

New Product Announcement

NPAD-2409-E



DREAM DRILL X

Multi-Purpose Solid Carbide Drilling up to HRc50



NEW

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Multi-Purpose Solid Carbide Drilling up to HRc50

NEW PROPRIETARY COATING UPGRADE BOOSTS PERFORMANCE IN STEEL AND CAST IRON APPLICATIONS.

Value

Building on the incredibly successful Dream Drill Platform, YG-1 presents a new coating combining the major benefits of TiAlN and AlCrN into a new Nano-Layered Multilayer coating generation.

Main Concept

- After many successful years in the market, a coating upgrade is necessary utilizing latest coating technologies developed by YG-1
- The new RCH-Coating provides up to 50% higher tool life compared to the conventional TiAlN-coated carbide drill
- The geometry itself remains unchanged to ease the switch from Dream Drill General to Dream Drill X
- Dream Drill X covers at Product Launch the main catalog EDPs known from Dream Drill General in recent catalogs

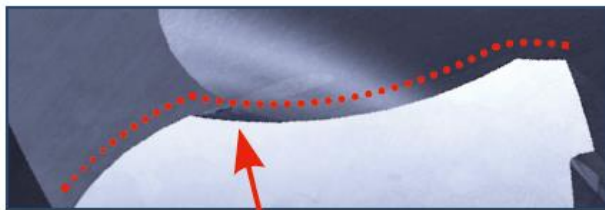


Product Feature

New Coating Technology “RCH-Coating”

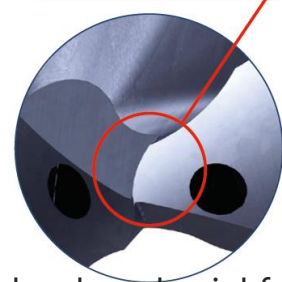
- Improved Hardness and Toughness
- The RCH-Coating provides a higher hardness than TiAlN or AlCrN-coatings in general.
- High thermal stability and oxidation resistance
- At insufficient coolant conditions where higher temperatures occur, RCH-Coating allows with it's very high temperature stability for great tool life results.
- The Nano-Layered Multilayer structure prevents propagation of micro cracks

Coating	Coating Color	Coating Type	Hardness (Hv)	Max. Usage Temperature (°C)	Friction Coefficient (dry)	Coating Thickness (μm)
RCH-Coating	Darkgrey	AlCr / TiAlN based	3,300	1,100	0.55	1 ~ 5



Edge Preparation

Radius Thinning



Universal point grinding

A universal point grinding for soft cutting action and reduced axial forces. It also addresses the need for trouble-free reconditioning.

Radius Thinning

The radius thinning providing very good self-centering even at low feed rates and unstable situations.

Tailored flute design

The tailored flute design enables excellent chip breaking and chip evacuation

Edge Preparation

A sophisticated edge preparation and the flat radius grind at the peripheral edges are maximizing tool life in various materials

Work Material

◎ : 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	15	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										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	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
HRc											15	30	25	38	34			55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550		
Recommended																		○					

- Possible applications for Dream Drill X are mainly Steel up to HRc50, certain stainless Steel and due to the high coating hardness especially Cast-Iron materials.

Target Customers

- Customers seeking a drilling platform for daily needs can rely on the extensive portfolio and performance, eliminating the need for extensive testing and price comparisons.
- With attractive pricing and leading coating technology, we can regain customers.
- Current Customers will find Dream Drill X as a great opportunity to upgrade ensuring Customer satisfaction and loyalty in the future.

Target Market

- The main market is General Engineering. From small batch producers to large series production, Dream Drill X offers significant cost savings.
- Markets such as Die & Mold, Energy, and Automotive also benefit from Dream Drill X's 3xD, 5xD, and 8xD offerings with various intermediate sizes.

Sales Strategy

- Dream Drill X will replace Dream Drill General faster among demanding customers, though fully satisfied customers may take longer to switch.

Product Line Summary

SERIES	Description	Length	Coolant	Coating	Size Range	SKU
DTX404	Solid Carbide Dream Drill X, OD=SD	3xD	Without Coolant	RCH	Ø3~Ø20	91
DTX423	Solid Carbide Dream Drill X				Ø3~Ø20	115
DTX406	Solid Carbide Dream Drill X		With Coolant		Ø3~Ø20	107
DTX424	Solid Carbide Dream Drill X	5xD	Without Coolant		Ø1~Ø20	127
DTX408	Solid Carbide Dream Drill X		With Coolant		Ø1~Ø20	127
DTX421	Solid Carbide Dream Drill X	8xD			Ø3~Ø14	95
Total						662