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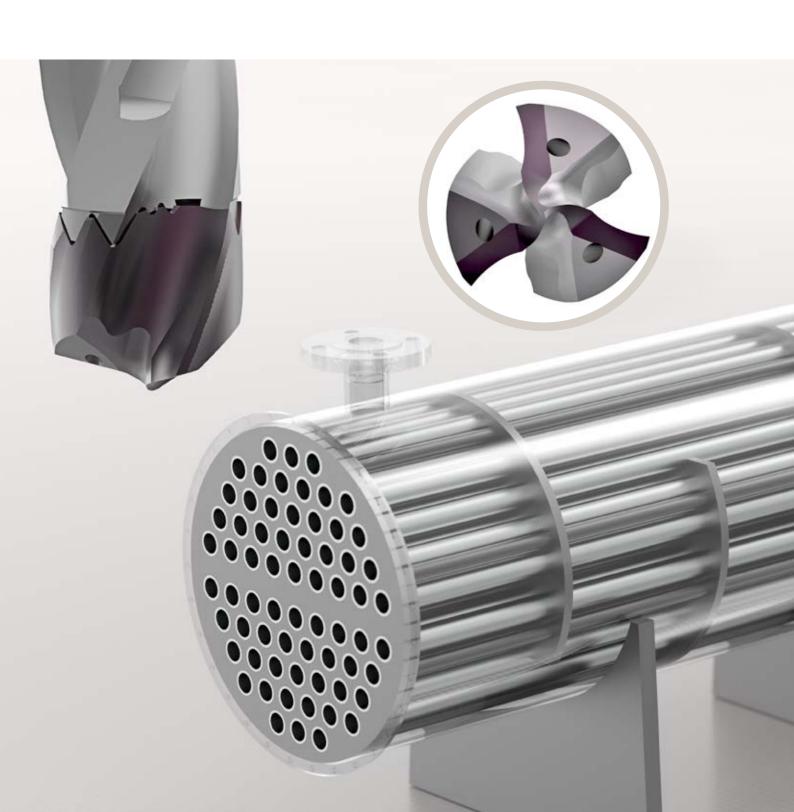
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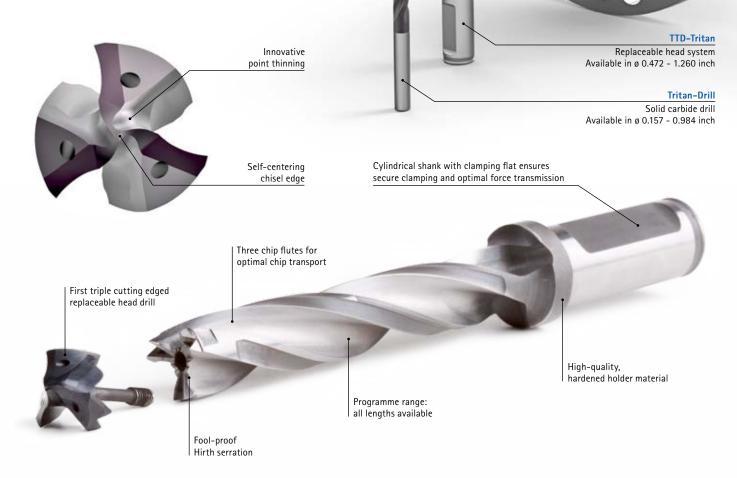
Your technology partner for cost-effective machining

SHELL AND TUBE HEAT EXCHANGER MACHINING





When drilling hundreds of holes in a carbon steel tube sheet, choosing the right drill is critical to success. With the new TTD-Tritan, MAPAL presents the first triple cutting edged replaceable head system, which is sure to impress through its dynamism, performance and precision – even under the most difficult drilling conditions. Fast and reliable chip removal is also achieved by the ground chip flutes and the shape of the main cutting edge that ensures short, tightly rolled chips.



Highest performance with MAPAL chucks:



The MAPAL HighTorque Chuck (HTC) impresses due to high torque transmission and guarantees long tool lives. These hydraulic chucks are available from stock for different machine interfaces, e.g. HSK, SK, JIS-BT, CAT, etc.

AT A GLANCE

- ø 0.157 1.260 inch
- Universal application (steel, cast iron)
- With internal cooling
- Innovative point thinning
- Self-centering chisel edge
- Maximum positioning accuracy



Practical test

Material: Carbon steel / SA-516-70N Machine: QuickMill Intimidator 120

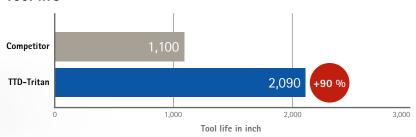
Spindle interface: CAT 50

Diameter: 1.008" (25.6 mm)

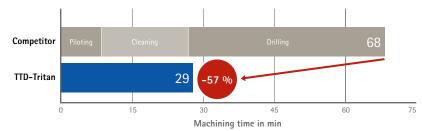
Hole depth: 2.5"

Cutting data	TTD-Tritan	Competitor product Two fluted exchangeable head system
v _c in ft/min	518	508
f _n in inch/rev.	0.028	0.018
v _f in inch/min	54.1 +59 %	34

Tool life



Machining time



Owing to the high feeds of the TTD-Tritan, the machining time has been significantly reduced. A mere **29 minutes** were required for these **550 bores** to be produced in the practical test.

Chip comparison



TTD-Tritan

- 100 % chip control
- Low cutting pressure
- Short, tightly rolled chips



Competitor

 Long, uncontrollable chip formation

KEY BENEFITS

Maximum performance

- 50 % 100 % higher feed Thanks to three cutting edges
- Maximum positioning accuracy Self-centering chisel edge
- High process security
 Fool-proof Hirth serration
- Low cutting pressure
 Unique lead geometry
- Excellent chip breaking Innovative point thinning
- Extremely economical Replaceable head system





Discover tool and service solutions now that give you a lead:

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SERVICES