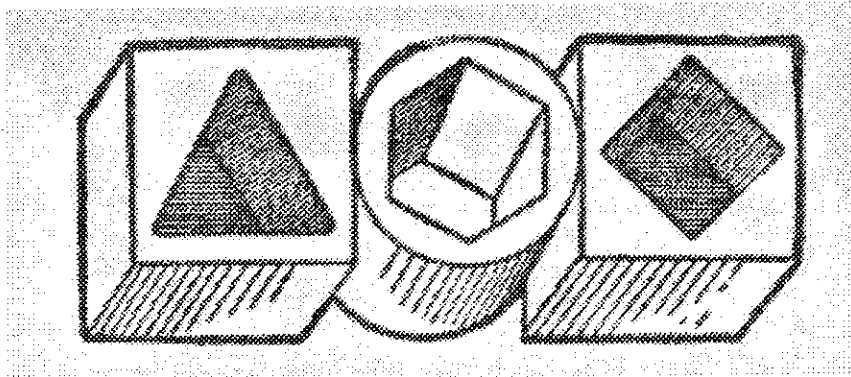


WATTS BROTHERS TOOL WORKS INC.

PRICE LIST

FEBRUARY 2004



WATTS ANGULAR DRILLS

SIZE	SQUARE DRILLS	HEXAGON DRILLS	T-15 HEXAGON DRILLS
0.190		\$36.52	\$40.20
1/4	\$33.66	\$36.52	\$40.27
17/64	\$34.87	\$37.18	\$40.93
9/32	\$36.08	\$38.17	
19/64	\$37.07	\$38.83	
5/16	\$38.17	\$39.71	
21/64	\$39.16	\$41.14	\$44.89
11/32	\$40.26	\$42.68	
23/64	\$41.14	\$44.33	
3/8	\$42.13	\$45.76	
25/64	\$43.34	\$46.86	\$50.61
13/32	\$43.56	\$48.18	
27/64	\$45.98	\$49.61	
7/16	\$47.30	\$50.38	
29/64	\$48.29	\$52.36	\$63.61
15/32	\$49.72	\$54.56	
31/64	\$51.26	\$55.66	
1/2	\$52.69	\$56.21	
33/64	\$54.23	\$57.42	\$68.67
17/32	\$55.99	\$57.86	
35/64	\$57.42	\$62.26	
9/16	\$58.96	\$63.91	
37/64	\$60.94	\$66.44	\$88.08
19/32	\$63.36	\$68.20	
39/64	\$65.34	\$70.73	
5/8	\$67.32	\$73.04	
41/64	\$69.30	\$76.01	\$91.01
21/32	\$73.04	\$79.20	
43/64	\$75.90	\$82.06	
11/16	\$78.54	\$85.14	
45/64	\$80.41	\$87.23	

NOTE: FOR DRILLS LARGER THAN STANDARD SIZE USE PRICE OF NEXT LARGER SIZE

WATTS ANGULAR DRILLS

SIZE	SQUARE DRILLS	HEXAGON DRILLS	T-15 HEXAGON DRILLS
23/32	\$82.39	\$89.10	
47/64	\$84.04	\$91.30	
3/4	\$85.69	\$93.06	
49/64	\$87.67	\$95.26	\$110.26
25/32	\$89.65	\$97.24	
51/64	\$91.52	\$99.11	
13/16	\$93.50	\$101.09	
53/64	\$95.70	\$103.18	
27/32	\$97.68	\$105.49	
55/64	\$100.10	\$107.47	
7/8	\$102.19	\$109.67	
57/64	\$105.60	\$113.30	\$135.80
29/32	\$108.79	\$116.60	
59/64	\$112.09	\$120.23	
15/16	\$115.06	\$123.86	
61/64	\$118.69	\$127.38	
31/32	\$122.32	\$130.79	
63/64	\$125.84	\$134.42	
1	\$129.25	\$137.83	
1-1/64	\$132.22	\$140.89	\$163.19
1-1/32	\$135.30	\$143.44	
1-3/64	\$138.16	\$146.52	
1-1/16	\$141.02	\$149.38	
1-5/64	\$143.88	\$152.35	\$182.35
1-3/32	\$146.96	\$155.21	
1-7/64	\$149.93	\$157.96	
1-1/8	\$153.01	\$161.04	
1-9/64	\$156.20	\$163.90	\$208.90
1-5/32	\$159.06	\$166.98	
1-11/64	\$161.92	\$169.62	
1-3/16	\$165.00	\$172.70	

