

# UNIVERSAL RANGE

→ SOLUTIONS FOR UNIVERSAL APPLICATIONS  
HIGH QUALITY ENSURING RELIABILITY

→ MAXIMISE YOUR PRODUCTIVITY

- NEXT GENERATION 6
- NEXT GENERATION 6 ACCELERATOR
- DOUBLE CUT
- SINGLE CUT



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5



6



7



8



9



10



11



**1**

## NEXT GENERATION 6

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756-764

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### The revolutionary new NEXT GENERATION 6 cut style

#### APPLICATION

✓	✓	✓	✓			✓			

- Removes more than twice the material when compared against other leading double cut burs
- Long tool life comes with high performance
- Essentially vibration-free even under the toughest grinding conditions
- Available with the latest **ACCELERATOR** coating technology for extended tool life
- For all types of steel such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based

**Stock items**

- ✓ OPTIMAL
- ✓ GOOD

## DOUBLE CUT

**5**


766-777

**6**
**7**
**8**

### The most widely used universal cut style

#### APPLICATION

✓	✓	✓	✓	✓		✓	✓		

- High cutting action through cross cutting style
  - Smooth operation
  - Short chips
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based and titanium alloy
- Also copper, brass, bronze

**Stock items**

- ✓ OPTIMAL
- ✓ GOOD

## SINGLE CUT

**9**


778-788

**10**
**11**

### The most widely used single cut style

#### APPLICATION

✓	✓	✓	✓	✓	✓	✓	✓		

- High cutting action with good surface finish
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based and titanium alloy
- Also copper, brass, bronze

**Stock items**

- ✓ OPTIMAL
- ✓ GOOD

**NEXT GENERATION**  
6

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KEL L	SKM M
760	760	761	761	762	762	763	763	764	764
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone

**DOUBLE CUT**

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KSJ J	KSK K	KEL L	SKM M	WKN N
768	769	770	771	772	773	774	775	775	776	776	777	777
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Countersink 60°	Countersink 90°	Ball nosed cone	Cone	Inverted cone

**SINGLE CUT**

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KSJ J	KSK K	KEL L	SKM M	WKN N
780	781	782	783	784	784	785	785	786	786	787	787	788
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Countersink 60°	Countersink 90°	Ball nosed cone	Cone	Inverted cone

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Innovative, patent pending geometry, developed and engineered by ATA, to accelerate the manufacturing process and increase product life.

## WHY CHOOSE THE NEXT GENERATION 6

By choosing the **NEXT GENERATION 6**, you will achieve huge reductions in time and effort. Combining innovative, patent-pending geometry with the very latest in coating technology, productivity is sustained and longevity is further improved without negatively affecting the vibration for the user.

With the **NEXT GENERATION 6 ACCELERATOR** coating, stock removal is up to **DOUBLE** that of other leading premium-quality burs serving this market.

The aggressive geometry greatly improves cutting performance and finishing capabilities, providing a reduction in process costs for heavy stock removal applications.

**SPECIALLY DESIGNED TO RAPIDLY REMOVE STOCK, INCREASE PRODUCTIVITY AND EXTEND PRODUCT LIFE**

Manufactured from high quality tungsten carbide at our facility, guaranteeing consistent performance and high quality to ISO 9001:2015.

Combined with an ATA Industrial Air Tool, the **NEXT GENERATION 6** will give a guaranteed smoother grinding operation.

The patent pending flute geometry is developed with a primary relief angle, which significantly increases the life of the bur.

- Significantly increased metal removal rates
- Shortens operator grinding time
- Aggressive geometry greatly improves cutting performance
- Reduced component machine time
- Resulting in the reduction of overall manufacturing costs

## PERFORMANCE

### NEXT GENERATION 6

**NEXT GENERATION 6** removes up to **75% more** stock on Mild Steel during the first 5 minutes of grinding when tested against other leading premium-quality double cut burs.

Cumulative stock removal on Stainless Steel over 15 minutes is **OVER 50%** for the **NEXT GENERATION 6**.

Movie



### NEXT GENERATION 6 ACCELERATOR

With the **ACCELERATOR** coating, the rate of stock removal is up to **DOUBLE** that of other leading double cut burs.

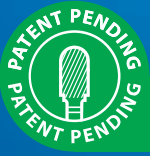
Cumulative stock removal is in excess of **100%** with the unique **ACCELERATOR** coating.



**NG6**  
NEXT GENERATION

**NG6**  
NEXT GENERATION  
ACCELERATOR

# NEXT GENERATION 6



By choosing NEXT GENERATION 6, users will achieve considerable reductions in time and effort.

This range combines an innovative geometry and coating technology that sustains productivity and longevity of the bur without negatively affecting the vibration of the tool for the user.

With the NEXT GENERATION 6 ACCELERATOR coating, stock removal is up to DOUBLE that of other leading premium-quality burs on the market. The aggressive geometry greatly improves cutting performance and finishing capabilities, providing a reduction in process costs for heavy stock removal applications.

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NEXT GENERATION 6

The revolutionary new NEXT GENERATION 6 cut style











APPLICATION

 Steel	 Hardened steel	 Stainless	 Cast iron	 Titanium	 Cermet	 Nickel	 Copper, copper alloys	 Alu	 Plastics GRP/CRP
✓	✓	✓	✓			✓			











✓ OPTIMAL  
✓ GOOD

- Removes more than twice the material when compared against other leading double cut burs
- Long tool life comes with high performance
- Essentially vibration-free even under the toughest grinding conditions
- Available with the latest **ACCELERATOR** coating technology for extended tool life
- For all types of steel such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KEL L	SKM M
									
760	760	761	761	762	762	763	763	764	764
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KEL L	SKM M
									
760	760	761	761	762	762	763	763	764	764
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone

## RECOMMENDED OPERATING SPEEDS

The following operating speeds are a recommended guide for the usage of tungsten carbide burs, based on the bur head diameter.

Bur Head	Max. Operating Speed	Cast Iron		Unhardened Steel		Unhardened Steel, Stainless Steel	
		Speed Range	Recommended Start Point	Speed Range	Recommended Start Point	Speed Range	Recommended Start Point
6mm	65	22-60	45	45-60	50	30-45	40
8mm	60	20-40	35	30-40	35	20-40	30
10mm	55	15-40	30	30-40	30	19-30	25
12mm	35	11-30	25	22-30	25	15-22	20
16mm	25	9-20	20	18-20	20	12-18	15
20mm	20	8-17	12	15-17	15	10-15	10
25mm	15	6-13	10	10-13	10	7-11	8

Recommended speeds are based on standard overall length of 38mm (1-1/2") maximum overhang of 10mm (3/8"). All speeds in the table above are × 1,000 rpm.

### MATERIAL APPLICATION

The **NEXT GENERATION 6**, along with the coated **ACCELERATOR** option, outperforms all comparable carbide burs on Steel, Stainless Steel, Mild Steel and Cast Iron.



### INDUSTRY APPLICATION

The **NEXT GENERATION 6** is the solution to accelerate manufacturing processes in industry applications where rapid stock removal is required.

Ideal industries include:

- Shipbuilding
- Foundries
- Heavy Metal Fabrication
- Oil & Gas
- Automotive
- Rail

### HIGHLIGHT

**NEXT GENERATION 6** - featuring an innovative, patent pending geometry, a unique combination of profiled fluting with low cross cut and a primary relief. Combined with the very latest in coating technology, never before used with carbide burs, the **NEXT GENERATION 6** delivers:

- Significantly increased metal removal rates
- Shortens operator grinding time
- Aggressive geometry greatly improves cutting performance
- Reduced component machine time

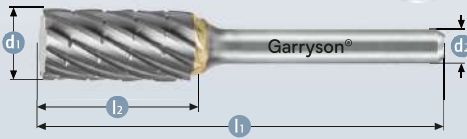
**Resulting in the reduction of overall manufacturing costs.**





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new



**SHAPE** A, ZYA, SA

Cylinder without end cut

new



Art.	d1	l2	d2	l1	brazed	solid
GT1400-NG6	6.0	18.0	6.0	50.0		✓
GT1500-NG6	8.0	19.0	6.0	64.0	✓	
GT1600-NG6	9.6	19.0	6.0	64.0	✓	
GT1700-NG6-1	12.0	25.0	6.0	70.0	✓	
GT1800-NG6-6	16.0	25.0	6.0	70.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ1400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ1500-NG6 ACC	8.0	19.0	6.0	64.0	✓	
GCZ1600-NG6 ACC	9.6	19.0	6.0	64.0	✓	
GCZ1700-NG6-1 ACC	12.0	25.0	6.0	70.0	✓	
GCZ1800-NG6-6 ACC	16.0	25.0	6.0	70.0	✓	

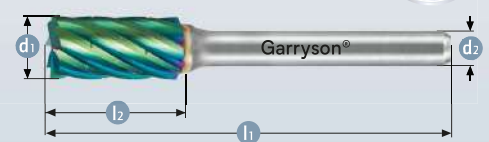
new



**SHAPE** B, ZYB, SB

Cylinder with end cut

new



Art.	d1	l2	d2	l1	brazed	solid
GT1402-NG6	6.0	18.0	6.0	50.0		✓
GT1502-NG6	8.0	19.0	6.0	64.0	✓	
GT1602-NG6	9.6	19.0	6.0	64.0	✓	
GT1702-NG6-1	12.0	25.0	6.0	70.0	✓	
GT1802-NG6-6	16.0	25.0	6.0	70.0	✓	

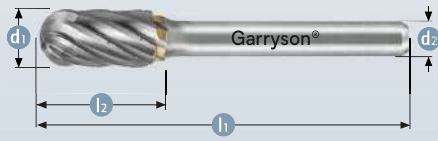
Art.	d1	l2	d2	l1	brazed	solid
GCZ1402-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ1502-NG6 ACC	8.0	19.0	6.0	64.0	✓	
GCZ1602-NG6 ACC	9.6	19.0	6.0	64.0	✓	
GCZ1702-NG6-1 ACC	12.0	25.0	6.0	70.0	✓	
GCZ1802-NG6-6 ACC	16.0	25.0	6.0	70.0	✓	

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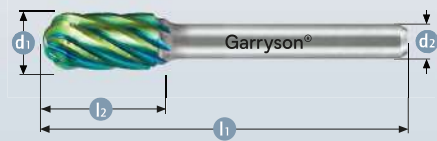
**new**



SHAPE **C, WRC, SC**

Ball nosed cylinder

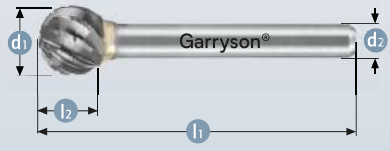
**new**



Art.	d1	l2	d2	l1	brazed	solid
GT3400-NG6	6.0	18.0	6.0	50.0		✓
GT3500-NG6	8.0	19.0	6.0	64.0	✓	
GT3600-NG6	9.6	19.0	6.0	64.0	✓	
GT3700-NG6-1	12.0	25.0	6.0	70.0	✓	
GT3800-NG6-6	16.0	25.0	6.0	70.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ3400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ3500-NG6 ACC	8.0	19.0	6.0	64.0	✓	
GCZ3600-NG6 ACC	9.6	19.0	6.0	64.0	✓	
GCZ3700-NG6-1 ACC	12.0	25.0	6.0	70.0	✓	
GCZ3800-NG6-6 ACC	16.0	25.0	6.0	70.0	✓	

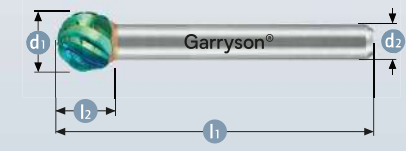
**new**



SHAPE **D, KUD, SD**

Ball

**new**



Art.	d1	l2	d2	l1	brazed	solid
GT7400-NG6	6.0	4.7	6.0	50.0		✓
GT7500-NG6	8.0	7.0	6.0	52.0	✓	
GT7600-NG6	9.6	8.0	6.0	53.0	✓	
GT7700-NG6	12.0	11.0	6.0	56.0	✓	
GT7800-NG6	16.0	14.0	6.0	59.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ7400-NG6 ACC	6.0	4.7	6.0	50.0		✓
GCZ7500-NG6 ACC	8.0	7.0	6.0	52.0	✓	
GCZ7600-NG6 ACC	9.6	8.0	6.0	53.0	✓	
GCZ7700-NG6 ACC	12.0	11.0	6.0	56.0	✓	
GCZ7800-NG6 ACC	16.0	14.0	6.0	59.0	✓	

