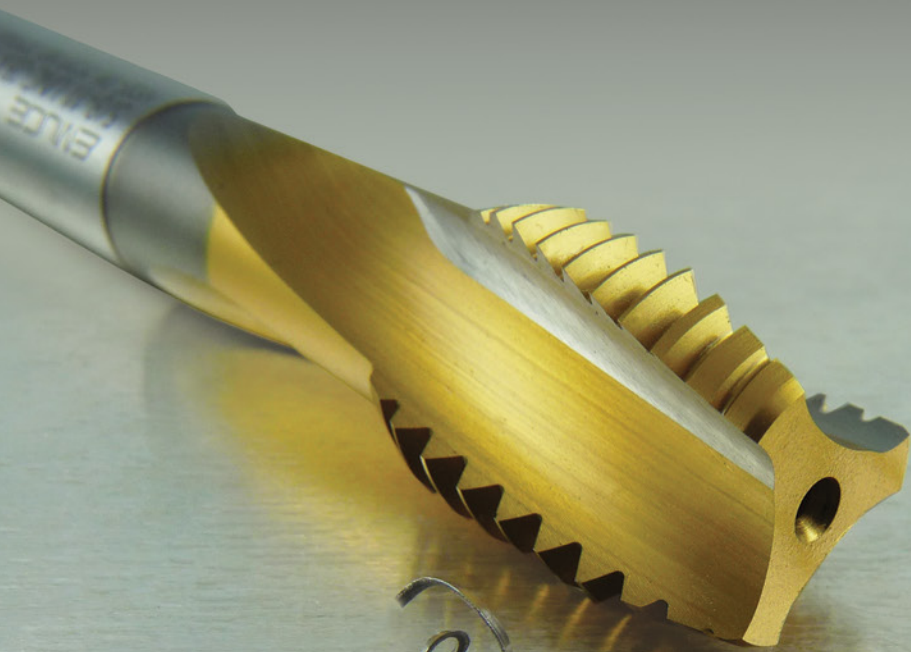


Emuge has broken the enemy



EMUGE
CBTZ™

***Emuge Chip-Breaking
Tapping Technology.***

Only **one** Tool, for Horizontal and Vertical Apps!

NEW
Sizes +
Coolant-Fed Taps!



Emuge Chip-Breaking Technology

CBTZ™

Emuge's new Rekord DZBF Series Taps featuring CBTZ (Chip-Breaking Technology) have made the dreaded chip nesting enemy a thing of the past.

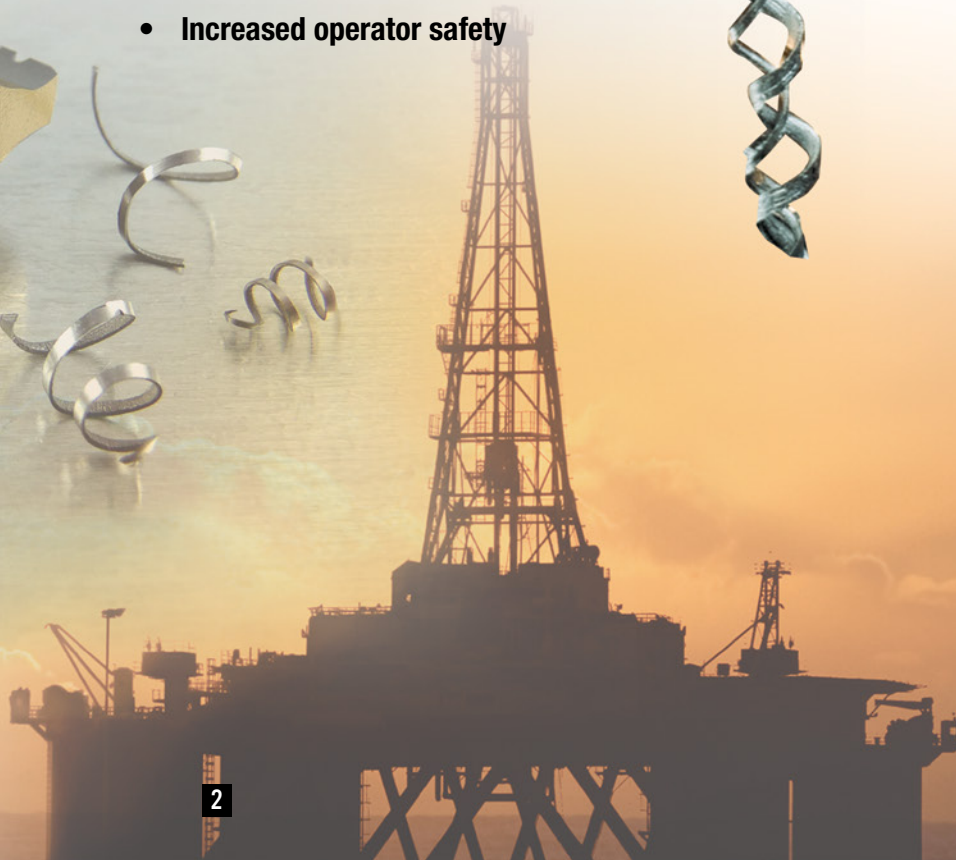
Leave it to Emuge to develop CBTZ, a new technology that provides the most effective way to eliminate long, continuous chips that commonly occur when tapping carbon steels, alloy steels and austenitic stainless steels.

