

CREEPFEED WHEELS

Three Proprietary Technologies

Create the Ultimate Creepfeed Wheel

Key Attributes:

- Proprietary, durable Vitrium 3 Bond Techology
- Norton Quantum Ceramic Abrasive
- Patented Pore-Induced Construction

Key Applications:

- Heat-sensitive and difficult-to-grind alloys
- Large areas of contact





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AEROSPACE | ENERGY | AUTOMOTIVE





CREEPEED WHEELS

FEATURES & BENEFITS

- Norton-exclusive, synergistic engineering of three leading technologies produce the most free-cutting creepfeed wheel on the market today:
- Vitrium 3: the newest, strongest bond in the Norton portfolio
- Norton Quantum abrasive
- Patented pore-induced construction
- Extremely versatile: for all low-, medium- and high-force applications
- Excel on hard-to-grind aerospace alloys and large areas of contact
- Exceptional form and corner-holding
- Best Metal Removal Rates vs. all other ceramic creepfeed wheels
- Reduce grinding cycle times up to 50%
- 20+% less power draw
- Longest wheel life + fastest grind cycle = highest productivity

BLANK STOCK FASTTRACK SERVICE

Norton Quantum X unfinished blank stock creepfeed wheels are available and can be altered to your dimensional requirements.

- Standard lead-time is 2 weeks
- Alteration Parameters:
- Diameter may be altered up to 2" smaller than the original blank stock diameter
- Thickness may be altered to 1/2 the original blank stock thickness
- Hole may be altered to ≤ half the diameter of the finished wheel

Case Study - Aerospace Alloy

PRODUCTS: 16" x 5.5" x 5" Norton Quantum X (3NQ60-E24VTX2) creepfeed

wheel vs. 16" x 5.5" x 5" Incumbent ceramic creepfeed wheel

APPLICATION: Turbine blade root form

RESULTS: Norton Quantum X Incumbent Ceramic

TOTAL CYCLE TIME/PART: 18 minutes, 20 seconds 31 minutes, 23 seconds

COST SAVINGS: Norton Quantum X wheels will provide a 29% total cost per part savings and a 41% reduction in total cycle time.

Use Norton diamond dressing/truing rolls, spindles, and systems to maximize the performance and life of these wheels. Contact your Norton representative for product recommendations.

BLANK STOCK AVAILABILITY

Type 01 Straight Wheel

SIZE (D x T x H)	SPEC.	UF BLANK PART #
Type 01 Straight		
16" x 1" x 5"	3NQX60-C28VTX2	00310438575
	3NQX60-D28VTX2	00310425238
	3NQX60-E24VTX2	00310425239
16" x 3" x 5"	3NQX60-C28VTX2	00310438656
	3NQX60-D28VTX2	00310425240
	3NQX60-E24VTX2	00310425241
16" x 5" x 5"	3NQX60-D28VTX2	00310425242
	3NQX60-E24VTX2	00310425243
16" x 6" x 5 "	3NQX60-C28VTX2	00310438657
20" x 1" x 8"	3NQX60-C28VTX2	00310438658
	3NQX60-D28VTX2	00310425244
	3NQX60-E24VTX2	00310425245
20" x 3" x 8"	3NQX60-C28VTX2	00310438659
	3NQX60-D28VTX2	00310425256
	3NQX60-E24VTX2	00310425257
20" x 5" x 8"	3NQX60-D28VTX2	00310425258
	3NQX60-E24VTX2	00310425259
20" x 6" x 8"	3NQX60-C28VTX2	00310438660

MADE-TO-ORDER AVAILABILITY

Abrasives: Norton Quantum 3NQX and 5NQX

Grit Sizes: 46, 60, 80, 100, and 120

Grades / Structures:

GRADE	C	D	E	F	G	Н		
STRUCTURE	28	24	20	16	16	16	16	
		28	24	20	20	20		
			28	24	24			
				28				

Typical Marking: 3NQX60-D28VTX2 and 5NQX80-E24VTX2

Dimensions:

DIAMETER	THICKNESS	MINIMUM RIM THICKNESS
> 4.5" to 8"	3/8" to 3"	1"
> 8" to 10"	3/8" to 5"	1"
> 10" to 20"	3/8" to 6.5"	1"
> 20" to 24"	1/2" to 6"	1-1/2"
> 24" to 30"	3/4" to 2"	1-1/2"
	16.01 12 1 6.01 1 1	

Hole size must be \leq half the diameter of the wheel.

Wheel Types: 01 Straight, 02 Cylinder, 05 Recessed One Side, 06 Straight Cup.

07 Recessed Two Sides, 13 Saucer, 37 Nut Inserted Cylinder,

38 Straight Hubbed One Side

Wheel Speed: Standard: 6,500 SFPM, Optional: 8,500 SFPM

(with product management review and approval)

BEST NORTON Quantum X

Toll Free Fax:

BETTERNORTON Vortex 2

GOOD

Defer to BETTER Product

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