



OSG GROUP COMPANY

<b>Code</b>
<b>177</b>

<b>Properties</b>	
	Standard Point Pointe Standard Standardspitze Punta estándar Стандартная вершина sizes below 2.5mm
	Split Point Pointe en croix Kreuzanschliff Punta afilada en cruz Вершина Split Point 2.5mm and above

<b>mm</b> <b>inch</b>	<b>DIN 338</b>	<b>HSS Co5</b>
	<b>TYPE N</b>	
	<b>33°</b>	<b>GOLD OXIDE FINISH</b>
<b>BRIGHT FINISH WITH TIN TIP</b>	<b>TIN</b>	<b>BRIGHT FINISH WITH TiAIN TIP</b>
<b>TiAIN</b>		

<b>Cutting Data</b>	
pg 42	



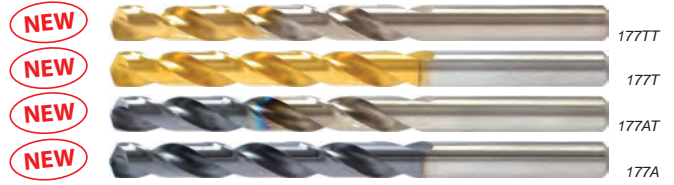
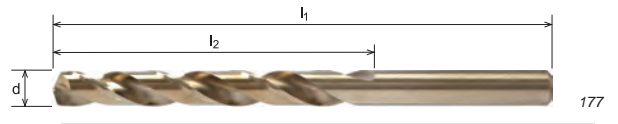
**EN** **NDX Jobber Drills - Heavy Duty**  
For drilling high tensile steels and other difficult materials.

**FR** **Forets Courts NDX - à Grand Rendement**  
Pour le perçage dans des aciers à résistance élevée et autres matériaux difficiles.

**DE** **NDX-Spiralbohrer kurz - Schwereinsatz**  
Für das Bohren von hochzugfesten Stählen und anderen schwierigen Werkstoffen.

**ES** **Brocas corrientes NDX - Uso intensivo**  
Para el taladrado de aceros altamente maleables y de otros materiales difíciles.

**PY** **Сверла NDX средней серии с цилиндрическим хвостовиком**  
- труднообрабатываемые материалы  
Для сверления высокопрочных сталей и других труднообрабатываемых материалов.



P				M				K				Ti			Ni			Cu				N				Syn						
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3

