



Jobber Length - High Speed Steel

BLACK & GOLD

- Industrial-duty
- Straight shank, 2-flute design
- Right hand cutting direction
- 135° split point, self-centering eliminates walking
- Two-tone treatment increases resistance to abrasion and chip flow

Applications:

General purpose and heavy drilling operations. Ideal for ferrous metals: steel, cast iron, ferrous metals and alloys, non-metallic material.

CLARKSON OSBORN



Model No.	Fractional Size"	Decimal Size"	L2"	L1"	Price /Each
QD657	1/64	0.0156	3/16	13/16	
QD658	1/32	0.0312	13/32	13/16	
QD659	3/64	0.0469	7/8	17/8	
QD660	1/16	0.0625	7/8	17/8	
QD661	5/64	0.0781	1	2	
QD662	3/32	0.0938	1 1/4	2 1/4	
QD663	7/64	0.1094	1 1/2	2 5/8	
QD664	1/8	0.1250	1 5/8	2 3/4	
QD665	9/64	0.1406	1 3/4	2 7/8	
QD666	5/32	0.1562	2	3 1/8	
QD667	11/64	0.1719	2 1/8	3 1/4	
QD668	3/16	0.1875	2 5/16	3 1/2	
QD669	13/64	0.2031	2 7/16	3 5/8	
QD670	7/32	0.2188	2 1/2	3 3/4	
QD671	15/64	0.2344	2 5/8	3 7/8	
QD672	1/4	0.2500	2 3/4	4	
QD673	17/64	0.2656	2 7/8	4 1/8	
QD674	9/32	0.2812	2 15/16	4 1/4	
QD675	19/64	0.2969	3 1/16	4 3/8	
QD676	5/16	0.3125	2 3/16	4 1/2	
QD677	21/64	0.3281	3 5/16	4 5/8	
QD678	11/32	0.3438	3 7/16	4 3/4	
QD679	23/64	0.3594	3 1/2	4 7/8	

Model No.	Wire Ga. Size	Decimal Size"	L2"	L1"	Price /Each
BF675	80	0.0135	5/32	3/4	
BF674	79	0.0145	5/32	3/4	
BF673	78	0.0160	3/16	13/16	
BF672	77	0.0180	3/16	13/16	
BF671	76	0.0200	1/4	7/8	
BF670	75	0.0210	9/32	15/16	
BF669	74	0.0225	9/32	15/16	
BF668	73	0.0240	5/16	1	
BF667	72	0.0250	5/16	1	
BF666	71	0.0260	5/16	1	
BF665	70	0.0280	11/32	1 1/8	
BF664	69	0.0292	11/32	1 1/8	
BF663	68	0.0310	13/32	1 3/16	
BF662	67	0.0320	13/32	1 3/16	
BF661	66	0.0330	13/32	1 3/16	
QD721	65	0.0350	7/16	1 1/4	
BF660	64	0.0360	7/16	1 1/4	
BF659	63	0.0370	7/16	1 1/4	
BF658	62	0.0380	15/32	1 5/16	
BF657	61	0.0390	15/32	1 5/16	
BF656	60	0.0400	11/16	1 5/8	
BF655	59	0.0410	11/16	1 5/8	
BF654	58	0.0420	11/16	1 5/8	
BF653	57	0.0430	3/4	1 3/4	
BF652	56	0.0465	3/4	1 3/4	
BF651	55	0.0520	7/8	1 7/8	
BF650	54	0.0550	7/8	1 7/8	
BF649	53	0.0595	7/8	1 7/8	
BF648	52	0.0635	7/8	1 7/8	
QD720	51	0.0670	1	2	
BF647	50	0.0700	1	2	
QD719	49	0.0730	1	2	
BF646	48	0.0760	1	2	
QD718	47	0.0785	1	2	
BF645	46	0.0810	1 1/8	2 1/8	
BF644	45	0.0820	1 1/8	2 1/8	
BF643	44	0.0860	1 1/8	2 1/8	
QD717	43	0.0890	1 1/4	2 1/4	
QD716	42	0.0935	1 1/4	2 1/4	
BF642	41	0.0960	1 3/8	2 3/8	

Model No.	Letter Size	Decimal Size"	L2"	L1"	Price /Each
BF603	A	0.2340	2 5/8	3 7/8	
BF604	B	0.2380	2 3/4	4	
BF605	C	0.2420	2 3/4	4	
BF606	D	0.2460	2 3/4	4	
-	E	0.2500	2 3/4	4	
BF608	F	0.2570	2 7/8	4 1/8	
BF609	G	0.2610	2 7/8	4 1/8	
BF610	H	0.2660	2 7/8	4 1/8	
BF611	I	0.2720	2 7/8	4 1/8	
BF612	J	0.2770	2 7/8	4 1/8	
BF613	K	0.2810	2 15/16	4 1/4	
BF614	L	0.2900	2 15/16	4 1/4	
BF615	M	0.2950	3 1/16	4 3/8	