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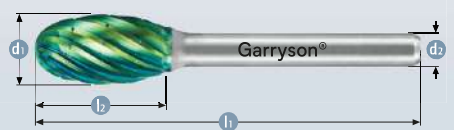
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**new**



SHAPE	E, TRE, SE
Oval	

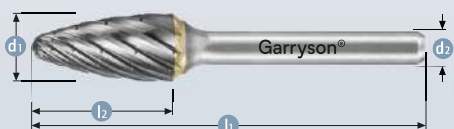
**new**



Art.	d1	l2	d2	l1	brazed	solid
GT5260-NG6	6.0	10.0	6.0	50.0		✓
GT5300-NG6	8.0	15.0	6.0	60.0	✓	
GT5500-NG6	9.6	16.0	6.0	61.0	✓	
GT5700-NG6	12.0	21.0	6.0	66.0	✓	
GT5800-NG6	16.0	25.0	6.0	70.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ5260-NG6 ACC	6.0	10.0	6.0	50.0		✓
GCZ5300-NG6 ACC	8.0	15.0	6.0	60.0	✓	
GCZ5500-NG6 ACC	9.6	16.0	6.0	61.0	✓	
GCZ5700-NG6 ACC	12.0	21.0	6.0	66.0	✓	
GCZ5800-NG6 ACC	16.0	25.0	6.0	70.0	✓	

**new**



SHAPE	F, RBF, SF
Ball nosed tree	

**new**



Art.	d1	l2	d2	l1	brazed	solid
GT9400-NG6	6.0	18.0	6.0	50.0		✓
GT9500-NG6	8.0	20.0	6.0	65.0	✓	
GT9600-NG6	9.6	19.0	6.0	64.0	✓	
GT9700-NG6	12.0	25.0	6.0	70.0	✓	
GT9800-NG6-6	16.0	25.0	6.0	70.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ9400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ9500-NG6 ACC	8.0	20.0	6.0	65.0	✓	
GCZ9600-NG6 ACC	9.6	19.0	6.0	64.0	✓	
GCZ9700-NG6 ACC	12.0	25.0	6.0	70.0	✓	
GCZ9800-NG6-6 ACC	16.0	25.0	6.0	70.0	✓	

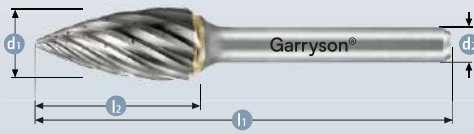
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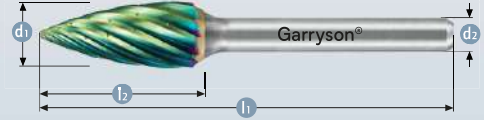
**new**



SHAPE **G, SPG, SG**

Pointed tree

**new**



Art.	d1	l2	d2	l1	brazed	solid
GT6400-NG6	6.0	18.0	6.0	50.0		✓
GT6450-NG6	8.0	19.0	6.0	64.0	✓	
GT6500-NG6	9.6	19.0	6.0	64.0	✓	
GT6800-NG6	12.0	25.0	6.0	70.0	✓	
GT6900-NG6-6	16.0	25.0	6.0	70.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ6400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ6450-NG6 ACC	8.0	19.0	6.0	64.0	✓	
GCZ6500-NG6 ACC	9.6	19.0	6.0	64.0	✓	
GCZ6800-NG6 ACC	12.0	25.0	6.0	70.0	✓	
GCZ6900-NG6-6 ACC	16.0	25.0	6.0	70.0	✓	

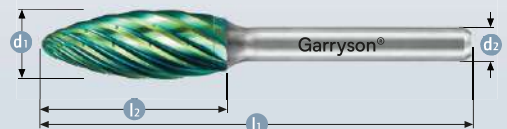
**new**



SHAPE **H, SH**

Flame

**new**



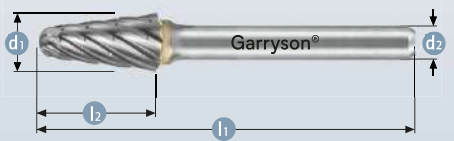
Art.	d1	l2	d2	l1	brazed	solid
GT5400-NG6	6.0	14.0	6.0	50.0		✓
GT5550-NG6	8.0	19.0	6.0	64.0	✓	
GT5555-NG6	10.0	20.0	6.0	65.0	✓	
GT5600-NG6	12.0	30.0	6.0	75.0	✓	
GT5850-NG6-6	16.0	36.0	6.0	81.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ5400-NG6 ACC	6.0	14.0	6.0	50.0		✓
GCZ5550-NG6 ACC	8.0	19.0	6.0	64.0	✓	
GCZ5555-NG6 ACC	10.0	20.0	6.0	65.0	✓	
GCZ5600-NG6 ACC	12.0	30.0	6.0	75.0	✓	
GCZ5850-NG6-6 ACC	16.0	36.0	6.0	81.0	✓	

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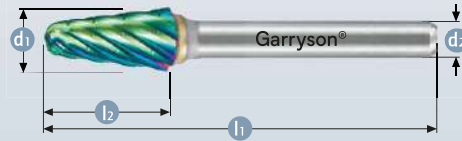
**new**



SHAPE **L, KEL, SL**

Ball nosed cone

**new**



Art.	d1	l2	d2	l1	brazed	solid
GT4400-NG6	6.0	18.0	6.0	50.0		✓
GT4500-NG6	8.0	25.0	6.0	70.0	✓	
GT4600-NG6	10.0	20.0	6.0	65.0	✓	
GT4700-NG6	12.0	30.0	6.0	75.0	✓	
GT4800-NG6-6	16.0	33.0	6.0	78.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ4400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ4500-NG6 ACC	8.0	25.0	6.0	70.0	✓	
GCZ4600-NG6 ACC	10.0	20.0	6.0	65.0	✓	
GCZ4700-NG6 ACC	12.0	30.0	6.0	75.0	✓	
GCZ4800-NG6-6 ACC	16.0	33.0	6.0	78.0	✓	

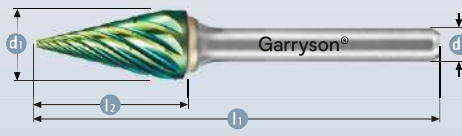
**new**



SHAPE **M, SKM, SM**

Cone

**new**



Art.	d1	l2	d2	l1	brazed	solid
GT2400-NG6	6.0	18.0	6.0	50.0		✓
GT2500-NG6	8.0	18.5	6.0	64.0	✓	
GT2600-NG6	10.0	19.0	6.0	64.0	✓	
GT2700-NG6-1	12.0	25.0	6.0	70.0	✓	
GT2750-NG6-1-6	16.0	29.0	6.0	74.0	✓	

Art.	d1	l2	d2	l1	brazed	solid
GCZ2400-NG6 ACC	6.0	18.0	6.0	50.0		✓
GCZ2500-NG6 ACC	8.0	18.5	6.0	64.0	✓	
GCZ2600-NG6 ACC	10.0	19.0	6.0	64.0	✓	
GCZ2700-NG6-1 ACC	12.0	25.0	6.0	70.0	✓	
GCZ2750-NG6-1-6 ACC	16.0	29.0	6.0	74.0	✓	

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# INNOVATIVE TOOLS

ADVANCING THE METALWORKING INDUSTRY



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## DOUBLE CUT

### The most widely used universal cut style

#### APPLICATION

✓	✓	✓	✓	✓		✓	✓		

✓ OPTIMAL  
 ✓ GOOD

- High cutting action through cross cutting style
  - Smooth operation · Short chips
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based and titanium alloy
- Also copper, brass, bronze

#### Stock items + catalogue pages

ZYA	ZYB	WRC	KUD	TRE	RBF	SPG	-	KSJ	KSK	KEL	SKM	WKN
A	B	C	D	E	F	G	H	J	K	L	M	N
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Countersink 60°	Countersink 90°	Ball nosed cone	Cone	Inverted cone



### Also available with BLUE-TEC coating



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.



Material groups			Application	Cutting speed m/min
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm <sup>2</sup> (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining with high stock removal	450-600
	Hardened, heat-treated steels exceeding 1200 N/mm <sup>2</sup> (> 38 HRC)	Tool steels, tempering steels, alloyed steel, cast steels		250-350
Stainless steel (INOX)	Rust- and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse machining with high stock removal	250-350
Non-ferrous metals	Hard-non-ferrous metals	Bronze, titanium/titanium alloys, hard alu-alloys (high Si content)	Coarse machining with high stock removal	250-350
	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)		300-450
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL, with nodular graphite cast iron EN-GJS, white annealed cast iron EN-GJMW, black cast iron EN-GJMB	Coarse machining with high stock removal	450-600



Cutting speed (m/min)							
	250	300	350	400	450	500	600
∅ (mm)	Rotational speed (rpm)						
2	40,000	48,000	56,000	64,000	72,000	80,000	95,000
3	27,000	32,000	37,000	42,000	48,000	53,000	64,000
4	20,000	24,000	28,000	32,000	36,000	40,000	48,000
6	13,000	16,000	19,000	21,000	24,000	27,000	32,000
8	10,000	12,000	14,000	16,000	18,000	20,000	24,000
10	8,000	10,000	11,000	13,000	14,000	16,000	19,000
12	7,000	8,000	9,000	11,000	12,000	13,000	16,000
16	5,000	6,000	7,000	8,000	9,000	10,000	12,000
20	4,000	5,000	6,000	6,000	7,000	8,000	10,000
25	3,000	4,000	4,000	5,000	6,000	6,000	8,000

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SHAPE **A, ZYA, SA**

Cylinder without end cut

Cutting data | Movie

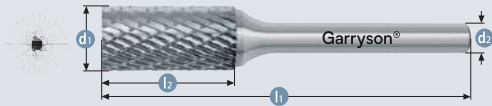
767

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-41M	GT1050D	1.5	6.0	3.0	38.0		✓
SA-41ML2	GT1050D-50	1.5	6.0	3.0	50.0		✓
SA-41ML3	GT1050D-75	1.5	6.0	3.0	75.0		✓
SA-63M	GT1100D	2.4	13.0	2.4	38.0		✓
SA-63ML	GT1100DL	2.4	13.0	2.4	63.0		✓
SA-42M	GT1150D	2.5	11.0	3.0	38.0		✓
SA-42ML2	GT1150D-50	2.5	11.0	3.0	50.0		✓
SA-42ML3	GT1150D-75	2.5	11.0	3.0	75.0		✓
SA-43M	GT1200D	3.0	14.0	3.0	38.0		✓
SA-43ML2	GT1200D-50	3.0	14.0	3.0	50.0		✓
SA-43ML	GT1200DL	3.0	14.0	3.0	63.0		✓
SA-43ML3	GT1200D-75	3.0	14.0	3.0	75.0		✓
SA-11M	GT1200D-6	3.0	12.0	6.0	50.0		✓
SA-12M	GT1200DL-6	3.0	16.0	6.0	50.0		✓
SA-52M	GT1310D	4.0	12.7	3.0	38.0		✓
SA-12M	GT1300D	4.0	13.0	4.0	50.0		✓
SA-12ML	GT1300DL	4.0	13.0	4.0	63.0		✓
SA-13M	GT1300D-6	4.0	16.0	6.0	50.0		✓
SA-53M	GT1350D	5.0	12.7	3.0	38.0		✓
SA-14M	GT1350D-6	5.0	16.0	6.0	50.0		✓
SA-1M	GT1400D	6.0	16.0	6.0	50.0		✓
SA-1ML3	GT1400DL	6.0	19.0	6.0	75.0		✓
SA-1ML	GT1400D-1	6.0	25.0	6.0	50.0		✓
SA-1ML6	GT1400DXL	6.0	12.7	6.0	162.0		✓
SA-51M	GT1240D	6.3	12.7	3.0	50.0	✓	
SA-2M	GT1500D	8.0	19.0	6.0	64.0	✓	
SA-3M	GT1600D	9.6	19.0	6.0	64.0	✓	
SA-3ML	GT1600D-1	9.6	25.0	6.0	70.0	✓	
SA-3ML6	GT1600DXL	9.6	19.0	6.0	169.0	✓	
SA-3MZ	GT1600D DIN	10.0	20.0	6.0	60.0	✓	
SA-4M	GT1650D	11.0	25.0	6.0	70.0	✓	
SA-5MZ	GT1700D-1 DIN	12.0	25.0	6.0	65.0	✓	
SA-4M	GT1700D	12.7	19.0	6.0	64.0	✓	
SA-5M	GT1700D-1	12.7	25.0	6.0	70.0	✓	
SA-5ML6	GT1700D-1XL	12.7	25.0	6.0	175.0	✓	
SA-5M8	GT1700D-1-8	12.7	25.0	8.0	70.0	✓	
SA-6M	GT1800D-6	16.0	25.0	6.0	70.0	✓	
SA-6M8	GT1800D	16.0	25.0	8.0	70.0	✓	
*SA-7M	GT1900D-6	19.0	25.0	6.0	70.0	✓	
*SA-9M	GT1950D-6	25.0	25.0	6.0	70.0	✓	

