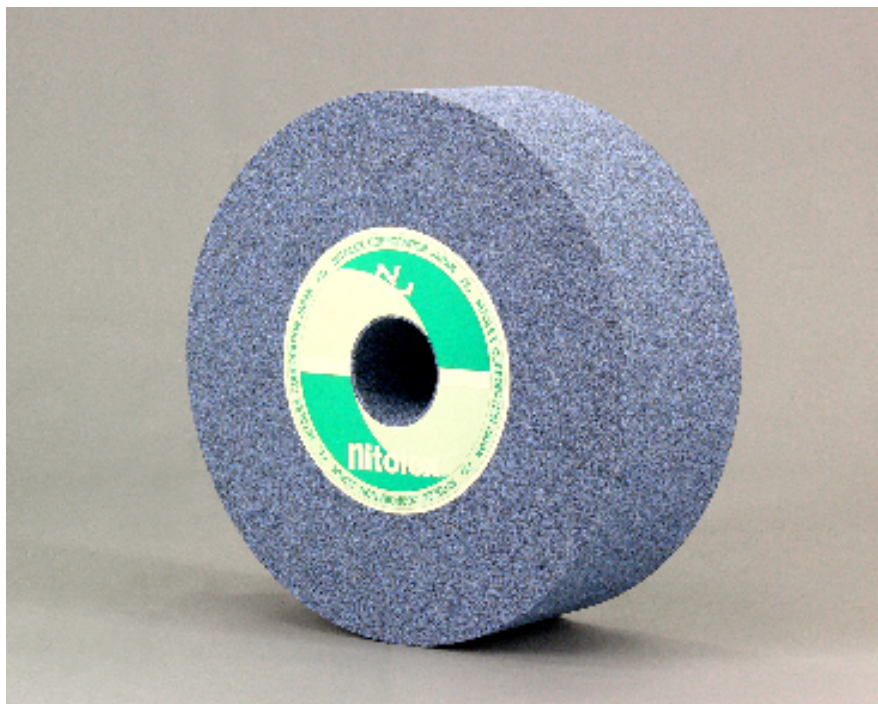


NEOVEX GRINDING WHEELS



● Functional wheels for soft materials

Non-ferrous metals grinding such as inconel, aluminum, titanium, copper or zinc alloys causes wheel loading and thus short dressing interval.

NEOVEX wheels are a series of functional wheels using special abrasive and moderately friable bond and not loaded with grinding chips even when used for soft materials.

They are also useful for non-metallic materials and have been found to have characteristic performance in grinding hard rubber, FRP, etc. They adequately support various needs.

● Characteristics of NEOVEX

● Wheel loading prevention

Aluminum, copper alloys such as brass and titanium alloys grind without wheel loading

● Less grinding heat

In case of cylindrical grinding of hard rubber rolls, the low rubber temperature is apparently reduced to prevent thermal degradation and thermal alteration .

● Applications

Centerless grinding : stainless steel , brass shafts
Cylindrical grinding : hard rubber rolls
Creep feed grinding : turbine blades (Inconel)
Various types of precision grinding : copper, aluminum , titanium alloys.

NEOVEX WHEELS

● Example Applications

Lead Screws
(Brass)
Centerless Grinding

	NEOVEX WHEELS	Conv. Wheel
Wheel	NV 80 K 8 V 455X150X228.6	GC 80 K 8 V 455X150X228.6
Material	Brass (C3602) φ3.0X40L Hardness: Hv 75	
Grinder	Nissin Kikai (wheel speed 33 m/s)	
Work speed	1.5 m/min	
Dressing interval	Non-necessity	2 - 3 hours
Remarks	A dressing is only once trued when it is installed while wheel life. Also it is able to grind stainless steels. It is greatly reduced cost.	—

Rubber Rolls
Cylindrical Grinding

	NEOVEX WHEELS	Conv. Wheel
Wheel	NV 60 G 11 V 305X38X101.6	C 70 I 13 V 305X38X101.6
Material	Silicon rubber, etc. Allowance 1~1.5mm	
Wheel speed	33 m/s	
Surface finish	10 S	
Dressing interval	2 pieces	1 piece
Ginding fluid	Dry	Dry
Remarks	The workpiece temperature is kept at 30°C where it can be touched by hand.	The workpiece becomes 50-60°C too hot to directly touch after grinding.

Turbine Blades
Creep Feed Grinding

	NEOVEX WHEEL	Conv. Wheel
Wheel	NV 60 E 14 V 610X49X304.8	Ceramics 803 C 15 V 610X49X304.8
Material	Inconel	
Wheel speed	33 m/s	
Depth of cut	2.5 mm/pass	
Work speed	800 mm/min	
Dressing interval	1 pass	1 pass
Remarks	It is equal in quality to ceramic abrasive (Sol-gel method).	—