NOTE: FOR DRILLS LARGER THAN STANDARD SIZE USE PRICE OF NEXT LARGER SIZE

WATTS ANGULAR DRILLS

SIZE	SQUARE DRILLS	HEXAGON DRILLS	T-15 HEXAGON DRILLS
1-13/64	\$167.86	\$175.56	
1-7/32	\$170.94	\$178.64	
1-15/64	\$174.02	\$181.61	
1-1/4	\$176.77	\$184.58	
1-17/64	\$179.74	\$187.22	232.22
1-9/32	\$182.71	\$190.19	
1-19/64	\$185.68	\$193.16	
1-5/16	\$188.65	\$196.13	
1-21/64	\$191.62	\$199.10	
1-11/32	\$194.59	\$201.74	
1-23/64	\$197.56	\$204.71	
1-3/8	\$200.64	\$207.68	
1-25/64	\$203.80	\$210.65	\$260.65
1-13/32	\$206.36	\$213.40	
1-27/64	\$209.22	\$216.48	
1-7/16	\$212.41	\$219.23	
1-29/64	\$215.27	\$222.31	
1-15/32	\$218.35	\$225.17	
1-31/64	\$221.54	\$228.25	
1-1/2	\$234.74	\$241.45	
1-33/64	\$237.71	\$244.42	\$319.42
1-17/32	\$240.90	\$247.61	
1-35/64	\$243.98	\$250.58	
1-9/16	\$247.06	\$253.66	
1-37/64	\$250.25	\$245.74	
1-19/32	\$253.44	\$259.93	
1-39/64	\$256.63	\$262.90	

NOTE: FOR DRILLS THAT ARE BETWEEN STANDARD SIZES, USE PRICE OF NEXT LARGER SIZE.

WATTS ANGULAR DRILLS

SIZE	SQUARE	HEXAGON	T-15 HEXAGON DRILLS
1-5/8	\$259.82	\$266.09	
1-41/64	\$262.90	\$268.51	
1-21/32	\$266.09	\$271.92	368.51
1-43/64	\$268.73	\$275.00	
1-11/16	\$272.47	\$278.30	
1-45/64	\$275.66	\$281.27	
1-23/32	\$278.74	\$284.35	
1-47/64	\$281.60	\$287.32	
1-3/4	\$284.90	\$290.40	
1-49/64	\$287.87	\$293.48	
1-25/32	\$291.17	\$296.56	
1-51/64	\$294.36	\$299.64	
1-13/16	\$297.55	\$302.94	405.47
1-53/64	\$300.41	\$305.47	
1-27/32	\$303.60	\$308.77	
1-55/64	\$306.13	\$311.74	
1-7/8	\$309.76	\$315.04	
1-57/64	\$313.06	\$318.01	\$453.01
1-29/32	\$316.25	\$320.87	
1-59/64	\$319.33	\$323.95	
1-15/16	\$322.52	\$327.14	
1-61/64	\$325.49	\$330.11	
1-31/32	\$328.68	\$333.41	
1-63/64	\$331.98	\$336.38	
2	\$335.17	\$339.35	

NOTE: FOR DRILLS LAEGER THAN STANDARD SIZE USE PRICE OF NEXT LARGER SIZE

WATTS ANGULAR DRILLS

SIZE	SQUARE DRILL	HEXAGON DRILL	T-15 HEXAGON DRILLS
2-1/64	\$367.84	\$371.58	
2-1/32	\$377.41	\$380.16	
2-3/64	\$385.00	\$388.74	
2-1/16	\$391.15	\$396.11	
2-5/64	\$401.39	\$398.86	
2-3/32	\$412.94	\$418.22	
2-7/64	\$424.82	\$429.88	
2-1/8	\$435.27	\$440.44	
2-9/64	\$443.30	\$446.16	
2-5/32	\$448.14	\$452.21	
2-11/64	\$452.43	\$457.49	
2-3/16	\$457.38	\$461.01	
2-13/64	\$462.88	\$465.30	
2-7/32	\$467.28	\$469.59	
2-15/64	\$471.13	\$473.44	
2-1/4	\$474.98	\$477.84	
2-1/2		\$511.50	

