

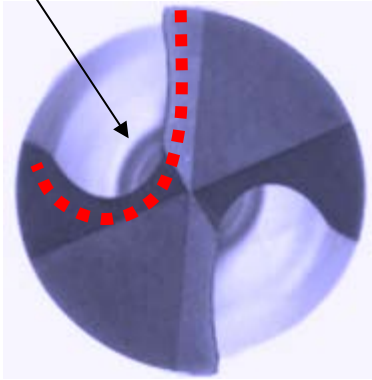
**NEW**

# **Aqua EX Drill Series**

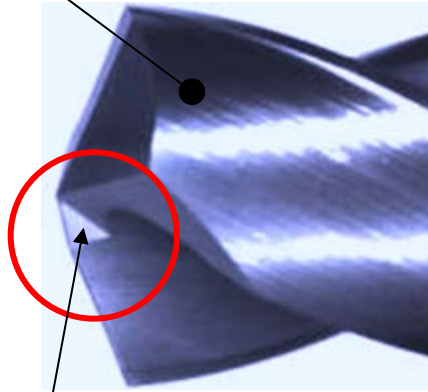
# Aqua EX Drill – Japan Stock

## Deep Pockets *Aqua EX Coating*

J Shaped Cutting Edge  
Helps Breakup Chips



New Aqua EX Coating TiAlN + AlTiCr  
+ Lubrication Film



**Stable and High Speed Drilling**

New “J” Shaped Design Reduces Cutting Force Because of Better Chip Breakup

**Cost Reduction**

Consistent Performance in all Materials

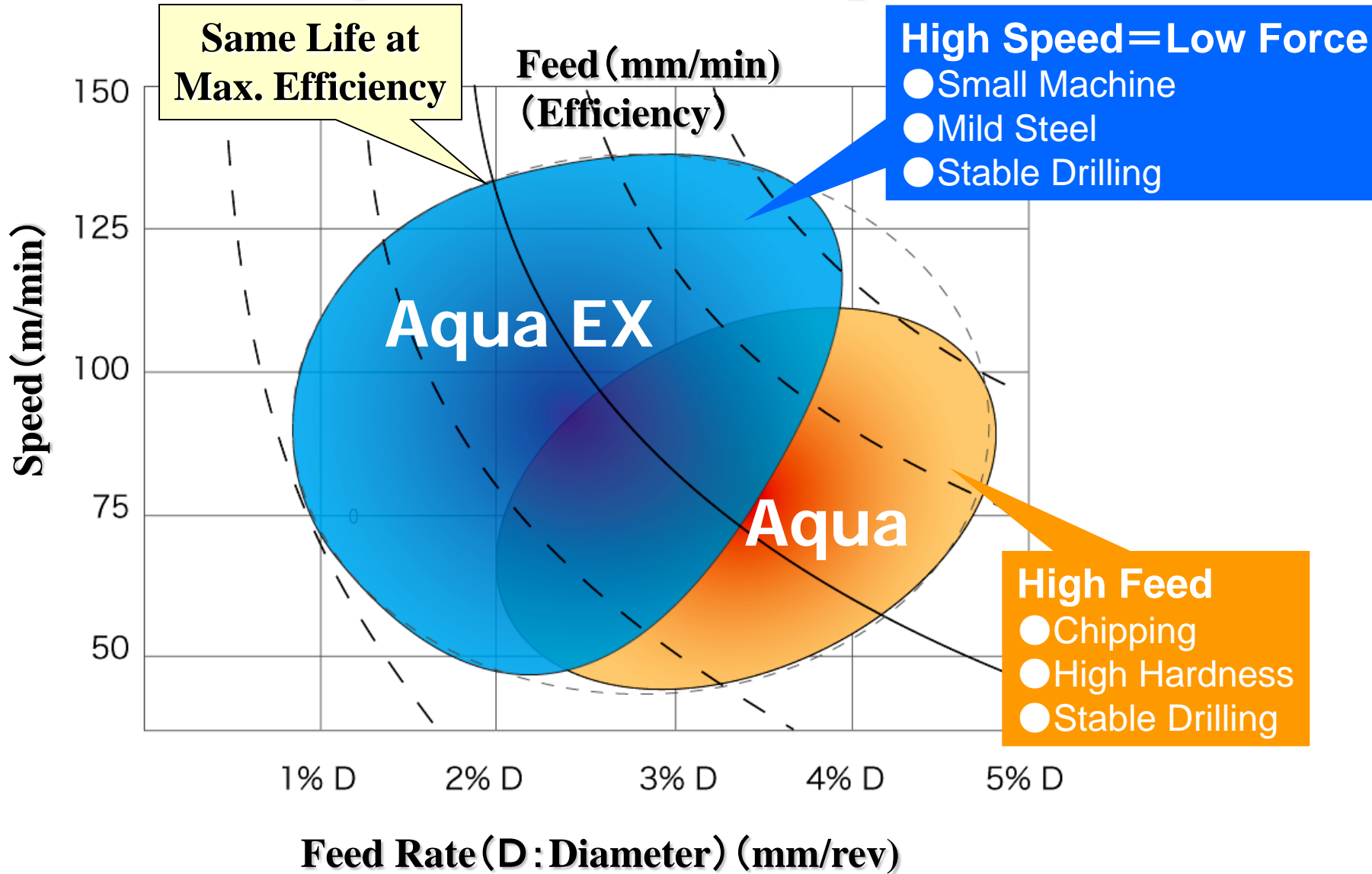
**Suitable Materials:**

Superior Performance in Drilling Mild Steel to  
Stainless Steel & Hi-Temp Alloys

