

NORTON

WINTER

SAINT-GOBAIN

Transforming
surfaces
...and beyond

**FLUTE
EVO**

FLUTE GRINDING HAS EVOLVED FAST CUT

PRECISION

EFFICIENT

FLEXIBLE

HIGH PERFORMANCE

OPTIMISED


SAINT-GOBAIN

FLUTE GRINDING HAS EVOLVED

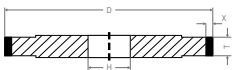
FAST CUT

The demands of modern grinding and machining round tools are constantly changing and becoming more sophisticated. To keep up with this ever-dynamic landscape, **Norton Winter** have developed **Q-Flute-EVO**: the next evolution in flute grinding.

KEY EVOLUTIONS

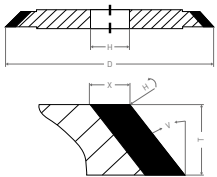
- IMPROVED FLUTE SURFACE QUALITY**
 New high performance Q-Flute Bond is flexible and excels in the most demanding of processes.
- 20% LOWER GRINDING FORCES**
 Free grinding bond system significantly reduces grinding forces when compared to competitor products. Producing far superior part quality.
- OPTIMISED FOR PRECISION**
 Unparalleled standards of edge stability and optimised for low-medium volume batches.
- SHORT LEAD TIMES**
Norton Winter hold customisable stock and parts for production on a "Just-in-time" basis.

1A1 Stock Programme



SHAPE	D Range [mm]	T Range [mm]	X [mm]	H [mm]	GRIT SIZE	BOND	BODY
1A1	100 • 125 • 150	8 • 10 • 12 • 15	16	>20	D54	Q-FLUTE-EVO	C

1V1 Stock Programme



SHAPE	D Range [mm]	T Range [mm]	X [mm]	V [°]	H [mm]	GRIT SIZE	BOND	BODY
1V1	100 • 125 • 150	8 • 10 • 12 • 15	10 - 16*	<20	>20	D54	Q-FLUTE-EVO	C

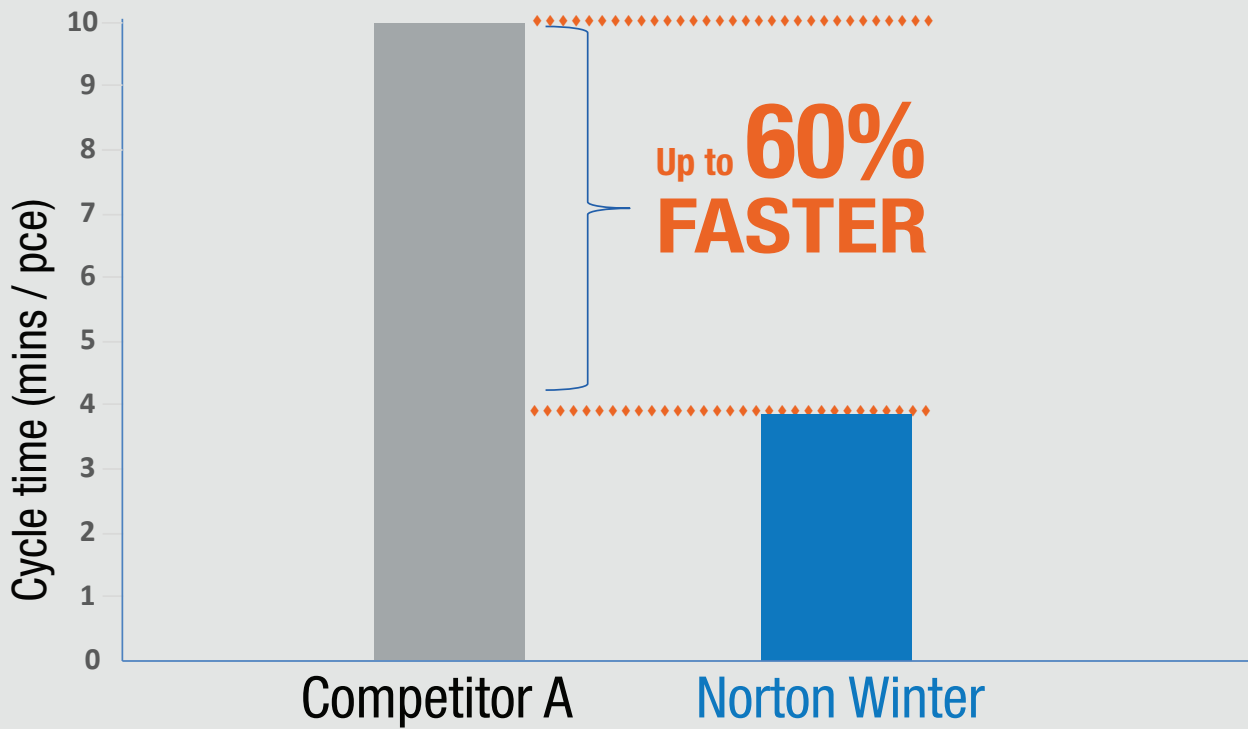
* Usable layer depth depending on layer angle
 Other shapes and dimensions on request.



FLUTE GRINDING HAS EVOLVED

FAST CUT

Q-Flute Evo Wheels Shorter Cycle Time



CASE STUDY

Application:

Carbide Drill 10.1 mm

SGA Tool/Specifications:

SP700 150-8-16-76.3 D54 Q-FluteEvo C

Cooling:

Oil

Benefits:

- Easy preparation
- Low feed rates possible (Q'w≈3)
- Significant increase in productivity possible (Q'w≈6)
- Improved work piece quality
- Perfect interaction with V-Prime to optimise the entire process

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