

DREAM DRILL X

Distributed By



Tool+Cutter

www.toolandcutter.com

YG-1's
New
**DREAM
DRILL**
Series

Buy any **3 Dream Drill X**
& Receive a Free **Pocket
Flashlight**

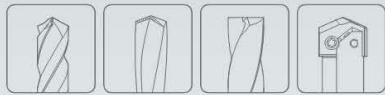
Introductory Offer – only while gift
supplies last



**PLEASE SEE THE FOLLOWING 18 PAGES FOR DREAM DRILL X
FEATURES, AVAILABLE SIZES, AND SPEEDS & FEEDS**



Global Cutting Tool Leader **YG-1**



Distributed By

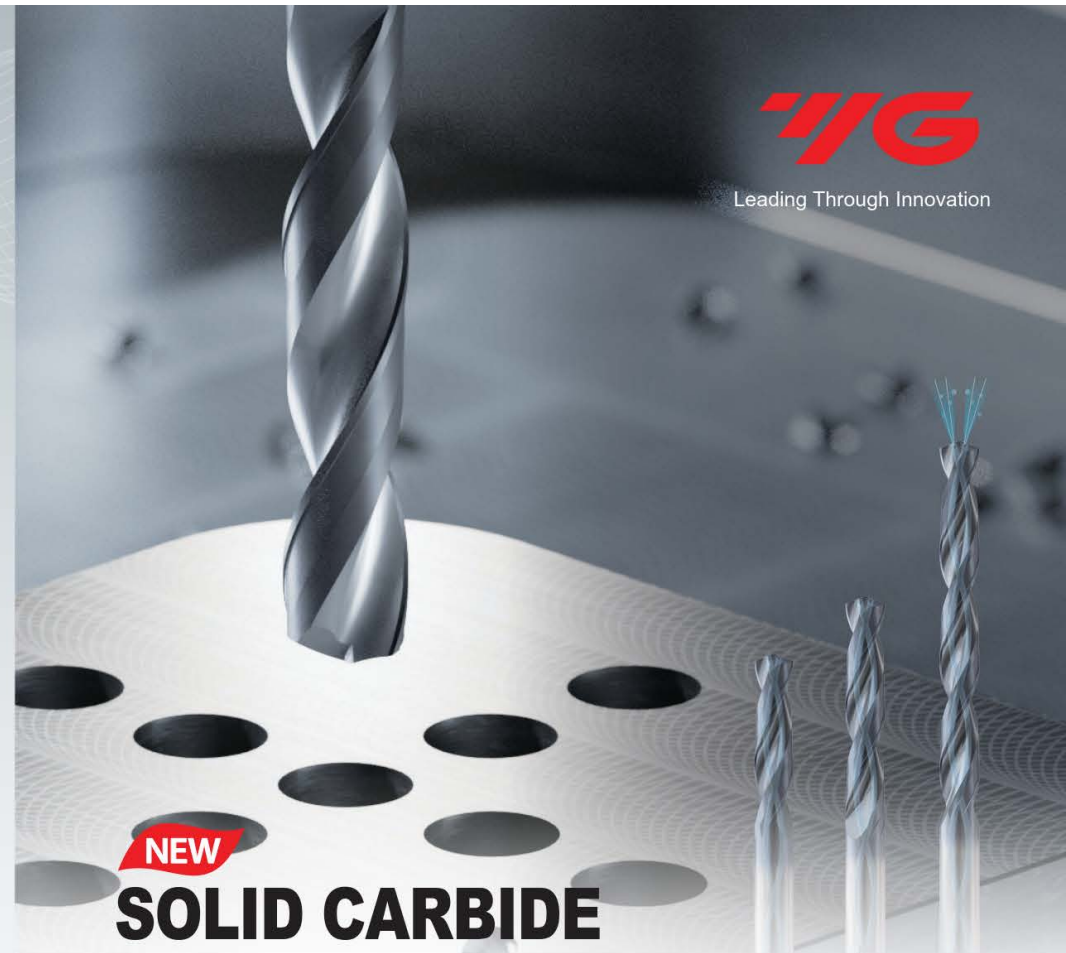


Tool+Cutter
www.toolandcutter.com

DREAM DRILLS



Leading Through Innovation



NEW
SOLID CARBIDE

DREAM DRILL X

- Multi-Purpose Solid Carbide Drilling up to HRC50
- Proprietary coating upgrade boosting performance in Steel and Cast-Iron applications

YG FOR MULTI-PURPOSE

NEW DREAM DRILLX

New Coating Technology "RCH-Coating"

Combining the major benefits of TiAlN and AlCrN into a new 'Nano-Layered Multilayer' coating generation provides unique advantages such as:



Extreme Wear Resistance

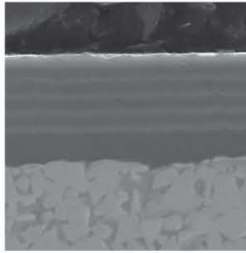


High Heat Endurance



Chipping Protection

Tool Life
20 to 50%
compared to Normal TiAlN coated drills

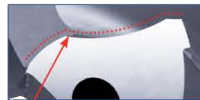
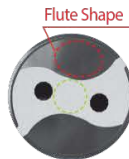
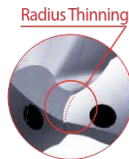


Nano-Layered Multilayer
Carbide

At insufficient coolant conditions where higher temperatures occur, **RCH-Coating** allows with its very high temperature stability for great tool life results.

FEATURES & BENEFITS

- **Universal Point Grinding**
Soft cutting action and reduced axial forces; Easy to Recondition
- **Radius Thinning**
Provides very good self centering even at low feed rates and unstable situations
- **Tailored Flute Design**
Excellent chip breaking and evacuation
- **Edge Preparation**
Maximizing tool life in various materials



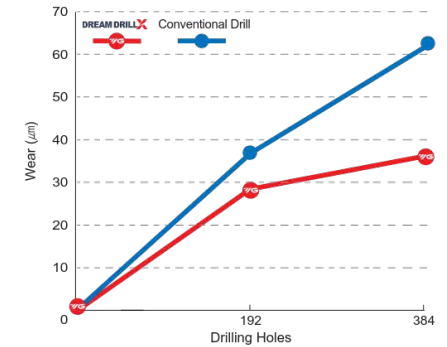
Negative Land (Honing)

CASE STUDY

► SOLID CARBIDE DREAM DRILL X with Coolant Holes

Cutting Condition

Work Material	- AISI : 1045 - DIN : C45 (HRC20) - JIS : S45C
Drill Diameter(mm)	Ø10.0 (.3937 inch)
Cutting Speed	360 ft/min.
Feed	.009 inch/rev.
Drilling Depth	1.574"
Coolant	Internal Cooling Wet Cut (9% Emulsion)
Machine	Vertical Machine



DREAM DRILLX



Total Drilling 384 Holes

Conventional Drill

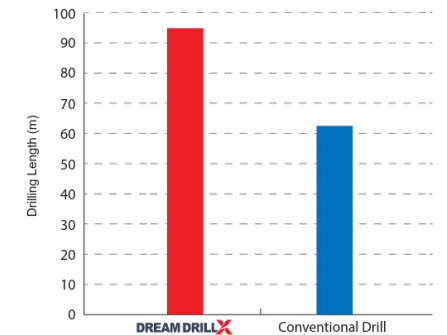


Total Drilling 384 Holes

► SOLID CARBIDE DREAM DRILL X with Coolant Holes

Cutting Condition

Work Material	- AISI : 60-40-18 - DIN : GGG40 - JIS : FCD400
Drill Diameter(mm)	Ø8.5 (.3346 inch)
Cutting Speed	367 ft/min.
Feed	.0129 inch/rev.
Drilling Depth	.708"
Coolant	Internal Cooling
Machine	Machining Center (Horizontal)





RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



SHORT
3 × D

EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length
	Fractional	Decimal					Fractional	Decimal			
RCH-Coating	D1		D2	L1	L2	RCH-Coating	D1		D2	L1	L2
DTX711008	1/8	.1250	3/16	1.102	2.992	DTX416217	Q	.3320	11/32	1.673	3.937
DTX416008	1/8	.1250	15/64	1.102	2.992	DTX711022	11/32	.3438	3/8	1.772	3.937
DTX711011	11/64	.1719	3/16	1.417	3.386	DTX416022	11/32	.3438	11/32	1.772	3.937
DTX416011	11/64	.1719	15/64	1.417	3.386	DTX711023	23/64	.3594	3/8	1.870	4.174
DTX711012	3/16	.1875	3/16	1.575	3.543	DTX416023	23/64	.3594	25/64	1.870	4.174
DTX416012	3/16	.1875	15/64	1.575	3.543	DTX711221	U	.3680	3/8	1.870	4.174
DTX711013	13/64	.2031	1/4	1.082	3.228	DTX416221	U	.3680	25/64	1.870	4.174
DTX416013	13/64	.2031	15/64	1.082	3.228	DTX711024	3/8	.3750	3/8	1.969	4.174
DTX711014	7/32	.2188	1/4	1.181	3.228	DTX416024	3/8	.3750	25/64	1.969	4.174
DTX416014	7/32	.2188	15/64	1.181	3.228	DTX711025	25/64	.3906	7/16	1.969	4.174
DTX711015	15/64	.2344	1/4	1.181	3.228	DTX416025	25/64	.3906	25/64	1.969	4.174
DTX416015	15/64	.2344	15/64	1.181	3.228	DTX711026	13/32	.4063	7/16	2.067	4.567
DTX711016	1/4	.2500	1/4	1.279	3.465	DTX416026	13/32	.4063	27/64	2.067	4.567
DTX416016	1/4	.2500	17/64	1.279	3.465	DTX711027	27/64	.4219	7/16	2.165	4.567
DTX711206	F	.2570	5/16	1.279	3.465	DTX416027	27/64	.4219	27/64	2.165	4.567
DTX416206	F	.2570	17/64	1.279	3.465	DTX711028	7/16	.4375	7/16	2.264	4.803
DTX711017	17/64	.2656	5/16	1.378	3.465	DTX416028	7/16	.4375	15/32	2.264	4.803
DTX416017	17/64	.2656	17/64	1.378	3.465	DTX711029	29/64	.4531	1/2	2.264	4.803
DTX711209	I	.2720	5/16	1.378	3.465	DTX416029	29/64	.4531	15/32	2.264	4.803
DTX416209	I	.2720	.2720	1.378	3.465	DTX711030	15/32	.4688	1/2	2.362	4.803
DTX416018	9/32	.2813	5/16	1.476	3.701	DTX416030	15/32	.4688	15/32	2.362	4.803
DTX416019	19/64	.2969	5/16	1.476	3.701	DTX416031	31/64	.4844	1/2	2.461	5.039
DTX416020	5/16	.3125	5/16	1.575	3.701	DTX416032	1/2	.5000	1/2	2.559	5.039
DTX711021	21/64	.3281	3/8	1.673	3.937	DTX711033	33/64	.5156	9/16	2.657	5.276
DTX416021	21/64	.3281	11/32	1.673	3.937	DTX416033	33/64	.5156	35/64	2.657	5.276
DTX711217	Q	.3320	3/8	1.673	3.937	DTX711034	17/32	.5313	9/16	2.756	5.276

► Other shank types are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

ISO	P										M										K									
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRc	125	13	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO	N										S										T									
Material Description	Aluminum wrought alloy					Aluminum cast alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRc	15	20	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



SHORT
3 × D

EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length
	Fractional	Decimal					Fractional	Decimal			
RCH-Coating	D1		D2	L1	L2	RCH-Coating	D1		D2	L1	L2
DTX416034	17/32	.5313	35/64	2.756	5.276	DTX711037	37/64	.5781	5/8	2.953	5.512
DTX711035	35/64	.5469	9/16	2.756	5.276	DTX416037	37/64	.5781	37/64	2.953	5.512
DTX416035	35/64	.5469	35/64	2.756	5.276	DTX416038	19/32	.5938	5/8	3.051	5.709
DTX711036	9/16	.5625	9/16	2.854	5.512	DTX416039	39/64	.6094	5/8	3.051	5.709
DTX416036	9/16	.5625	37/64	2.854	5.512	DTX416040	5/8	.6250	5/8	3.150	5.709

► Other shank types are available on your request.