Model No.	Fractional Size"	Decimal Size"	L2"	L1"	Price /Each
QD680	3/8	0.3750	3 5/8	5	
QD681	25/64	0.3906	3 3/4	5 1/8	
QD682	13/32	0.4062	3 7/8	5 1/4	
QD683	27/64	0.4219	3 15/16	5 3/8	
QD684	7/16	0.4375	4 1/16	5 1/2	
QD685	29/64	0.4531	4 3/16	5 5/8	
QD686	15/32	0.4688	4 5/16	5 3/4	
QD687	31/64	0.4844	4 3/8	5 7/8	
QD688	1/2	0.5000	4 1/2	6	
BF590	33/64	0.5156	4 13/16	6 5/8	
BF591	17/32	0.5313	4 13/16	6 5/8	
BF592	35/64	0.5469	4 13/16	6 5/8	
BF593	9/16	0.5625	4 13/16	6 5/8	
BF594	37/64	0.5781	4 13/16	6 5/8	
BF595	19/32	0.5938	5 3/16	7 1/8	
BF596	39/64	0.6094	5 3/16	7 1/8	
BF597	5/8	0.6250	5 3/16	7 1/8	
BF598	41/64	0.6406	5 3/16	7 1/8	
BF599	21/32	0.6563	5 3/16	7 1/8	
BF600	43/64	0.6719	5 5/8	7 5/8	
BF601	11/16	0.6875	5 5/8	7 5/8	
BF602	3/4	0.7500	5 1/2	8 1/16	

Model No.	Wire Ga. Size	Decimal Size"	L2"	L1"	Price /Each
BF641	40	0.0980	1 3/8	2 3/8	
QD715	39	0.0995	1 3/8	2 3/8	
BF640	38	0.1015	1 7/16	2 1/2	
BF639	37	0.1040	1 7/16	2 1/2	
QD714	36	0.1065	1 7/16	2 1/2	
QD713	35	0.1100	1 1/2	2 5/8	
BF638	34	0.1110	1 1/2	2 5/8	
BF637	33	0.1130	1 1/2	2 5/8	
QD712	32	0.1160	1 5/8	2 3/4	
QD711	31	0.1200	1 5/8	2 3/4	
QD709	29	0.1360	1 3/4	2 7/8	
BF636	28	0.1405	1 3/4	2 7/8	
BF635	27	0.1440	1 7/8	3	
QD708	26	0.1470	1 7/8	3	
QD707	25	0.1495	1 7/8	3	
QD706	24	0.1520	2	3 1/8	
QD705	23	0.1540	2	3 1/8	
QD704	22	0.1570	2	3 1/8	
QD703	21	0.1590	2 1/8	3 1/4	
QD702	20	0.1610	2 1/8	3 1/4	
BF634	19	0.1660	2 1/8	3 1/4	
QD701	18	0.1695	2 1/8	3 1/4	
BF633	17	0.1730	2 3/16	3 3/8	
QD700	16	0.1770	2 3/16	3 3/8	
QD699	15	0.1800	2 3/16	3 3/8	
QD698	14	0.1820	2 3/16	3 3/8	
QD697	13	0.1850	2 5/16	3 1/2	
QD696	12	0.1890	2 5/16	3 1/2	
QD695	11	0.1910	2 5/16	3 1/2	
QD694	10	0.1935	2 7/16	3 5/8	
BF632	9	0.1960	2 7/16	3 5/8	
BF631	8	0.1990	2 7/16	3 5/8	
QD693	7	0.2010	2 7/16	3 5/8	
BF630	6	0.2040	2 1/2	3 3/4	
BF629	5	0.2055	2 1/2	3 3/4	
QD692	4	0.2090	2 1/2	3 3/4	
QD691	3	0.2130	2 1/2	3 3/4	
BF628	2	0.2210	2 5/8	3 7/8	
BF627	1	0.2280	2 5/8	3 7/8	

Model No.	Letter Size	Decimal Size"	L2"	L1"	Price /Each
QD689	N	0.3020	3 1/16	4 3/8	
BF616	O	0.3160	3 3/16	4 1/2	
BF617	P	0.3230	3 5/16	4 5/8	
BF618	Q	0.3320	3 7/16	4 3/4	
BF619	R	0.3390	3 7/16	4 3/4	
QD690	S	0.3480	3 1/2	4 7/8	
BF620	T	0.3580	3 1/2	4 7/8	
BF621	U	0.3680	3 5/8	5	
BF622	V	0.3770	3 5/8	5	
BF623	W	0.3860	3 3/4	5 1/8	
BF624	X	0.3970	3 3/4	5 1/8	
BF625	Y	0.4040	3 7/8	5 1/4	
BF626	Z	0.4130	3 7/8	5 1/4	