\*8 mm shanks optional

The revolutionary cylinder-radius bur see pages 879/880

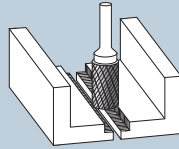




SHAPE

B, ZYB,  
SB

Cylinder with end cut



Cutting data



767

Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-41M	GT1052D	1.5	6.0	3.0	38.0		✓
SB-41ML2	GT1052D-50	1.5	6.0	3.0	50.0		✓
SB-41ML3	GT1052D-75	1.5	6.0	3.0	75.0		✓
SB-63M	GT1102D	2.4	13.0	2.4	38.0		✓
SB-42M	GT1152D	2.5	11.0	3.0	38.0		✓
SB-42ML2	GT1152D-50	2.5	11.0	3.0	50.0		✓
SB-42ML3	GT1152D-75	2.5	11.0	3.0	75.0		✓
SB-43M	GT1202D	3.0	14.0	3.0	38.0		✓
SB-43ML2	GT1202D-50	3.0	14.0	3.0	50.0		✓
SA-43ML	GT1202DL	3.0	14.0	3.0	63.0		✓
SB-43ML3	GT1202D-75	3.0	14.0	3.0	75.0		✓
SB-11M	GT1202D-6	3.0	12.0	6.0	50.0		✓
SB-12M	GT1202DL-6	3.0	16.0	6.0	50.0		✓
-	GT1302D	4.0	13.0	4.0	50.0		✓
-	GT1302DL	4.0	13.0	4.0	63.0		✓
SB-13M	GT1302D-6	4.0	16.0	6.0	50.0		✓
SB-14M	GT1352D-6	5.0	16.0	6.0	50.0		✓
SB-1M	GT1402D	6.0	16.0	6.0	50.0		✓
SB-1ML3	GT1402DL	6.0	19.0	6.0	75.0		✓
SB-1ML	GT1402D-1	6.0	25.0	6.0	50.0		✓
SB-51M	GT1232D	6.3	4.7	3.0	43.0	✓	
SB-51M	GT1242D	6.3	12.7	3.0	45.0	✓	
SB-2M	GT1502D	8.0	19.0	6.0	64.0	✓	
SB-3M	GT1602D	9.6	19.0	6.0	64.0	✓	
SB-3ML	GT1602D-1	9.6	25.0	6.0	70.0	✓	
SB-3MZ	GT1602D DIN	10.0	20.0	6.0	60.0	✓	
SB-4M	GT1652D	11.0	25.0	6.0	70.0	✓	
SB-5MZ	GT1702D-1 DIN	12.0	25.0	6.0	65.0	✓	
SB-4M	GT1702D	12.7	19.0	6.0	64.0	✓	
SB-5M	GT1702D-1	12.7	25.0	6.0	70.0	✓	
SB-6M	GT1802D-6	16.0	25.0	6.0	70.0	✓	
SB-6M8	GT1802D	16.0	25.0	8.0	70.0	✓	
*SB-7M	GT1902D-6	19.0	25.0	6.0	70.0	✓	
*SB-9M	GT1952D-6	25.0	25.0	6.0	70.0	✓	

\*8 mm shanks optional

The revolutionary cylinder-radius burr see pages 879/880



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SHAPE C, WRC, SC

Ball nosed cylinder

Cutting data | Movie

767

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-41M	GT3100D	2.5	11.0	3.0	38.0		✓
SC-42M	GT3200D	3.0	14.0	3.0	38.0		✓
SC-42ML2	GT3200DL	3.0	14.0	3.0	50.0		✓
SC-42ML3	GT3200DXL	3.0	14.0	3.0	75.0		✓
SC-11M	GT3200DL-6	3.0	12.0	6.0	50.0		✓
SC-12M	GT3200DXL-6	3.0	16.0	6.0	50.0		✓
SC-52M	GT3300D	4.0	12.7	3.0	38.0		✓
SC-13M	GT3300D-6	4.0	16.0	6.0	50.0		✓
SC-53M	GT3350D	5.0	12.7	3.0	38.0		✓
SC-14M	GT3350D-6	5.0	16.0	6.0	50.0		✓
SC-1M	GT3400D	6.0	16.0	6.0	50.0		✓
SC-1ML	GT3400D-1	6.0	25.0	6.0	50.0		✓
SC-1ML6	GT3400DXL	6.0	12.7	6.0	162.0		✓
SC-51M	GT3240D	6.3	12.7	3.0	50.0	✓	
SC-2M	GT3500D	8.0	19.0	6.0	64.0	✓	
SC-3M	GT3600D	9.6	19.0	6.0	64.0	✓	
SC-3ML	GT3600D-1	9.6	25.0	6.0	70.0	✓	
SC-3ML6	GT3600DXL	9.6	19.0	6.0	169.0	✓	
SC-3MZ	GT3600D DIN	10.0	20.0	6.0	60.0	✓	
SC-4M	GT3650D	11.0	25.0	6.0	70.0	✓	
SC-5MZ	GT3700D	12.0	25.0	6.0	65.0	✓	
SC-5M	GT3700D-1	12.7	25.0	6.0	70.0	✓	
SC-5ML6	GT3700D-1XL	12.7	25.0	6.0	175.0	✓	
SC-5M8	GT3700D-1-8	12.7	25.0	8.0	70.0	✓	
SC-6M	GT3800D-6	16.0	25.0	6.0	70.0	✓	
SC-6M8	GT3800D	16.0	25.0	8.0	70.0	✓	
*SC-7M	GT3900D-6	19.0	25.0	6.0	70.0	✓	
*SC-9M	GT3950D-6	25.0	25.0	6.0	70.0	✓	

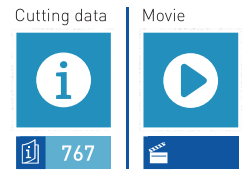
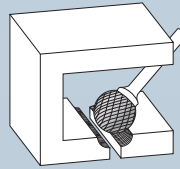
\*8 mm shanks optional



SHAPE

D, KUD,  
SD

Ball



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-41M	GT7100D	2.5	2.3	3.0	38.0		✓
SD-42M	GT7200D	3.0	2.8	3.0	38.0		✓
SD-42ML2	GT7200D-50	3.0	2.8	3.0	50.0		✓
SD-42ML3	GT7200D-75	3.0	2.8	3.0	75.0		✓
SD-11M	GT7200D-6	3.0	2.8	6.0	50.0		✓
SD-52M	GT7300D	4.0	3.4	3.0	38.0		✓
SD-53M	GT7350D	5.0	4.7	3.0	38.0		✓
SD-14M	GT7350D-6	5.0	4.0	6.0	50.0		✓
SD-1M	GT7400D	6.0	5.0	6.0	50.0		✓
SD-1ML6	GT7400DXL	6.0	5.0	6.0	155.0		✓
SD-51M	GT7240D	6.3	5.0	3.0	44.0	✓	
SD-2M	GT7500D	8.0	6.4	6.0	50.0	✓	
SD-3M	GT7600D	9.6	8.0	6.0	52.0	✓	
SD-3ML6	GT7600DXL	9.6	8.0	6.0	158.0	✓	
SD-3MZ	GT7600D DIN	10.0	9.0	6.0	49.0	✓	
SD-4M	GT7650D	11.0	9.5	6.0	54.0	✓	
SD-5MZ	GT7700D-DIN	12.0	10.8	6.0	51.0	✓	
SD-5M	GT7700D	12.7	11.0	6.0	55.0	✓	
SD-5ML6	GT7700DXL	12.7	11.0	6.0	161.0	✓	
SD-5M8	GT7700D-8	12.7	11.0	8.0	56.0	✓	
SD-6M	GT7800D	16.0	14.0	6.0	58.0	✓	
SD-6M8	GT7800D-8	16.0	14.0	8.0	58.0	✓	
SD-7M	GT7900D-6	19.0	16.0	6.0	62.0	✓	
SD-7M8	GT7900D	19.0	16.0	8.0	62.0	✓	
*SD-9M	GT7950D-6	25.0	21.0	6.0	72.0	✓	

\*8 mm shanks optional

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SHAPE E, TRE, SE

Oval

Cutting data | Movie

767

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-41M	GT5220D	3.0	5.5	3.0	38.0		✓
SE-41ML2	GT5220D-50	3.0	5.5	3.0	50.0		✓
SE-41ML3	GT5220D-75	3.0	5.5	3.0	75.0		✓
SE-53M	GT5350D	5.0	7.1	3.0	38.0		✓
SE-1M	GT5260D	6.0	9.5	6.0	50.0		✓
SE-1ML6	GT5260DXL	6.0	9.5	6.0	160.0		✓
SE-51M	GT5240D	6.3	9.5	3.0	47.0	✓	
SE-2M	GT5300D	8.0	15.0	6.0	60.0	✓	
SE-3M	GT5500D	9.6	16.0	6.0	60.0	✓	
SE-3ML6	GT5500DXL	9.6	16.0	6.0	166.0	✓	
SE-5M	GT5700D	12.7	22.0	6.0	66.0	✓	
SE-5ML6	GT5700DXL	12.7	22.0	6.0	172.0	✓	
SE-5M8	GT5700D-8	12.7	22.0	8.0	67.0	✓	
SE-6M	GT5800D	16.0	25.0	6.0	70.0	✓	
SE-6M8	GT5800D-8	16.0	25.0	8.0	70.0	✓	
*SE-7M	GT5900D-6	19.0	25.0	6.0	70.0	✓	

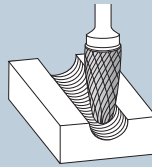
\*8 mm shanks optional



SHAPE

F, RBF,  
SF

Ball nosed tree



Cutting data

Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-41M	GT9220D	3.0	6.0	3.0	38.0		✓
SF-42M	GT9200D	3.0	12.7	3.0	38.0		✓
SF-11M	GT9200D-6	3.0	12.7	6.0	50.0		✓
SF-42ML2	GT9200D-50	3.0	12.7	3.0	50.0		✓
SF-42ML3	GT9200D-75	3.0	12.7	3.0	75.0		✓
SF-53M	GT9350D	5.0	12.7	3.0	38.0		✓
SF-1M	GT9400D	6.0	16.0	6.0	50.0		✓
SF-1ML6	GT9400DXL	6.0	12.7	6.0	163.0		✓
SF-51M	GT9240D	6.3	12.7	3.0	56.0	✓	
SF-3M	GT9600D	9.6	19.0	6.0	64.0	✓	
SF-3ML6	GT9600DXL	9.6	19.0	6.0	172.0	✓	
SF-4M	GT9650D	11.0	25.0	6.0	70.0	✓	
SF-5MZ	GT9700D DIN	12.0	25.0	6.0	65.0	✓	
SF-13M	GT9730D	12.7	19.0	6.0	64.0	✓	
SF-5M	GT9700D	12.7	25.0	6.0	70.0	✓	
SF-5ML6	GT9700DXL	12.7	25.0	6.0	175.0	✓	
SF-6M	GT9800D-6	16.0	25.0	6.0	70.0	✓	
SF-6M8	GT9800D	16.0	25.0	8.0	70.0	✓	
*SF-7M	GT9900D-6	19.0	25.0	6.0	70.0	✓	
*SF-14M	GT9900DL-6	19.0	32.0	6.0	76.0	✓	
*SF-15M	GT9930D-6	19.0	38.0	6.0	82.0	✓	

\*8 mm shanks optional

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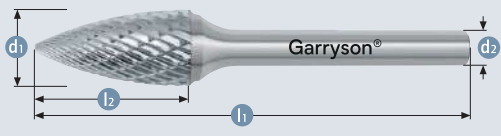
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SHAPE **G, SPG, SG**