◎ : Excellent ○ : Good

ISO	P										M										K									
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRc	125	13	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO	N										S										T									
Material Description	Aluminum wrought alloy					Aluminum cast alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRc	15	20	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



SERIES

NEW
DTX418
DTX712

LONG



SHORT

NEW SERIES
DTX406

RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length
	Fractional	Decimal					Fractional	Decimal			
RGH-Coating	D1		D2	L1	L2	RGH-Coating	D1		D2	L1	L2
DTX712013	13/64	.2031	1/4	1-3/4	3-15/16	DTX712022	11/32	.3438	3/8	2-27/32	5
DTX148013	13/64	.2031	15/64	1-3/4	3-15/16	DTX148023	23/64	.3594	25/64	3	5-23/64
DTX712014	7/32	.2188	1/4	1-5/764	3-15/16	DTX712023	23/64	.3594	3/8	3	5-23/64
DTX148014	7/32	.2188	15/64	1-5/764	3-15/16	DTX148221	U	.3680	25/64	3	5-23/64
DTX712015	15/64	.2344	1/4	1-5/764	3-15/16	DTX712221	U	.3680	3/8	3	5-23/64
DTX148015	15/64	.2344	15/64	1-5/764	3-15/16	DTX148024	3/8	.3750	25/64	3-5/32	5-23/64
DTX712016	1/4	.2500	1/4	2-3/64	4-19/64	DTX712024	3/8	.3750	3/8	3-5/32	5-23/64
DTX148016	1/4	.2500	17/64	2-3/64	4-19/64	DTX148025	25/64	.3906	25/64	3-5/32	5-23/64
DTX148206	F	.2570	17/64	2-13/64	4-19/64	DTX712025	25/64	.3906	7/16	3-5/32	5-23/64
DTX712206	F	.2570	5/16	2-13/64	4-19/64	DTX148026	13/32	.4063	27/64	3-5/16	5-7/8
DTX148017	17/64	.2656	17/64	2-13/64	4-19/64	DTX712026	13/32	.4063	7/16	3-5/16	5-7/8
DTX712017	17/64	.2656	5/16	2-13/64	4-19/64	DTX148027	27/64	.4219	27/64	3-15/32	5-7/8
DTX148209	I	.2720	.2720	2-13/64	4-19/64	DTX712027	27/64	.4219	7/16	3-15/32	5-7/8
DTX712209	I	.2720	5/16	2-13/64	4-19/64	DTX148028	7/16	.4375	15/32	3-5/8	6-7/32
DTX148018	9/32	.2813	5/16	2-23/64	4-41/64	DTX712028	7/16	.4375	7/16	3-5/8	6-7/32
DTX148019	19/64	.2969	5/16	2-33/64	4-41/64	DTX712029	29/64	.4531	1/2	3-25/32	6-7/32
DTX148020	5/16	.3125	5/16	2-33/64	4-41/64	DTX148029	29/64	.4531	15/32	3-25/32	6-7/32
DTX148021	21/64	.3281	11/32	2-43/64	5	DTX712030	15/32	.4688	1/2	3-25/32	6-7/32
DTX712021	21/64	.3281	3/8	2-43/64	5	DTX148030	15/32	.4688	15/32	3-25/32	6-7/32
DTX148217	Q	.3320	11/32	2-43/64	5	DTX148031	31/64	.4844	1/2	3-15/16	6-37/64
DTX712217	Q	.3320	3/8	2-43/64	5	DTX148032	1/2	.5000	1/2	4-3/32	6-37/64
DTX148022	11/32	.3438	11/32	2-27/32	5						

► Other shank types are available on your request.

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2
DTX406030	3.0		.1181	6	20	62
DTX406031	3.1		.1220	6	20	62
DTX406008F	3.175	1/8	.1250	6	20	62
DTX406032	3.2		.1260	6	20	62
DTX406033	3.3		.1299	6	20	62
DTX406034	3.4		.1339	6	20	62
DTX406035	3.5		.1378	6	20	62
DTX406009F	3.572	9/64	.1406	6	20	62
DTX406036	3.6		.1417	6	20	62
DTX406037	3.7		.1457	6	20	62
DTX406038	3.8		.1496	6	24	66
DTX406039	3.9		.1535	6	24	66
DTX406010F	3.969	5/32	.1563	6	24	66
DTX406040	4.0		.1575	6	24	66
DTX406041	4.1		.1614	6	24	66
DTX406042	4.2		.1654	6	24	66
DTX406043	4.3		.1693	6	24	66
DTX406011F	4.366	11/64	.1719	6	24	66
DTX406044	4.4		.1732	6	24	66
DTX406045	4.5		.1772	6	24	66
DTX406046	4.6		.1811	6	24	66
DTX406047	4.7		.1850	6	24	66
DTX406012F	4.763	3/16	.1875	6	24	66
DTX406048	4.8		.1890	6	28	66
DTX406049	4.9		.1929	6	28	66
DTX406050	5.0		.1969	6	28	66

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2
DTX406051	5.1		.2008	6	28	66
DTX406013F	5.159	13/64	.2031	6	28	66
DTX406052	5.2		.2047	6	28	66
DTX406053	5.3		.2087	6	28	66
DTX406054	5.4		.2126	6	28	66
DTX406055	5.5		.2165	6	28	66
DTX406014F	5.556	7/32	.2188	6	28	66
DTX406056	5.6		.2205	6	28	66
DTX406057	5.7		.2244	6	28	66
DTX406058	5.8		.2283	6	28	66
DTX406059	5.9		.2323	6	28	66
DTX406015F	5.953	15/64	.2344	6	28	66
DTX406060	6.0		.2362	6	28	66
DTX406061	6.1		.2402	8	34	79
DTX406062	6.2		.2441	8	34	79
DTX406063	6.3		.2480	8	34	79
DTX406016F	6.350	1/4	.2500	8	34	79
DTX406064	6.4		.2520	8	34	79
DTX406065	6.5		.2559	8	34	79
DTX406006L	6.528	F	.2570	8	34	79
DTX406066	6.6		.2598	8	34	79
DTX406067	6.7		.2638	8	34	79
DTX406017F	6.747	17/64	.2656	8	34	79
DTX406068	6.8		.2677	8	34	79
DTX406069	6.9		.2717	8	34	79
DTX406009L	6.909	I	.2720	8	34	79

► Other shank types are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

[illegible]

◎ : Excellent ○ : Good

[illegible]



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

SHORT
3 × D

Unit : mm

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX406070	7.0		.2756	8	34	79	DTX406090	9.0		.3543	10	47	89
DTX406071	7.1		.2795	8	41	79	DTX406091	9.1		.3583	10	47	89
DTX406018F	7.144	9/32	.2812	8	41	79	DTX406023F	9.128	23/64	.3594	10	47	89
DTX406072	7.2		.2835	8	41	79	DTX406092	9.2		.3622	10	47	89
DTX406073	7.3		.2874	8	41	79	DTX406093	9.3		.3661	10	47	89
DTX406074	7.4		.2913	8	41	79	DTX406021L	9.347	U	.3680	10	47	89
DTX406075	7.5		.2953	8	41	79	DTX406094	9.4		.3701	10	47	89
DTX406019F	7.541	19/64	.2969	8	41	79	DTX406095	9.5		.3740	10	47	89
DTX406076	7.6		.2992	8	41	79	DTX406024F	9.525	3/8	.3750	10	47	89
DTX406077	7.7		.3031	8	41	79	DTX406096	9.6		.3780	10	47	89
DTX406078	7.8		.3071	8	41	79	DTX406097	9.7		.3819	10	47	89
DTX406079	7.9		.3110	8	41	79	DTX406098	9.8		.3858	10	47	89
DTX406020F	7.938	5/16	.3125	8	41	79	DTX406099	9.9		.3898	10	47	89
DTX406080	8.0		.3150	8	41	79	DTX406025F	9.922	25/64	.3906	10	47	89
DTX406081	8.1		.3189	10	47	89	DTX406100	10.0		.3937	10	47	89
DTX406082	8.2		.3228	10	47	89	DTX406101	10.1		.3976	12	55	102
DTX406083	8.3		.3268	10	47	89	DTX406102	10.2		.4016	12	55	102
DTX406021F	8.334	21/64	.3281	10	47	89	DTX406103	10.3		.4055	12	55	102
DTX406084	8.4		.3307	10	47	89	DTX406026F	10.319	13/32	.4062	12	55	102
DTX406017L	8.433	Q	.3320	10	47	89	DTX406104	10.4		.4094	12	55	102
DTX406085	8.5		.3346	10	47	89	DTX406105	10.5		.4134	12	55	102
DTX406086	8.6		.3386	10	47	89	DTX406106	10.6		.4173	12	55	102
DTX406087	8.7		.3425	10	47	89	DTX406107	10.7		.4212	12	55	102
DTX406022F	8.731	11/32	.3438	10	47	89	DTX406027F	10.716	27/64	.4219	12	55	102
DTX406088	8.8		.3465	10	47	89	DTX406108	10.8		.4252	12	55	102
DTX406089	8.9		.3504	10	47	89	DTX406109	10.9		.4291	12	55	102

► Other shank types are available on your request.

▶ NEXT PAGE

◎ : Excellent ○ : Good

[illegible]

RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

SHORT
3x D

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX406110	11.0		.4330	12	55	102	DTX406132	13.2		.5197	14	60	107
DTX406111	11.1		.4370	12	55	102	DTX406133	13.3		.5236	14	60	107
DTX406028F	11.113	7/16	.4375	12	55	102	DTX406134	13.4		.5276	14	60	107
DTX406112	11.2		.4409	12	55	102	DTX406135	13.5		.5314	14	60	107
DTX406113	11.3		.4448	12	55	102	DTX406136	13.6		.5354	14	60	107
DTX406114	11.4		.4488	12	55	102	DTX406137	13.7		.5394	14	60	107
DTX406115	11.5		.4527	12	55	102	DTX406138	13.8		.5433	14	60	107
DTX406029F	11.509	29/64	.4531	12	55	102	DTX406139	13.9		.5472	14	60	107
DTX406116	11.6		.4566	12	55	102	DTX406140	14.0		.5512	14	60	107
DTX406117	11.7		.4606	12	55	102	DTX406141	14.1		.5551	16	65	115
DTX406118	11.8		.4645	12	55	102	DTX406142	14.2		.5591	16	65	115
DTX406119	11.9		.4685	12	55	102	DTX406036F	14.288	9/16	.5625	16	65	115
DTX406030F	11.906	15/32	.4688	12	55	102	DTX406143	14.3		.5630	16	65	115
DTX406120	12.0		.4724	12	55	102	DTX406144	14.4		.5669	16	65	115
DTX406121	12.1		.4764	14	60	107	DTX406145	14.5		.5708	16	65	115
DTX406122	12.2		.4803	14	60	107	DTX406146	14.6		.5748	16	65	115
DTX406123	12.3		.4843	14	60	107	DTX406147	14.7		.5787	16	65	115
DTX406031F	12.303	31/64	.4844	14	60	107	DTX406148	14.8		.5827	16	65	115
DTX406124	12.4		.4882	14	60	107	DTX406149	14.9		.5866	16	65	115
DTX406125	12.5		.4921	14	60	107	DTX406150	15.0		.5905	16	65	115
DTX406126	12.6		.4961	14	60	107	DTX406151	15.1		.5945	16	65	115
DTX406032F	12.6	1/2	.5000	14	60	107	DTX406152	15.2		.5984	16	65	115
DTX406128	12.8		.5039	14	60	107	DTX406153	15.3		.6024	16	65	115
DTX406129	12.9		.5079	14	60	107	DTX406154	15.4		.6063	16	65	115
DTX406130	13.0		.5118	14	60	107	DTX406155	15.5		.6102	16	65	115
DTX406131	13.1		.5157	14	60	107	DTX406156	15.6		.6142	16	65	115

► Other shank types are available on your request

► NEXT PAGE

◎ : Excellent ○ : Good

[illegible]



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



SHORT
3 × D

EDP No.	Drill Diameter				Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal				
	D1			D2	L1	L2	
DTX406157	15.7		.6181	16	65	115	
DTX406158	15.8		.6220	16	65	115	
DTX406040F	15.875	5/8	.6250	16	65	115	
DTX406159	15.9		.6260	16	65	115	
DTX406160	16.0		.6299	16	65	115	
DTX406161	16.1		.6339	18	73	123	
DTX406162	16.2		.6378	18	73	123	
DTX406163	16.3		.6417	18	73	123	
DTX406164	16.4		.6457	18	73	123	
DTX406165	16.5		.6495	18	73	123	
DTX406166	16.6		.6535	18	73	123	
DTX406167	16.7		.6575	18	73	123	
DTX406168	16.8		.6614	18	73	123	
DTX406169	16.9		.6654	18	73	123	
DTX406170	17.0		.6692	18	73	123	
DTX406171	17.1		.6732	18	73	123	
DTX406172	17.2		.6772	18	73	123	
DTX406173	17.3		.6811	18	73	123	
DTX406174	17.4		.6850	18	73	123	
DTX406044F	17.463	11/16	.6875	18	73	123	
DTX406175	17.5		.6889	18	73	123	
DTX406176	17.6		.6929	18	73	123	
DTX406177	17.7		.6968	18	73	123	
DTX406178	17.8		.7008	18	73	123	

► Other shank types are available on your request.