CBTZ technology features a newly developed cutting face geometry and spiral flute form, which combine to optimize chip flow, curl and length like never before. This innovative Emuge chip-breaking technology produces short, broken, controllable chip formations that eliminate flute clogging and potential failure of the machine tap due to chipped cutting teeth

or breakage. The new chip-breaking design will drastically improve tapping in difficult applications such as components for oil field and power generation.

CBTZ tapping technology provides:

- Higher reliability of the threading process
- No machine down time required to clean chips
- Improved tool life
- Better surface finishes
- Increased operator safety



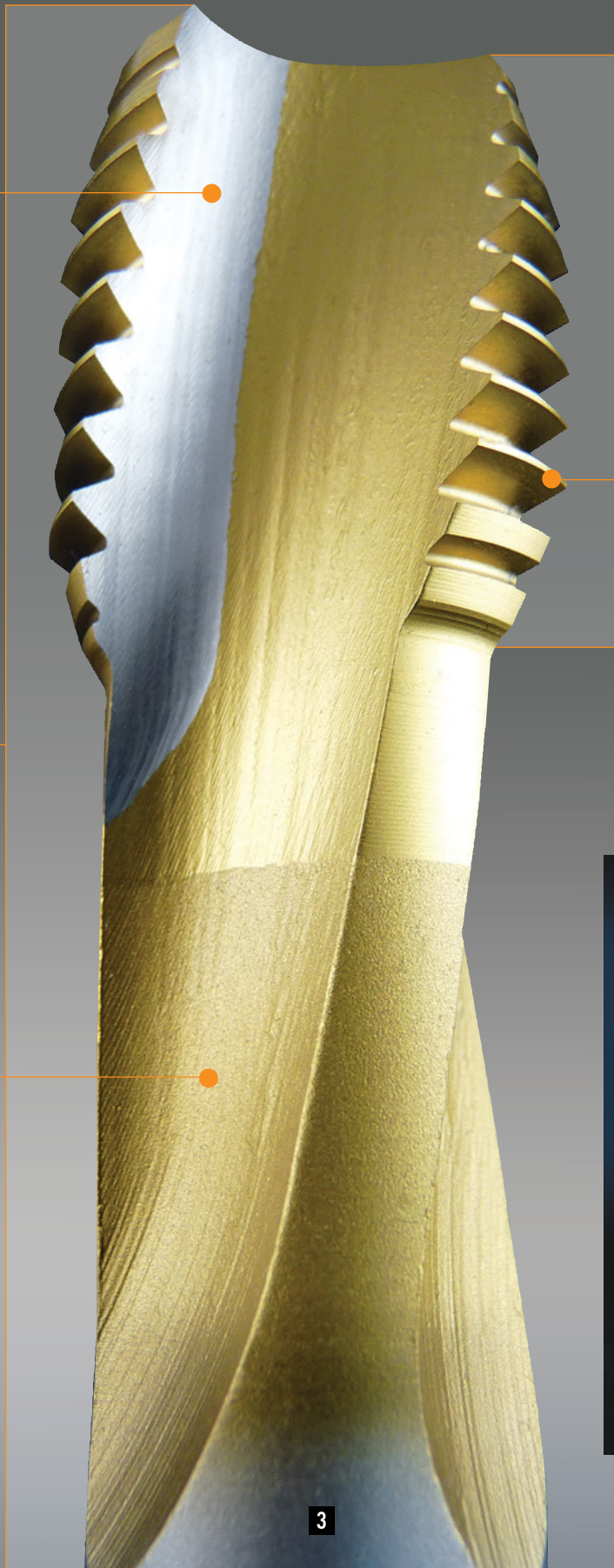
New cutting face geometry and helical flute form ground to produce short, broken controllable chips