d	l2		l1	Code					MOQ	Qty
	mm	inch		Gold Oxide Finish	Bright Finish with TiN Tip	TiN	Bright Finish with TiAIN Tip	TiAIN		
1	12	34	1770100	1770100TT	1770100T	1770100AT	1770100A	100	10	
1.1	14	36	1770110					100	10	
1.2	16	38	1770120					100	10	
1.3	16	38	1770130					100	10	
1.4	18	40	1770140					100	10	
1.5	18	40	1770150	1770150TT	1770150T	1770150AT	1770150A	100	10	
1.587	1/16	20	1770159	1770159TT	1770159T	1770159AT	1770159A	100	10	
1.6	20	43	1770160	1770160TT	1770160T	1770160AT	1770160A	100	10	
1.7	20	43	1770170	1770170TT	1770170T	1770170AT	1770170A	100	10	
1.8	22	46	1770180	1770180TT	1770180T	1770180AT	1770180A	100	10	
1.85	22	46	1770185					100	10	
1.9	22	46	1770190	1770190TT	1770190T	1770190AT	1770190A	100	10	
1.984	5/64	24	1770198	1770198TT	1770198T	1770198AT	1770198A	100	10	
2	24	49	1770200	1770200TT	1770200T	1770200AT	1770200A	100	10	
2.1	24	49	1770210	1770210TT	1770210T	1770210AT	1770210A	100	10	
2.2	27	53	1770220	1770220TT	1770220T	1770220AT	1770220A	100	10	
2.3	27	53	1770230	1770230TT	1770230T	1770230AT	1770230A	100	10	
2.381	3/32	30	1770238	1770238TT	1770238T	1770238AT	1770238A	100	10	
2.4	30	57	1770240	1770240TT	1770240T	1770240AT	1770240A	100	10	
2.5	30	57	1770250	1770250TT	1770250T	1770250AT	1770250A	100	10	
2.6	30	57	1770260	1770260TT	1770260T	1770260AT	1770260A	100	10	
2.7	33	61	1770270	1770270TT	1770270T	1770270AT	1770270A	100	10	
2.778	7/64	33	1770278	1770278TT	1770278T	1770278AT	1770278A	100	10	
2.8	33	61	1770280	1770280TT	1770280T	1770280AT	1770280A	100	10	
2.9	33	61	1770290	1770290TT	1770290T	1770290AT	1770290A	100	10	
2.95	33	61	1770295					100	10	
3	33	61	1770300	1770300TT	1770300T	1770300AT	1770300A	100	10	
3.1	36	65	1770310					100	10	
3.175	1/8	36	1770318	1770318TT	1770318T	1770318AT	1770318A	100	10	
3.2	36	65	1770320	1770320TT	1770320T	1770320AT	1770320A	100	10	
3.25	36	65	1770325					100	10	
3.3	36	65	1770330	1770330TT	1770330T	1770330AT	1770330A	100	10	
3.4	39	70	1770340	1770340TT	1770340T	1770340AT	1770340A	100	10	
3.5	39	70	1770350	1770350TT	1770350T	1770350AT	1770350A	100	10	
3.572	9/64	39	1770357	1770357TT	1770357T	1770357AT	1770357A	100	10	
3.6	39	70	1770360	1770360TT	1770360T	1770360AT	1770360A	100	10	
3.7	39	70	1770370	1770370TT	1770370T	1770370AT	1770370A	100	10	
3.8	43	75	1770380	1770380TT	1770380T	1770380AT	1770380A	100	10	
3.9	43	75	1770390	1770390TT	1770390T	1770390AT	1770390A	100	10	
3.969	5/32	43	1770397	1770397TT	1770397T	1770397AT	1770397A	100	10	
4	43	75	1770400	1770400TT	1770400T	1770400AT	1770400A	100	10	
4.1	43	75	1770410	1770410TT	1770410T	1770410AT	1770410A	100	10	
4.2	43	75	1770420	1770420TT	1770420T	1770420AT	1770420A	100	10	
4.25	43	75	1770425					100	10	
4.3	47	80	1770430	1770430TT	1770430T	1770430AT	1770430A	100	10	
4.366	11/64	47	1770437	1770437TT	1770437T	1770437AT	1770437A	100	10	
4.4	47	80	1770440	1770440TT	1770440T	1770440AT	1770440A	100	10	
4.5	47	80	1770450	1770450TT	1770450T	1770450AT	1770450A	100	10	
4.6	47	80	1770460	1770460TT	1770460T	1770460AT	1770460A	100	10	
4.7	47	80	1770470	1770470TT	1770470T	1770470AT	1770470A	100	10	
4.762	3/16	52	1770476	1770476TT	1770476T	1770476AT	1770476A	100	10	
4.8	52	86	1770480	1770480TT	1770480T	1770480AT	1770480A	100	10	
4.9	52	86	1770490	1770490TT	1770490T	1770490AT	1770490A	100	10	
5	52	86	1770500	1770500TT	1770500T	1770500AT	1770500A	100	10	
5.1	52	86	1770510	1770510TT	1770510T	1770510AT	1770510A	100	10	