Ⓢ : Excellent Ⓞ : Good																																						
ISO	P										M					K																						
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel		Stainless steel					Grey cast iron			Nodular cast iron			Malleable cast iron														
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																		
HRC	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	21	1	13	25	28	32	10	29	32	38	10	11	15	23	10	10	26	3	25		
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	1	13	25	28	32	10	29	32	38	10	11	15	23	10	10	26	3	25
Recommended	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ		

ISO	P										S										H														
Material Description	Aluminum wrought alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron											
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41														
HB	60	100	75	90	130	110	90	100			15	10	280	250	350	320	400 fcm	1050 fcm	550	630	400	550													
Recommended																		Ⓢ																	



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



LONG
5 × D

EDP No.	Drill Diameter				Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal				
	D1			D2	L1	L2	
DTX408010	1.0		.0394	3	8	55	
DTX408011	1.1		.0433	3	12	55	
DTX408012	1.2		.0472	3	12	55	
DTX408013	1.3		.0512	3	12	55	
DTX408014	1.4		.0551	3	12	55	
DTX408015	1.5		.0591	3	16	55	
DTX408004F	1.588	1/16	.0625	3	16	55	
DTX408016	1.6		.0630	3	16	55	
DTX408017	1.7		.0669	3	16	55	
DTX408018	1.8		.0709	3	16	55	
DTX408019	1.9		.0748	3	16	55	
DTX408005F	1.984	5/64	.0781	3	16	55	
DTX408020	2.0		.0787	4	21	57	
DTX408021	2.1		.0827	4	21	57	
DTX408022	2.2		.0866	4	21	57	
DTX408023	2.3		.0906	4	21	57	
DTX408006F	2.381	3/32	.0938	4	21	57	
DTX408024	2.4		.0945	4	21	57	
DTX408025	2.5		.0984	4	21	57	
DTX408026	2.6		.1024	4	21	57	
DTX408027	2.7		.1063	4	21	57	
DTX408007F	2.778	7/64	.1094	4	21	57	
DTX408028	2.8		.1102	4	21	57	
DTX408029	2.9		.1142	4	21	57	
DTX408030	3.0		.1181	6	28	66	
DTX408031	3.1		.1220	6	28	66	
DTX408008F	3.175	1/8	.1250	6	28	66	
DTX408032	3.2		.1260	6	28	66	

► Other shank types are available on your request.

◎ : Excellent ○ : Good																																						
ISO		P										M										K																
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel and tool steel		Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron																
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																	
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	6	21	1	13	25	28	32	10	29	32	38	10	11	15	23	10	10	26	3	25
Recommended		125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO		N										S										H																
Material Description		Aluminum wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze/ Brass)		Non Metallic Materials			Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron											
VDI 3323		1	2	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	6	21	1	13	25	28	32	10	29	32	38	10	11	15	23	10	10	26	3	25
HB		60	100	75	90	130	110	90	100	200	180	250	250	350	320	400 Rm	1050 Rm	550	630	400	400	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	
Recommended		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

LONG

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RGH-Coating	D1			D2	L1	L2	RGH-Coating	D1			D2	L1	L2
DTX408014F	5.556	7/32	.2188	6	44	82	DTX408076	7.6		.2992	8	53	91
DTX408056	5.6		.2205	6	44	82	DTX408077	7.7		.3031	8	53	91
DTX408057	5.7		.2244	6	44	82	DTX408078	7.8		.3071	8	53	91
DTX408058	5.8		.2283	6	44	82	DTX408079	7.9		.3110	8	53	91
DTX408059	5.9		.2323	6	44	82	DTX408020F	7.938	5/16	.3125	8	53	91
DTX408015F	5.953	15/64	.2344	6	44	82	DTX408080	8.0		.3150	8	53	91
DTX408060	6.0		.2362	6	44	82	DTX408081	8.1		.3189	10	61	103
DTX408061	6.1		.2402	8	53	91	DTX408082	8.2		.3228	10	61	103
DTX408062	6.2		.2441	8	53	91	DTX408083	8.3		.3268	10	61	103
DTX408063	6.3		.2480	8	53	91	DTX408021F	8.334	21/64	.3281	10	61	103
DTX408016F	6.350	1/4	.2500	8	53	91	DTX408084	8.4		.3307	10	61	103
DTX408064	6.4		.2520	8	53	91	DTX408017L	8.43	Q	.3320	10	61	103
DTX408065	6.5		.2559	8	53	91	DTX408085	8.5		.3346	10	61	103
DTX408006L	6.528	F	.2570	8	53	91	DTX408086	8.6		.3386	10	61	103
DTX408066	6.6		.2598	8	53	91	DTX408087	8.7		.3425	10	61	103
DTX408067	6.7		.2638	8	53	91	DTX408022F	8.731	11/32	.3438	10	61	103
DTX408017F	6.747	17/64	.2656	8	53	91	DTX408088	8.8		.3465	10	61	103
DTX408068	6.8		.2677	8	53	91	DTX408089	8.9		.3504	10	61	103
DTX408069	6.9		.2717	8	53	91	DTX408090	9.0		.3543	10	61	103
DTX408009L	6.909	I	.2720	8	53	91	DTX408091	9.1		.3583	10	61	103
DTX408070	7.0		.2756	8	53	91	DTX408023F	9.128	23/64	.3594	10	61	103
DTX408071	7.1		.2795	8	53	91	DTX408092	9.2		.3622	10	61	103
DTX408018F	7.144	9/32	.2812	8	53	91	DTX408093	9.3		.3661	10	61	103
DTX408072	7.2		.2835	8	53	91	DTX408021L	9.347	U	.3680	10	61	103
DTX408073	7.3		.2874	8	53	91	DTX408094	9.4		.3701	10	61	103
DTX408074	7.4		.2913	8	53	91	DTX408095	9.5		.3740	10	61	103
DTX408075	7.5		.2953	8	53	91	DTX408024F	9.525	3/8	.3750	10	61	103
DTX408019F	7.541	19/64	.2969	8	53	91	DTX408096	9.6		.3780	10	61	103

► Other shank types are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

ISO		P										M				K							
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron			
VCI 3323	HfC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
		125	150	150	270	320	○	○	○	○	○	○	325	200	400	180	160	260	250	○	○		
Recommended			⊗					⊗								⊗		⊗			○		
ISO		N										S										H	
Material Description		Aluminum-wrought alloy		Aluminum-cast alloyed		Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron			
VCI 3323	HfC	21	22	23	24	25	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
		60	100	75	90	130	110	90	100		200	180	250	350	320	400 Rm	1050 HfM	○	630	40	555		
Recommended																		○					



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

LONG

5xD

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
	D1							D1					
RCH-Coating				D2	L1	L2	RCH-Coating				D2	L1	L2
DTX408097	9.7		.3819	10	61	103	DTX408030F	11.906	15/32	.4688	12	71	118
DTX408098	9.8		.3858	10	61	103	DTX408120	12.0		.4724	12	71	118
DTX408099	9.9		.3898	10	61	103	DTX408121	12.1		.4764	14	77	124
DTX408025F	9.922	25/64	.3906	10	61	103	DTX408122	12.2		.4803	14	77	124
DTX408100	10.0		.3937	10	61	103	DTX408123	12.3		.4843	14	77	124
DTX408101	10.1		.3976	12	71	118	DTX408031F	12.303	31/64	.4844	14	77	124
DTX408102	10.2		.4016	12	71	118	DTX408124	12.4		.4882	14	77	124
DTX408103	10.3		.4055	12	71	118	DTX408125	12.5		.4921	14	77	124
DTX408026F	10.319	13/32	.4062	12	71	118	DTX408126	12.6		.4961	14	77	124
DTX408104	10.4		.4094	12	71	118	DTX408032F	12.7	1/2	.5000	14	77	124
DTX408105	10.5		.4134	12	71	118	DTX408128	12.8		.5039	14	77	124
DTX408106	10.6		.4173	12	71	118	DTX408129	12.9		.5079	14	77	124
DTX408107	10.7		.4212	12	71	118	DTX408130	13.0		.5118	14	77	124
DTX408027F	10.716	27/64	.4219	12	71	118	DTX408131	13.1		.5157	14	77	124
DTX408108	10.8		.4252	12	71	118	DTX408132	13.2		.5197	14	77	124
DTX408109	10.9		.4291	12	71	118	DTX408133	13.3		.5236	14	77	124
DTX408110	11.0		.4330	12	71	118	DTX408134	13.4		.5276	14	77	124
DTX408111	11.1		.4370	12	71	118	DTX408135	13.5		.5314	14	77	124
DTX408028F	11.113	7/16	.4375	12	71	118	DTX408136	13.6		.5354	14	77	124
DTX408112	11.2		.4409	12	71	118	DTX408137	13.7		.5394	14	77	124
DTX408113	11.3		.4448	12	71	118	DTX408138	13.8		.5433	14	77	124
DTX408114	11.4		.4488	12	71	118	DTX408139	13.9		.5472	14	77	124
DTX408115	11.5		.4527	12	71	118	DTX408140	14.0		.5512	14	77	124
DTX408029F	11.509	29/64	.4531	12	71	118	DTX408141	14.1		.5551	16	83	133
DTX408116	11.6		.4566	12	71	118	DTX408142	14.2		.5591	16	83	133
DTX408117	11.7		.4606	12	71	118	DTX408036F	14.288	9/16	.5625	16	83	133
DTX408118	11.8		.4645	12	71	118	DTX408143	14.3		.5630	16	83	133
DTX408119	11.9		.4685	12	71	118	DTX408144	14.4		.5669	16	83	133

► Other shank types are available on your request.

► NEXT PAGE

◎ : Excellent ○ : Good

[illegible]



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

NEW SERIES
DTX408

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



p.52

LONG
5 x D

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
	D1			D2	L1	L2
DTX408145	14.5		.5708	16	83	133
DTX408146	14.6		.5748	16	83	133
DTX408147	14.7		.5787	16	83	133
DTX408148	14.8		.5827	16	83	133
DTX408149	14.9		.5866	16	83	133
DTX408150	15.0		.5905	16	83	133
DTX408151	15.1		.5945	16	83	133
DTX408152	15.2		.5984	16	83	133
DTX408153	15.3		.6024	16	83	133
DTX408154	15.4		.6063	16	83	133
DTX408155	15.5		.6102	16	83	133
DTX408156	15.6		.6142	16	83	133
DTX408157	15.7		.6181	16	83	133
DTX408158	15.8		.6220	16	83	133
DTX408040F	15.875	5/8	.6250	16	83	133
DTX408159	15.9		.6260	16	83	133
DTX408160	16.0		.6299	16	83	133
DTX408161	16.1		.6339	18	93	143
DTX408162	16.2		.6378	18	93	143
DTX408163	16.3		.6417	18	93	143
DTX408164	16.4		.6457	18	93	143
DTX408165	16.5		.6495	18	93	143
DTX408166	16.6		.6535	18	93	143
DTX408167	16.7		.6575	18	93	143
DTX408168	16.8		.6614	18	93	143
DTX408169	16.9		.6654	18	93	143
DTX408170	17.0		.6692	18	93	143
DTX408171	17.1		.6732	18	93	143
DTX408172	17.2		.6772	18	93	143

► Other shank types are available on your request.

◎ : Excellent ○ : Good

ISO Material Description	P										M										K									
	Non-alloy steel					Low alloy steel					High alloy steel, and tool steel					Stainless steel					Grey cast iron					Nodular cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRC	125	13	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	19	21	125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

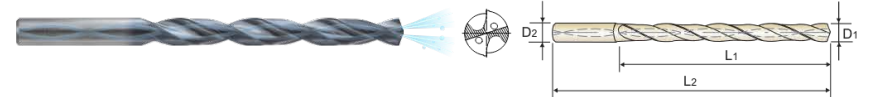
ISO Material Description	N										S										L									
	Aluminum wrought alloy					Aluminum cast alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRC	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550									
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

NEW SERIES
DTX421

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



p.52

EXTRA LONG
8 x D

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
	D1			D2	L1	L2
DTX421030	3.0		.1181	6	34	72
DTX421031	3.1		.1220	6	34	72
DTX421008F	3.175	1/8	.1250	6	34	72
DTX421032	3.2		.1260	6	34	72
DTX421033	3.3		.1299	6	34	72
DTX421034	3.4		.1339	6	34	72
DTX421029G	3.450	#29	.1360	6	34	72
DTX421035	3.5		.1378	6	34	72
DTX421009F	3.572	9/64	.1406	6	34	72
DTX421036	3.6		.1417	6	34	72
DTX421037	3.7		.1457	6	34	72
DTX421038	3.8		.1496	6	43	81
DTX421039	3.9		.1535	6	43	81
DTX421010F	3.969	5/32	.1563	6	43	81
DTX421040	4.0		.1575	6	43	81
DTX421021G	4.040	#21	.1590	6	43	81
DTX421041	4.1		.1614	6	43	81
DTX421042	4.2		.1654	6	43	81
DTX421043	4.3		.1693	6	43	81
DTX421011F	4.366	11/64	.1719	6	43	81
DTX421044	4.4		.1732	6	43	81
DTX421045	4.5		.1772	6	43	81
DTX421046	4.6		.1811	6	43	81
DTX421047	4.7		.1850	6	43	81
DTX421012F	4.763	3/16	.1875	6	57	95
DTX421048	4.8		.1890	6	57	95

► Other shank types are available on your request.

