

HEAVY-DUTY & TITANIUM NITRIDE PARABOLIC FLUTE

Type 190-P

135° Split Point - Black Oxide

- Parabolic flute drills are designed to allow deep hole drilling without frequent drill removal to clear chips.
- Parabolic flute drills perform best in low to medium tensile strength materials.



Type 190-PT

135° Split Point - Titanium Nitride Coated

- Parabolic flute drills are designed to allow deep hole drilling without frequent drill removal to clear chips.
- Exceptional high performance drill with the super hard TiN coating extends tool life 500% or more in very abrasive drilling applications.



Type 190-P Black Oxide		Type 190-PT Titanium Nitride		FRACTIONAL		Type 190-P Black Oxide	Type 190-PT Titanium Nitride
Part Number	Part Number	Diameter Inches	Overall Length Inches	Flute Length Inches		Qty. per/Pack	Qty. per/Pack
36800	37870	1/16	1-7/8	7/8		12	6
36810	37880	5/64	2	1		12	6
36820	37890	3/32	2-1/4	1-1/4		12	6
36830	37900	7/64	2-5/8	1-1/2		12	6
36840	37910	1/8	2-3/4	1-5/8		12	6
36850	37920	9/64	2-7/8	1-3/4		12	6
36860	37930	5/32	3-1/8	2		12	6
36870	37940	11/64	3-1/4	2-1/8		12	6
36880	37950	3/16	3-1/2	2-5/16		12	6
36890	37960	13/64	3-5/8	2-7/16		12	6
36900	37970	7/32	3-3/4	2-1/2		12	6
36910	37980	15/64	3-7/8	2-5/8		12	6
36920	37990	1/4	4	2-3/4		12	6
36930	38000	17/64	4-1/8	2-7/8		12	6
36940	38010	9/32	4-1/4	2-15/16		12	6
36950	38020	19/64	4-3/8	3-1/16		6	3
36960	38030	5/16	4-1/2	3-3/16		6	3
36970	38040	21/64	4-5/8	3-5/16		6	3
36980	38050	11/32	4-3/4	3-7/16		6	3
36990	38060	23/64	4-7/8	3-1/2		6	3
37000	38070	3/8	5	3-5/8		6	3
37010	38080	25/64	5-1/8	3-3/4		6	3
37020	38090	13/32	5-1/4	3-7/8		6	3
37030	38100	27/64	5-3/8	3-15/16		6	3
37040	38110	7/16	5-1/2	4-1/16		6	3
37050	38120	29/64	5-5/8	4-3/16		6	3
37060	38130	15/32	5-3/4	4-5/16		6	3
37070	38140	31/64	5-7/8	4-3/8		6	3
37080	38150	1/2	6	4-1/2		6	3
Type 190-P Black Oxide		Type 190-PT Titanium Nitride		WIRE		Type 190-P Black Oxide	Type 190-PT Titanium Nitride
Part Number	Part Number	Wire Sizes	Overall Length Inches	Flute Length Inches		Qty. per/Pack	Qty. per/Pack
68161	68162	1	3-7/8	2-5/8		12	6
68171	68172	2	3-7/8	2-5/8		12	6
68171	68172	3	3-3/4	2-1/2		12	6
68181	68182	4	3-3/4	2-1/2		12	6
68191	68192	5	3-3/4	2-1/2		12	6
68201	68202	6	3-3/4	2-1/2		12	6
58421	58422	7	3-5/8	2-7/16		12	6
68211	68212	8	3-5/8	2-7/16		12	6
68221	68222	9	3-5/8	2-7/16		12	6
68231	68232	10	3-5/8	2-7/16		12	6
68241	68242	11	3-1/2	2-5/16		12	6
68251	68252	12	3-1/2	2-5/16		12	6
68261	68262	13	3-1/2	2-5/16		12	6
68271	68272	14	3-3/8	2-3/16		12	6
68281	68282	15	3-3/8	2-3/16		12	6
68291	68292	16	3-3/8	2-3/16		12	6