SIZE OF DRILLS BASED ON THE DISTANCE ACROSS FLATS

NOTE: FOR DRILLS LARGER THAN STANDARD SIZE USE PRICE OF NEXT LARGER SIZE

WATTS FULL FLOATING CHUCKS

	RANGE OF DRILLS	MORSE TAPER	PRICE
NO.1	3/16 TO 7/16	NO.1 OR 2	\$233.70
NO.2	29/64 TO 11/16	NO.2	\$297.50
NO.3	45/64 TO 15/16	NO.3	\$240.40 340.40
NO.4	61/64 TO 1-1/4	NO.4	\$398.70
NO.5	1-17/64 TO 2-1/2	NO.5	\$516.40

NOTE: THE ABOVE CHUCKS FLOAT SQUARE, HEX, AND OCTAGON DRILLS IN THE SIZES LISTED

WATTS GUIDE PLATES

	SIZE SQUARE, HEXAGON	STANDARD PRICE	STEEPCUT PRICE
NO.1	1/4 TO 7/16	\$41.69	\$43.42
NO.2	29/64 TO 15/16	\$52.80	\$60.06
NO.3	45/64 TO 1-3/8	\$78.76	\$88.22
NO.4	1-25/64 TO 1-1/4	\$116.05	\$133.54
NO.5	1-17/64 TO 2	\$135.08	\$160.16

DIMENSIONS OF GUIDE PLATES

STANDARD GUIDE PLATES				STEP-CUT GUIDE PLATES			
	O.D.	THICKNESS	(A)	LG.DIA.	S/C DIA.	(A)	THICKNESS
NO.1	1.500	7/16	1-3/16	1.500	1	1-3/16	7/16
NO.2	2.360	9/16	2-1/16	2.360	1-3/4	2-1/16	9/16
NO.3	2.937	11/16	2-17/32	2.937	2-1/4	2-17/32	11/16
NO.4	3.437	7/8	3-1/32	3.437	2-3/4	3-1/32	7/8
NO.5	4.500	1	4-1/32	4.500	3-5/8	4-1/32	1

(A): DISTANCE FROM CENTER TO CENTER OF DOWEL PIN HOLES.

NOTE: THE STEP-CUTTING OF THE GUIDE PLATE IS EQUALLY DIVIDED. FOR EXAMPLE,
A GUIDE PLATE 1/2 INCH THICK WOULD BE FURNISHED WITH THE LARGE DIAMETER 1/4 INCH THICK
AND THE SMALLER DIAMETER 1/4 INCH THICK.

WATTS SLIP BUSHING

	DRILL RANGE	STANDARD	OVERSIZE
NO.1	1/4 TO 7/16	\$14.52	\$17.38
NO.2	3/64 TO 15/16	\$23.87	\$28.60
NO.3	1/64 TO 1-3/8	\$35.31	\$42.35
NO.4	5/64 TO 1-3/4	\$41.14	\$49.39
NO.5	1-49/64 TO 2	\$45.43	\$54.56

NOTE: SLIP BUSHINGS ARE USED TO FACILITATE IN SETTING UP AND DRILLING THE LEAD HOLE IN DRILL PRESS WORK. THE LEAD HOLE MUST BE IN THE CENTER OF THE ANGULAR HOLE TO BE DRILLED.

WATTS GUIDE HOLDER

SIZE	O.D.	MAX. BORE	MAX BORE	STD.	STD.	STEP-CUT	STEP-CUT
		STD.	STEP-CUT		SPECIAL	SPECIAL	
1	2-1/16	1	1-3/8	\$38.20	\$45.80	\$52.90	\$63.50
2	3	1-3/4	2	\$57.80	\$69.40	\$72.30	\$86.80
3	4	2-1/4	2-3/4	\$86.70	\$104.00	\$105.90	\$127.10
4	4-1/2	2-3/4	3-1/4	\$125.00	\$150.00	\$144.20	\$173.00
5	5-1/2	3-5/8	4-3/4	\$183.60	\$220.30	\$205.60	\$246.70

BORES OTHER THAN STD. USE SPECIAL PRICE

STD. BORE	
NO.1	9/16
NO.2	3/4
NO.3	1-3/4
NO.4	1-3/4
NO.5	1-3/4

WATTS SHARPENING SERVICE

SIZE

1/4 TO 39/64"	\$7.26
5/8 TO 15/16"	\$9.68
61/64 TO 1-9/16"	\$12.10
1-37/64 TO 2"	\$14.52
2-1/64 TO 2-1/4"	\$22.00
2-17/64 TO 2-1/2"	\$22.00

NOTE: MAJOR AND MINOR GRIND IS DETERMINED BY THE TIME REQUIRED TO SHARPEN THE DRILL.

SMALL ORDERS CAN BE TURNED AROUND THE SAME DAY