Pointed tree

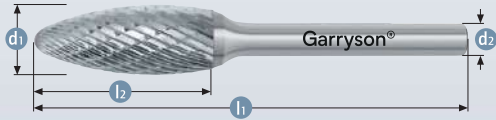
Cutting data | Movie

**i** 767

**▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-41M	GT6220D	3.0	6.0	3.0	38.0		✓
SG-43M	GT6230D	3.0	9.5	3.0	38.0		✓
SG-44M	GT6200D	3.0	12.7	3.0	38.0		✓
SG-44ML2	GT6200D-50	3.0	12.7	3.0	50.0		✓
SG-44ML3	GT6200D-75	3.0	12.7	3.0	75.0		✓
SG-53M	GT6350D	5.0	12.7	3.0	38.0		✓
SG-1M	GT6400D	6.0	16.0	6.0	50.0		✓
SG-1ML6	GT6400DXL	6.0	12.7	6.0	163.0		✓
SG-51M	GT6240D	6.3	12.7	3.0	50.0	✓	
SG-2M	GT6450D	8.0	19.0	6.0	64.0	✓	
SG-3M	GT6500D	9.6	19.0	6.0	64.0	✓	
SG-3ML6	GT6500D-XL	9.6	19.0	6.0	169.0	✓	
SG-3MZ	GT6500D DIN	10.0	20.0	6.0	60.0	✓	
SG-5MZ	GT6800D DIN	12.0	25.0	6.0	65.0	✓	
SG-13M	GT6700D	12.7	19.0	6.0	64.0	✓	
SG-5M	GT6800D	12.7	25.0	6.0	70.0	✓	
SG-5M8	GT6800D-8	12.7	30.0	8.0	70.0	✓	
SG-5ML6	GT6800DXL	12.7	25.0	6.0	175.0	✓	
SG-6M	GT6900D-6	16.0	25.0	6.0	70.0	✓	
SG-6M8	GT6900D	16.0	25.0	8.0	70.0	✓	
*SG-7M	GT6910D-6	19.0	25.0	6.0	70.0	✓	
*SG-15M	GT6950D-6	19.0	38.0	6.0	82.0	✓	

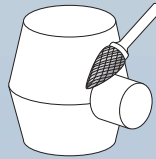
\*8 mm shanks optional



SHAPE

H, SH

Flame



Cutting data	Movie
767	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-41M	GT5200D	3.0	6.3	3.0	38.0		✓
SH-41ML2	GT5200D-50	3.0	6.3	3.0	50.0		✓
SH-41ML3	GT5200D-75	3.0	6.3	3.0	75.0		✓
SH-53M	GT5340D	5.0	9.5	3.0	38.0		✓
SH-1M	GT5400D	6.0	14.0	6.0	50.0		✓
SH-2M	GT5550D	8.0	19.0	6.0	64.0	✓	
SH-2ML6	GT5550DXL	8.0	19.0	6.0	169.0	✓	
SH-5M8	GT5600D-8	12.0	32.0	8.0	77.0	✓	
SH-5M	GT5600D	12.7	32.0	6.0	76.0	✓	
SH-5ML6	GT5600DXL	12.7	32.0	6.0	182.0	✓	
SH-6M	GT5850D-6	16.0	36.0	6.0	80.0	✓	
SH-6M8	GT5850D	16.0	36.0	8.0	80.0	✓	
*SH-7M	GT5950D-6	19.0	41.0	6.0	85.0	✓	

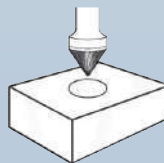
\*8 mm shanks optional



SHAPE

J, KSJ, SJ

Countersink 60°



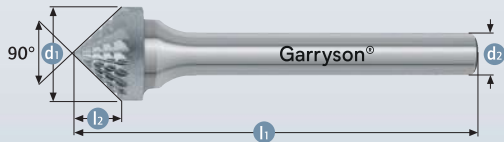
Cutting data	Movie
767	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SJ-42M	GT2910D	3.0	2.5	3.0	38.0		✓
SJ-1M	GT2920D	6.0	4.0	6.0	50.0		✓
SJ-3M	GT2940D	10.0	8.0	6.0	55.0	✓	
SJ-5M	GT2900D	12.7	11.0	6.0	58.0	✓	
*SJ-6M	GT2960D	16.0	14.5	6.0	61.0	✓	
*SJ-7M	GT2980D	19.0	17.5	6.0	65.0	✓	
*SJ-9M	GT2990D	25.0	24.5	6.0	68.0	✓	

\*8 mm shanks optional

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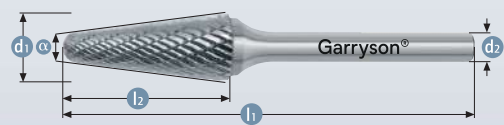
SHAPE **K, KSK, SK**

Countersink 90°

Cutting data [i](#) [767](#) | Movie [▶](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SK-42M	GT2810D	3.0	1.5	3.0	38.0		✓
SK-1M	GT2820D	6.0	3.0	6.0	50.0		✓
SK-3M	GT2000D	10.0	4.7	6.0	52.0	✓	
SK-5M	GT2840D	12.7	6.3	6.0	54.0	✓	
*SK-6M	GT2800D	16.0	8.0	6.0	57.0	✓	
*SK-7M	GT2850D	19.0	9.5	6.0	58.0	✓	
*SK-9M	GT2880D	25.0	12.7	6.0	60.0	✓	

\*8 mm shanks optional



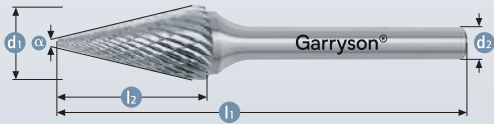
SHAPE **L, KEL, SL**

Ball nosed cone

Cutting data [i](#) [767](#) | Movie [▶](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	α°
SL-41M	GT4210D	3.0	9.5	3.0	38.0		✓	8°
-	GT4200D	3.0	8.0	3.0	38.0		✓	14°
SL-42M	GT4220D	3.0	12.7	3.0	38.0		✓	8°
SL-42ML2	GT4220D-50	3.0	12.7	3.0	50.0		✓	8°
SL-42ML3	GT4220D-75	3.0	12.7	3.0	75.0		✓	8°
SL-53M	GT4350D	5.0	12.7	3.0	38.0		✓	14°
SL-1M	GT4400D	6.0	16.0	6.0	50.0		✓	14°
SL-1ML6	GT4400DXL	6.0	16.0	6.0	171.0		✓	14°
SL-51M	GT4240D	6.3	13.0	3.0	45.0	✓		14°
SL-2M	GT4500D	8.0	22.0	6.0	70.0	✓		14°
SL-3M	GT4600D-1	9.6	30.0	6.0	74.0	✓		14°
SL-3ML6	GT4600D-1XL	9.6	30.0	6.0	182.0	✓		14°
SL-3MZ	GT4600D	10.0	20.0	6.0	65.0	✓		14°
SL-4M	GT4700D	12.7	32.0	6.0	76.0	✓		14°
SL-4M8	GT4700D-8	12.7	32.0	8.0	77.0	✓		14°
SL-4ML6	GT4700DXL	12.7	32.0	6.0	183.0	✓		14°
SL-5M	GT4800D-6	16.0	30.0	6.0	77.0	✓		14°
SL-5M8	GT4800D	16.0	33.0	8.0	78.0	✓		14°
*SL-7M	GT4900D-6	19.5	38.0	6.0	85.0	✓		14°

\*8 mm shanks optional



SHAPE **M, SKM, SM**

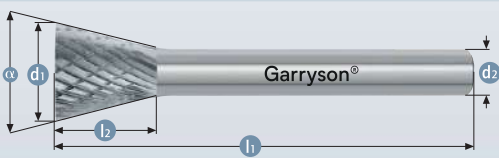
Cone

Cutting data | Movie

**i** 767

**▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	α°
SM-41M	GT2210D	3.0	8.0	3.0	38.0		✓	12°
SM-42M	GT2200D	3.0	11.0	3.0	38.0		✓	12°
SM-42ML2	GT2200D-50	3.0	11.0	3.0	50.0		✓	14°
SM-42ML3	GT2200D-75	3.0	11.0	3.0	75.0		✓	14°
SM-43M	GT2220D	3.0	16.0	3.0	38.0		✓	7°
SM-53M	GT2350D	5.0	12.7	3.0	38.0		✓	16°
SM-1M	GT2300D	6.0	12.7	6.0	50.0		✓	22°
SM-2M	GT2400D	6.0	19.0	6.0	50.0		✓	14°
SM-3M	GT2400D-1	6.0	25.0	6.0	50.0		✓	10°
SM-51M	GT2240D	6.3	12.7	3.0	53.0	✓		22°
SM-4M	GT2600D	9.6	16.0	6.0	64.0	✓		28°
SM-13M	GT2700D	12.7	19.0	6.0	65.0	✓		35°
SM-5M	GT2700D-1	12.7	22.0	6.0	70.0			28°
SM-5M8	GT2700D-1-8	12.7	22.0	8.0	70.0	✓		28°
SM-6M	GT2750D-1-6	16.0	25.0	6.0	73.0	✓		31°
SM-6M8	GT2750D-1	16.0	25.0	8.0	73.0	✓		31°



SHAPE **N, WKN**

Inverted cone

Cutting data | Movie

**i** 767

**▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	α°
SN-41M	GT8100D	2.5	3.0	3.0	38.0		✓	10°
SN-42M	GT8200D	3.0	4.0	3.0	38.0		✓	10°
SN-53M	GT8350D	5.0	6.3	3.0	38.0		✓	10°
SN-1M	GT8400D	6.0	8.0	6.0	50.0		✓	10°
SN-51M	GT8340D	6.3	6.0	3.0	44.0	✓		10°
SN-2M	GT8450D	9.6	9.5	6.0	53.0	✓		13°
SN-4M	GT8500D	12.7	12.7	6.0	57.0	✓		28°
SN-4M8	GT8500D-8	12.7	12.7	8.0	58.0	✓		28°
SN-6M	GT8800D-6	16.0	19.0	6.0	63.0	✓		18°
SN-6M8	GT8800D	16.0	19.0	8.0	63.0	✓		18°
*SN-7M	GT8900D-6	19.0	16.0	6.0	60.0	✓		30°

\*8 mm shanks optional

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### SINGLE CUT

### The most widely used single cut style

#### APPLICATION

✓	✓	✓	✓	✓	✓	✓	✓		

✓ OPTIMAL  
 ✓ GOOD

- High cutting action with good surface finish
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC
  - Stainless steel (INOX)
  - Nickel based and titanium alloy
- Also copper, brass, bronze

#### Stock items + catalogue pages

ZYA	ZYB	WRC	KUD	TRE	RBF	SPG	-	KSJ	KSK	KEL	SKM	WKN
A	B	C	D	E	F	G	H	J	K	L	M	N
780	781	782	783	784	784	785	785	786	786	787	787	788
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Countersink 60°	Countersink 90°	Ball nosed cone	Cone	Inverted cone



### Also available with BLUE-TEC coating



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.



Material groups			Application	Cutting speed m/min
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm <sup>2</sup> (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining with high stock removal	450-600
	Hardened, heat-treated steels exceeding 1200 N/mm <sup>2</sup> (> 38 HRC)	Tool steels, tempering steels, alloyed steel, cast steels		250-350
Stainless steel (INOX)	Rust- and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse machining with high stock removal	250-350
Non-ferrous metals	Hard-non-ferrous metals	Bronze, titanium/titanium alloys, hard alu-alloys (high Si content)	Coarse machining with high stock removal	250-350
	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)		300-450
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL, with nodular graphite cast iron EN-GJS, white annealed cast iron EN-GJMW, black cast iron EN-GJMB	Coarse machining with high stock removal	450-600



Cutting speed (m/min)							
	250	300	350	400	450	500	600
∅ (mm)	Rotational speed (rpm)						
2	40,000	48,000	56,000	64,000	72,000	80,000	95,000
3	27,000	32,000	37,000	42,000	48,000	53,000	64,000
4	20,000	24,000	28,000	32,000	36,000	40,000	48,000
6	13,000	16,000	19,000	21,000	24,000	27,000	32,000
8	10,000	12,000	14,000	16,000	18,000	20,000	24,000
10	8,000	10,000	11,000	13,000	14,000	16,000	19,000
12	7,000	8,000	9,000	11,000	12,000	13,000	16,000
16	5,000	6,000	7,000	8,000	9,000	10,000	12,000
20	4,000	5,000	6,000	6,000	7,000	8,000	10,000
25	3,000	4,000	4,000	5,000	6,000	6,000	8,000

