



OIL & GAS

APPLICATIONS

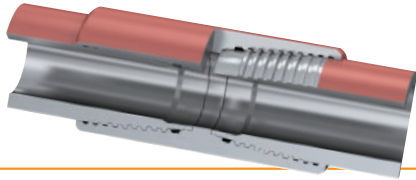


INDEX Oil & Gas



COUPLING

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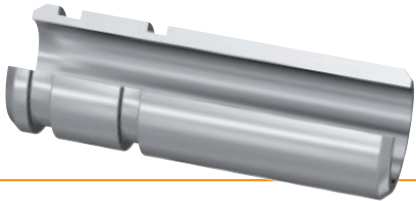
FLANGED

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INNER SLEEVE

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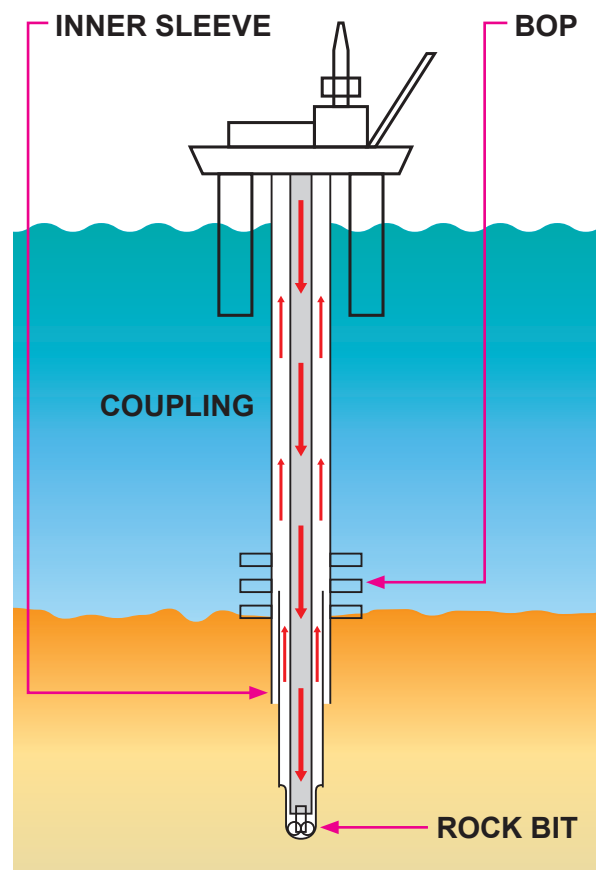
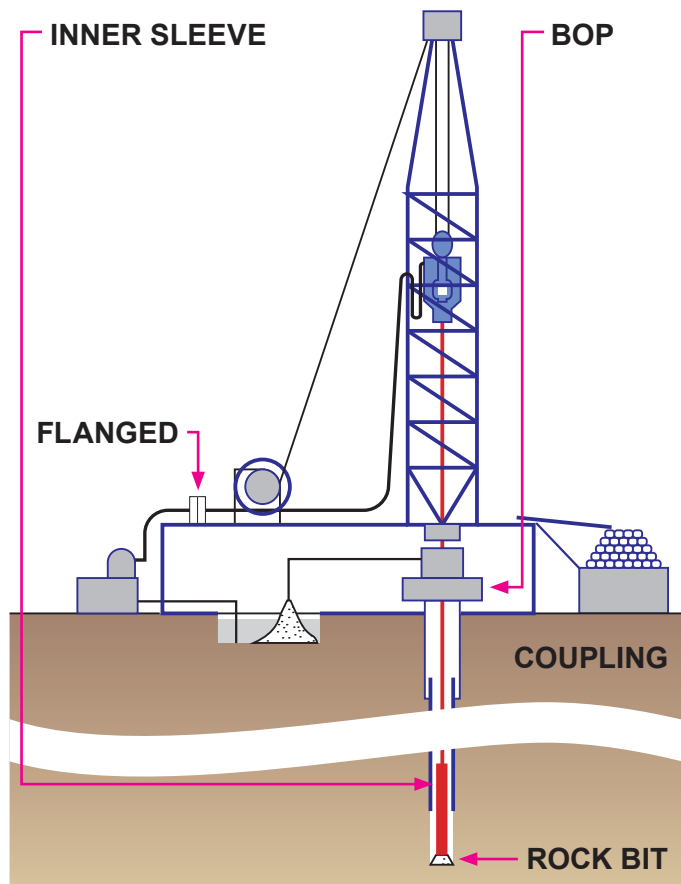
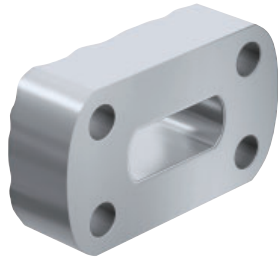
ROCK BIT

