LONGER LIFE • COST EFFECTIVE • RELIABLE

Double Cut Carbide Burr Kit

DOUBLE THE CUT : DOUBLE YOUR OUTPUT

Carbide Burrs Kit No. 69957308060

Norton double-cut style carbide burrs have stronger tooth formulation and numerous cutting edges to outperform other double-cut carbide burrs with better stock removal, granular chip break, and longer life. Single spiral carbide burrs make deburring aluminium and non-ferrous materials an ease. Extra sharp edges and fast debris removal keeps you on task for better production.

Pair up these long-lasting burrs with the Norton pneumatic die grinder to quickly and comfortably accomplish many portable applications on one machine – including jobs using specialties, small diameter flap wheels, and mounted points.

Norton Carbide Burr Kit includes:

- 1 piece of Norton 69957308005 SA5 Carbide Burr Ø1/2" x 3/4"x 2-3/4"
- 1 piece of Norton 69957308020 SF3 Carbide Burr Ø3/8" x 3/4"x 2-1/2"
- 1 piece of Norton 69957308021 SF5 Carbide Burr Ø1/2" x 3/4"x 2-3/4"
- 1 piece of Norton 69957308026 SG5 Carbide Burr Ø1/2" x 1"x 6"
- 1 piece of 69957308030 SL4 Carbide Burr Ø1/2" x 1-3/16" x 3”

Norton Pneumatic Die Grinder
Part # 69957308000

KEY APPLICATIONS

DEBURRING | MEDIUM TO LIGHT SURFACE CLEANING & STOCK REMOVAL | WELD REMOVAL & PREP | CHAMFERING

KEY INDUSTRIES

METAL FABRICATION | FOUNDRY | SHIPBUILDING | AVIATION | AUTOMOTIVE | MRO

KEY MATERIALS

STAINLESS AND OTHER STEELS | NICKEL | COPPER | TITANIUM | CAST IRON | ALUMINUM | OTHER NON-FERROUS METALS

WHY USE NORTON CARBIDE BURRS: FEATURES & BENEFITS

- The primary advantage of using these burrs is their extended life due to the hardness of their tungsten carbide substrate, plus their stronger tooth formulation (decreased tooth wedge angle), and numerous cutting edges. Our carbide burrs can be used longer, and on more demanding production runs with less changeover downtime vs. other cutting tools.
- You will achieve higher stock removal, and smaller granular chip-break on hard-to-grind workpieces vs. other carbide burrs.
- Also, these carbide burrs perform well at higher temperatures and can be used longer than high-speed tools – even if your operation generates some heat.
- Double-cut burrs are the most popular and functional because of their universal cutting style. This versatile burrs can be used on die grinders and automated CNC machines.

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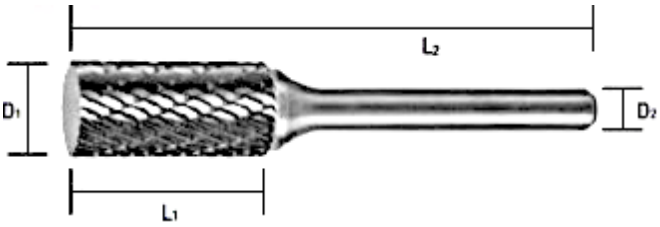
UNDERSTANDING THE PRODUCT : BURRS DIMENSIONS

D1	L1	D2	L2
Head Diameter	Head Length	Shank Diameter	Overall Burr Length (OL)

All Shank Diameters (D2) are standard 1/4" or 6.35mm



STOCK AVAILABILITY

- Sub-shape names and dimensions are industry standards, which facilitates an easy cross over to Norton's high-quality carbide burrs.
- Each Norton carbide burr is packed individually in a clear, protective plastic case with Norton's blue end-caps. Each burr is marked with the burr head diameter and length for easy identification.
- All shank diameters (D2) are 1/4" or 6.35mm.