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SHAPE A, ZYA, SA

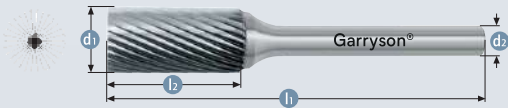
Cylinder without end cut

Cutting data | Movie

[i](#) [779](#) [Movie](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-41M	GT1050	1.5	6.0	3.0	38.0		✓
SA-41ML2	GT1050-50	1.5	6.0	3.0	50.0		✓
SA-41ML3	GT1050-75	1.5	6.0	3.0	75.0		✓
SA-63M	GT1100	2.4	13.0	2.4	38.0		✓
SA-42M	GT1150	2.5	11.0	3.0	38.0		✓
SA-42ML2	GT1150-50	2.5	11.0	3.0	50.0		✓
SA-42ML3	GT1150-75	2.5	11.0	3.0	75.0		✓
SA-43M	GT1200	3.0	14.0	3.0	38.0		✓
SA-43ML2	GT1200-50	3.0	14.0	3.0	50.0		✓
SA-43ML3	GT1200-75	3.0	14.0	3.0	75.0		✓
SA-11M	GT1200-6	3.0	12.0	6.0	50.0		✓
SA-12M	GT1200L-6	3.0	16.0	6.0	50.0		✓
SA-52M	GT1310	4.0	12.7	3.0	38.0		✓
SA-12M	GT1300	4.0	13.0	4.0	50.0		✓
SA-13M	GT1300-6	4.0	16.0	6.0	50.0		✓
SA-53M	GT1350	5.0	12.7	3.0	38.0		✓
SA-14M	GT1350-6	5.0	16.0	6.0	50.0		✓
SA-1M	GT1400	6.0	16.0	6.0	50.0		✓
SA-1ML3	GT1400L	6.0	19.0	6.0	75.0		✓
SA-1ML	GT1400-1	6.0	25.0	6.0	50.0		✓
SA-1ML6	GT1400XL	6.0	12.7	6.0	162.0		✓
SA-51M	GT1240	6.3	12.7	3.0	50.0	✓	
SA-2M	GT1500	8.0	19.0	6.0	64.0	✓	
SA-3M	GT1600	9.6	19.0	6.0	64.0	✓	
SA-3ML	GT1600-1	9.6	25.0	6.0	70.0	✓	
SA-3ML6	GT1600XL	9.6	19.0	6.0	169.0	✓	
SA-3MZ	GT1600 DIN	10.0	20.0	6.0	60.0	✓	
SA-4M	GT1650	11.0	25.0	6.0	70.0	✓	
SA-5MZ	GT1700-1 DIN	12.0	25.0	6.0	65.0	✓	
SA-4M	GT1700	12.7	19.0	6.0	64.0	✓	
SA-5M	GT1700-1	12.7	25.0	6.0	70.0	✓	
SA-5M8	GT1700-1-8	12.7	25.0	8.0	70.0	✓	
SA-5ML6	GT1700-1XL	12.7	25.0	6.0	175.0	✓	
SA-6M	GT1800-6	16.0	25.0	6.0	70.0	✓	
SA-6M8	GT1800	16.0	25.0	8.0	70.0	✓	
*SA-7M	GT1900-6	19.0	25.0	6.0	70.0	✓	
*SA-9M	GT1950-6	25.0	25.0	6.0	70.0	✓	

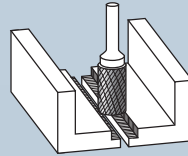
\*8 mm shanks optional



SHAPE

B, ZYB,  
SB

Cylinder with end cut



Cutting data



Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-41M	GT1052	1.5	6.0	3.0	38.0		✓
SB-41ML2	GT1052-50	1.5	6.0	3.0	50.0		✓
SB-41ML3	GT1052-75	1.5	6.0	3.0	75.0		✓
SB-63M	GT1102	2.4	13.0	2.4	38.0		✓
SB-42M	GT1152	2.5	11.0	3.0	38.0		✓
SB-42ML2	GT1152-50	2.5	11.0	3.0	50.0		✓
SB-42ML3	GT1152-75	2.5	11.0	3.0	75.0		✓
SB-43M	GT1202	3.0	14.0	3.0	38.0		✓
SB-43ML2	GT1202-50	3.0	14.0	3.0	50.0		✓
SB-43ML3	GT1202-75	3.0	14.0	3.0	75.0		✓
SB-11M	GT1202-6	3.0	12.0	6.0	50.0		✓
SB-12M	GT1202L-6	3.0	16.0	6.0	50.0		✓
SB-11M	GT1302	4.0	13.0	4.0	50.0		✓
SB-13M	GT1302-6	4.0	16.0	6.0	50.0		✓
SB-14M	GT1352-6	5.0	16.0	6.0	50.0		✓
SB-1M	GT1402	6.0	16.0	6.0	50.0		✓
SB-1ML3	GT1402L	6.0	19.0	6.0	75.0		✓
SB-1ML	GT1402-1	6.0	25.0	6.0	50.0		✓
-	GT1232	6.3	4.7	3.0	43.0	✓	
SB-51M	GT1242	6.3	12.7	3.0	45.0	✓	
SB-2M	GT1502	8.0	19.0	6.0	64.0	✓	
SB-3M	GT1602	9.6	19.0	6.0	64.0	✓	
SB-3ML	GT1602-1	9.6	25.0	6.0	70.0	✓	
SB-3MZ	GT1602 DIN	10.0	20.0	6.0	60.0	✓	
SB-4M	GT1652	11.0	25.0	6.0	70.0	✓	
SB-5MZ	GT1702-1 DIN	12.0	25.0	6.0	65.0	✓	
SB-4M	GT1702	12.7	19.0	6.0	64.0	✓	
SB-5M	GT1702-1	12.7	25.0	6.0	70.0	✓	
SB-5M8	GT1702-1-8	12.7	25.0	8.0	70.0	✓	
SB-6M	GT1802-6	16.0	25.0	6.0	70.0	✓	
SB-6M8	GT1802	16.0	25.0	8.0	70.0	✓	
*SB-7M	GT1902-6	19.0	25.0	6.0	70.0	✓	
*SB-9M	GT1952-6	25.0	25.0	6.0	70.0	✓	

\*8 mm shanks optional

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SHAPE C, WRC, SC

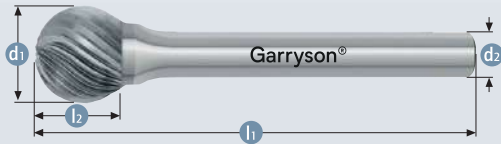
Ball nosed cylinder

Cutting data | Movie

779

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-41M	GT3100	2.5	11.0	3.0	38.0		✓
SC-42M	GT3200	3.0	14.0	3.0	38.0		✓
SC-42ML2	GT3200-50	3.0	14.0	3.0	50.0		✓
SC-42ML3	GT3200-75	3.0	14.0	3.0	75.0		✓
SC-11M	GT3200L-6	3.0	12.0	6.0	50.0		✓
SC-12M	GT3200XL-6	3.0	16.0	6.0	50.0		✓
SC-52M	GT3300	4.0	12.7	3.0	38.0		✓
SC-13M	GT3300-6	4.0	16.0	6.0	50.0		✓
SC-53M	GT3350	5.0	12.7	3.0	38.0		✓
SC-14M	GT3350-6	5.0	16.0	6.0	50.0		✓
SC-1M	GT3400	6.0	16.0	6.0	50.0		✓
SC-1ML	GT3400-1	6.0	25.0	6.0	50.0	✓	
SC-1ML6	GT3400XL	6.0	12.7	6.0	162.0		✓
SC-51M	GT3240	6.3	12.7	3.0	50.0	✓	
SC-2M	GT3500	8.0	19.0	6.0	64.0	✓	
SC-3M	GT3600	9.6	19.0	6.0	64.0	✓	
SC-3ML	GT3600-1	9.6	25.0	6.0	70.0	✓	
SC-3ML6	GT3600XL	9.6	19.0	6.0	169.0	✓	
SC-3MZ	GT3600 DIN	10.0	20.0	6.0	60.0	✓	
SC-4M	GT3650	11.0	25.0	6.0	70.0	✓	
SC-5MZ	GT3700-1 DIN	12.0	25.0	6.0	65.0	✓	
SC-5M	GT3700	12.7	19.0	6.0	64.0	✓	
SC-5M	GT3700-1	12.7	25.0	6.0	70.0	✓	
SC-5M8	GT3700-1-8	12.7	25.0	8.0	70.0	✓	
SC-5ML6	GT3700-1XL	12.7	25.0	6.0	175.0	✓	
SC-6M	GT3800-6	16.0	25.0	6.0	70.0	✓	
SC-6M8	GT3800	16.0	25.0	8.0	70.0	✓	
*SC-7M	GT3900-6	19.0	25.0	6.0	70.0	✓	
*SC-9M	GT3950-6	25.0	25.0	6.0	70.0	✓	

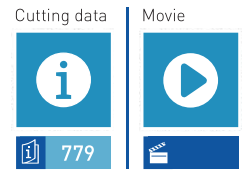
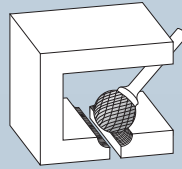
\*8 mm shanks optional



SHAPE

D, KUD,  
SD

Ball



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-41M	GT7100	2.5	2.3	3.0	38.0		✓
SD-42M	GT7200	3.0	2.8	3.0	38.0		✓
SD-42ML2	GT7200-50	3.0	2.8	3.0	50.0		✓
SD-42ML3	GT7200-75	3.0	2.8	3.0	75.0		✓
SD-11M	GT7200-6	3.0	2.8	6.0	50.0		✓
SD-52M	GT7300	4.0	3.4	3.0	38.0		✓
SD-53M	GT7350	5.0	4.7	3.0	38.0		✓
SD-14M	GT7350-6	5.0	4.0	6.0	50.0		✓
SD-1M	GT7400	6.0	5.0	6.0	50.0		✓
SD-1ML6	GT7400XL	6.0	5.0	6.0	155.0	✓	
SD-51M	GT7240	6.3	5.0	3.0	44.0	✓	
SD-2M	GT7500	8.0	6.4	6.0	50.0	✓	
SD-3M	GT7600	9.6	8.0	6.0	52.0	✓	
SD-3ML6	GT7600XL	9.6	8.0	6.0	158.0	✓	
SD-3MZ	GT7600 DIN	10.0	9.0	6.0	49.0	✓	
SD-4M	GT7650	11.0	9.5	6.0	54.0	✓	
SD-5MZ	GT7700 DIN	12.0	10.8	6.0	51.0	✓	
SD-5M	GT7700	12.7	11.0	6.0	55.0	✓	
SD-5M8	GT7700-8	12.7	11.0	8.0	55.0	✓	
SD-5ML6	GT7700XL	12.7	11.0	6.0	161.0	✓	
SD-6M	GT7800	16.0	14.0	6.0	58.0	✓	
SD-6M8	GT7800-8	16.0	14.0	8.0	58.0	✓	
SD-7M	GT7900-6	19.0	16.0	6.0	62.0	✓	
SD-7M8	GT7900	19.0	16.5	8.0	62.0	✓	
*SD-9M	GT7950-6	25.0	21.0	6.0	72.0	✓	

\*8 mm shanks optional

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SHAPE **E, TRE, SE**

Oval

Cutting data **779** | Movie

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-41M	GT5220	3.0	5.5	3.0	38.0		✓
SE-41ML2	GT5220-50	3.0	5.5	3.0	50.0		✓
SE-41ML3	GT5220-75	3.0	5.5	3.0	75.0		✓
SE-53M	GT5350	5.0	7.1	3.0	38.0		✓
SE-1M	GT5260	6.0	9.5	6.0	50.0		✓
SE-1ML6	GT5260XL	6.0	9.5	6.0	160.0	✓	
SE-51M	GT5240	6.3	9.5	3.0	47.0	✓	
SE-2M	GT5300	8.0	15.0	6.0	60.0	✓	
SE-3M	GT5500	9.6	16.0	6.0	60.0	✓	
SE-3ML6	GT5500XL	9.6	16.0	6.0	166.0	✓	
SE-5M	GT5700	12.7	22.0	6.0	67.0	✓	
SE-5M8	GT5700-8	12.7	22.0	8.0	67.0	✓	
SE-5ML6	GT5700XL	12.7	22.0	6.0	172.0	✓	
SE-6M	GT5800	16.0	25.0	6.0	70.0	✓	
SE-6M8	GT5800-8	16.0	25.0	8.0	70.0	✓	
*SE-7M	GT5900-6	19.0	25.0	6.0	70.0	✓	