Ground with eccentrically relieved threads with full pitch diameter relief, producing much greater tool life and machining efficiency

2BX Class-of-Fit, Ground with increased pitch diameter for additional wear tolerance for improved tool life

DIN overall length. Emuge's trademark long shanks provide extra reach, improved chip evacuation, cooling, and lubrication

Surface treated with TIN to reduce friction between tap and work piece, for improved thread finish and increased tool life



REKORD DZBF SERIES SEMI-BOTTOMING TAPS*

(2BX-Class-of-Fit)

ALL NEW
Coolant Fed

								SOLID	
NEW	Size / in	UNC	# Flutes	Chamfer	OAL	Shank	Square	EDP No.	EDP No.
REINFORCED SHANK									
✓	#4-40	UNC	2	2-3	2.205	0.141	0.110	BU5237015003	-
✓	#5-40	UNC	2	2-3	2.205	0.141	0.110	BU5237015004	-
✓	#6-32	UNC	3	2-3	2.205	0.141	0.110	BU5237015005	-
✓	#8-32	UNC	3	2-3	4.480	0.168	0.131	BU5237015006	-
✓	#10-24	UNC	3	2-3	2.756	0.194	0.152	BU5237015007	BU5737015007
✓	1/4-20	UNC	3	2-3	3.150	0.255	0.191	BU5237015009	BU5737015009
✓	5/16-18	UNC	3	2-3	3.543	0.318	0.238	BU5237015010	BU5737015010
✓	3/8-16	UNC	3	2-3	3.937	0.381	0.286	BU5237015011	BU5737015011
REDUCED SHANK									
✓	7/16-14	UNC	3	2-3	3.937	0.323	0.242	CU5737015012	CU5837015012
	1/2-13	UNC	3	2-3	4.331	0.367	0.275	CU5737015013	CU5837015013
✓	9/16-12	UNC	3	2-3	4.311	0.429	0.322	CU5737015014	CU5837015014
	5/8-11	UNC	3	2-3	4.331	0.480	0.360	CU5737015015	CU5837015015
	3/4-10	UNC	3	2-3	4.921	0.590	0.442	CU5737015016	CU5837015016
	7/8-9	UNC	3	2-3	5.512	0.697	0.523	CU5737015017	CU5837015017
	1" -8	UNC	3	2-3	6.299	0.800	0.600	CU5737015018	CU5837015018
	1 1/8-7	UNC	4	2-3	7.087	0.896	0.672	CU5737015019	CU5837015019
	1 1/4-7	UNC	4	2-3	7.087	1.021	0.766	CU5737015020	CU5837015020
	1 3/8-6	UNC	4	2-3	7.874	1.108	0.831	-	CU5837015021
	1 1/2-6	UNC	4	2-3	7.874	1.233	0.925	-	CU5837015022
NEW	Size	UNF	# Flutes	Chamfer	OAL	Shank	Square	SOLID	Coolant Fed
REINFORCED SHANK									
✓	#10-32	UNF	3	2-3	2.756	0.194	0.152	BU5237015041	BU5737015041
✓	1/4-28	UNF	3	2-3	3.150	0.255	0.191	BU5237015043	BU5737015043
✓	5/16-24	UNF	3	2-3	3.543	0.318	0.238	BU5237015044	BU5737015044
✓	3/8-24	UNF	3	2-3	3.937	0.381	0.286	BU5237015045	BU5737015045
REDUCED SHANK									
✓	7/16-20	UNF	3	2-3	3.937	0.323	0.242	CU5737015046	CU5837015046
✓	1/2-20	UNF	3	2-3	4.331	0.367	0.275	CU5737015047	CU5837015047
✓	9/16-18	UNF	3	2-3	4.311	0.429	0.322	CU5737015048	-
✓	5/8-18	UNF	3	2-3	4.331	0.480	0.360	CU5737015049	CU5837015049
✓	3/4-16	UNF	4	2-3	4.921	0.590	0.442	CU5737015050	CU5837015050
✓	7/8-14	UNF	4	2-3	5.512	0.697	0.523	CU5737015051	-
NEW	Size	UN	# Flutes	Chamfer	OAL	Shank	Square	SOLID	Coolant Fed
REDUCED SHANK									
	1 1/8-8	UN	4	2-3	7.087	0.896	0.672	CU5737015247	CU5837015247
	1 1/4-8	UN	4	2-3	7.087	1.021	0.766	CU5737015249	CU5837015249
	1 3/8-8	UN	4	2-3	7.874	1.108	0.831	CU5737015251	CU5837015251
	1 1/2-8	UN	4	2-3	7.874	1.233	0.925	CU5737015253	CU5837015253
	1 5/8-8	UN	4	2-3	7.874	1.305	0.979	CU5737015255	CU5837015255
	1 3/4-8	UN	5	2-3	7.874	1.430	1.072	CU5737015257	CU5837015257
✓	1 7/8-8	UN	5	2-3	8.858	1.519	1.139	CU5737015259	-
	2" -8	UN	6	2-3	8.858	1.644	1.233	CU5737015261	CU5837015261