Wire sizes continued on page 26

Jobber Length

HEAVY-DUTY & TITANIUM NITRIDE PARABOLIC FLUTE

Type 190-P

135° Split Point - Black Oxide



Type 190-PT

135° Split Point - Titanium Nitride Coated



TiN

Twist Drills - Parabolic & TiN Coated Parabolic Flutes

Type 190-P Black Oxide		Type 190-PT Titanium Nitride		WIRE		Type 190-P Black Oxide	Type 190-PT Titanium Nitride
Part Number	Part Number	Wire Sizes	Overall Length Inches	Flute Length Inches	Qty. per/Pack	Qty. per/Pack	
68301	68302	17	3-3/8	2-3/16	12	6	
58591	58592	18	3-1/4	2-1/8	12	6	
68311	68312	19	3-1/4	2-1/8	12	6	
58381	58382	20	3-1/4	2-1/8	12	6	
58721	58722	21	3-1/4	2-1/8	12	6	
68321	68322	22	3-1/8	2	12	6	
68331	68332	23	3-1/8	2	12	6	
68341	68342	24	3-1/8	2	12	6	
58901	58902	25	3	1-7/8	12	6	
68351	68352	26	3	1-7/8	12	6	
68361	68362	27	3	1-7/8	12	6	
68371	68372	28	2-7/8	1-3/4	12	6	
37321	37322	29	2-7/8	1-3/4	12	6	
68381	68382	30	2-3/4	1-5/8	12	6	
68391	68392	31	2-3/4	1-5/8	12	6	
68401	68402	32	2-3/4	1-5/8	12	6	
58441	58442	33	2-5/8	1-1/2	12	6	
68411	68412	34	2-5/8	1-1/2	12	6	
68421	68422	35	2-5/8	1-1/2	12	6	
58581	58582	36	2-1/2	1-7/16	12	6	
37721	37722	37	2-1/2	1-7/16	12	6	
68431	68432	38	2-1/2	1-7/16	12	6	
58451	58452	39	2-3/8	1-3/8	12	6	
38321	38322	40	2-3/8	1-3/8	12	6	
Type 190-P Black Oxide		Type 190-PT Titanium Nitride		LETTER		Type 190-P Black Oxide	Type 190-PT Titanium Nitride
Part Number	Part Number	Letter Sizes	Overall Length Inches	Flute Length Inches	Qty. per/Pack	Qty. per/Pack	
70880	58372	A	3-7/8	2-5/8	12	6	
70890	58402	B	4	2-3/4	12	6	
70900	58412	C	4	2-3/4	12	6	
70910	58462	D	4	2-3/4	12	6	
71950	58472	E	4	2-3/4	12	6	
58481	58482	F	4-1/8	2-7/8	12	6	
70920	58492	G	4-1/8	2-7/8	12	6	
70930	58512	H	4-1/8	2-7/8	12	6	
70940	58532	I	4-1/8	2-7/8	12	6	
70950	58542	J	4-1/8	2-7/8	12	6	
71960	58552	K	4-1/4	2-15/16	12	6	
70960	58562	L	4-1/4	2-15/16	12	6	
70970	58572	M	4-3/8	3-1/16	6	3	
70980	58602	N	4-3/8	3-1/16	6	3	
70990	58612	O	4-1/2	3-3/16	6	3	
71000	58622	P	4-5/8	3-5/16	6	3	
71010	58632	Q	4-3/4	3-7/16	6	3	
71020	58642	R	4-3/4	3-7/16	6	3	
71030	58652	S	4-7/8	3-1/2	6	3	
71040	58662	T	4-7/8	3-1/2	6	3	
71050	58672	U	5	3-5/8	6	3	
71060	58732	V	5	3-5/8	6	3	
71070	58682	W	5-1/8	3-3/4	6	3	
72000	58692	X	5-1/8	3-3/4	6	3	
71080	58702	Y	5-1/4	3-7/8	6	3	
71090	58712	Z	5-1/4	3-7/8	6	3	