\*8 mm shanks optional



SHAPE **F, RBF, SF**

Ball nosed tree

Cutting data **779** | Movie

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-41M	GT9220	3.0	6.0	3.0	38.0		✓
SF-42M	GT9200	3.0	12.7	3.0	38.0		✓
SF-11M	GT9200-6	3.0	12.7	6.0	50.0		✓
SF-42ML2	GT9200-50	3.0	12.7	3.0	50.0		✓
SF-42ML3	GT9200-75	3.0	12.7	3.0	75.0		✓
SF-53M	GT9350	5.0	12.7	3.0	38.0		✓
SF-1M	GT9400	6.0	16.0	6.0	50.0		✓
SF-1ML6	GT9400XL	6.0	12.7	6.0	163.0	✓	
SF-51M	GT9240	6.3	12.7	3.0	56.0	✓	
SF-3M	GT9600	9.6	19.0	6.0	64.0	✓	
SF-3ML6	GT9600XL	9.6	19.0	6.0	169.0	✓	
SF-4M	GT9650	11.0	25.0	6.0	70.0	✓	
SF-5MZ	GT9700 DIN	12.0	25.0	6.0	65.0	✓	
SF-13M	GT9730	12.7	19.0	6.0	64.0	✓	
SF-5M	GT9700	12.7	25.0	6.0	70.0	✓	
SF-5M8	GT9700-8	12.7	25.0	8.0	70.0	✓	
SF-5ML6	GT9700XL	12.7	25.0	6.0	175.0	✓	
SF-6M	GT9800-6	16.0	25.0	6.0	70.0	✓	
SF-6M8	GT9800	16.0	25.0	8.0	70.0	✓	
*SF-7M	GT9900-6	19.0	25.0	6.0	70.0	✓	
*SF-14M	GT9900L-6	19.0	32.0	6.0	76.0	✓	
*SF-15M	GT9930-6	19.0	38.0	6.0	82.0	✓	

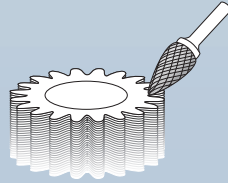
\*8 mm shanks optional



SHAPE

G, SPG, SG

Pointed tree

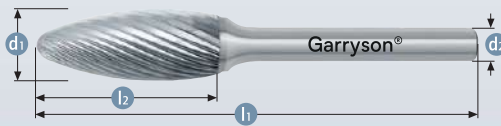


Cutting data [i](#) 779

Movie [▶](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-41M	GT6220	3.0	6.0	3.0	38.0		✓
SG-43M	GT6230	3.0	9.5	3.0	38.0		✓
SG-44M	GT6200	3.0	12.7	3.0	38.0		✓
SG-44ML2	GT6200-50	3.0	12.7	3.0	50.0		✓
SG-44ML3	GT6200-75	3.0	12.7	3.0	75.0		✓
SG-53M	GT6350	5.0	12.7	3.0	38.0	✓	
SG-1M	GT6400	6.0	16.0	6.0	50.0	✓	✓
SG-1ML6	GT6400XL	6.0	12.7	6.0	163.0	✓	
SG-51M	GT6240	6.3	12.7	3.0	50.0	✓	
SG-2M	GT6450	8.0	19.0	6.0	64.0	✓	
SG-3M	GT6500	9.6	19.0	6.0	64.0	✓	
SG-3ML6	GT6500XL	9.6	19.0	6.0	169.0	✓	
SG-3MZ	GT6500 DIN	10.0	20.0	6.0	60.0	✓	
SG-5MZ	GT6800 DIN	12.0	25.0	6.0	65.0	✓	
SG-13M	GT6700	12.7	19.0	6.0	64.0	✓	
SG-5M	GT6800	12.7	25.0	6.0	70.0	✓	
SG-5ML6	GT6800XL	12.7	25.0	6.0	175.0	✓	
SG-5M8	GT6800-8	12.7	25.0	8.0	70.0	✓	
SG-6M	GT6900-6	16.0	25.0	6.0	70.0	✓	
SG-6M8	GT6900	16.0	25.0	8.0	70.0	✓	
*SG-7M	GT6910-6	19.0	25.0	6.0	70.0	✓	
*SG-15M	GT6950-6	19.0	38.0	6.0	82.0	✓	

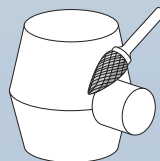
\*8 mm shanks optional



SHAPE

H, SH

Flame



Cutting data [i](#) 779

Movie [▶](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-41M	GT5200	3.0	6.3	3.0	38.0		✓
SH-41ML2	GT5200-50	3.0	6.3	3.0	50.0		✓
SH-41ML3	GT5200-75	3.0	6.3	3.0	75.0		✓
SH-53M	GT5340	5.0	9.5	3.0	38.0		✓
SH-1M	GT5400	6.0	14.0	6.0	50.0		✓
SH-2M	GT5550	8.0	19.0	6.0	64.0	✓	
SH-2ML6	GT5550XL	8.0	19.0	6.0	169.0	✓	
SH-5M	GT5600	12.7	32.0	6.0	76.0	✓	
SH-5ML6	GT5600XL	12.7	32.0	6.0	182.0	✓	
SH-5M8	GT5600-8	12.7	32.0	8.0	77.0	✓	
*SH-6M	GT5850-6	16.0	36.0	6.0	80.0	✓	
*SH-7M	GT5950-6	19.0	41.0	6.0	85.0	✓	

\*8 mm shanks optional

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SHAPE **J, KSJ, SJ**

Countersink 60°

Cutting data | Movie

[i](#) [779](#) [Movie](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SJ-42M	GT2910	3.0	2.5	3.0	38.0		✓
SJ-1M	GT2920	6.0	4.0	6.0	50.0		✓
SJ-3M	GT2940	10.0	8.0	6.0	55.0	✓	
SJ-5M	GT2900	12.7	11.0	6.0	58.0	✓	
*SJ-6M	GT2960	16.0	14.5	6.0	63.0	✓	
*SJ-7M	GT2980	19.0	17.5	6.0	65.0	✓	
*SJ-9M	GT2990	25.0	24.5	6.0	70.0	✓	

\*8 mm shanks optional



SHAPE **K, KSK, SK**

Countersink 90°

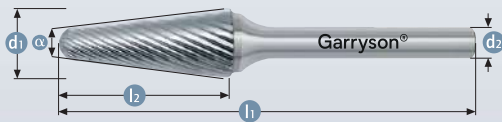
Cutting data | Movie

[i](#) [779](#) [Movie](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SK-42M	GT2810	3.0	1.5	3.0	38.0		✓
SK-1M	GT2820	6.0	3.0	6.0	50.0		✓
SK-3M	GT2000	10.0	4.7	6.0	52.0	✓	
SK-5M	GT2840	12.7	6.3	6.0	54.0	✓	
*SK-6M	GT2800	16.0	8.0	6.0	57.0	✓	
*SK-7M	GT2850	19.0	9.5	6.0	58.0	✓	
*SK-9M	GT2880	25.0	12.7	6.0	60.0	✓	

\*8 mm shanks optional

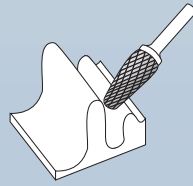




SHAPE

L, KEL,  
SL

Ball nosed cone



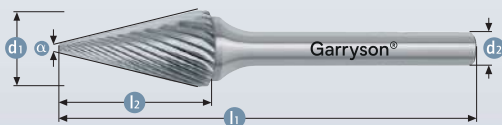
Cutting data

Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid	$\alpha^\circ$
-	GT4200	3.0	8.0	3.0	38.0		✓	14°
SL-41M	GT4210	3.0	9.5	3.0	38.0		✓	8°
SL-42M	GT4220	3.0	12.7	3.0	38.0		✓	8°
SL-42ML2	GT4220-50	3.0	12.7	3.0	50.0		✓	8°
SL-42ML3	GT4220-75	3.0	12.7	3.0	75.0		✓	8°
SL-53M	GT4350	5.0	12.7	3.0	38.0		✓	14°
SL-1M	GT4400	6.0	16.0	6.0	50.0		✓	14°
SL-1ML6	GT4400XL	6.0	16.0	6.0	171.0	✓		14°
SL-51M	GT4240	6.3	13.0	3.0	45.0	✓		22°
SL-2M	GT4500	8.0	22.0	6.0	69.0	✓		14°
SL-3M	GT4600-1	9.6	27.0	6.0	74.0	✓		14°
SL-3ML6	GT4600-1XL	9.6	27.0	6.0	182.0	✓		14°
SL-2M	GT4600	10.0	20.0	6.0	65.0	✓		14°
SL-4M	GT4700	12.7	28.0	6.0	76.0	✓		14°
SL-4ML6	GT4700XL	12.7	28.0	6.0	183.0	✓		14°
SL-4M8	GT4700-8	12.7	32.0	8.0	77.0	✓		14°
SL-5M	GT4800-6	16.0	30.0	6.0	77.0	✓		14°
SL-5M8	GT4800	16.0	32.0	8.0	78.0	✓		14°
*SL-7M	GT4900-6	19.0	38.0	6.0	85.0	✓		14°

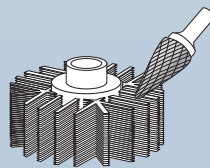
\*8 mm shanks optional



SHAPE

M, SKM,  
SM

Cone



Cutting data

Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid	$\alpha^\circ$
SM-41M	GT2210	3.0	8.9	3.0	38.0		✓	12°
SM-42M	GT2200	3.0	11.0	3.0	38.0		✓	14°
SM-42ML2	GT2200-50	3.0	11.0	3.0	50.0		✓	14°
SM-42ML3	GT2200-75	3.0	11.0	3.0	75.0		✓	14°
SM-43M	GT2220	3.0	16.0	3.0	38.0		✓	7°
SM-53M	GT2350	5.0	12.7	3.0	38.0		✓	16°
SM-1M	GT2300	6.0	12.7	6.0	50.0		✓	22°
SM-2M	GT2400	6.0	19.0	6.0	50.0		✓	14°
SM-3M	GT2400-1	6.0	25.0	6.0	50.0		✓	10°
SM-51M	GT2240	6.3	12.7	3.0	53.0	✓		22°
SM-4M	GT2600	9.6	16.0	6.0	64.0	✓		28°
SM-13M	GT2700	12.7	19.0	6.0	65.0	✓		35°
SM-5M	GT2700-1	12.7	22.0	6.0	71.0	✓		28°
SM-5M8	GT2700-1-8	12.7	22.0	8.0	71.0	✓		28°
*SM-6M	GT2750-1-6	16.0	25.0	6.0	73.0	✓		31°

\*8 mm shanks optional

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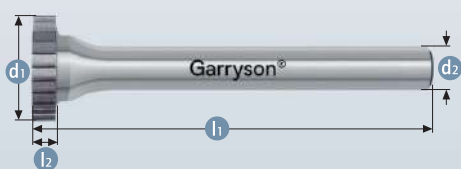
SHAPE **N, WKN**

Inverted cone

Cutting data **779** | Movie

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	α°
SN-41M	GT8150	2.5	3.0	3.0	38.0		✓	10°
SN-42M	GT8250	3.0	4.0	3.0	38.0		✓	10°
SN-42M	GT8200	3.0	7.0	3.0	38.0		✓	10°
SN-53M	GT8350	5.0	6.3	3.0	38.0		✓	10°
SN-1M	GT8400	6.0	8.0	6.0	50.0		✓	10°
SN-51M	GT8430	6.3	6.0	3.0	44.0	✓		10°
SN-2M	GT8450	9.6	9.5	6.0	53.0	✓		13°
SN-4M	GT8500	12.7	12.7	6.0	57.0	✓		28°
SN-4M8	GT8500-8	12.7	12.7	8.0	58.0	✓		28°
*SN-6M	GT8800-6	16.0	19.0	6.0	63.0	✓		18°
*SN-7M	GT8900-6	19.0	16.0	6.0	60.0	✓		30°

\*8 mm shanks optional



SHAPE **RIM**

RIM

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
Rim-Rectangle	GT8240	10.0	1.6	3.0	34.0	✓	
Rim-Rectangle	GT8700	12.0	2.6	6.0	48.0	✓	
Rim-Radius	GT9100	25.0	6.3	8.0	51.0	✓	
Rim-90 Deg.	GT8100	25.0	5.2	8.0	50.0	✓	

# MATERIAL SPECIFIC

- D-MAX CUT
- NON-FERROUS CUT
- STEEL CUT
- INOX CUT
- ALLOY SPECIFIC CUT
- BASE METAL CUT



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## D-MAX CUT



794-800

Extremely aggressive cross cut style

### APPLICATION

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP
✓		✓	✓	✓		✓	✓		

- Fast metal removal
- Developed for use in tough grinding conditions, such as shipyards and foundries
- For all ferrous metals, such as:
  - Cast iron
  - Steel < 60 HRC
- Also for copper, brass, bronze