► NEXT PAGE

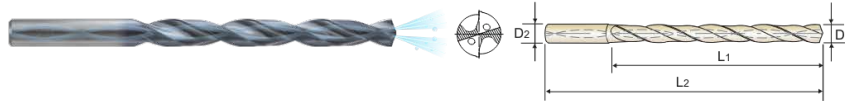
ISO Material Description	P										M										K									
	Non-alloy steel					Low alloy steel					High alloy steel, and tool steel					Stainless steel					Grey cast iron					Nodular cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRC	125	13	25	28	32	10	29	32	38	10	35	15	23	10	10	26	3	25	19	21	125	190	250	270	300	180	275	300	350	200
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

ISO Material Description	N										S										L									
	Aluminum wrought alloy					Aluminum cast alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRC	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550									
HB																														
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

EXTRA LONG

8xD

Unit : mm

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX421069	6.9		.2717	8	76	114	DTX421088	8.8		.3465	10	95	142
DTX421009L	6.909	I	.2720	8	76	114	DTX421089	8.9		.3504	10	95	142
DTX421070	7.0		.2756	8	76	114	DTX421090	9.0		.3543	10	95	142
DTX421071	7.1		.2795	8	76	114	DTX421091	9.1		.3583	10	95	142
DTX421018F	7.144	9/32	.2813	8	76	114	DTX421023F	9.128	23/64	.3594	10	95	142
DTX421072	7.2		.2835	8	76	114	DTX421092	9.2		.3622	10	95	142
DTX421073	7.3		.2874	8	76	114	DTX421093	9.3		.3661	10	95	142
DTX421074	7.4		.2913	8	76	114	DTX421021L	9.350	U	.3680	10	95	142
DTX421075	7.5		.2953	8	76	114	DTX421094	9.4		.3701	10	95	142
DTX421019F	7.541	19/64	.2969	8	76	114	DTX421095	9.5		.3740	10	95	142
DTX421076	7.6		.2992	8	76	114	DTX421024F	9.525	3/8	.3750	10	95	142
DTX421077	7.7		.3031	8	76	114	DTX421096	9.6		.3780	10	95	142
DTX421078	7.8		.3071	8	76	114	DTX421097	9.7		.3819	10	95	142
DTX421079	7.9		.3110	8	76	114	DTX421098	9.8		.3858	10	95	142
DTX421020F	7.938	5/16	.3125	8	76	114	DTX421099	9.9		.3898	10	95	142
DTX421080	8.0		.3150	8	76	114	DTX421025F	9.922	25/64	.3906	10	95	142
DTX421081	8.1		.3189	10	95	142	DTX421100	10.0		.3937	10	95	142
DTX421082	8.2		.3228	10	95	142	DTX421101	10.1		.3976	12	114	162
DTX421083	8.3		.3268	10	95	142	DTX421102	10.2		.4016	12	114	162
DTX421021F	8.334	21/64	.3281	10	95	142	DTX421103	10.3		.4055	12	114	162
DTX421084	8.4		.3307	10	95	142	DTX421026F	10.319	13/32	.4063	12	114	162
DTX421017L	8.430	Q	.3320	10	95	142	DTX421104	10.4		.4094	12	114	162
DTX421085	8.5		.3346	10	95	142	DTX421105	10.5		.4134	12	114	162
DTX421086	8.6		.3386	10	95	142	DTX421106	10.6		.4173	12	114	162
DTX421087	8.7		.3425	10	95	142	DTX421107	10.7		.4212	12	114	162
DTX421022F	8.731	11/32	.3438	10	95	142	DTX421027F	10.716	27/64	.4219	12	114	162

► Other shank types are available on your request.

▶ NEXT PAGE

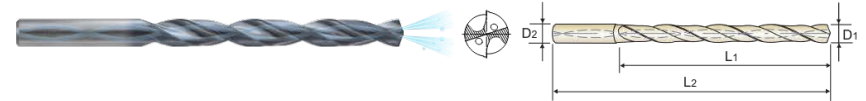
◎ : Excellent ○ : Good

ISO		P										M				K				L					
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			
	ISO 1323 HRC HB	125	150	250	270	300	180	275	300	350	200	15	23	10	180	180	260	160	250	30	230	25			
	Recommended	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗			
ISO		N					S					H													
Material Description		Aluminum wrought alloy		Aluminum cast alloy			Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat Resistant Super Alloys			Titanium Alloys		Hardened Steel		Chilled Cast Iron		Hardened Cast Iron					
		1	2	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
	ISO 1323 HRC HB	60	100	75	90	130	110	90	100					200	180	280	250	350	320	400 Rm	1050 Rm	55	60	42	55
	Recommended																				⊗	⊗	⊗	⊗	



RCH-COATED SOLID CARBIDE
DREAM DRILL X with COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



p.52

EXTRA LONG

8×D

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length							
	Metric	Fractional	Decimal				EDP No.	Metric	Fractional	Decimal	Shank Diameter	Flute Length	Overall Length
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX421108	10.8		.4252	12	114	162	DTX421130	13.0		.5118	14	133	178
DTX421109	10.9		.4291	12	114	162	DTX421033F	13.097	33/64	.5156	14	133	178
DTX421110	11.0		.4330	12	114	162	DTX421131	13.1		.5157	14	133	178
DTX421111	11.1		.4370	12	114	162	DTX421132	13.2		.5197	14	133	178
DTX421028F	11.113	7/16	.4375	12	114	162	DTX421133	13.3		.5236	14	133	178
DTX421112	11.2		.4409	12	114	162	DTX421134	13.4		.5276	14	133	178
DTX421113	11.3		.4448	12	114	162	DTX421135	13.5		.5314	14	133	178
DTX421114	11.4		.4488	12	114	162	DTX421136	13.6		.5354	14	133	178
DTX421115	11.5		.4527	12	114	162	DTX421137	13.7		.5394	14	133	178
DTX421029F	11.509	29/64	.4531	12	114	162	DTX421138	13.8		.5433	14	133	178
DTX421116	11.6		.4566	12	114	162	DTX421139	13.9		.5472	14	133	178
DTX421117	11.7		.4606	12	114	162	DTX421140	14.0		.5512	14	133	178
DTX421118	11.8		.4645	12	114	162	DTX421141	14.1		.5551	16	152	203
DTX421119	11.9		.4685	12	114	162	DTX421142	14.2		.5591	16	152	203
DTX421030F	11.906	15/32	.4688	12	114	162	DTX421036F	14.288	9/16	.5625	16	152	203
DTX421120	12.0		.4724	12	114	162	DTX421143	14.3		.5630	16	152	203
DTX421121	12.1		.4764	14	133	178	DTX421144	14.4		.5669	16	152	203
DTX421122	12.2		.4803	14	133	178	DTX421145	14.5		.5709	16	152	203
DTX421123	12.3		.4843	14	133	178	DTX421146	14.6		.5748	16	152	203
DTX421031F	12.303	31/64	.4844	14	133	178	DTX421147	14.7		.5787	16	152	203
DTX421124	12.4		.4882	14	133	178	DTX421148	14.8		.5827	16	152	203
DTX421125	12.5		.4921	14	133	178	DTX421149	14.9		.5866	16	152	203
DTX421126	12.6		.4961	14	133	178	DTX421150	15.0		.5905	16	152	203
DTX421032F	12.7	1/2	.5000	14	133	178	DTX421151	15.1		.5945	16	152	203
DTX421128	12.8		.5039	14	133	178	DTX421152	15.2		.5984	16	152	203
DTX421129	12.9		.5079	14	133	178	DTX421153	15.3		.6024	16	152	203

► Other shank types are available on your request.

▶ NEXT PAGE

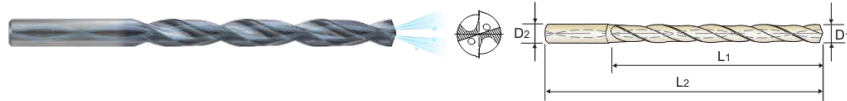
◎ : Excellent ○ : Good

ISO		P								M								K							
Material Description		Non-alloy steel				Low alloy steel				High alloyed steel and tool steel				Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron			
VDI 3323	HRC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			
125	190	240	260	270	300	320	350	380	420	450	500	550	600	650	700	750	800	850	900	950	1000				
Recommended		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				
ISO		N								S								H							
Material Description		Aluminum-nickel alloy		Aluminum cast alloy		Copper and Copper Alloys (Bronze/ Brass)		Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron					
VDI 3323	HRC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
125	190	240	260	270	300	320	350	380	420	450	500	550	600	650	700	750	800	850	900	950	1000				
Recommended		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				



RCH-COATED SOLID CARBIDE DREAM DRILL X with COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



EXTRA LONG
8 × D

Unit : mm													
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	TA1N	D1			D2	L1	L2
DTX421154	15.4		.6063	16	152	203	DTX421178	17.8		.7008	18	171	222
DTX421155	15.5		.6102	16	152	203	DTX421179	17.9		.7047	18	171	222
DTX421156	15.6		.6142	16	152	203	DTX421180	18.0		.7087	18	171	222
DTX421157	15.7		.6181	16	152	203	DTX421181	18.1		.7126	20	190	243
DTX421158	15.8		.6220	16	152	203	DTX421182	18.2		.7165	20	190	243
DTX421040F	15.875	5/8	.6250	16	152	203	DTX421183	18.3		.7205	20	190	243
DTX421159	15.9		.6260	16	152	203	DTX421184	18.4		.7244	20	190	243
DTX421160	16.0		.6299	16	152	203	DTX421185	18.5		.7283	20	190	243
DTX421161	16.1		.6339	18	171	222	DTX421186	18.6		.7323	20	190	243
DTX421162	16.2		.6378	18	171	222	DTX421187	18.7		.7362	20	190	243
DTX421163	16.3		.6417	18	171	222	DTX421188	18.8		.7402	20	190	243
DTX421164	16.4		.6457	18	171	222	DTX421189	18.9		.7441	20	190	243
DTX421165	16.5		.6496	18	171	222	DTX421190	19.0		.7480	20	190	243
DTX421166	16.6		.6535	18	171	222	DTX421048F	19.050	3/4	.7500	20	190	243
DTX421167	16.7		.6575	18	171	222	DTX421191	19.1		.7520	20	190	243
DTX421168	16.8		.6614	18	171	222	DTX421192	19.2		.7559	20	190	243
DTX421169	16.9		.6654	18	171	222	DTX421193	19.3		.7598	20	190	243
DTX421170	17.0		.6693	18	171	222	DTX421194	19.4		.7638	20	190	243
DTX421171	17.1		.6732	18	171	222	DTX421195	19.5		.7677	20	190	243
DTX421172	17.2		.6772	18	171	222	DTX421196	19.6		.7717	20	190	243
DTX421173	17.3		.6811	18	171	222	DTX421197	19.7		.7756	20	190	243
DTX421174	17.4		.6850	18	171	222	DTX421198	19.8		.7795	20	190	243
DTX421175	17.5		.6890	18	171	222	DTX421199	19.9		.7835	20	190	243
DTX421176	17.6		.6929	18	171	222	DTX421200	20.0		.7874	20	190	243
DTX421177	17.7		.6968	18	171	222							

► Other shank types are available on your request.

ISO Material Description	P										M										K									
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRC	13	25	28	32	36	10	29	32	38	15	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230										
Recommended	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

ISO Material Description	N										S										I									
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRC	15	20	25	28	32	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	450	550	630	400	450	550	630	400	450	550
Recommended	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙



RCH-COATED SOLID CARBIDE DREAM DRILL X without COOLANT HOLES

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



STUB
3 × D

Unit : Inch									
EDP No.	Drill Diameter		Flute Length	Overall Length	EDP No.	Drill Diameter		Flute Length	Overall Length
	Fractional	Decimal				Fractional	Decimal		
RCH-Coating	D1 = D2		L1	L2	RCH-Coating	D1 = D2		L1	L2
DTX414008	1/8	.1250	45/64	1-59/64	DTX414022	11/32	.3438	2-3/16	3-7/8
DTX414009	9/64	.1406	25/32	2-3/64	DTX414023	23/64	.3594	2-9/32	4
DTX414010	5/32	.1563	7/8	2-3/16	DTX414221	U	.3680	2-9/32	4
DTX414011	11/64	.1719	15/16	2-9/32	DTX414024	3/8	.3750	2-3/8	4-1/8
DTX414012	3/16	.1875	1	2-7/16	DTX414025	25/64	.4906	2-3/8	4-1/8
DTX414013	13/64	.2031	1	2-7/16	DTX414026	13/32	.4062	2-5/8	4-13/32
DTX414014	7/32	.2188	1-1/8	2-5/8	DTX414027	27/64	.4219	2-11/16	4-1/2
DTX414015	15/64	.2344	1-1/8	2-5/8	DTX414028	7/16	.4375	2-13/16	4-5/8
DTX414016	1/4	.2500	1-5/8	3-3/16	DTX414029	29/64	.4531	2-7/8	4-3/4
DTX414206	F	.2570	1-11/16	3-17/64	DTX414230	15/32	.4688	2-7/8	4-3/4
DTX414017	17/64	.2656	1-11/16	3-17/64	DTX414031	31/64	.4844	3	5-5/16
DTX414209	I	.2720	1-11/16	3-17/64	DTX414232	1/2	.5000	3-1/16	5-3/8
DTX414018	9/32	.2813	1-3/4	3-7/16	DTX414033	33/64	.5156	3-11/32	5-11/16
DTX414019	19/64	.2969	1-7/8	3-9/16	DTX414034	17/32	.5313	3-11/32	5-11/16
DTX414020	5/16	.3125	1-7/8	3-9/16	DTX414036	9/16	.5625	3-1/2	5-15/16
DTX414021	21/64	.3281	2-1/16	3-3/4	DTX414237	37/64	.5781	3-37/64	6
DTX414217	Q	.3320	2-1/16	3-3/4	DTX414040	5/8	.6250	2-25/32	6-19/64

► Other shank types are available on your request.