RECOMMENDATIONS FOR USE

- It might be necessary to adjust the rates shown to achieve optimum performance
- Running below the optimum speed will encourage chipping
- Harder materials or sticky metals, such as titanium, require slower speed
- Running above optimum speed will cause tooth wear
- Smaller burrs require faster speeds
- Allowing the tool to become too hot might cause the braze to melt and detach the head of the shank
- Apply constant movement and light pressure when in use
- Do not sink the burr for more than one third of its periphery

RECOMMENDED OPERATING SPEED (RPM)

Material	Product Diameter				
	1/8" (3.18mm)	1/4" (6.35mm)	3/8" (9.53mm)	1/2" (25.4mm)	5/8" (15.86mm)
Steel	60000-90000	45000-60000	30000-40000	22500-30000	18000-24000
Tempered Steel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Stainless Steel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Casting	45000-90000	22500-60000	15000-40000	11000-30000	9000-24000
Titanium	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Nickel	60000-90000	30000-45000	19000-30000	15000-22500	12000-18000
Copper & Copper Alloys	45000-90000	22500-60000	15000-40000	11000-30000	9000-24000

Recommended speeds are for standard shank length of 1-3/4" (44.45mm), maximum overhang 3/8" (9.53mm)

Norton Die Grinder Carry Case Kit
Part # 69957340175

Norton Die Grinder Bulk Kit
Part # 69957308001

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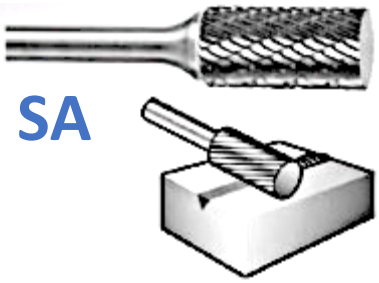
CARBIDE BURRS FOR STANDARD METAL REMOVAL

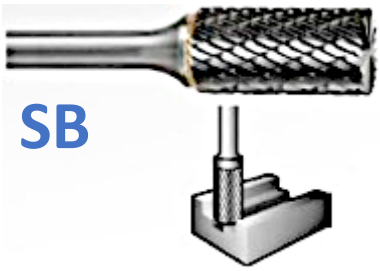


SA

Cylindrical without End Cut

The ends of these burrs are flat, with no cutting edges and are used for contour finishing and to get into right-angled corners.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SA1	25,000	1/4” (6.35mm)	3/4"(19.05mm)	2”(50.8mm)	69957308002
SA2	25,000	5/16”(7.94mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308003
SA3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308004
SA5	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308005
SA5	25,000	1/2"(12.7mm)	1”(25.4mm)	6”(152mm)	69957360674

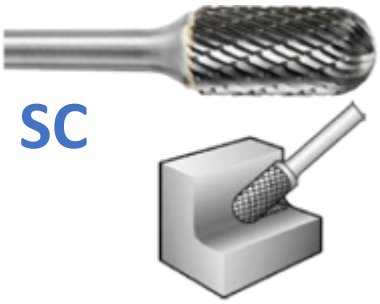


SB

Cylindrical with End Cut

The cutting edges at the end of the burr makes these burrs a good choice for contour finishing.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SB3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308006
SB5	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308007
SB6	25,000	5/8"(15.88mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308008

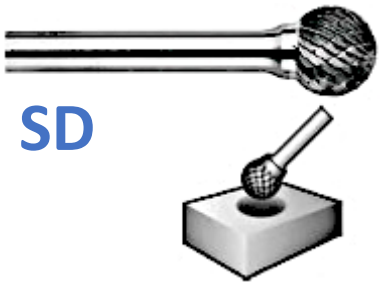


SC

Ball-Nosed Cylindrical

Use these round-nosed burrs for smoother operation and better tool control.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SC1	25,000	1/4” (6.35mm)	3/4"(19.05mm)	2”(50.8mm)	69957308009
SC2	25,000	5/16”(7.94mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308010
SC3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308011
SC5	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308012
SC5	25,000	1/2"(12.7mm)	1”(25.4mm)	6”(152.4mm)	69957360679
SC5	25,000	1/2"(12.7mm)	1”(25.4mm)	12”	69957360905
SC6	25,000	5/8"(15.88mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308013



