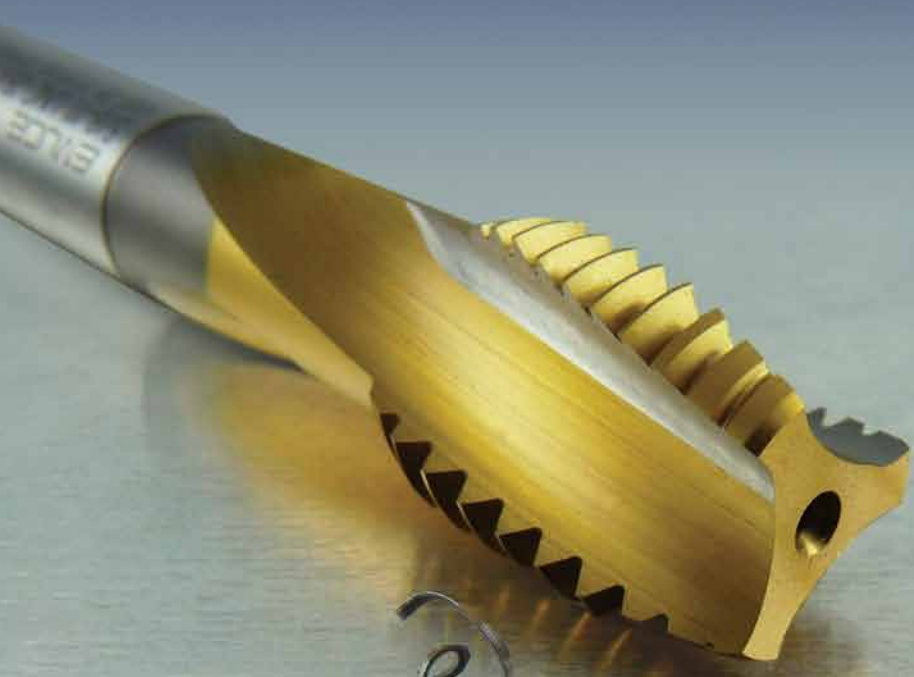


Emuge has broken the enemy



EMUGE
CBTZ™

NEW Emuge Chip-Breaking Tapping Technology.

Plus Only one Tool, for Horizontal and Vertical Apps!

INTRODUCING NEW 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**

Same tool for horizontal and vertical applications!

Rekord DZBF Series Taps are designed to be used in both horizontal and vertical machining applications, which saves tooling changeover time and eliminates the need to stock two lines of taps in the tool crib.

See how CBTZ works at www.emuge.com!



Modified bottom chamfer is ideally suited for blind holes

Made of premium cobalt high speed steel, the Emuge Rekord DZBF series tap surface is treated with TIN for improved thread finishes and increased tool life in carbon and alloy steels, cast and forged steels, tool and die steels and 300 stainless steel up to 35 HRC.

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

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

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



REKORD DZBF SERIES TAPS* (2BX Class-of-Fit)

Size	UNC	8 Pitch	# Flutes	Chamfer	OAL	Shank	Square	EDP No.
1/2"	13		3	2-3P	4.331	0.367	0.275	CU5737015013
5/8"	11		3	2-3P	4.331	0.480	0.360	CU5737015015
3/4"	10		3	2-3P	4.921	0.590	0.442	CU5737015016
7/8"	9		3	2-3P	5.512	0.697	0.523	CU5737015017
1"		8	3	2-3P	6.299	0.800	0.600	CU5737015018
1-1/8"	7		4	2-3P	7.087	0.896	0.672	CU5737015019
1-1/4"	7		4	2-3P	7.087	1.021	0.766	CU5737015020
1-1/8"		8	4	2-3P	7.087	0.896	0.672	CU5737015247
1-1/4"		8	4	2-3P	7.087	1.021	0.766	CU5737015249
1-3/8"		8	4	2-3P	7.874	1.108	0.831	CU5737015251
1-1/2"		8	4	2-3P	7.874	1.233	0.925	CU5737015253
1-5/8"		8	4	2-3P	7.874	1.305	0.979	CU5737015255
1-3/4"		8	5	2-3P	7.874	1.430	1.072	CU5737015257
2"		8	5	2-3P	8.858	1.644	1.233	CU7537015261

* Material sampling information is on the back cover.

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



From unmatched application engineering expertise to the world's most extensive line of high performance taps, thread mills, tool holders and accessories, only Emuge offers a complete threading program. So you can obtain the best production solution for your application.

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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	
Stainless Steel	Tool / Mold / Die	D2, S7, P20, H13
	Austenitic	303, 304, 316L

Max material hardness – 35 Rc – 330 Bhn

Max thread depth: 2.5xD

Spindle Orientation: Vertical or Horizontal, same tap

EMUGE

HIGH PERFORMANCE TOOLS

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