ISO Material Description	P										M										K									
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10
HRC	13	25	28	32	36	10	29	32	38	15	35	15	23	10	10	26	3	25	21		125	190	250	270	300	180	275	300	350	200
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230										
Recommended	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

ISO Material Description	N										S										I									
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
HRC	15	20	25	28	32	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34	15	30	25	38	34
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	450	550	630	400	450	550	630	400	450	550
Recommended	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter		Shank Diameter	Flute Length	Overall Length
	Fractional	Decimal					Fractional	Decimal			
RGH-Coating	D1		D2	L1	L2	RGH-Coating	D1		D2	L1	L2
DTX722013	13/64	.2031	1/4	1-3/4	3-15/16	DTX722022	11/32	.3438	3/8	2-27/32	5
DTX722014	7/32	.2188	1/4	1-57/64	3-15/16	DTX722023	23/64	.3594	3/8	3	5-23/64
DTX722015	15/64	.2344	1/4	1-57/64	3-15/16	DTX722221	U	.3680	3/8	3	5-23/64
DTX722016	1/4	.2500	1/4	2-3/64	4-19/64	DTX722024	3/8	.3750	3/8	3-5/32	5-23/64
DTX722206	F	.2570	5/16	2-13/64	4-19/64	DTX722025	25/64	.3906	7/16	3-5/32	5-23/64
DTX722017	17/64	.2656	5/16	2-13/64	4-19/64	DTX722026	13/32	.4062	7/16	3-5/16	5-7/8
DTX722209	I	.2720	5/16	2-13/64	4-19/64	DTX722027	27/64	.4219	7/16	3-15/32	5-7/8
DTX722018	9/32	.2812	5/16	2-23/64	4-41/64	DTX722028	7/16	.4375	7/16	3-5/8	6-7/32
DTX722019	19/64	.2969	5/16	2-33/64	4-41/64	DTX722029	29/64	.4531	1/2	3-25/32	6-7/32
DTX722020	5/16	.3125	5/16	2-33/64	4-41/64	DTX722030	15/32	.4688	1/2	3-25/32	6-7/32
DTX722021	21/64	.3281	3/8	2-43/64	5	DTX722031	31/64	.4844	1/2	3-15/16	6-37/64
DTX722217	Q	.3320	3/8	2-43/64	5	DTX722032	1/2	.5000	1/2	4-3/32	6-37/64

► Other shank types are available on your request.

ISO		P										M		K				H			
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron	
VCI 3223		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	270	300		180	275	300	350		200	325	200	240	180	180	260	160	250	130
Recommended		⊗		⊗		⊗	⊗		⊗		⊗	⊗		⊗		⊗	⊗		⊗		⊗
ISO		N										S				H					
Material Description		Aluminum wrought alloy		Aluminum cast alloy		Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat-Resistant Super Alloys				Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron			
VCI 3223		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRc		60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400
Recommended																			⊗		

RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



STUB

3 × D

EDP No.	Drill Diameter		Flute Length	Overall Length	EDP No.	Drill Diameter		Flute Length	Overall Length
	Metric	Inch				Metric	Inch		
RCH-Coating	D1 = D2		L1	L2	RCH-Coating	D1 = D2		L1	L2
DTX404030	3.0	.1181	16	46	DTX404056	5.6	.2205	28	66
DTX404031	3.1	.1220	18	49	DTX404057	5.7	.2244	28	66
DTX404032	3.2	.1260	18	49	DTX404058	5.8	.2283	28	66
DTX404033	3.3	.1299	18	49	DTX404059	5.9	.2323	28	66
DTX404034	3.4	.1339	20	52	DTX404060	6.0	.2362	28	66
DTX404035	3.5	.1378	20	52	DTX404061	6.1	.2402	31	70
DTX404036	3.6	.1417	20	52	DTX404062	6.2	.2441	31	70
DTX404037	3.7	.1457	20	52	DTX404063	6.3	.2480	31	70
DTX404038	3.8	.1496	22	55	DTX404064	6.4	.2520	31	70
DTX404039	3.9	.1535	22	55	DTX404065	6.5	.2559	31	70
DTX404040	4.0	.1575	22	55	DTX404066	6.6	.2598	31	70
DTX404041	4.1	.1614	22	55	DTX404067	6.7	.2638	31	70
DTX404042	4.2	.1654	22	55	DTX404068	6.8	.2677	34	74
DTX404043	4.3	.1693	24	58	DTX404069	6.9	.2717	34	74
DTX404044	4.4	.1732	24	58	DTX404070	7.0	.2756	34	74
DTX404045	4.5	.1772	24	58	DTX404071	7.1	.2795	34	74
DTX404046	4.6	.1811	24	58	DTX404072	7.2	.2835	34	74
DTX404047	4.7	.1850	24	58	DTX404073	7.3	.2874	34	74
DTX404048	4.8	.1890	26	62	DTX404074	7.4	.2913	34	74
DTX404049	4.9	.1929	26	62	DTX404075	7.5	.2953	34	74
DTX404050	5.0	.1969	26	62	DTX404076	7.6	.2992	37	79
DTX404051	5.1	.2008	26	62	DTX404077	7.7	.3031	37	79
DTX404052	5.2	.2047	26	62	DTX404078	7.8	.3071	37	79
DTX404053	5.3	.2087	26	62	DTX404079	7.9	.3110	37	79
DTX404054	5.4	.2126	28	66	DTX404080	8.0	.3150	37	79
DTX404055	5.5	.2165	28	66	DTX404081	8.1	.3189	37	79

► Other shank types are available on your request.

▶ NEXT PAGE

[illegible]



RCH-COATED SOLID CARBIDE DREAM DRILL X without COOLANT HOLES

NEW SERIES
DTX404

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



DIN 6539 CARBIDE h6 m7 140° RCH Coating p.54

STUB
3 × D

EDP No.	Drill Diameter		Flute Length	Overall Length
	Metric	Inch		
RCH-Coating	D1 = D2		L1	L2
DTX404082	8.2	.3228	37	79
DTX404083	8.3	.3268	37	79
DTX404084	8.4	.3307	37	79
DTX404085	8.5	.3346	37	79
DTX404086	8.6	.3386	40	84
DTX404087	8.7	.3425	40	84
DTX404088	8.8	.3465	40	84
DTX404089	8.9	.3504	40	84
DTX404090	9.0	.3543	40	84
DTX404091	9.1	.3583	40	84
DTX404092	9.2	.3622	40	84
DTX404093	9.3	.3661	40	84
DTX404094	9.4	.3701	40	84
DTX404095	9.5	.3740	40	84
DTX404096	9.6	.3780	43	89
DTX404097	9.7	.3819	43	89
DTX404098	9.8	.3858	43	89
DTX404099	9.9	.3898	43	89
DTX404100	10.0	.3937	43	89
DTX404102	10.2	.4016	43	89

► Other shank types are available on your request.

◎ : Excellent ○ : Good																																									
ISO	P										M										K																				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron			Nodular cast iron			Malleable cast iron														
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRC	13	25	28	32	10	29	32	38	15	35	15	23	10	26	3	25	21	19	20	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230		
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S										H																				
Material Description	Aluminum wrought alloy					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials					Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron														
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
HB	60	100	75	90	130	110	90	100			15	20	280	250	350	320	400 fcm	1050 fcm	550	630	400	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Recommended																																									

42 YG YG-1 CO., LTD. Phone: 800-765-8665 | Technical Support: 888-868-5988 | yg1usa.com



RCH-COATED SOLID CARBIDE DREAM DRILL X without COOLANT HOLES

NEW SERIES
DTX423

- Upgraded Coating for Higher Tool Life in Various Materials
- Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- Good Self-Centering even at Low Feed Rates and Unstable Situations
- Excellent Chip Breaking and Chip Evacuation



DIN 6537 CARBIDE h6 m7 140° RCH Coating p.54

SHORT
3 × D

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2
DTX423030	3.0		.1181	6	20	62
DTX423031	3.1		.1220	6	20	62
DTX423008F	3.175	1/8	.1250	6	20	62
DTX423032	3.2		.1260	6	20	62
DTX423033	3.3		.1299	6	20	62
DTX423034	3.4		.1339	6	20	62
DTX423035	3.5		.1378	6	20	62
DTX423009F	3.572	9/64	.1406	6	20	62
DTX423036	3.6		.1417	6	20	62
DTX423037	3.7		.1457	6	20	62
DTX423038	3.8		.1496	6	24	66
DTX423039	3.9		.1535	6	24	66
DTX423010F	3.969	5/32	.1563	6	24	66
DTX423040	4.0		.1575	6	24	66
DTX423041	4.1		.1614	6	24	66
DTX423042	4.2		.1654	6	24	66
DTX423043	4.3		.1693	6	24	66
DTX423011F	4.366	11/64	.1719	6	24	66
DTX423044	4.4		.1732	6	24	66
DTX423045	4.5		.1772	6	24	66
DTX423046	4.6		.1811	6	24	66
DTX423047	4.7		.1850	6	24	66
DTX423012F	4.763	3/16	.1875	6	24	66
DTX423048	4.8		.1890	6	28	66
DTX423049	4.9		.1929	6	28	66
DTX423050	5.0		.1969	6	28	66

► Other shank types are available on your request.

► NEXT PAGE

																				◎ : Excellent ○ : Good																					
ISO	P										M										K																				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron					Nodular cast iron					Malleable cast iron										
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRC	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	19	21	21	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎
ISO	N										S										C																				
Material Description	Aluminum wrought alloy		Aluminum cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron																			
VDI 3323	1	2	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																			
HRC	60	100	75	90	130	110	90	28	29	30	15	30	35	38	34	36	37	38	39	40	41	42																			
HB	60	100	75	90	130	110	90	28	29	30	200	280	250	350	320	400 fcm	1050 kcm	50	630	400	550	550																			
Recommended																		◎																							

Phone: 800-765-8665 | Technical Support: 888-868-5988 | yg1usa.com

YG YG-1 CO., LTD. 43



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



SHORT

3xD

Unit : mm													
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX423070	7.0		.2756	8	34	79	DTX423090	9.0		.3543	10	47	89
DTX423071	7.11		.2795	8	41	79	DTX423091	9.1		.3583	10	47	89
DTX423018F	7.144	9/32	.2812	8	41	79	DTX423023F	9.128	23/64	.3594	10	47	89
DTX423072	7.2		.2835	8	41	79	DTX423092	9.2		.3622	10	47	89
DTX423073	7.3		.2874	8	41	79	DTX423093	9.3		.3661	10	47	89
DTX423074	7.4		.2913	8	41	79	DTX423021L	9.347	U	.3680	10	47	89
DTX423075	7.5		.2953	8	41	79	DTX423094	9.4		.3701	10	47	89
DTX423019F	7.541	19/64	.2969	8	41	79	DTX423095	9.5		.3740	10	47	89
DTX423076	7.6		.2992	8	41	79	DTX423024F	9.525	3/8	.3750	10	47	89
DTX423077	7.7		.3031	8	41	79	DTX423096	9.6		.3780	10	47	89
DTX423078	7.8		.3071	8	41	79	DTX423097	9.7		.3819	10	47	89
DTX423079	7.9		.3110	8	41	79	DTX423098	9.8		.3858	10	47	89
DTX423020F	7.938	5/16	.3125	8	41	79	DTX423099	9.9		.3898	10	47	89
DTX423080	8.0		.3150	8	41	79	DTX423025F	9.922	25/64	.3906	10	47	89
DTX423081	8.1		.3189	10	47	89	DTX423100	10.0		.3937	10	47	89
DTX423082	8.2		.3228	10	47	89	DTX423101	10.1		.3976	12	55	102
DTX423083	8.3		.3268	10	47	89	DTX423102	10.2		.4016	12	55	102
DTX423021F	8.334	21/64	.3281	10	47	89	DTX423103	10.3		.4055	12	55	102
DTX423084	8.4		.3307	10	47	89	DTX423026F	10.319	13/32	.4062	12	55	102
DTX423017L	8.433	Q	.3320	10	47	89	DTX423104	10.4		.4094	12	55	102
DTX423085	8.5		.3346	10	47	89	DTX423105	10.5		.4134	12	55	102
DTX423086	8.6		.3386	10	47	89	DTX423106	10.6		.4173	12	55	102
DTX423087	8.7		.3425	10	47	89	DTX423107	10.7		.4213	12	55	102
DTX423022F	8.731	11/32	.3438	10	47	89	DTX423027F	10.716	27/64	.4219	12	55	102
DTX423088	8.8		.3465	10	47	89	DTX423108	10.8		.4252	12	55	102
DTX423089	8.9		.3504	10	47	89	DTX423109	10.9		.4291	12	55	102

► Other shank types are available on your request.