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STRAIGHT SHANK DRILLS



shaping your dreams

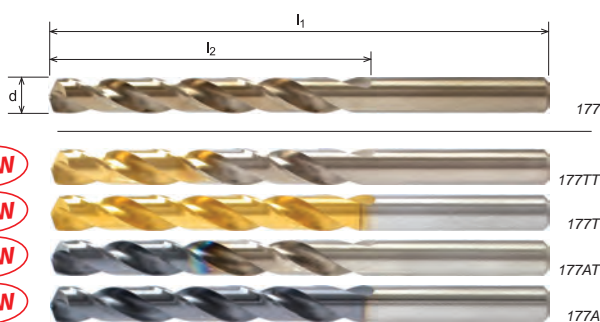
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P								M				K				Ti			Ni			Cu				N				Syn		
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3
●	●	●	●	○	○			○	○	○		●	●	●	●							○	○	○	○	○	○	○	○			

d		l <sub>2</sub>	l <sub>1</sub>	Code				MOQ	Qty
mm	inch			Gold Oxide Finish	Bright Finish with TiN Tip	TiN	Bright Finish with TiAlN Tip		

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5.159	13/64	52	86	1770516	1770516TT	1770516T	1770516AT	1770516A	100	10
5.2		52	86	1770520	1770520TT	1770520T	1770520AT	1770520A	100	10
5.3		52	86	1770530	1770530TT	1770530T	1770530AT	1770530A	100	10
5.4		57	93	1770540	1770540TT	1770540T	1770540AT	1770540A	100	10
5.5		57	93	1770550	1770550TT	1770550T	1770550AT	1770550A	100	10
5.556	7/32	57	93	1770556	1770556TT	1770556T	1770556AT	1770556A	100	10
5.6		57	93	1770560	1770560TT	1770560T	1770560AT	1770560A	100	10
5.7		57	93	1770570	1770570TT	1770570T	1770570AT	1770570A	100	10
5.8		57	93	1770580	1770580TT	1770580T	1770580AT	1770580A	100	10
5.9		57	93	1770590	1770590TT	1770590T	1770590AT	1770590A	100	10
5.953	15/64	57	93	1770595	1770595TT	1770595T	1770595AT	1770595A	100	10
6		57	93	1770600	1770600TT	1770600T	1770600AT	1770600A	100	10
6.1		63	101	1770610	1770610TT	1770610T	1770610AT	1770610A	50	10
6.2		63	101	1770620	1770620TT	1770620T	1770620AT	1770620A	50	10
6.25		63	101	1770625					50	10
6.3		63	101	1770630	1770630TT	1770630T	1770630AT	1770630A	50	10
6.350	1/4	63	101	1770635	1770635TT	1770635T	1770635AT	1770635A	50	10
6.4		63	101	1770640	1770640TT	1770640T	1770640AT	1770640A	50	10
6.5		63	101	1770650	1770650TT	1770650T	1770650AT	1770650A	50	10
6.6		63	101	1770660	1770660TT	1770660T	1770660AT	1770660A	50	10
6.7		63	101	1770670	1770670TT	1770670T	1770670AT	1770670A	50	10
6.747	17/64	69	109	1770675	1770675TT	1770675T	1770675AT	1770675A	50	10
6.8		69	109	1770680	1770680TT	1770680T	1770680AT	1770680A	50	10
6.9		69	109	1770690	1770690TT	1770690T	1770690AT	1770690A	50	10
7		69	109	1770700	1770700TT	1770700T	1770700AT	1770700A	50	10
7.1		69	109	1770710	1770710TT	1770710T	1770710AT	1770710A	50	10
7.2		69	109	1770720	1770720TT	1770720T	1770720AT	1770720A	50	10
7.3		69	109	1770730	1770730TT	1770730T	1770730AT	1770730A	50	10
7.4		69	109	1770740	1770740TT	1770740T	1770740AT	1770740A	50	10
7.5		69	109	1770750	1770750TT	1770750T	1770750AT	1770750A	50	10
7.541	19/64	75	117	1770754	1770754TT	1770754T	1770754AT	1770754A	50	10
7.6		75	117	1770760	1770760TT	1770760T	1770760AT	1770760A	50	10
7.7		75	117	1770770	1770770TT	1770770T	1770770AT	1770770A	50	10
7.8		75	117	1770780	1770780TT	1770780T	1770780AT	1770780A	50	10
7.9		75	117	1770790	1770790TT	1770790T	1770790AT	1770790A	50	10
7.937	5/16	75	117	1770794	1770794TT	1770794T	1770794AT	1770794A	50	10
8		75	117	1770800	1770800TT	1770800T	1770800AT	1770800A	50	10
8.1		75	117	1770810	1770810TT	1770810T	1770810AT	1770810A	50	10
8.2		75	117	1770820	1770820TT	1770820T	1770820AT	1770820A	50	10
8.25		75	117	1770825					50	10
8.3		75	117	1770830	1770830TT	1770830T	1770830AT	1770830A	50	10
8.334	21/64	75	117	1770833	1770833TT	1770833T	1770833AT	1770833A	50	10
8.4		75	117	1770840	1770840TT	1770840T	1770840AT	1770840A	50	10
8.5		75	117	1770850	1770850TT	1770850T	1770850AT	1770850A	50	10
8.6		81	125	1770860	1770860TT	1770860T	1770860AT	1770860A	50	10
8.7		81	125	1770870	1770870TT	1770870T	1770870AT	1770870A	50	10
8.731	11/32	81	125	1770873	1770873TT	1770873T	1770873AT	1770873A	50	10
8.8		81	125	1770880	1770880TT	1770880T	1770880AT	1770880A	50	10
8.9		81	125	1770890	1770890TT	1770890T	1770890AT	1770890A	50	10
9		81	125	1770900	1770900TT	1770900T	1770900AT	1770900A	50	10
9.1		81	125	1770910	1770910TT	1770910T	1770910AT	1770910A	50	10
9.2		81	125	1770920	1770920TT	1770920T	1770920AT	1770920A	50	10
9.3		81	125	1770930	1770930TT	1770930T	1770930AT	1770930A	50	10
9.4		81	125	1770940	1770940TT	1770940T	1770940AT	1770940A	50	10