SD

Ball Shape

Use these carbide burrs to create a concave and to hollow out a workpiece.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SD1	25,000	1/4” (6.35mm)	1/4” (6.35mm)	2”(50.8mm)	69957308014
SD2	25,000	5/16”(7.94mm)	1/4” (6.35mm)	2”(50.8mm)	69957308015
SD3	25,000	3/8”(9.53mm)	5/16”(7.94mm)	2-1/8”(54mm)	69957308016
SD5	25,000	1/2"(12.7mm)	7/16”(11.11mm)	2-3/16”(55.6mm)	69957308017

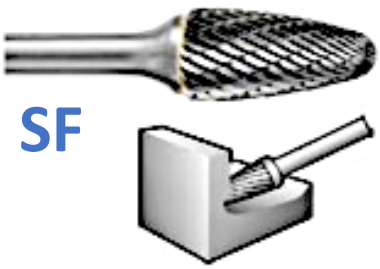
SE

Oval Shape

Use the oval-shaped carbide burrs for good reach and round head for shaping.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SE3	25,000	3/8”(9.53mm)	5/8"(15.88mm)	6”(152.4mm)	69957340158

CARBIDE BURRS FOR STANDARD METAL REMOVAL



SF

Ball-Nosed Tree

Designed to round off edges and make concave cuts.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SF1	25,000	1/4” (6.35mm)	3/4"(19.05mm)	2”(50.8mm)	69957308018
SF2	25,000	5/16”(7.94mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308019
SF3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308020
SF3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	6”(152.4mm)	69957360689
SF5	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308021
SF5	25,000	1/2"(12.7mm)	1”(25.4mm)	6”(152.4mm)	69957360691
SF5	25,000	1/2"(12.7mm)	1”(25.4mm)	12”(304.8mm)	69957360904
SF6	25,000	5/8"(15.88mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308022

SG

Tree with Taper

The taper allows access to hard-to-reach areas, such as angled contours.

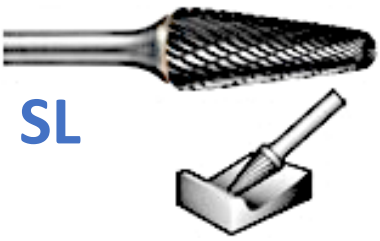
SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SG1	25,000	1/4” (6.35mm)	3/4"(19.05mm)	2”(50.8mm)	69957308023
SG3	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957308025
SG5	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308026
SG5	25,000	1/2"(12.7mm)	1”(25.4mm)	6”(152.4mm)	69957360712
SG6	25,000	5/8"(15.88mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957308027

SH

Flame Shape

Great for channel working and shaping due to its long fluted sides and rounded head.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SH5	25,000	1/2"(12.7mm)	1-1/4"(31.8mm)	6”(152.4mm)	69957366822

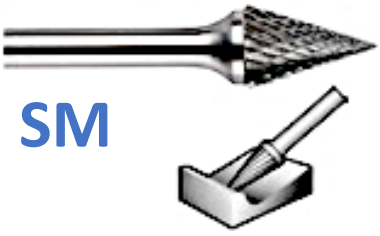


SL

Ball-Nosed Cone

This cone shape is excellent for imparting fine finishes.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SL2	25,000	5/16”(7.94mm)	7/8”(22.33mm)	2-3/4”(69.85mm)	69957308028
SL3	25,000	3/8”(9.53mm)	1-3/16”(30.2mm)	2-15/16”(74.6mm)	69957308029
SL4	25,000	1/2"(12.7mm)	1-3/16”(30.2mm)	3”(76.2mm)	69957308030
SL4	25,000	1/2"(12.7mm)	1-3/16”(30.2mm)	6”(152.4mm)	69957360720