► NEXT PAGE

◎: Excellent ○: Good

ISO		P										M						K				L			
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel and tool steels			Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron			
VDI 3323	HrC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
HB		125	150	250	270	350	380	475	500	350	325	325	200	240	180	180	260	250	300	230	230				
Recommended			(e)				(e)	(e)																	
ISO		N										S										H			
Material Description		Aluminum-cast alloys		Copper and Copper Alloys Bronze / Brass				Non Metallic Material		Heat Resistant Super Alloys					Titanium Alloys			Hardened Cast Iron	Chilled Cast Iron	Hardened Steel					
VDI 3323	HrC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41			
HB		60	100	75	90	130	110	90	100			15	15	30	35	38	34	34	36	37	42	50			
Recommended												200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550			



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



SHORT

3x3

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length							
	Metric	Fractional	Decimal				EDP No.	Metric	Fractional	Decimal	Shank Diameter	Flute Length	Overall Length
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX423110	11.0		.4331	12	55	102	DTX423132	13.2		.5197	14	60	107
DTX423111	11.1		.4370	12	55	102	DTX423133	13.3		.5236	14	60	107
DTX423028F	11.113	7/16	.4375	12	55	102	DTX423134	13.4		.5276	14	60	107
DTX423112	11.2		.4409	12	55	102	DTX423135	13.5		.5315	14	60	107
DTX423113	11.3		.4449	12	55	102	DTX423136	13.6		.5354	14	60	107
DTX423114	11.4		.4488	12	55	102	DTX423137	13.7		.5394	14	60	107
DTX423115	11.5		.4528	12	55	102	DTX423138	13.8		.5433	14	60	107
DTX423029F	11.509	29/64	.4531	12	55	102	DTX423139	13.9		.5472	14	60	107
DTX423116	11.6		.4567	12	55	102	DTX423140	14.0		.5512	14	60	107
DTX423117	11.7		.4606	12	55	102	DTX423141	14.1		.5551	16	65	115
DTX423118	11.8		.4646	12	55	102	DTX423142	14.2		.5591	16	65	115
DTX423119	11.9		.4685	12	55	102	DTX423036F	14.288	9/16	.5625	16	65	115
DTX423030F	11.906	15/32	.4688	12	55	102	DTX423143	14.3		.5630	16	65	115
DTX423120	12.0		.4724	12	55	102	DTX423144	14.4		.5669	16	65	115
DTX423121	12.1		.4764	14	60	107	DTX423145	14.5		.5708	16	65	115
DTX423122	12.2		.4803	14	60	107	DTX423146	14.6		.5748	16	65	115
DTX423123	12.3		.4843	14	60	107	DTX423147	14.7		.5787	16	65	115
DTX423031F	12.303	31/64	.4844	14	60	107	DTX423148	14.8		.5827	16	65	115
DTX423124	12.4		.4882	14	60	107	DTX423149	14.9		.5866	16	65	115
DTX423125	12.5		.4921	14	60	107	DTX423150	15.0		.5905	16	65	115
DTX423126	12.6		.4961	14	60	107	DTX423151	15.1		.5945	16	65	115
DTX423032F	12.6	1/2	.5000	14	60	107	DTX423152	15.2		.5984	16	65	115
DTX423128	12.8		.5039	14	60	107	DTX423153	15.3		.6024	16	65	115
DTX423129	12.9		.5079	14	60	107	DTX423154	15.4		.6063	16	65	115
DTX423130	13.0		.5118	14	60	107	DTX423155	15.5		.6102	16	65	115
DTX423131	13.1		.5157	14	60	107	DTX423156	15.6		.6142	16	65	115

► Other shank types are available on your request.

► NEXT PAGE

⊙ : Excellent ○ : Good

ISO		P										M					K										
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
HB		125	130	25	28	32	10	29	32	38	15	35	15	23	10	26	3	25	21	21							
Recommended			⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙					
ISO		N										S										H					
Material Description		Aluminum wrought alloy		Aluminum cast, alloyed		Copper and Copper Alloys (Bronze & Brass)				Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened		Chilled cast		Hardened cast					
VDI 3323		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42				
HB		60	100	75	90	130	110	90	100	100		200	280	250	350	320	400 Rm	1650 Rm	50	630	400	550					
Recommended																			⊙	⊙	⊙	⊙					



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



SHORT

3xD

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX423157	15.7		.6181	16	65	115	DTX423179	17.9		.7047	18	73	123
DTX423158	15.8		.6220	16	65	115	DTX423180	18.0		.7087	18	73	123
DTX423040F	15.875	5/8	.6250	16	65	115	DTX423181	18.1		.7126	20	79	131
DTX423159	15.9		.6260	16	65	115	DTX423182	18.2		.7165	20	79	131
DTX423160	16.0		.6299	16	65	115	DTX423183	18.3		.7205	20	79	131
DTX423161	16.1		.6339	18	73	123	DTX423184	18.4		.7244	20	79	131
DTX423162	16.2		.6378	18	73	123	DTX423185	18.5		.7283	20	79	131
DTX423163	16.3		.6417	18	73	123	DTX423186	18.6		.7323	20	79	131
DTX423164	16.4		.6457	18	73	123	DTX423187	18.7		.7362	20	79	131
DTX423165	16.5		.6495	18	73	123	DTX423188	18.8		.7402	20	79	131
DTX423166	16.6		.6535	18	73	123	DTX423189	18.9		.7441	20	79	131
DTX423167	16.7		.6575	18	73	123	DTX423190	19.0		.7480	20	79	131
DTX423168	16.8		.6614	18	73	123	DTX423048F	19.050	3/4	.7500	20	79	131
DTX423169	16.9		.6654	18	73	123	DTX423191	19.1		.7520	20	79	131
DTX423170	17.0		.6692	18	73	123	DTX423192	19.2		.7559	20	79	131
DTX423171	17.1		.6732	18	73	123	DTX423193	19.3		.7598	20	79	131
DTX423172	17.2		.6772	18	73	123	DTX423194	19.4		.7638	20	79	131
DTX423173	17.3		.6811	18	73	123	DTX423195	19.5		.7676	20	79	131
DTX423174	17.4		.6850	18	73	123	DTX423196	19.6		.7717	20	79	131
DTX423044F	17.463	11/16	.6875	18	73	123	DTX423197	19.7		.7756	20	79	131
DTX423175	17.5		.6889	18	73	123	DTX423198	19.8		.7795	20	79	131
DTX423176	17.6		.6929	18	73	123	DTX423199	19.9		.7835	20	79	131
DTX423177	17.7		.6968	18	73	123	DTX423200	20.0		.7874	20	79	131
DTX423178	17.8		.7008	18	73	123							

► Other shank types are available on your request.

Ⓢ : Excellent ○ : Good																							
ISO		P										M				K				H			
Material Description		Non-alloy steel					Low alloy steel					High alloy steel, and tool steel		Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HRc		13	25	28	32	10	18	29	32	38	15	35	15	23	10	10	26	3	25	21	23		
Recommended		125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230		
		Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ		
ISO		N										S				H							
Material Description		Aluminum-wrought alloy		Aluminum-cast alloy		Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron			
VDI 3323		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HRc		60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550	
Recommended																			○				



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

5 × D

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX424010	1.0		.0394	3	8	55	DTX424008F	3.175	1/8	.1250	6	28	66
DTX424011	1.1		.0433	3	12	55	DTX424032	3.2		.1260	6	28	66
DTX424012	1.2		.0472	3	12	55	DTX424033	3.3		.1299	6	28	66
DTX424013	1.3		.0512	3	12	55	DTX424034	3.4		.1339	6	28	66
DTX424014	1.4		.0551	3	12	55	DTX424035	3.5		.1378	6	28	66
DTX424015	1.5		.0591	3	16	55	DTX424009F	3.572	9/64	.1406	6	28	66
DTX424004F	1.588	1/16	.0625	3	16	55	DTX424036	3.6		.1417	6	28	66
DTX424016	1.6		.0630	3	16	55	DTX424037	3.7		.1457	6	28	66
DTX424017	1.7		.0669	3	16	55	DTX424038	3.8		.1496	6	36	74
DTX424018	1.8		.0709	3	16	55	DTX424039	3.9		.1535	6	36	74
DTX424019	1.9		.0748	3	16	55	DTX424010F	3.969	5/32	.1563	6	36	74
DTX424005F	1.984	5/64	.0781	3	16	55	DTX424040	4.0		.1575	6	36	74
DTX424020	2.0		.0787	4	21	57	DTX424041	4.1		.1614	6	36	74
DTX424021	2.1		.0827	4	21	57	DTX424042	4.2		.1654	6	36	74
DTX424022	2.2		.0866	4	21	57	DTX424043	4.3		.1693	6	36	74
DTX424023	2.3		.0906	4	21	57	DTX424011F	4.366	11/64	.1719	6	36	74
DTX424006F	2.381	3/32	.0938	4	21	57	DTX424044	4.4		.1732	6	36	74
DTX424024	2.4		.0945	4	21	57	DTX424045	4.5		.1772	6	36	74
DTX424025	2.5		.0984	4	21	57	DTX424046	4.6		.1811	6	36	74
DTX424026	2.6		.1024	4	21	57	DTX424047	4.7		.1850	6	36	74
DTX424027	2.7		.1063	4	21	57	DTX424012F	4.763	3/16	.1875	6	36	74
DTX424007F	2.778	7/64	.1094	4	21	57	DTX424048	4.8		.1890	6	44	82
DTX424028	2.8		.1102	4	21	57	DTX424049	4.9		.1929	6	44	82
DTX424029	2.9		.1142	4	21	57	DTX424050	5.0		.1969	6	44	82
DTX424030	3.0		.1181	6	28	66	DTX424051	5.1		.2008	6	44	82
DTX424031	3.1		.1220	6	28	66	DTX424013F	5.159	13/64	.2031	6	44	82

► Other shank types are available on your request.

▶ NEXT PAGE

◎ : Excellent ○ : Good																					
ISO	P								M				K								
Material Description	Non-alloy steel				Low alloy steel				High alloy steel, and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron				
ISO 3223	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21		
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	
ISO	N																				
Material Description	Aluminum wrought alloy		Aluminum cast, alloyed		Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron		
ISO 3223	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	35	38	34	36	37	50	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended																		◎	◎	◎	◎



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

5xD

Unit : mm

EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX424052	5.2		.2047	6	44	82	DTX424018F	7.144	9/32	.2812	8	53	91
DTX424053	5.3		.2087	6	44	82	DTX424072	7.2		.2835	8	53	91
DTX424054	5.4		.2126	6	44	82	DTX424073	7.3		.2874	8	53	91
DTX424055	5.5		.2165	6	44	82	DTX424074	7.4		.2913	8	53	91
DTX424014F	5.556	7/32	.2188	6	44	82	DTX424075	7.5		.2953	8	53	91
DTX424056	5.6		.2205	6	44	82	DTX424019F	7.541	19/64	.2969	8	53	91
DTX424057	5.7		.2244	6	44	82	DTX424076	7.6		.2992	8	53	91
DTX424058	5.8		.2283	6	44	82	DTX424077	7.7		.3031	8	53	91
DTX424059	5.9		.2323	6	44	82	DTX424078	7.8		.3071	8	53	91
DTX424015F	5.953	15/64	.2344	6	44	82	DTX424079	7.9		.3110	8	53	91
DTX424060	6.0		.2362	6	44	82	DTX424020F	7.938	5/16	.3125	8	53	91
DTX424061	6.1		.2402	8	53	91	DTX424080	8.0		.3150	8	53	91
DTX424062	6.2		.2441	8	53	91	DTX424081	8.1		.3189	10	61	103
DTX424063	6.3		.2480	8	53	91	DTX424082	8.2		.3228	10	61	103
DTX424016F	6.350	1/4	.2500	8	53	91	DTX424083	8.3		.3268	10	61	103
DTX424064	6.4		.2520	8	53	91	DTX424021F	8.334	21/64	.3281	10	61	103
DTX424065	6.5		.2559	8	53	91	DTX424084	8.4		.3307	10	61	103
DTX424006L	6.528	F	.2570	8	53	91	DTX424017L	8.433	Q	.3320	10	61	103
DTX424066	6.6		.2598	8	53	91	DTX424085	8.5		.3346	10	61	103
DTX424067	6.7		.2638	8	53	91	DTX424086	8.6		.3386	10	61	103
DTX424017F	6.747	17/64	.2656	8	53	91	DTX424087	8.7		.3425	10	61	103
DTX424068	6.8		.2677	8	53	91	DTX424022F	8.731	11/32	.3438	10	61	103
DTX424069	6.9		.2717	8	53	91	DTX424088	8.8		.3465	10	61	103
DTX424009L	6.909	I	.2720	8	53	91	DTX424089	8.9		.3504	10	61	103
DTX424070	7.0		.2756	8	53	91	DTX424090	9.0		.3543	10	61	103
DTX424071	7.1		.2795	8	53	91	DTX424091	9.1		.3583	10	61	103

► Other shank types are available on your request.

