STEEL COMPONENTS:
TDMX

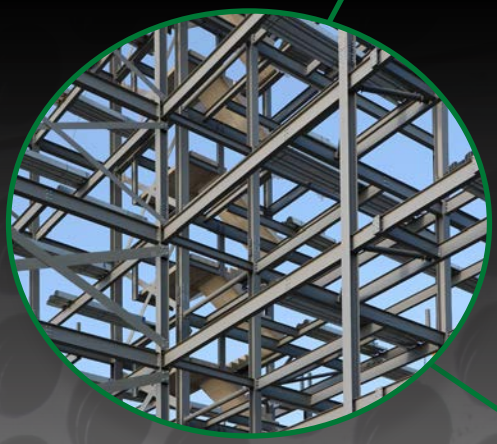
WIDIA

TDMX Target Structural Components

Drilling Construction Steel is not a simple, straightforward job. Workpiece instability, vibrations and chip control are just a few challenges typically encountered in this type of application. The Top Drill Modular X (TDMX) holemaking solution is able to address such machining applications with ease.

I-Beams, connection joints, stay-cable anchorages, and electrical tower structures are all steel components that can be machined with more confidence thanks to the TDMX drill, its material-specific inserts and its optimized body design.

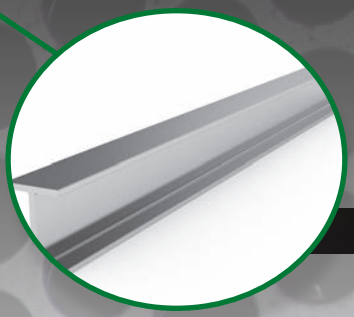
WIDIA



TDMX is the next level in drilling of structural steel components when compared to HSS tools, Spade Blades and other conventional modular drilling systems.

The combination of an extra stable pocket seat design, reinforced cutting corners and a tough grade, ensures increased process reliability and consequently longer tool life associated with a better hole quality.

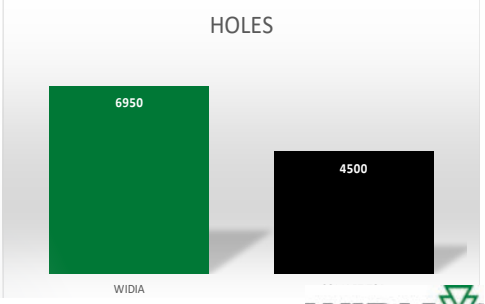
The WP40PD grade provides the right toughness to face even the most unstable cutting conditions while also suitable for MQL applications.



I-Beam

LONGER TOOL LIFE, RELIABILITY AND INCREASED CHIP CONTROL ON A STEEL STRUCTURAL COMPONENT FOR A HIGH-VOLTAGE ELECTRICAL LINE CUSTOMER

WIDIA™ SHINING MOMENT



	Competitor	WIDIA
Tool Body	Dia.17mm 3xD	TDMX180R3SL25M
Insert	-	TDMX18000PKM
Grade	-	WP40PD
Diameter	17,99mm	18mm
L/D Ratio	1.5xD	3xD
LOC	20mm (.787")	20mm (.787")
Cutting Speed Vc	70m/min (210sfm)	70m/min (210sfm)
Feedrate fn	0,25mm/rev(.0098ipr)	0,25mm/rev(.0098ipr)
Coolant	Internal MQL	
Tool Life	4500 holes	6950 holes

WIDIA

Top Drill Modular X

INSERTS

GRADES

WP40PD

DIAMETER RANGE

16 - 40mm (.629” - 1.574”)

POINT GEOMETRY

PK (M)

MATERIALS

P K

STEEL BODIES

APPLICATIONS

DRILLING

INCLINED ENTRY

INCLINED EXIT

CROSS HOLES

STACKED PLATES

ENERGY

TRANSPORTATION

GENERAL ENGINEERING

FLANGED SHANK

Increase the overall drill stability in deep-drilling applications and suitable for machining and turning centers

- ✓ INCH
- ✓ METRIC

Margin lands on the entire body length to ensure the straightness and increased hole quality.

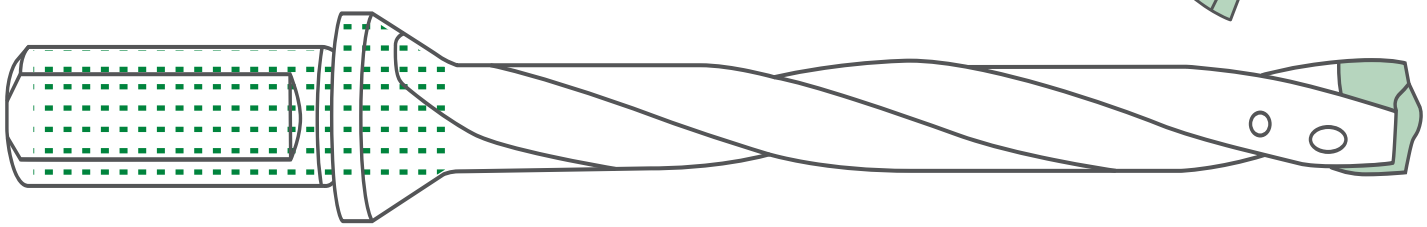
Polished flutes to improve chip evacuation.

GEOMETRY

Extra stable pocket seat design to increase stability to securely face high demanding applications.

Coolant Channels exit right behind the cutting edge to ensure the best coolant delivery.

Two standard screws to clamp and unclamp the insert without disassembling the tool from the holder.



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