Shank Type



Reinforced Style:

on tap sizes:
UNC: #4-40 to 3/8-16, UNF: #10-32 to 3/8-24

Shank Type



Reduced Style:

on tap sizes:
UNC: 7/16-14 to 1 1/2-6, UNF: 7/16-20 to 7/8-14,
UN: 1 1/8-8 to 2"-8

* Material sampling information is on the back cover.

Same tool for Horizontal and Vertical Applications

- Saves tooling changeover time
- Eliminates the need to stock two lines of taps in the tool crib

Made of premium cobalt high speed steel, the Emuge Rekord DZBF series tap surface is treated with TIN for:

- Improved thread finishes
- Increased tool life in carbon, alloy steels, cast and forged steels, tool and die steels and 300 stainless steel up to 35 HRC

Modified bottom chamfer is ideally suited for blind holes

See how CBTZ works at www.emuge.com!

Emuge — The Leader in Thread Cutting Technology For More Than 90 Years.



You trust Emuge Taps and Thread Mills for the highest quality threads. Now you can rely on Emuge Drills to make the best holes.

Ask for a **FREE Drill Line catalog** at www.emuge.com where you can also view products online.

Contact Emuge today for a **FREE analysis of your application.**

EMUGE

HIGH PERFORMANCE TOOLS

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www.emuge.com



Emuge Corp. Technology Center

Emuge's state-of-the-art North American headquarters where training, manufacturing and applications solutions are managed and over 12,000 types of tools are stocked for prompt shipment.

REKORD DZBF SERIES MATERIAL SAMPLING		
Main Group	Sub-Group	Example
Steel	Carbon, all grades	1010, 1018, 1045
	Free cutting	12L14, 1215
	Constructual	A36, A572, T1
	Alloyed	4140, 4340, 8620
	Cast, or Forged	
	Tool / Mold / Die	D2, S7, P20, H13
Stainless Steel	Austenitic	303, 304, 316L
Max material hardness – 35 Rc – 330 Bhn		
Max thread depth: 2.5xD		
Spindle Orientation: Vertical or Horizontal, same tap		

A Full Line of High Performance Cutting Tools