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Code
177

Properties
Standard Point Pointe Standard Standardspitze Punta estándar Стандартная вершина sizes below 2.5mm
Split Point Pointe en croix Kreuzanschliff Punta afilada en cruz Вершина Split Point 2.5mm and above

mm inch	DIN 338	HSS Co5
5xD	TYPE N	130°
h8	33°	GOLD OXIDE FINISH
BRIGHT FINISH WITH TiN TIP	TiN	BRIGHT FINISH WITH TiAlN TIP
TiAlN		

Cutting Data	
pg 42	





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<b>Code</b>
<b>177</b>

<b>Properties</b>	
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	Split Point Pointe en croix Kreuzanschliff Punta afilada en cruz Вершина Split Point 2.5mm and above

<b>mm</b> <b>inch</b>	<b>DIN 338</b>	<b>HSS Co5</b>
	<b>TYPE N</b>	
	<b>33°</b>	<b>GOLD OXIDE FINISH</b>
<b>BRIGHT FINISH WITH TIN TIP</b>	<b>TIN</b>	<b>BRIGHT FINISH WITH TiAIN TIP</b>
<b>TiAIN</b>		

<b>Cutting Data</b>	
pg 42	



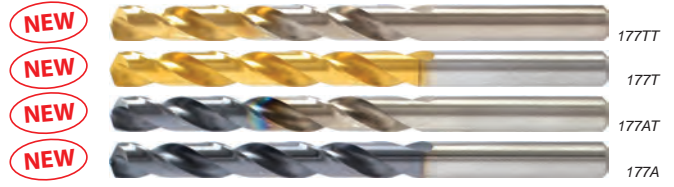
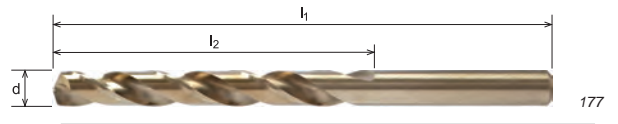
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P				M				K				Ti			Ni			Cu				N				Syn						
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3

d		l <sub>2</sub>	l <sub>1</sub>	Code					MOQ	Qty
mm	inch			Gold Oxide Finish	Bright Finish with TiN Tip	TiN	Bright Finish with TiAIN Tip	TiAIN		