Stock items

- ✓ OPTIMAL
- ✓ GOOD

## NON-FERROUS CUT



802-807

Designed for non-ferrous materials such as aluminium, copper, brass. Also for all kinds of plastics

### APPLICATION

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP
				✓			✓	✓	✓

- Wide flute design to prevent loading and material buildup
- Aluminium alloy
- Light metals
- Soft copper and copper alloys (non-ferrous metals)
- Plastics
- Fibre-reinforced plastic (GRP/CRP)

Stock items

- ✓ OPTIMAL
- ✓ GOOD

## STEEL CUT



808-814

Engineered for steel and cast steel. Extremely high machining output

### APPLICATION

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP
✓	✓		✓						

- Up to 60% higher machining output as compared to conventional cross cut
- High aggressiveness produces large chips with outstanding chip removal
- No annealing colours at the workpiece due to low heat development

Stock items

- ✓ OPTIMAL
- ✓ GOOD








## D-MAX CUT

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KEL L
								
796	796	797	797	798	798	799	799	800
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone










## NON-FERROUS CUT

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	KEL L
						
804	804	805	805	806	806	807
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Ball nosed cone

## STEEL CUT

Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	SPG G	- H	KEL L
								
810	810	811	811	812	812	813	813	814
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone

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**1**
**INOX CUT**

Designed for stainless steel

**Stock items**
**2**

**APPLICATION**

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP

 ✓ OPTIMAL  
 ✓ GOOD

- Extremely high machining output and service life for all austenitic, rust- and acid-resilient steels
- Titanium alloy (reduce speed to avoid sparking)
- High-quality surface
- No annealing colours at the workpiece due to low heat development

816-821

**3**
**4**
**ALLOY SPECIFIC CUT**

Designed specifically to meet the most demanding metal finishing needs of high tech industries

**Stock items**
**5**

**APPLICATION**

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP

 ✓ OPTIMAL  
 ✓ GOOD

The geometry has been specifically designed for use on Ni-Alloys & Ti-Alloys  
 Our new alloy specific bur geometry offers:

- Advanced cutting geometry, allowing for
  - Increased stock removal
  - Improved surface finish
  - Increased tool life
  - Controlled cutting action

- High performance grinding - ensuring production savings and reduced downtime
- CNC Machined - high consistent quality
- Combined with the ATA Pencil Grinders, the AS range allows for:
  - A smoother grinding operation
  - Increased productivity

822-827

**6**
**7**
**BASE METAL CUT**

Engineered for use on low carbon steels, copper and brass materials

**Stock items**
**8**

**APPLICATION**

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP

 ✓ OPTIMAL  
 ✓ GOOD

- High cutting action through cross cutting style
  - Smooth operation
  - Short chips
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC
  - Low carbon steels
  - Titanium alloys
- Also copper, brass, bronze





828-833

**9**
**10**
**11**

Index










## INOX CUT

Stock items + catalogue pages

ZYA <b>A</b>	WRC <b>C</b>	KUD <b>D</b>	TRE <b>E</b>	RBF <b>F</b>	SPG <b>G</b>	- <b>H</b>	KEL <b>L</b>
							
818	818	819	819	820	820	821	821
Cylinder	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone

## ALLOY SPECIFIC CUT

Stock items + catalogue pages

ZYA <b>A</b>	WRC <b>C</b>	KUD <b>D</b>	TRE <b>E</b>	RBF <b>F</b>	SPG <b>G</b>	- <b>H</b>	KEL <b>L</b>	SKM <b>M</b>
								
824	824	824	825	825	825	826	826	826
Cylinder	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone

## BASE METAL CUT

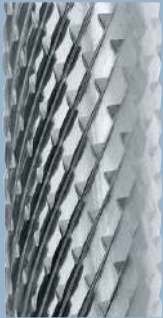
Stock items + catalogue pages

ZYA <b>A</b>	ZYB <b>B</b>	WRC <b>C</b>	KUD <b>D</b>	TRE <b>E</b>	RBF <b>F</b>	SPG <b>G</b>	- <b>H</b>	KEL <b>L</b>	SKM <b>M</b>
									
830	830	830	831	831	831	832	832	832	833
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone

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## D-MAX CUT

### Extremely aggressive cross cut style



#### APPLICATION

✓		✓	✓	✓		✓	✓		

✓ OPTIMAL  
✓ GOOD

- Fast metal removal
- Developed for use in tough grinding conditions, such as shipyards and foundries
- For all ferrous metals, such as:
  - Cast iron
  - Steel < 60 HRC
- Also for copper, brass, bronze

#### Stock items + catalogue pages

ZYA	ZYB	WRC	KUD	TRE	RBF	SPG	-	KEL
A	B	C	D	E	F	G	H	L
796	796	797	797	798	798	799	799	800
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone



Also available with **BLUE-TEC coating**



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.

Material groups			Application	Cutting speed m/min
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm <sup>2</sup> (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining = high stock removal with impact load	250 - 600
	Hardened, heat treated steels exceeding 1200 N/mm <sup>2</sup> (> 38 HRC)	tool steels, tempering steels, alloyed steels, cast steels		250 - 350
Non-ferrous metals	High-temperature resistant materials	Nickel based alloys cobalt based alloys (aircraft engine and turbine construction)	Coarse machining = high stock removal with impact load	250 - 450
Cast iron	Grey cast iron, white cast iron	Cast-iron with flake graphite EN-GJL (GG), with nodular graphite cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)	Coarse machining = high stock removal with impact load	250 - 600



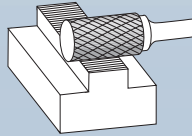
Cutting speed (m/min)				
	250	500	600	900
∅ (mm)	Rotational speed (rpm)			
6	13,000	27,000	32,000	48,000
8	10,000	20,000	24,000	36,000
10	8,000	16,000	19,000	29,000
12	7,000	13,000	16,000	24,000
16	5,000	10,000	12,000	18,000



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**Index**

**SHAPE**
**A, ZYA,  
SA**

Cylinder without end cut



Cutting data

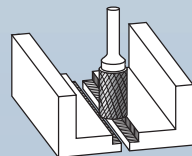
Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-3M DDC	GTDX160	9.6	19.0	6.0	64.0	✓	
SA-5M DDC	GTDX170-1	12.7	25.0	6.0	70.0	✓	


**SHAPE**
**B, ZYB,  
SB**

Cylinder with end cut



Cutting data

Movie



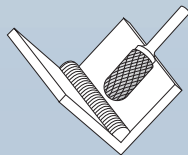
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-3M DDC	GTDX162	9.6	19.0	6.0	64.0	✓	
SB-5M DDC	GTDX172-1	12.7	25.0	6.0	70.0	✓	





SHAPE C, WRC, SC

Ball nosed cylinder



Cutting data | Movie

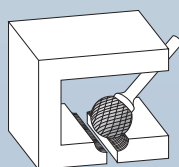
**i** 795 **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-2M DCC	GTDX350	8.0	19.0	6.0	64.0	✓	
SC-3M DCC	GTDX360	9.6	19.0	6.0	64.0	✓	
-	GTDX370	12.7	19.0	6.0	65.0	✓	
SC-5M DDC	GTDX370-1	12.7	25.0	6.0	70.0	✓	
SC-5M8 DDC	GTDX370-1-8	12.7	25.0	8.0	70.0	✓	
SC-6M DCC	GTDX380-6	16.0	25.0	6.0	70.0	✓	
SC-6M8 DDC	GTDX380	16.0	25.0	8.0	70.0	✓	



SHAPE D, KUD, SD

Ball



Cutting data | Movie

**i** 795 **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-3M DDC	GTDX760	9.6	8.0	6.0	54.0	✓	
SD-5M DCC	GTDX770	12.7	11.0	6.0	56.0	✓	

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SHAPE **E, TRE, SE**

Oval

Cutting data | Movie

**i** **▶**

795

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-3M DDC	GTDX550	9.6	16.0	6.0	60.0	✓	
SE-5M DCC	GTDX570	12.7	22.0	6.0	67.0	✓	



SHAPE **F, RBF, SF**

Ball nosed tree

Cutting data | Movie

**i** **▶**

795

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-3M DCC	GTDX960	9.6	19.0	6.0	64.0	✓	
SF-5M DCC	GTDX970	12.7	25.0	6.0	70.0	✓	
SF-5M8 DDC	GTDX970-8	12.7	25.0	8.0	70.0	✓	
SF-6M DCC	GTDX980-6	16.0	25.0	6.0	70.0	✓	
SF-6M8 DDC	GTDX980	16.0	25.0	8.0	70.0	✓	





**SHAPE** G, SPG, SG

Pointed tree

Cutting data | Movie

**i** | **▶**

795 | **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-5M DDC	GTDX680	12.7	25.0	6.0	70.0	✓	



**SHAPE** H, SH

Flame

Cutting data | Movie

**i** | **▶**

795 | **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-5M DDC	GTDX560	12.7	32.0	6.0	77.0	✓	

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SHAPE L, KEL, SL

Ball nosed cone

Cutting data | Movie

**i** **▶**

795

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	$\alpha^\circ$
SL-3M DDC	GTDX460-1	9.6	30.0	6.0	76.0	✓		14°
SL-4M DCC	GTDX470	12.7	32.0	6.0	77.0	✓		14°

Quality products for metalworking.



**HIGH PERFORMANCE**  
IN EVERY APPLICATION AREA





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POWER.  
PRECISION.  
PERFORMANCE.





## NON-FERROUS CUT

Designed for non-ferrous materials such as aluminium, copper, brass. Also for all kinds of plastics

### APPLICATION

Steel	Hardened steel	Stainless	Cast iron	Titanium	Cermet	Nickel	Copper, copper alloys	Alu	Plastics GRP/CRP
				✓			✓	✓	✓

✓ OPTIMAL  
 ✓ GOOD

- Wide flute design to prevent loading and material buildup
- Aluminium alloy
- Light metals
- Soft copper and copper alloys (non-ferrous metals)
- Plastics
- Fibre-reinforced plastic (GRP/CRP)

### Stock items + catalogue pages

ZYA A	ZYB B	WRC C	KUD D	TRE E	RBF F	KEL L
804	804	805	805	806	806	807
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Ball nosed cone



Also available with Black-Tec coating



Karnasch BLACK-TEC coating is specifically designed for non-ferrous metals. Low friction and excellent chip clearance characteristics reduce clogging of the flutes.



Material groups			Application	Cutting speed m/min
Non-ferrous metals	Soft non-ferrous metals	Alu alloys, brass copper, zinc	Coarse machining = high stock removal	600 - 1100
			Fine machining = low stock removal	900 - 1100
	Hard non-ferrous metals	Bronze, titanium, hard aluminium alloys, (high Si content)	Coarse machining = high stock removal	600 - 1100
			Fine machining = low stock removal	900 - 1100
Plastics, other materials	Fibre-reinforced plastic (GRP/CRP) thermoplastics, hard rubber		Coarse machining = high stock removal	500 - 1100
			Fine machining = low stock removal	500 - 1100



Cutting speed (m/min)				
	500	600	900	1100
∅ (mm)	Rotational speed (rpm)			
2	80,000	95,000	143,000	175,000
3	53,000	64,000	95,000	116,000
4	40,000	48,000	72,000	88,000
6	27,000	32,000	48,000	59,000
8	20,000	24,000	36,000	44,000
10	16,000	19,000	29,000	35,000
12	13,000	16,000	24,000	30,000
16	10,000	12,000	18,000	22,000
20	8,000	10,000	14,000	17,000
25	6,000	8,000	11,000	13,500



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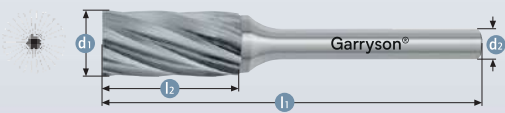
**SHAPE** A, ZYA, SA

Cylinder without end cut

Cutting data | Movie

[i](#) [803](#) [▶](#)

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-1MNF	GTTA240	6.0	19.0	6.0	50.0		✓
SA-3MNF	GTTA260	9.6	19.0	6.0	64.0	✓	
SA-5MNF	GTTA270	12.7	25.0	6.0	70.0	✓	
SA-6MNF	GTTA280-6	16.0	25.0	6.0	70.0	✓	
SA-6M8NF	GTTA280	16.0	25.0	8.0	70.0	✓	
SA-7MNF	GTTA290-6	19.0	25.0	6.0	70.0	✓	
SA-7M8NF	GTTA290	19.0	25.0	8.0	70.0	✓	