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BOP

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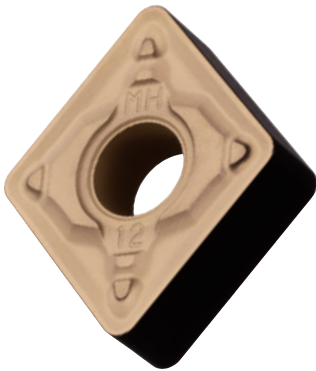
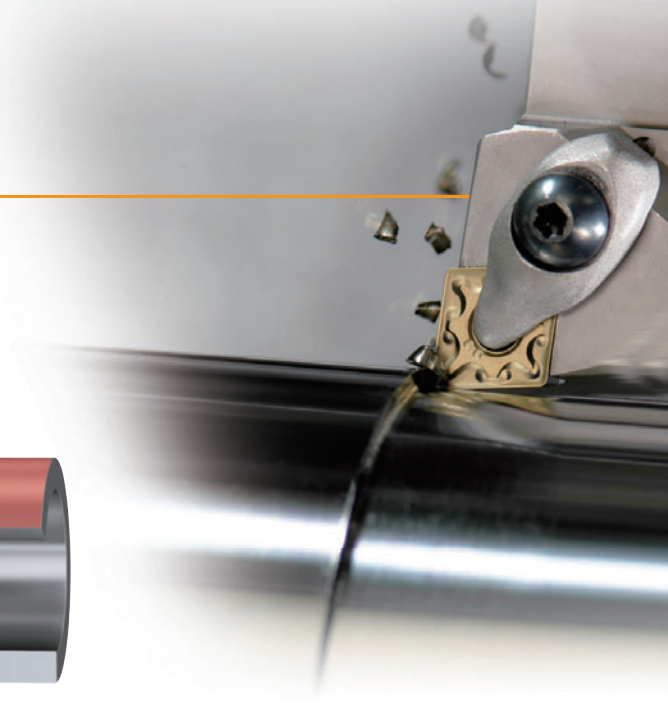
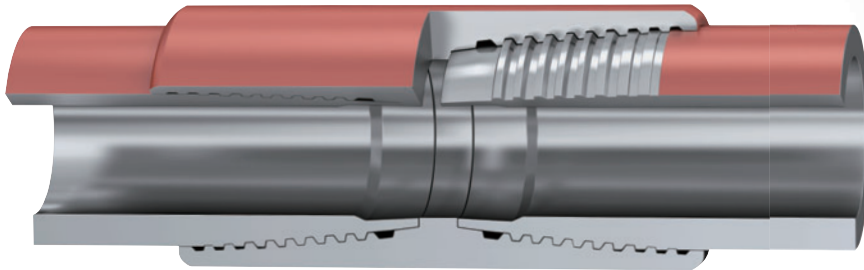




COUPLING

Work Materials: API P110

Boring



UE6105
(TOOLS NEWS B165G)

