

ABRASIVE SOLUTIONS

# MAINTENANCE & REPAIR



As rail track technology continues to make major advances, Norton is generating powerful, innovative, user friendly solutions to cut, shape and grind heavy duty steels.

Steel used in the manufacture of rail tracks is tougher and harder than ever, to cope with increasing axle weight and total tonnage of new rail services. Heat treatment combined with high levels of carbon, manganese and silicon used in manufacturing make cutting and grinding operations tough.

Norton offers a full range of products specially designed to handle any applications in the maintenance and repair of rail, underground and tram tracks taking into account the hardness of the metal used and the unique shape of rail track.

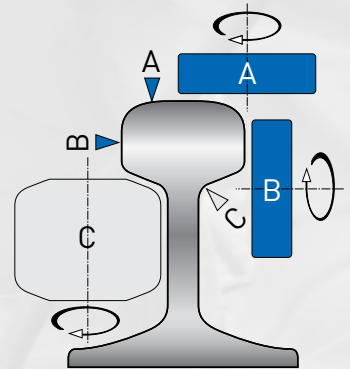
Norton's continued investment in R&D is reshaping the world of grinding in the rail industry, by driving down costs and increasing productivity.

**CUSTOMERS COUNT ON NORTON TO...**

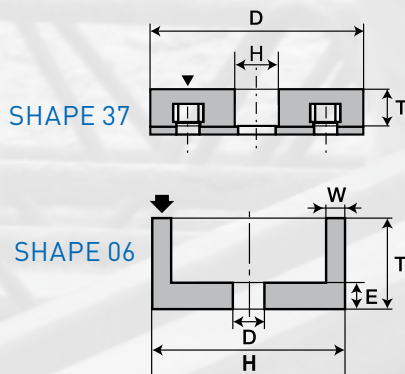
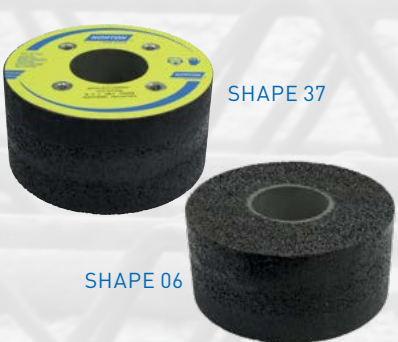
- Improve productivity, reduce total cost
- Protect people in their environment
- Improve rail environment



# GRINDING THE PROFILE OF THE TRACK (AREAS A & B)



Organic nut inserted and straight cup wheels for profile grinding of tracks. These are primarily used on track mounted machines.



- KEY:**
- D = Diameter
  - T = Thickness
  - H = Bore hole
  - E = Back thickness
  - W = Rim width

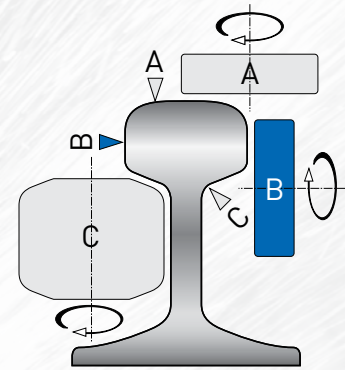
## INSERTED NUT DISC WHEELS

TYPE	DIAMETER (D) [mm]	THICKNESS (T) [mm]	HOLE (H) [mm]	NO. INSERT & SIZE	SPECIFICATION	MAX RPM	PART NUMBER	APPLICATION
37	150	76	55	4 M8	NZ14RB	6000	66253136986	Hot and Cold Grinding - Thermit Weld
37	150	76	55	4 M8	NZ14PB	6000	66253196234	Flash Butt Weld - Quick Cut

## STRAIGHT CUP WHEELS

TYPE	DIAMETER (D) [mm]	THICKNESS (T) [mm]	HOLE (H) [mm]	BACK (E) [mm]	RIM (W) [mm]	SPECIFICATION	MAX RPM	PART NUMBER	APPLICATION
06	105	63	20			A16RB	8120	66243189150	Tram Track Profiling

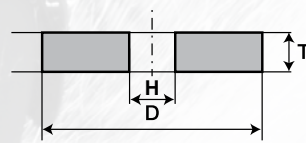
# GRINDING FROGS AND SWITCH POINTS (AREA B)



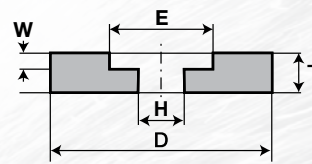
Straight and recessed organic wheels for grinding Frogs and Switch Points



SHAPE 01



SHAPE 05



KEY:

- D = Diameter
- T = Thickness
- H = Bore hole
- E = Recess Diameter
- W = Recess Depth

## STRAIGHT GRINDING WHEELS

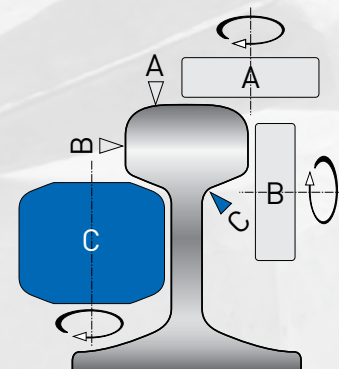
TYPE	DIAMETER (D) [mm]	THICKNESS (T) [mm]	HOLE (H) [mm]	NO. INSERT & SIZE	SPECIFICATION	MAX RPM	PART NUMBER	APPLICATION
01	200	25	15.88		NZ14RB	6000	66253030778*	Profiling Switch/Frog
01	250	20	38.10		A205QB	3820	66253284081	Tramways Rail Grinding

## STRAIGHT GRINDING WHEELS WITH RECESS

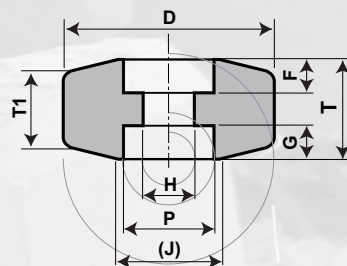
TYPE	DIAMETER (D) [mm]	THICKNESS (T) [mm]	HOLE (H) [mm]	REC DIA (E) [mm]	REC DEP (W) [mm]	SPECIFICATION	MAX RPM	PART NUMBER	APPLICATION
05	250	32	25.4	127	13	A14RB	3820	61463670226	Profiling Switch/Frog

# GRINDING THE WEB OF THE TRACK (AREA C)

Wheels with a special profile are needed for grinding connection chambers and the web of the track.



SHAPE 07



KEY:

- D = Diameter
- T = Thickness
- H = Bore hole
- P = Recess width
- G = Recess depth
- F = Recess depth

## ORGANIC GRINDING WHEELS WITH RECESS

TYPE	DIAMETER (D) [mm]	THICKNESS (T) [mm]	HOLE (H) [mm]	REC DIA (P) [mm]	REC DEP (G/F) [mm]	SPECIFICATION	MAX RPM	PART NUMBER	APPLICATION
07	135	95	25.4	56.0	23.5	NZ16QB	3820	66253478808*	Web Grinding

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