.061	FRW20-012-2
12	3	1	.061	FRW20-012-3A
12	4	1-1/4	.061	FRW20-012-4
12	4	1	.061	FRW20-012-4A
12	4-1/2	1-1/4	.061	FRW20-012-4L
12	5	1-1/2	.061	FRW20-012-5
12	6	1-3/4	.061	FRW20-012-6
14	2-1/2	1-1/4	.052	FRW20-014-2
14	4	1-1/4	.052	FRW20-014-4
14	4	1	.052	FRW20-014-4A
14	5	1-1/2	.052	FRW20-014-5
16	2-1/2	1-1/4	.046	FRW20-016-2
16	3	1	.046	FRW20-016-3A

(continued next column)

Rack & Worm

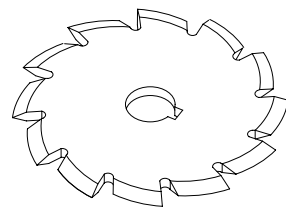


Finer pitches available. Please inquire.

FRW20 SERIES (continued) DP 20° PA

Axial DP	Cutter Dia.	Size Hole	Point Width	Series
16	4	1-1/4	.046	FRW20-016-4
16	4	1	.046	FRW20-016-4A
16	4-1/2	1-1/4	.046	FRW20-016-4L
16	5	1-1/2	.046	FRW20-016-5
16	6	1-3/4	.046	FRW20-016-6
18	2-1/2	1-1/4	.041	FRW20-018-2
18	3	1	.041	FRW20-018-3A
18	4	1-1/4	.041	FRW20-018-4
18	4	1	.041	FRW20-018-4A
18	4-1/2	1-1/4	.041	FRW20-018-4L
20	2-1/2	1-1/4	.036	FRW20-020-2
20	3	1	.036	FRW20-020-3A
20	4	1-1/4	.036	FRW20-020-4
20	4	1	.036	FRW20-020-4A
22	2-1/2	1-1/4	.033	FRW20-022-2
22	3	1	.033	FRW20-022-3A
24	2-1/2	1-1/4	.030	FRW20-024-2
24	3	1	.030	FRW20-024-3A
24	4	1-1/4	.030	FRW20-024-4
32	2-1/2	1-1/4	.023	FRW20-032-2
48	2-1/2	1-1/4	.015	FRW20-048-2
64	2-1/2	1-1/4	.011	FRW20-064-2
72	2-1/2	1-1/4	.010	FRW20-072-2
96	2-1/2	1-1/4	.008	FRW20-096-2

Blank Stock, Rack/Worm



Top ground to your special point width by Ash Gear or at your facility.

FX20 SERIES 20° PA

Cutter Dia.	Width	Size Hole	Point Width	DP Range	Series
3-1/4	.352	1	.040	8-18	FX20-325
4-1/4	.190	1	.015	16-48	FX20-425
5-1/4	.190	1-1/4	.011	13-64	FX20-525
6-1/4	.730	1-1/2	.015	3-48	FX20-625
7-1/4	1.200	1-3/4	.091	2-8	FX20-725
7-1/4	1.200	1-3/4	.091	2-8	FX20-775