Key Point on Machining

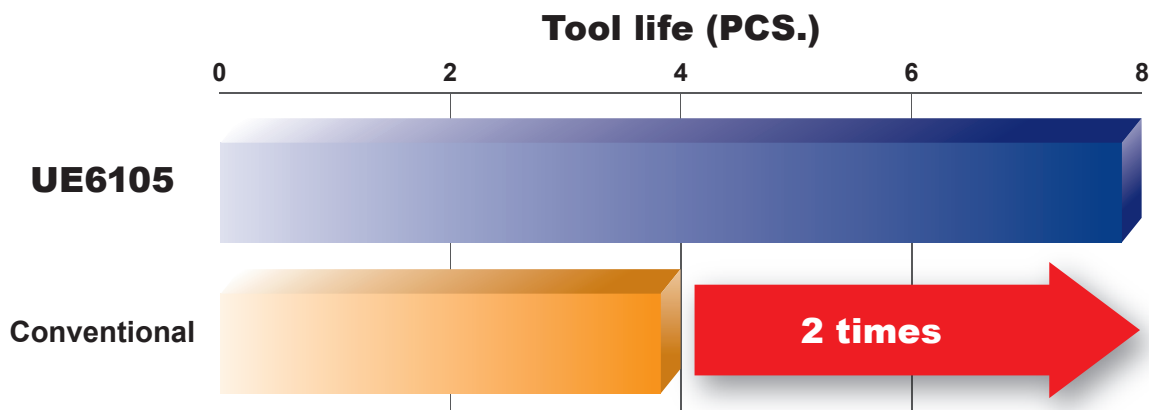
UE6100 series, with its 2 in 1 technology coated insert, further enhances the crater wear and flank wear resistance.

An increase in tool life can be achieved by using our medium chip breaker system on alloy steel.

Application Example

Stable boring in alloy steel on box coupling.

Holder	A50U-DCLNR16
Insert (Grade)	CNMG160612-MH (UE6105)
Work Material	API P110
Cutting Speed	200 m/min
Feed	0.356 mm/rev
Depth of Cut	3.0 mm
Coolant	Emulsion





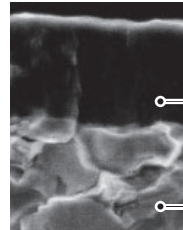
INNER SLEEVE

Work Materials: API L80

External grooving

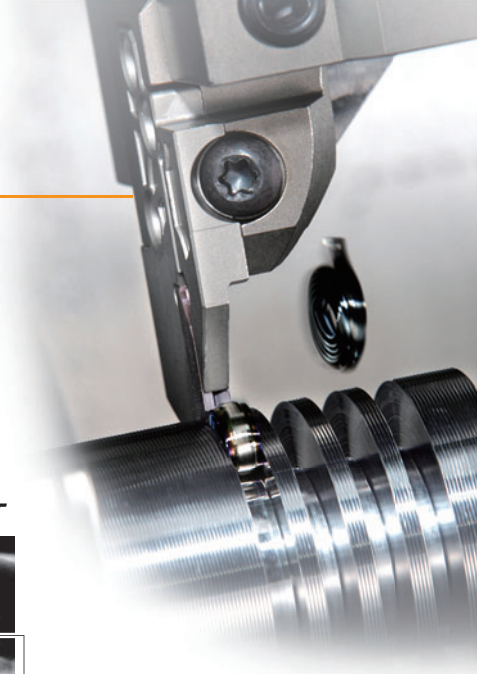


VP20RT



MIRACLE Coating

Carbide substrate (HRA90.5)



GY Series
(TOOLS NEWS B140G)