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9.5	81	125	1770950	1770950TT	1770950T	1770950AT	1770950A	50	10	
9.525	3/8	87	1770953	1770953TT	1770953T	1770953AT	1770953A	50	5	
9.6	87	133	1770960	1770960TT	1770960T	1770960AT	1770960A	50	5	
9.7	87	133	1770970	1770970TT	1770970T	1770970AT	1770970A	50	5	
9.8	87	133	1770980	1770980TT	1770980T	1770980AT	1770980A	50	5	
9.9	87	133	1770990	1770990TT	1770990T	1770990AT	1770990A	50	5	
10	87	133	1771000	1771000TT	1771000T	1771000AT	1771000A	50	5	
10.1	87	133	1771010	1771010TT	1771010T	1771010AT	1771010A	25	5	
10.2	87	133	1771020	1771020TT	1771020T	1771020AT	1771020A	25	5	
10.3	87	133	1771030	1771030TT	1771030T	1771030AT	1771030A	25	5	
10.319	13/32	87	1771032	1771032TT	1771032T	1771032AT	1771032A	25	5	
10.4	87	133	1771040	1771040TT	1771040T	1771040AT	1771040A	25	5	
10.5	87	133	1771050	1771050TT	1771050T	1771050AT	1771050A	25	5	
10.6	87	133	1771060					25	5	
10.7	94	142	1771070	1771070TT	1771070T	1771070AT	1771070A	25	5	
10.8	94	142	1771080	1771080TT	1771080T	1771080AT	1771080A	25	5	
10.9	94	142	1771090					25	5	
11	94	142	1771100	1771100TT	1771100T	1771100AT	1771100A	25	5	
11.1	94	142	1771110	1771110TT	1771110T	1771110AT	1771110A	25	5	
11.112	7/16	94	1771111	1771111TT	1771111T	1771111AT	1771111A	25	5	
11.2	94	142	1771120	1771120TT	1771120T	1771120AT	1771120A	25	5	
11.3	94	142	1771130	1771130TT	1771130T	1771130AT	1771130A	25	5	
11.4	94	142	1771140	1771140TT	1771140T	1771140AT	1771140A	25	5	
11.5	94	142	1771150	1771150TT	1771150T	1771150AT	1771150A	25	5	
11.6	94	142	1771160					25	5	
11.7	94	142	1771170	1771170TT	1771170T	1771170AT	1771170A	25	5	
11.8	94	142	1771180	1771180TT	1771180T	1771180AT	1771180A	25	5	
11.9	101	151	1771190					25	5	
12	101	151	1771200	1771200TT	1771200T	1771200AT	1771200A	25	5	
12.1	101	151	1771210	1771210TT	1771210T	1771210AT	1771210A	25	5	
12.2	101	151	1771220	1771220TT	1771220T	1771220AT	1771220A	25	5	
12.3	101	151	1771230	1771230TT	1771230T	1771230AT	1771230A	25	5	
12.4	101	151	1771240	1771240TT	1771240T	1771240AT	1771240A	25	5	
12.5	101	151	1771250	1771250TT	1771250T	1771250AT	1771250A	25	5	
12.6	101	151	1771260	1771260TT	1771260T	1771260AT	1771260A	25	5	
12.700	1/2	101	1771269	1771269TT	1771269T	1771269AT	1771269A	25	5	
12.7	101	151	1771270	1771270TT	1771270T	1771270AT	1771270A	25	5	
12.8	101	151	1771280	1771280TT	1771280T	1771280AT	1771280A	25	5	
12.9	101	151	1771290	1771290TT	1771290T	1771290AT	1771290A	25	5	
13	101	151	1771300	1771300TT	1771300T	1771300AT	1771300A	25	5	

Available on request (See MOQ)



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shaping your dreams