**EX: Exotic Materials**



# Drilling Conditions of Aqua EX Drill



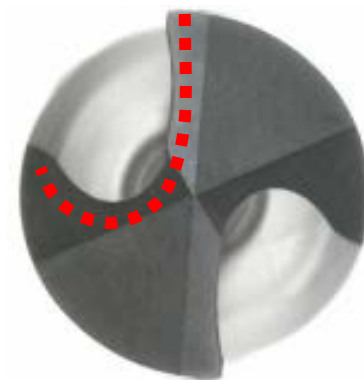
# Excellent Chip Breakup



**Aqua EX Drill**

**Others**

**Wide Pocket  
J Flutes Breaks Chips**



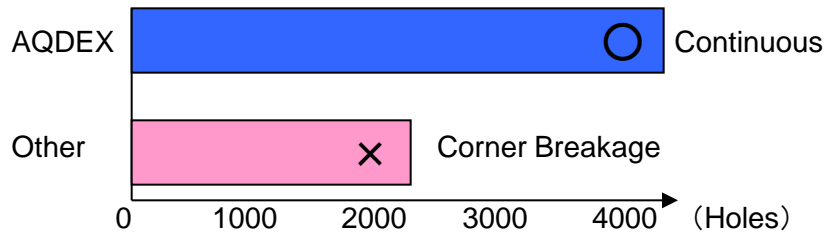
Type: AQDEXR0600  
Material: S50C(180HB)  
Conditions :  
Vc=80mm/min,  
f=0.2mm/rev

# Performance

**【Example-1】**

- Type: AQDEXR1200
- Material: CAM (SCM420)
- Vc 105m/min, F 0.2mm/rev. H7mm Emulsion

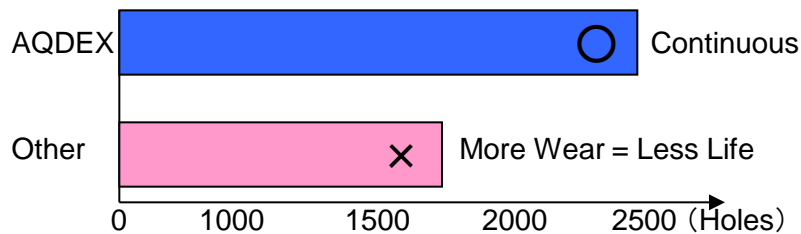
2 Times Tool Life!



**【Example-2】**

- Type: AQDER0850
- Material: Plate (S10C)
- Vc 60m/min, F 0.15mm/rev. H16mm Emulsion

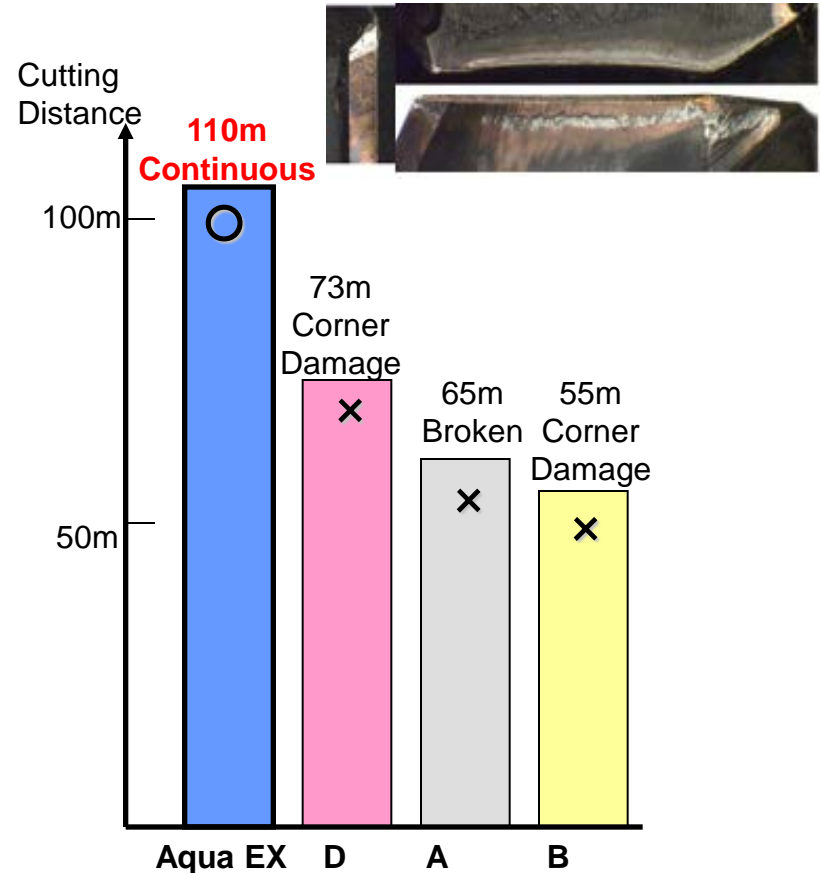
1.5 Times Tool Life!



**【Example-3】**

- Type: AQDEXR0800
- Vc 50m/min, F 0.25mm/rev. H32mm Emulsion
- Material: S50C

**Aqua EX: After 93m**



**Thank You**