Key Point on Machining

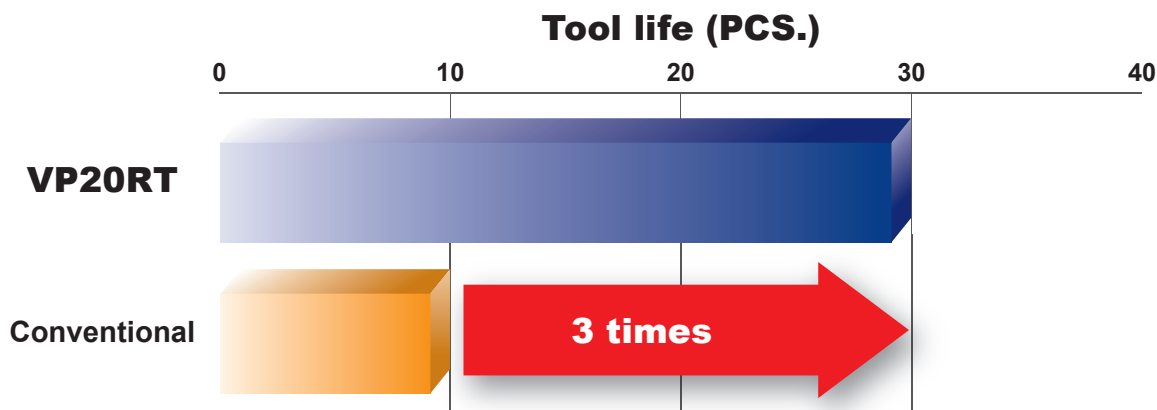
VP20RT grade for alloy steel grooving applications achieved best balance of wear resistance and fracture toughness.

With the combination of our GM breaker and medium feed rates, VP20RT works well in a variety of grooving applications.

Application Example

Able to achieve 3 times the tool life with VP20RT grooving insert on an inner sleeve grooving process.

Holder	GYHL2525M00-M25L/GYM25LA-F20
Insert (Grade)	GY2M0318F030N-GM (VP20RT)
Work Material	API L80
Cutting Speed	152 m/min
Feed	0.254 mm/rev
Groove Depth	25.0 mm
Coolant	Emulsion

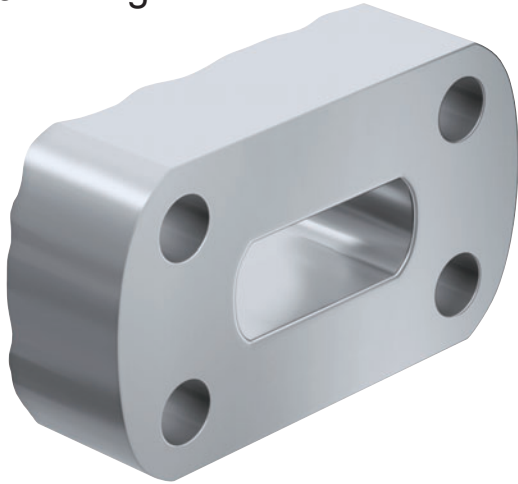




BLOWOUT PREVENTER

Work Materials: AISI 4140

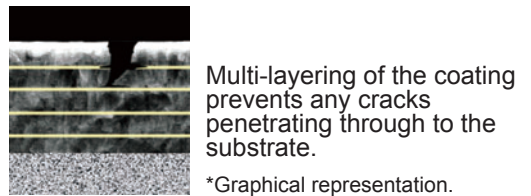
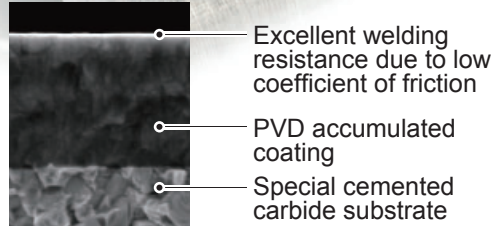
Helical milling



AJX
(TOOLS NEWS B028G)