► NEXT PAGE

⊙: Excellent ○: Good

[illegible]

RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

5 × D

							Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX424023F	9.128	23/64	.3594	10	61	103	DTX424028F	11.113	7/16	.4375	12	71	118
DTX424092	9.2		.3622	10	61	103	DTX424112	11.2		.4409	12	71	118
DTX424093	9.3		.3661	10	61	103	DTX424113	11.3		.4449	12	71	118
DTX424021L	9.347	U	.3680	10	61	103	DTX424114	11.4		.4488	12	71	118
DTX424094	9.4		.3701	10	61	103	DTX424115	11.5		.4528	12	71	118
DTX424095	9.5		.3740	10	61	103	DTX424029F	11.509	29/64	.4531	12	71	118
DTX424024F	9.525	3/8	.3750	10	61	103	DTX424116	11.6		.4567	12	71	118
DTX424096	9.6		.3780	10	61	103	DTX424117	11.7		.4606	12	71	118
DTX424097	9.7		.3819	10	61	103	DTX424118	11.8		.4646	12	71	118
DTX424098	9.8		.3858	10	61	103	DTX424119	11.9		.4685	12	71	118
DTX424099	9.9		.3898	10	61	103	DTX424030F	11.906	15/32	.4688	12	71	118
DTX424025F	9.922	25/64	.3906	10	61	103	DTX424120	12.0		.4724	12	71	118
DTX424100	10.0		.3937	10	61	103	DTX424121	12.1		.4764	14	77	124
DTX424101	10.1		.3976	12	71	118	DTX424122	12.2		.4803	14	77	124
DTX424102	10.2		.4016	12	71	118	DTX424123	12.3		.4843	14	77	124
DTX424103	10.3		.4055	12	71	118	DTX424031F	12.303	31/64	.4844	14	77	124
DTX424026F	10.319	13/32	.4062	12	71	118	DTX424124	12.4		.4882	14	77	124
DTX424104	10.4		.4094	12	71	118	DTX424125	12.5		.4921	14	77	124
DTX424105	10.5		.4134	12	71	118	DTX424126	12.6		.4961	14	77	124
DTX424106	10.6		.4173	12	71	118	DTX424032F	12.7	1/2	.5000	14	77	124
DTX424107	10.7		.4213	12	71	118	DTX424128	12.8		.5039	14	77	124
DTX424027F	10.716	27/64	.4219	12	71	118	DTX424129	12.9		.5079	14	77	124
DTX424108	10.8		.4252	12	71	118	DTX424130	13.0		.5118	14	77	124
DTX424109	10.9		.4291	12	71	118	DTX424131	13.1		.5157	14	77	124
DTX424110	11.0		.4331	12	71	118	DTX424132	13.2		.5197	14	77	124
DTX424111	11.1		.4370	12	71	118	DTX424133	13.3		.5236	14	77	124

► Other shank types are available on your request.

► NEXT PAGE

⊙: Excellent ○: Good

ISO Material Description		P										M										K					
		Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel					Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	HfC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
HB		125	150	175	200	220	240	260	275	300	315	330	345	360	380	400	420	450	480	500	520						
Recommended		Ⓐ		Ⓑ		Ⓒ		Ⓓ		Ⓔ		Ⓜ		Ⓝ		Ⓟ		Ⓡ		Ⓢ							
ISO Material Description		N										S										H					
		Aluminum- wrought alloy		Aluminum-cast alloyed		Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys					Hardened steel		Chilled steel		Hardened cast iron			
VDI 3323	HfC	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41					
HB		60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550					
Recommended		Ⓐ		Ⓑ		Ⓒ		Ⓓ		Ⓜ					Ⓝ					Ⓟ		Ⓡ		Ⓢ			



RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

5xD

Unit : mm													
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length	EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal					Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2	RCH-Coating	D1			D2	L1	L2
DTX424134	13.4		.5276	14	77	124	DTX424040F	15.875	5/8	.6250	16	83	133
DTX424135	13.5		.5315	14	77	124	DTX424159	15.9		.6260	16	83	133
DTX424136	13.6		.5354	14	77	124	DTX424160	16.0		.6299	16	83	133
DTX424137	13.7		.5394	14	77	124	DTX424161	16.1		.6339	18	93	143
DTX424138	13.8		.5433	14	77	124	DTX424162	16.2		.6378	18	93	143
DTX424139	13.9		.5472	14	77	124	DTX424163	16.3		.6417	18	93	143
DTX424140	14.0		.5512	14	77	124	DTX424164	16.4		.6457	18	93	143
DTX424141	14.1		.5551	16	83	133	DTX424165	16.5		.6495	18	93	143
DTX424142	14.2		.5591	16	83	133	DTX424166	16.6		.6535	18	93	143
DTX424036F	14.288	9/16	.5625	16	83	133	DTX424167	16.7		.6575	18	93	143
DTX424143	14.3		.5630	16	83	133	DTX424168	16.8		.6614	18	93	143
DTX424144	14.4		.5669	16	83	133	DTX424169	16.9		.6654	18	93	143
DTX424145	14.5		.5708	16	83	133	DTX424170	17.0		.6692	18	93	143
DTX424146	14.6		.5748	16	83	133	DTX424171	17.1		.6732	18	93	143
DTX424147	14.7		.5787	16	83	133	DTX424172	17.2		.6772	18	93	143
DTX424148	14.8		.5827	16	83	133	DTX424173	17.3		.6811	18	93	143
DTX424149	14.9		.5866	16	83	133	DTX424174	17.4		.6850	18	93	143
DTX424150	15.0		.5905	16	83	133	DTX424175	17.5		.6889	18	93	143
DTX424151	15.1		.5945	16	83	133	DTX424176	17.6		.6929	18	93	143
DTX424152	15.2		.5984	16	83	133	DTX424177	17.7		.6968	18	93	143
DTX424153	15.3		.6024	16	83	133	DTX424178	17.8		.7008	18	93	143
DTX424154	15.4		.6063	16	83	133	DTX424179	17.9		.7047	18	93	143
DTX424155	15.5		.6102	16	83	133	DTX424180	18.0		.7087	18	93	143
DTX424156	15.6		.6142	16	83	133	DTX424181	18.1		.7126	20	101	153
DTX424157	15.7		.6181	16	83	133	DTX424182	18.2		.7165	20	101	153
DTX424158	15.8		.6220	16	83	133	DTX424183	18.3		.7205	20	101	153

► Other shank types are available on your request.

► NEXT PAGE

⊙: Excellent ○: Good

[illegible]

RCH-COATED SOLID CARBIDE
DREAM DRILL X without COOLANT HOLES

- ▶ Upgraded Coating for Higher Tool Life in Various Materials
- ▶ Soft Cutting Action and Reduced Axial Forces; Easy to Recondition
- ▶ Good Self-Centering even at Low Feed Rates and Unstable Situations
- ▶ Excellent Chip Breaking and Chip Evacuation



LONG

5 × D

Unit : mm						
EDP No.	Drill Diameter			Shank Diameter	Flute Length	Overall Length
	Metric	Fractional	Decimal			
RCH-Coating	D1			D2	L1	L2
DTX424184	18.4		.7244	20	101	153
DTX424185	18.5		.7283	20	101	153
DTX424186	18.6		.7323	20	101	153
DTX424187	18.7		.7362	20	101	153
DTX424188	18.8		.7402	20	101	153
DTX424189	18.9		.7441	20	101	153
DTX424190	19.0		.7480	20	101	153
DTX424048F	19.005	3/4	.7500	20	101	153
DTX424191	19.1		.7520	20	101	153

► Other shank types are available on your request.

⊙: Excellent ○: Good

ISO		P										M										K					
Material Description		Non-alloy steel					Low alloy steel					High alloyed steel, tool steel					Stainless steel					Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				
HR		125	190	250	270	300	180	275	300	350	200	320	350	400	450	240	180	260	280	250	280	320	350				
Recommended		Ⓐ					Ⓐ					Ⓐ					Ⓐ					Ⓐ		Ⓐ		Ⓐ	
ISO		N										S										H					
Material Description		Aluminum wrought alloy		Aluminum cast, alloyed		Copper and Copper Alloys (Brass)		Copper and Copper Alloys (Bronze)		Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys					Hardened steel		Chilled Cast Iron		Hardened Cast Iron	
VDI 3323		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44		
HR		60	100	75	90	130	110	90	150	100	15	15	20	280	250	350	320	400	1050	100	550	630	400	400	550		
Recommended																											



RECOMMENDED CUTTING CONDITIONS

DTX416, DTX418, DTX711

DTX712, DTX406, DTX408, DTX421 SERIES with COOLANT HOLES

SFM = ft/min.
RPM = rev/min.
FEED = inch/rev.

ISO	VDI 3323	Material Description	SFM				Drill Diameter								
			1.0 – 2.9		Drill Diameter		SFM		Drill Diameter						
			METRIC	1.0	2.0	3.0 – 20.0	METRIC	3.0	-	4.0	-	5.0	6.0	-	
			-	FRACTIONAL	-	-	1/8 – 3/4	FRACTIONAL	-	1/8	-	3/16	-	-	1/4
			.0394 ~ .0787	DECIMAL	.0394	.0787	.1181 ~ .7874	DECIMAL	.1181	.1250	.1575	.1875	.1969	.2362	.2500
P	2	Non-alloy steel	263	RPM	25460	12730	362	RPM	11670	8750	7000	5840			
			FEED	.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087				
	3		263	RPM	25460	12730	362	RPM	11670	8750	7000	5840			
			FEED	.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087				
	4	263	RPM	25460	12730	362	RPM	11670	8750	7000	5840				
		FEED	.0012 - .0020	.0020 - .0028		FEED	.0016 - .0039	.0028 - .0051	.0039 - .0063	.0047 - .0071					
	5	230	RPM	22280	11140	296	RPM	9550	7160	5730	4770				
		FEED	.0012 - .0020	.0020 - .0028		FEED	.0016 - .0039	.0028 - .0051	.0039 - .0063	.0047 - .0071					
	6	Low alloy steel	263	RPM	25460	12730	362	RPM	11670	8750	7000	5840			
			FEED	.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087				
	7		230	RPM	22280	11140	296	RPM	9550	7160	5730	4770			
	FEED		.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0039 - .0079	.0047 - .0094					
8	230		RPM	22280	11140	296	RPM	9550	7160	5730	4770				
		FEED	.0008 - .0016	.0012 - .0020		FEED	.0016 - .0039	.0028 - .0051	.0039 - .0063	.0047 - .0071					
9	High alloyed steel, and tool steel	132	RPM	12730	6370	165	RPM	5310	3980	3180	2650				
		FEED	.0008 - .0016	.0012 - .0020		FEED	.0012 - .0031	.0020 - .0043	.0031 - .0055	.0039 - .0063					
10		198	RPM	19100	9550	263	RPM	8490	6370	5090	4240				
11		132	RPM	12730	6370	148	RPM	4770	3580	2860	2390				
		FEED	.0008 - .0016	.0012 - .0020		FEED	.0012 - .0031	.0020 - .0043	.0031 - .0055	.0039 - .0063					
M	12	Stainless steel	198	RPM	19100	9550	263	RPM	8490	6370	5090	4240			
			FEED	.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087				
	13		148	RPM	14320	7160	181	RPM	5840	4380	3500	2920			
		FEED	.0008 - .0016	.0012 - .0020		FEED	.0016 - .0039	.0028 - .0051	.0039 - .0063	.0047 - .0071					
K	15	Grey cast iron	263	RPM	25460	12730	362	RPM	11670	8750	7000	5840			
			FEED	.0016 - .0024	.0016 - .0024		FEED	.0031 - .0055	.0047 - .0071	.0059 - .0087	.0079 - .0102				
	16	247	RPM	23870	11940	313	RPM	10080	7560	6050	5040				
		FEED	.0016 - .0024	.0016 - .0024		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087					
	17	Nodular cast iron	296	RPM	28650	14320	395	RPM	12730	9550	7640	6370			
			FEED	.0016 - .0024	.0016 - .0024		FEED	.0031 - .0055	.0047 - .0071	.0059 - .0087	.0079 - .0102				
	18		198	RPM	19100	9550	263	RPM	8490	6370	5090	4240			
			FEED	.0016 - .0024	.0016 - .0024		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087				
19	Malleable cast iron	230	RPM	22280	11140	296	RPM	9550	7160	5730	4770				
		FEED	.0016 - .0024	.0016 - .0024		FEED	.0031 - .0055	.0047 - .0071	.0059 - .0087	.0079 - .0102					
20	198	RPM	19100	9550	263	RPM	8490	6370	5090	4240					
		FEED	.0012 - .0020	.0020 - .0028		FEED	.0024 - .0047	.0031 - .0055	.0055 - .0079	.0063 - .0087					
H	38	Hardened steel	82	RPM	7960	3980	98	RPM	3180	2390	1910	1590			
			FEED	.0004 - .0008	.0004 - .0012		FEED	.0004 - .0012	.0004 - .0016	.0008 - .0020	.0012 - .0024				

► Recommend to reduce the feed rate as following

Feed 100% : DTX416/DTX711(3xD), DTX406(3xD), DTX418/DTX712(5xD), DTX408(5xD)

Feed 75% : DTX421(8xD)

► NEXT PAGE

RECOMMENDED CUTTING CONDITIONS



DTX416, DTX418, DTX711

DTX712, DTX406, DTX408, DTX421 SERIES with COOLANT HOLES

SFM = ft/min.
RPM = rev/min.
FEED = inch/rev.