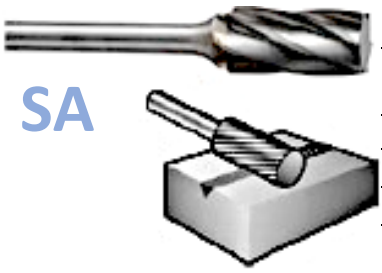
SM

Pointed Cone

Ideal for rounded edges or reaching difficult , tight areas.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SM4	25,000	3/8”(9.53mm)	5/8"(15.88mm)	6”(152.4mm)	69957366824
SM5	25,000	1/2"(12.7mm)	7/8”(22.33mm)	6”(152.4mm)	69957360767

CARBIDE BURRS FOR ALUMINIUM AND NON-FERROUS MATERIALS

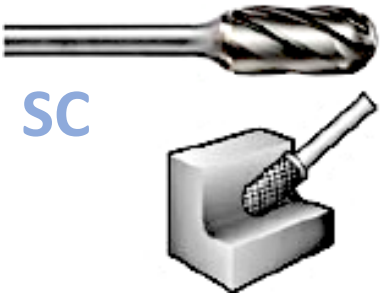


SA

Cylindrical without End Cut

The ends of these burrs are flat, with no cutting edges and are used for contour finishing and to get into right-angled corners.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SA3 NF	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957340148
SA5 NF	25,000	1/2"(12.7mm)	2”(50.8mm)	2-3/4”(69.85mm)	69957340149

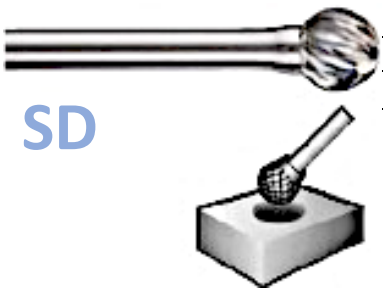


SC

Ball-Nosed Cylindrical

Use these round-nosed burrs for smoother operation and better tool control.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SC3 NF	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-3/4”(69.85mm)	69957340150

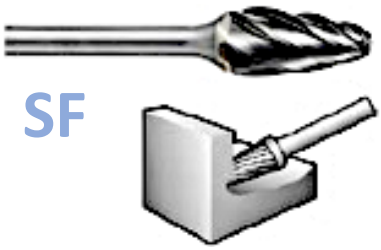


SD

Ball Shape

Use these carbide burrs to create a concave and to hollow out a workpiece.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SD3 NF	25,000	3/8”(9.53mm)	5/16”(7.94mm)	2-1/8”(54mm)	69957366820

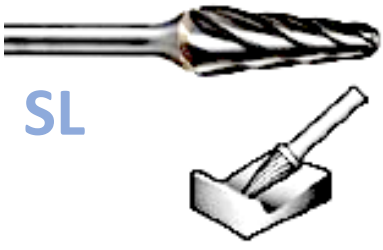


SF

Ball-Nosed Tree

Designed to round off edges and make concave cuts.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SF1 NF	25,000	1/4” (6.35mm)	3/4"(19.05mm)	2”(50.8mm)	69957340153
SF3 NF	25,000	3/8”(9.53mm)	3/4"(19.05mm)	2-1/2”(63.5mm)	69957340154
SF5 NF	25,000	1/2"(12.7mm)	1”(25.4mm)	2-3/4”(69.85mm)	69957360647



SL

Ball-Nosed Cone

This cone shape is excellent for imparting fine finishes.

SUB-SHAPE	MAX RPM	D1	L1	L2	Part #
SL4 NF	25,000	3/8”(9.53mm)	5/8"(15.88mm)	6”(152.4mm)	69957360651