MP6120



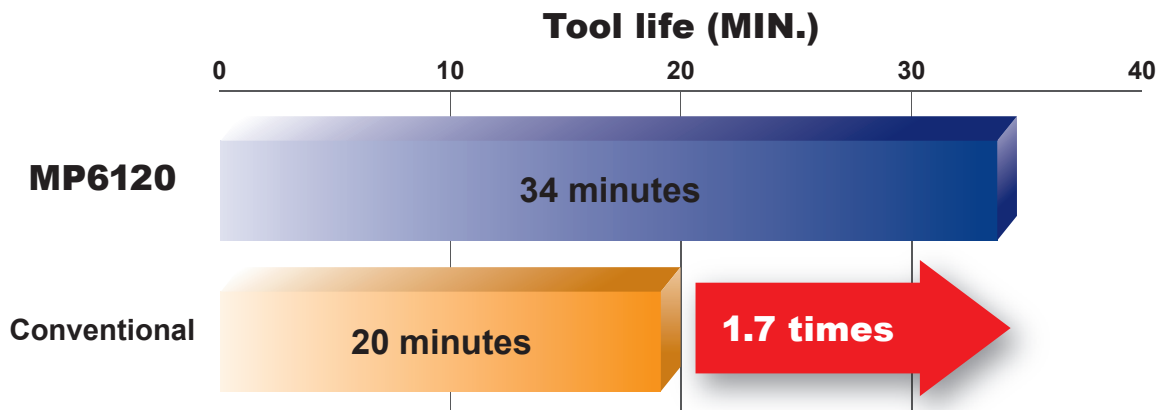
Key Point on Machining

The MP6120 grade with our Al-Ti-Cr-N multi-layer coating was able to achieve double the tool life in an alloy steel machining application.

Application Example

Helical milling on BOP (Blowout Preventer).

Holder	AJX12-050A04R
Insert (Grade)	JDMW120420ZDSR-FT (MP6120)
Work Material	AISI 4140
Cutting Speed	230 m/min
Feed	3600 mm/min
Depth of Cut & Width	ap 1.0 mm, ae 46.0 mm
Coolant	Emulsion

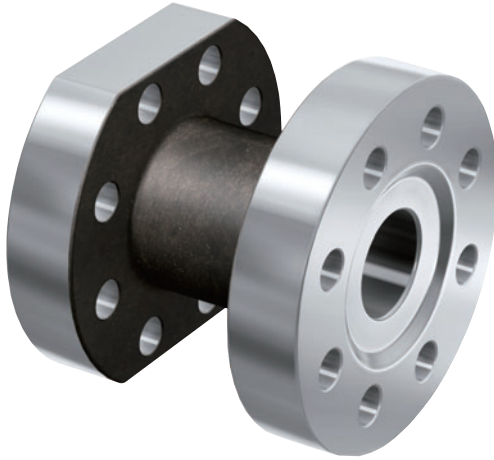




FLANGED

Work Materials: SUS316

Drilling



MVX
(TOOLS NEWS B202G)

Key Point on Machining

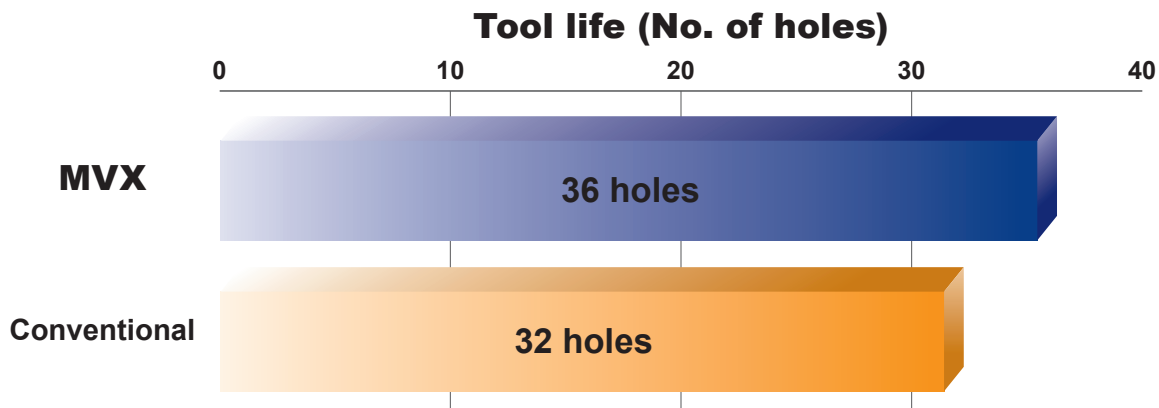
The MVX drill offers a balanced combination of a CVD and PVD coated insert on a rigid drill body.