ISO	VDI 3323	SFM	Drill Diameter															
		3.0 ~ 20.0	METRIC	-	8.0	-	10.0	12.0	-	14.0	-	16.0	18.0	-	20.0			
		1/8 - 3/4	FRACTIONAL	5/16	-	3/8	-	-	1/2	-	9/16	5/8	-	-	3/4	-		
		.1181 ~ .7874	DECIMAL	.3125	.3150	.3750	.3937	.4724	.5000	.5512	.5625	.6250	.6299	.7087	.7500	.7874		
P	2	362	RPM	4380	3500	2920	2770	2500	2190	1950	1840	1750						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
	3	362	RPM	4380	3500	2920	2770	2500	2190	1950	1840	1750						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
	4	362	RPM	4380	3500	2920	2770	2500	2190	1950	1840	1750						
		FEED	.0055 - .0079	.0059 - .0091	.0067 - .0098	.0067 - .0098	.0071 - .0102	.0075 - .0106	.0079 - .0118	.0079 - .0118	.0087 - .0126							
	5	296	RPM	3580	2860	2390	2260	2050	1790	1590	1510	1430						
		FEED	.0055 - .0079	.0059 - .0091	.0067 - .0098	.0067 - .0098	.0071 - .0102	.0075 - .0106	.0079 - .0118	.0079 - .0118	.0087 - .0126							
	6	362	RPM	4380	3500	2920	2770	2500	2190	1950	1840	1750						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
	7	296	RPM	3580	2860	2390	2260	2050	1790	1590	1510	1430						
		FEED	.0063 - .0110	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
	8	296	RPM	3580	2860	2390	2260	2050	1790	1590	1510	1430						
		FEED	.0055 - .0079	.0059 - .0091	.0067 - .0098	.0067 - .0098	.0071 - .0102	.0075 - .0106	.0079 - .0118	.0079 - .0118	.0087 - .0126							
	9	165	RPM	1990	1590	1330	1260	1140	990	880	840	800						
		FEED	.0047 - .0071	.0051 - .0075	.0055 - .0079	.0055 - .0079	.0059 - .0083	.0063 - .0087	.0067 - .0098	.0063 - .0102	.0071 - .0110							
10	263	RPM	3180	2550	2120	2010	1820	1590	1410	1340	1270							
	FEED	.0055 - .0079	.0059 - .0091	.0067 - .0098	.0067 - .0098	.0071 - .0102	.0075 - .0106	.0079 - .0118	.0079 - .0118	.0087 - .0126								
11	148	RPM	1790	1430	1190	1130	1020	900	800	750	720							
	FEED	.0047 - .0071	.0051 - .0075	.0055 - .0079	.0055 - .0079	.0059 - .0083	.0063 - .0087	.0067 - .0098	.0063 - .0102	.0071 - .0110								
M	12	263	RPM	3180	2550	2120	2010	1820	1590	1410	1340	1270						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
K	13	181	RPM	2190	1750	1460	1380	1250	1090	970	920	880						
		FEED	.0055 - .0079	.0059 - .0091	.0067 - .0098	.0067 - .0098	.0071 - .0102	.0075 - .0106	.0079 - .0118	.0079 - .0118	.0087 - .0126							
	15	362	RPM	4380	3500	2920	2770	2500	2190	1950	1840	1750						
		FEED	.0087 - .0110	.0098 - .0130	.0106 - .0138	.0106 - .0138	.0114 - .0146	.0122 - .0154	.0126 - .0165	.0126 - .0165	.0134 - .0173							
	16	313	RPM	3780	3020	2520	2390	2160	1890	1680	1590	1510						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
	17	395	RPM	4770	3820	3180	3020	2730	2390	2120	2010	1910						
		FEED	.0087 - .0110	.0098 - .0130	.0106 - .0138	.0106 - .0138	.0114 - .0146	.0122 - .0154	.0126 - .0165	.0126 - .0165	.0134 - .0173							
	18	263	RPM	3180	2550	2120	2010	1820	1590	1410	1340	1270						
		FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157							
19	296	RPM	3580	2860	2390	2260	2050	1790	1590	1510	1430							
	FEED	.0087 - .0110	.0098 - .0130	.0106 - .0138	.0106 - .0138	.0114 - .0146	.0122 - .0154	.0126 - .0165	.0126 - .0165	.0134 - .0173								
20	263	RPM	3180	2550	2120	2010	1820	1590	1410	1340	1270							
	FEED	.0071 - .0094	.0075 - .0106	.0083 - .0114	.0083 - .0114	.0091 - .0122	.0098 - .0130	.0110 - .0150	.0110 - .0150	.0118 - .0157								
H	38	98	RPM	1190	950	800	750	680	600	530	500	480						
		FEED	.0012 - .0024	.0016 - .0028	.0016 - .0031	.0016 - .0031	.0020 - .0035	.0020 - .0035	.0020 - .0035	.0020 - .0035	.0020 - .0039	.0020 - .0039						



RECOMMENDED CUTTING CONDITIONS

DTX414, DTX722, DTX404, DTX423, DTX424 SERIES

without COOLANT HOLES

 SFM = ft/min.
 RPM = rev/min.
 FEED = inch/rev.

ISO	VDI 3323	Material Description	SFM				Drill Diameter				SFM				Drill Diameter											
			1.0 ~ 2.9		1.0		2.0		3.0 ~ 20.0		METRIC		3.0		-		4.0		-		5.0		6.0		-	
			FRACTIONAL		-		-		1/8 ~ 3/4		FRACTIONAL		-		1/8		-		3/16		-		1/2		1/4	
			.0394 ~ .0787		DECIMAL		.0394		.0787		.1181 ~ .7874		DECIMAL		.1181		.1250		.1575		.1875		.1969		.2362	
P	2	Non-alloy steel	230	RPM	22280	11140	329	RPM	10610	7960	6370	5310														
			FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087															
	3		230	RPM	22280	11140	329	RPM	10610	7960	6370	5310														
			FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087															
	4	230	RPM	22280	11140	329	RPM	10610	7960	6370	5310															
		FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0016 ~ .0039	.0028 ~ .0051	.0039 ~ .0063	.0047 ~ .0071																
	5	197	RPM	19100	9550	263	RPM	8490	6370	5090	4240															
		FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0016 ~ .0039	.0028 ~ .0051	.0039 ~ .0063	.0047 ~ .0071																
	6	Low alloy steel	230	RPM	22280	11140	329	RPM	10610	7960	6370	5310														
			FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087															
	7		197	RPM	19100	9550	263	RPM	8490	6370	5090	4240														
			FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0039 ~ .0079	.0047 ~ .0094															
8	197	RPM	19100	9550	263	RPM	8490	6370	5090	4240																
	FEED	.0008 ~ .0016	.0012 ~ .0020		FEED	.0016 ~ .0039	.0028 ~ .0051	.0039 ~ .0063	.0047 ~ .0071																	
9	99	RPM	9550	4770	132	RPM	4240	3180	2550	2120																
	FEED	.0008 ~ .0016	.0012 ~ .0020		FEED	.0012 ~ .0031	.0020 ~ .0043	.0031 ~ .0055	.0039 ~ .0063																	
10	High alloyed steel, and tool steel	165	RPM	15920	7960	230	RPM	7430	5570	4460	3710															
		FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0016 ~ .0039	.0028 ~ .0051	.0039 ~ .0063	.0047 ~ .0071																
11	99	RPM	9550	4770	132	RPM	4240	3180	2550	2120																
	FEED	.0008 ~ .0016	.0012 ~ .0020		FEED	.0012 ~ .0031	.002 ~ .0043	.0031 ~ .0055	.0039 ~ .0063																	
M	12	Stainless steel	165	RPM	15920	7960	230	RPM	7430	5570	4460	3710														
			FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087															
	13	115	RPM	11140	5570	148	RPM	4770	3580	2860	2390															
	FEED	.0008 ~ .0016	.0012 ~ .0020		FEED	.0016 ~ .0039	.0028 ~ .0051	.0039 ~ .0063	.0047 ~ .0071																	
K	15	Grey cast iron	230	RPM	22280	11140	329	RPM	10610	7960	6370	5310														
			FEED	.0016 ~ .0024	.0016 ~ .0024		FEED	.0031 ~ .0055	.0047 ~ .0071	.0059 ~ .0087	.0079 ~ .0102															
	16	214	RPM	20690	10350	263	RPM	8490	6370	5090	4240															
		FEED	.0016 ~ .0024	.0016 ~ .0024		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087																
	17	Nodular cast iron	230	RPM	22280	11140	329	RPM	10610	7960	6370	5310														
			FEED	.0016 ~ .0024	.0016 ~ .0024		FEED	.0031 ~ .0055	.0047 ~ .0071	.0059 ~ .0087	.0079 ~ .0102															
	18	165	RPM	15920	7960	230	RPM	7430	5570	4460	3710															
		FEED	.0016 ~ .0024	.0016 ~ .0024		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087																
19	Malleable cast iron	197	RPM	19100	9550	263	RPM	8490	6370	5090	4240															
		FEED	.0016 ~ .0024	.0016 ~ .0024		FEED	.0031 ~ .0055	.0047 ~ .0071	.0059 ~ .0087	.0079 ~ .0102																
20	165	RPM	15920	7960	230	RPM	7430	5570	4460	3710																
	FEED	.0012 ~ .0020	.0020 ~ .0028		FEED	.0024 ~ .0047	.0031 ~ .0055	.0055 ~ .0079	.0063 ~ .0087																	
H	38	Hardened steel	65	RPM	6370	3180	82	RPM	2650	1990	1590	1330														
			FEED	.0004 ~ .0008	.0004 ~ .0012		FEED	.0004 ~ .0012	.0004 ~ .0016	.0008 ~ .0020	.0012 ~ .0024															

▶ Recommend to reduce the feed rate as following

▶ NEXT PAGE

RECOMMENDED CUTTING CONDITIONS

DTX414, DTX722, DTX404, DTX423, DTX424 SERIES

without COOLANT HOLES

 SFM = ft/min.
 RPM = rev/min.
 FEED = inch/rev.

ISO	VDI 3323	SFM	Drill Diameter																	
		METRIC	-	8.0	-	10.0	-	12.0	-	14.0	-	16.0	-	18.0	-	20.0				
		FRACTIONAL	5/16	-	3/8	-	-	1/2	-	5/8	-	-	-	-	3/4	-	2.0			
		.1181 ~.7874	DECIMAL	.3125	.3150	.3750	.3937	.4724	.5000	.5512	.5625	.6250	.6299	.7087	.7500	.7874				
P	2	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	3	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	4	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0055 ~ .0079		.0059 ~ .0091		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0102		.0075 ~ .0106		.0079 ~ .0118		.0079 ~ .0118		.0087 ~ .0126
	5	263	RPM	3180		2550		2120		2010		1820		1590		1410		1340		1270
			FEED	.0055 ~ .0079		.0059 ~ .0091		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0102		.0075 ~ .0106		.0079 ~ .0118		.0079 ~ .0118		.0087 ~ .0126
	6	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	7	263	RPM	3180		2550		2120		2010		1820		1590		1410		1340		1270
			FEED	.0063 ~ .011		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	8	263	RPM	3180		2550		2120		2010		1820		1590		1410		1340		1270
			FEED	.0055 ~ .0079		.0059 ~ .0091		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0102		.0075 ~ .0106		.0079 ~ .0118		.0079 ~ .0118		.0087 ~ .0126
	9	132	RPM	1590		1270		1060		1010		910		800		710		670		640
			FEED	.0047 ~ .0071		.0051 ~ .0075		.0055 ~ .0079		.0055 ~ .0079		.0059 ~ .0083		.0063 ~ .0087		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0110
	10	230	RPM	2790		2230		1860		1760		1590		1390		1240		1170		1110
			FEED	.0055 ~ .0079		.0059 ~ .0091		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0102		.0075 ~ .0106		.0079 ~ .0118		.0079 ~ .0118		.0087 ~ .0126
11	132	RPM	1590		1270		1060		1010		910		800		710		670		640	
		FEED	.0047 ~ .0071		.0051 ~ .0075		.0055 ~ .0079		.0055 ~ .0079		.0059 ~ .0083		.0063 ~ .0087		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0110	
M	12	230	RPM	2790		2230		1860		1760		1590		1390		1240		1170		1110
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	13	148	RPM	1790		1430		1190		1130		1020		900		800		750		720
K			FEED	.0055 ~ .0079		.0059 ~ .0091		.0067 ~ .0098		.0067 ~ .0098		.0071 ~ .0102		.0075 ~ .0106		.0079 ~ .0118		.0079 ~ .0118		.0087 ~ .0126
	15	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0087 ~ .0110		.0098 ~ .0130		.0106 ~ .0138		.0106 ~ .0138		.0114 ~ .0146		.0122 ~ .0154		.0126 ~ .0165		.0126 ~ .0165		.0134 ~ .0173
	16	263	RPM	3180		2550		2120		2010		1820		1590		1410		1340		1270
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	17	329	RPM	3980		3180		2650		2510		2270		1990		1770		1680		1590
			FEED	.0087 ~ .0110		.0098 ~ .0130		.0106 ~ .0138		.0106 ~ .0138		.0114 ~ .0146		.0122 ~ .0154		.0126 ~ .0165		.0126 ~ .0165		.0134 ~ .0173
	18	230	RPM	2790		2230		1860		1760		1590		1390		1240		1170		1110
			FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157
	19	263	RPM	3180		2550		2120		2010		1820		1590		1410		1340		1270
			FEED	.0087 ~ .0110		.0098 ~ .0130		.0106 ~ .0138		.0106 ~ .0138		.0114 ~ .0146		.0122 ~ .0154		.0126 ~ .0165		.0126 ~ .0165		.0134 ~ .0173
	20	230	RPM	2790		2230		1860		1760		1590		1390		1240		1170		1110
		FEED	.0071 ~ .0094		.0075 ~ .0106		.0083 ~ .0114		.0083 ~ .0114		.0091 ~ .0122		.0098 ~ .0130		.0110 ~ .0150		.0110 ~ .0150		.0118 ~ .0157	
H	38	82	RPM	990		800		660		620		570		500		440		420		400
			FEED	.0012 ~ .0024		.0016 ~ .0028		.0016 ~ .0031		.0016 ~ .0031		.0020 ~ .0035		.0020 ~ .0035		.0020 ~ .0039		.0020 ~ .0039		.0020 ~ .0039

▶ Recommend to reduce the feed rate as following


Tool+Cutter
 www.toolandcutter.com

support@toolandcutter.com

1.800.265.6056