You can achieve a higher productivity rate with a lower per unit cost.

Application Example

Improved productivity using the MVX drill on repetitive holes in flanges.

Holder	MVX1700X3F20
Insert (Grade)	SOMX060305-UM VP15TF (Inner) and MC1020 (Outer)
Work Material	SUS316
Drilling Speed	117 m/min
Feed	0.051 mm/rev
Depth of Cut	48.3 mm
Coolant	Emulsion



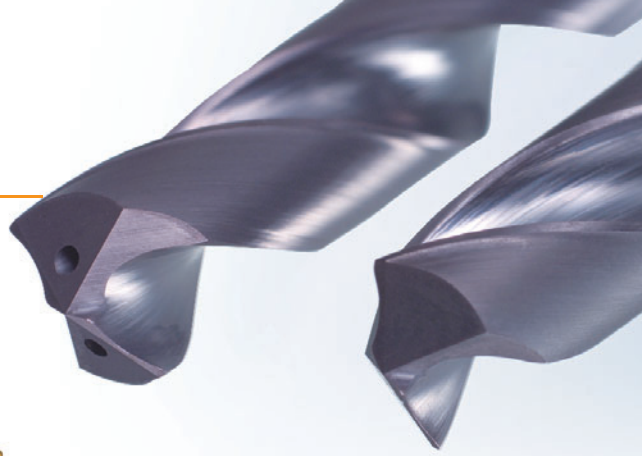
Slightly interrupted drilling on the exit of the hole.



ROCK BIT

Work Materials: AISI 8620

Drilling



MWS

(TOOLS NEWS B110G)

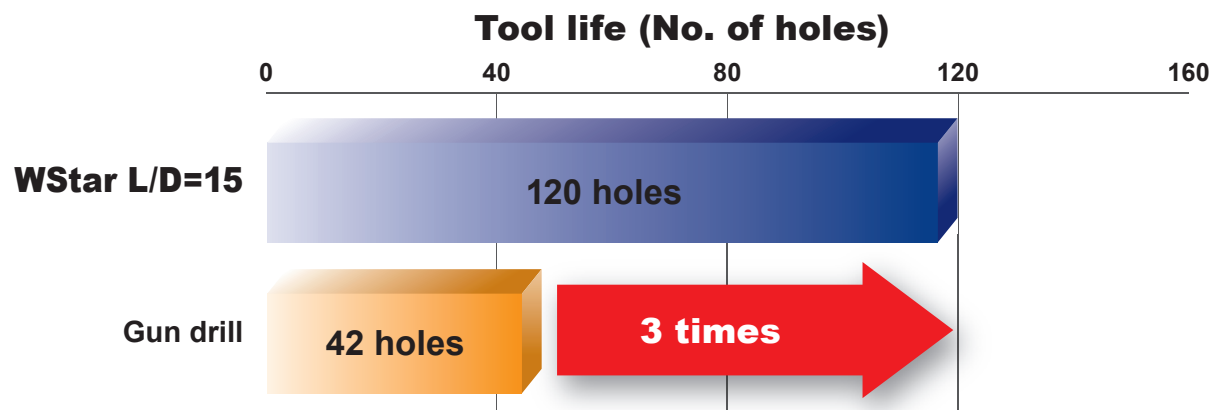
Key Point on Machining

Our WStar super long solid carbide drills are the best choice over gun drills for rock bit air passage hole drilling.

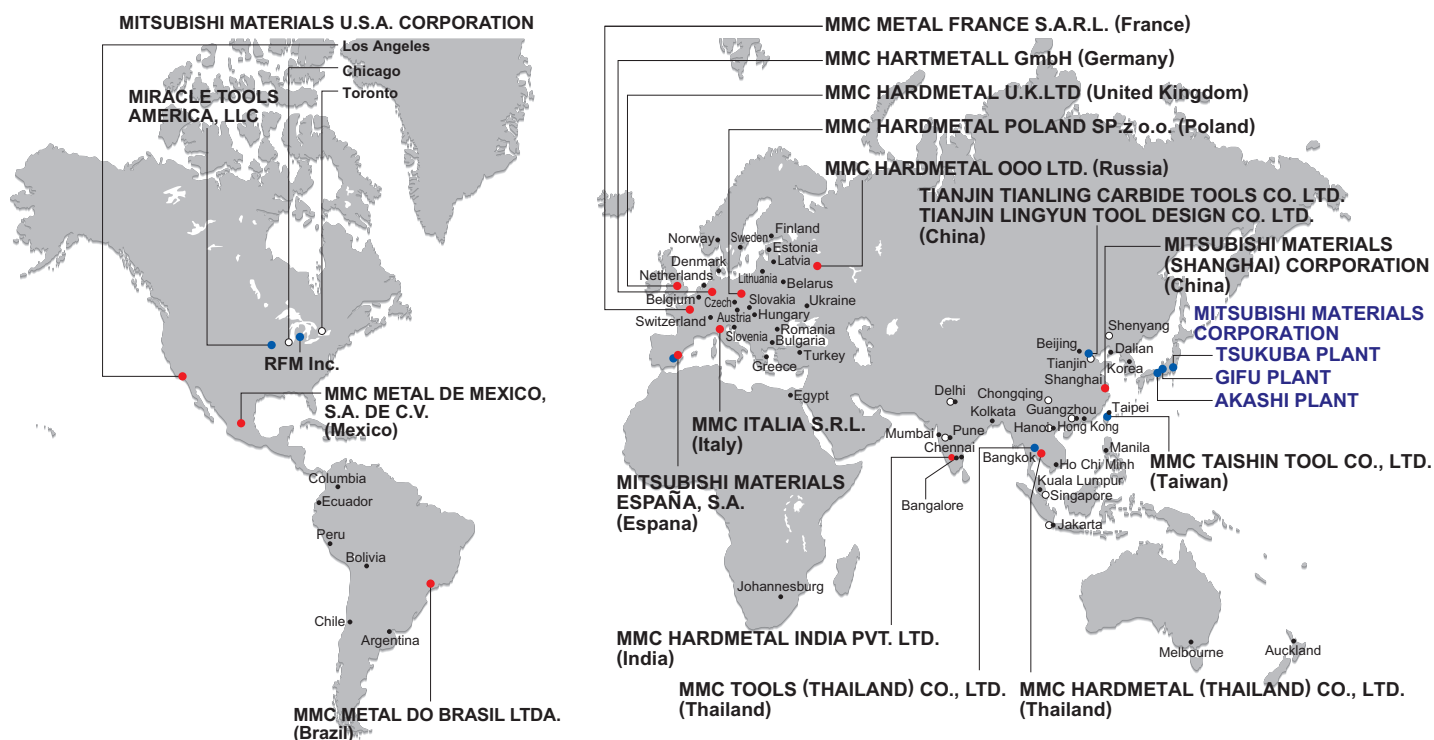
Application Example

3 times tool life and 11 times better productivity was achieved when WStar super long solid carbide drills were used to drill rock bit air passage holes.

Drill (Grade)	MWS0950X15DB (VP15TF)
Work Material	AISI 8620
Drilling Speed	100 m/min
Feed	0.165 mm/rev
Depth of Cut	129.5 mm
Coolant	Emulsion



Global Network



- Sales Office
- Factory
- Representative Office
- Agency



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