**SHAPE** B, ZYB, SB

Cylinder with end cut

Cutting data | Movie

[i](#) [803](#) [▶](#)

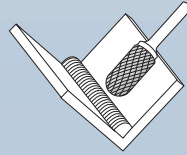
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-1MNF	GTTA140	6.0	19.0	6.0	50.0		✓
SB-3MNF	GTTA160	9.6	19.0	6.0	64.0	✓	
SB-5MNF	GTTA170	12.7	25.0	6.0	70.0	✓	
SB-6MNF	GTTA180-6	16.0	25.0	6.0	70.0	✓	
SB-6M8NF	GTTA180	16.0	25.0	8.0	70.0	✓	
SB-7MNF	GTTA190-6	19.0	25.0	6.0	70.0	✓	
SB-7M8NF	GTTA190	19.0	25.0	8.0	70.0	✓	



SHAPE

C, WRC,  
SC

Ball nosed cylinder



Cutting data	Movie
803	

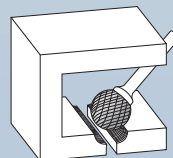
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-1MNF	GTTA340	6.0	19.0	6.0	50.0		✓
SC-3MNF	GTTA360	9.6	19.0	6.0	64.0	✓	
SC-5MNF	GTTA370	12.7	25.0	6.0	70.0	✓	
SC-5M8NF	GTTA370-8	12.7	25.0	8.0	70.0	✓	
SC-6M8NF	GTTA380	16.0	25.0	8.0	70.0	✓	
SC-7MNF	GTTA390-6	19.0	25.0	6.0	70.0	✓	
SC-7M8NF	GTTA390	19.0	25.0	8.0	70.0	✓	



SHAPE

D, KUD,  
SD

Ball



Cutting data	Movie
803	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-1MNF	GTTA740	6.0	5.0	6.0	50.0		✓
SD-3MNF	GTTA760	9.6	8.0	6.0	54.0	✓	
SD-5MNF	GTTA770	12.7	11.0	6.0	56.0	✓	
SD-5M8NF	GTTA770-8	12.7	11.0	8.0	56.0	✓	
SD-6MNF	GTTA780-6	16.0	14.0	6.0	59.0	✓	
SD-6M8NF	GTTA780	16.0	14.0	8.0	59.0	✓	
SD-7MNF	GTTA790-6	19.0	16.0	6.0	62.0	✓	
SD-7M8NF	GTTA790	19.0	16.0	8.0	62.0	✓	

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**SHAPE** E, TRE, SE

Oval

Cutting data | Movie

803

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-3MNF	GTТА550	9.6	16.0	6.0	60.0	✓	
SE-5MNF	GTТА570	12.7	22.0	6.0	66.0	✓	
*SE-6MNF	GTТА580-6	16.0	25.0	6.0	70.0	✓	
SE-7MNF	GTТА590-6	19.0	25.0	6.0	70.0	✓	
SE-7M8NF	GTТА590	19.0	25.0	8.0	70.0	✓	

\*8 mm shanks optional



**SHAPE** F, RBF, SF

Ball nosed tree

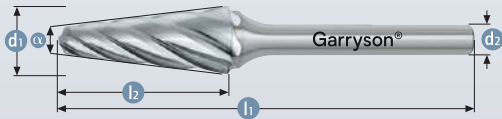
Cutting data | Movie

803

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-1MNF	GTТА940	6.0	19.0	6.0	50.0		✓
SF-3MNF	GTТА960	9.6	19.0	6.0	64.0	✓	
SF-5MNF	GTТА970	12.7	25.0	6.0	70.0	✓	
SF-6MNF	GTТА980-6	16.0	25.0	6.0	70.0	✓	
SF-6M8NF	GTТА980	16.0	25.0	8.0	70.0	✓	
*SF-14MNF	GTТА990-6	19.0	32.0	6.0	76.0	✓	
SF-14M8NF	GTТА990	19.0	32.0	8.0	76.0	✓	

\*8 mm shanks optional





SHAPE **L, KEL, SL**

Ball nosed cone

Cutting data | Movie

**i** 803

**▶**

Tool No.	Art.	d1	l2	d2	l1	α°	brazed	solid
SL-1MNF	GTTA440	6.0	18.0	6.0	50.0	14°		✓
SL-3MNF	GTTA460	9.9	27.0	6.0	76.0	14°	✓	
SL-4MNF	GTTA470	13.1	28.0	6.0	77.0	14°	✓	
SL-5MNF	GTTA480-6	16.0	30.0	6.0	78.0	14°	✓	
SL-5M8NF	GTTA480	16.0	33.0	8.0	78.0	14°	✓	
SL-7MNF	GTTA490-6	19.0	38.0	6.0	86.0	14°	✓	
SL-7M8NF	GTTA490	19.0	38.0	8.0	86.0	14°	✓	

Quality products for metalworking.



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**STEEL CUT**

Engineered for steel and cast steel.  
Extremely high machining output


**APPLICATION**

✓	✓		✓						

✓ OPTIMAL  
✓ GOOD

- Up to 60% higher machining output as compared to conventional cross cut
- High aggressiveness produces large chips with outstanding chip removal
- No annealing colours at the workpiece due to low heat development

**Stock items + catalogue pages**

ZYA	ZYB	WRC	KUD	TRE	RBF	SPG	-	KEL
A	B	C	D	E	F	G	H	L
810	810	811	811	812	812	813	813	814
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone



Also available with  
**BLUE-TEC coating**



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.

Material groups		Application	Cutting speed m/min
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm <sup>2</sup> (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	450 - 750
	Hardened, heat treated steels exceeding 1200 N/mm <sup>2</sup> (> 38 HRC)	tool steels, tempering steels, alloyed steels, cast steels	



Cutting speed (m/min)		
	450	750
∅ (mm)	Rotational speed (rpm)	
3	48,000	80,000
6	24,000	40,000
8	18,000	30,000
10	14,000	24,000
12	12,000	20,000
16	9,000	17,000



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SHAPE **A, ZYA, SA**

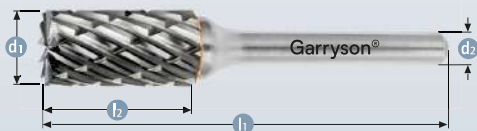
Cylinder without end cut

Cutting data | Movie

[i](#) [▶](#)

809

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-1M	GT1400-STEEL	6.0	18.0	6.0	50.0		✓
SA-2M	GT1500-STEEL	8.0	19.0	6.0	64.0	✓	
SA-3M	GT1600-STEEL	9.6	19.0	6.0	64.0	✓	
SA-5M	GT1700-1-STEEL	12.7	25.0	6.0	70.0	✓	



SHAPE **B, ZYB, SB**

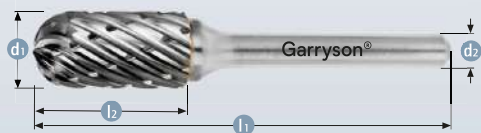
Cylinder with end cut

Cutting data | Movie

[i](#) [▶](#)

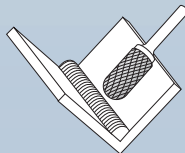
809

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-1M	GT1402-STEEL	6.0	18.0	6.0	50.0		✓
SB-2M	GT1502-STEEL	8.0	19.0	6.0	64.0	✓	
SB-3M	GT1602-STEEL	9.6	19.0	6.0	64.0	✓	
SB-5M	GT1702-1-STEEL	12.7	25.0	6.0	70.0	✓	



SHAPE C, WRC, SC

Ball nosed cylinder



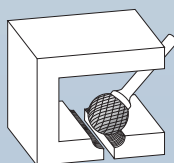
Cutting data	Movie
809	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-1M	GT3400-STEEL	6.0	18.0	6.0	50.0		✓
SC-2M	GT3500-STEEL	8.0	19.0	6.0	64.0	✓	
SC-2M	GT3600-STEEL	9.6	19.0	6.0	64.0	✓	
SC-5M	GT3700-1-STEEL	12.7	25.0	6.0	70.0	✓	



SHAPE D, KUD, SD

Ball



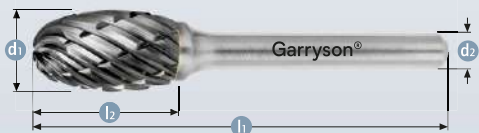
Cutting data	Movie
809	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-1M	GT7400-STEEL	6.0	4.7	6.0	50.0		✓
SD-2M	GT7500-STEEL	8.0	6.0	6.0	52.0	✓	
SD-3M	GT7600-STEEL	9.6	8.0	6.0	54.0	✓	
SD-5M	GT7700-STEEL	12.7	11.0	6.0	56.0	✓	

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SHAPE **E, TRE, SE**

Oval

Cutting data | Movie

**i** **▶**

809

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-5M	GT5700-STEEL	12.7	22.0	6.0	67.0	✓	



SHAPE **F, RBF, SF**

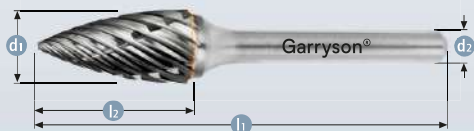
Ball nosed tree

Cutting data | Movie

**i** **▶**

809

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-1M	GT9400-STEEL	6.0	18.0	6.0	50.0		✓
SF-2M	GT9500-STEEL	8.0	20.0	6.0	65.0	✓	
SF-3M	GT9600-STEEL	9.6	19.0	6.0	64.0	✓	
SF-5M	GT9700-STEEL	12.7	25.0	6.0	70.0	✓	



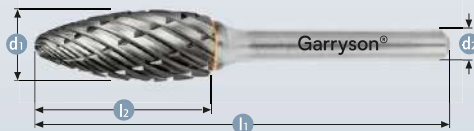
SHAPE **G, SPG, SG**

Pointed tree

Cutting data | Movie

**i** 809 **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-1M	GT6400-STEEL	6.0	18.0	6.0	50.0		✓
SG-2M	GT6450-STEEL	8.0	19.0	6.0	64.0	✓	
SG-3M	GT6500-STEEL	9.6	19.0	6.0	64.0	✓	
SG-5M	GT6800-STEEL	12.7	25.0	6.0	70.0	✓	



SHAPE **H, SH**

Flame

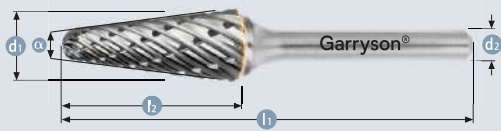
Cutting data | Movie

**i** 809 **▶**

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-2M	GT5550-STEEL	8.0	19.0	6.0	64.0	✓	
SH-5M	GT5600-STEEL	12.7	32.0	6.0	77.0	✓	

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SHAPE	L, KEL, SL
Ball nosed cone	

Cutting data	Movie
809	

Tool No.	Art.	d1	l2	d2	l1	brazed	solid	$\alpha^\circ$
-	GT4600-STEEL	10.0	20.0	6.0	65.0	✓		14°
SL-3M	GT4600-1-STEEL	9.6	30.0	6.0	76.0	✓		14°
SL-4M	GT4700-STEEL	12.7	32.0	6.0	77.0	✓		14°



Quality products for metalworking.

UP TO  
**400% INCREASE**  
IN TOOL LIFE THROUGH  
HIGH-TECH COATINGS

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[atagroup.com](http://atagroup.com)

## INOX CUT

Designed for stainless steel



### APPLICATION

		✓		✓					

✓ OPTIMAL  
✓ GOOD

- Extremely high machining output and service life for all austenitic, rust- and acid-resilient steels
- Titanium alloy (reduce speed to avoid sparking)
- High-quality surface
- No annealing colours at the workpiece due to low heat development

### Stock items + catalogue pages

ZYA	WRC	KUD	TRE	RBF	SPG	-	KEL
A	C	D	E	F	G	H	L
818	818	819	819	820	820	821	821
Cylinder	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone



Also available with **BLUE-TEC coating**



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.



Material groups			Application	Cutting speed m/min
Stainless steel INOX	Rust- and acid-resistant steels	Austenitic and ferritic stainless steels	Coarse machining = high stock removal	450 - 600
			Fine machining = low stock removal	



Cutting speed (m/min)			
		450	600
Ø (mm)	Rotational speed (rpm)		
3		48,000	64,000
6		24,000	32,000
8		18,000	24,000
10		14,000	19,000
12		12,000	16,000
16		9,000	12,000



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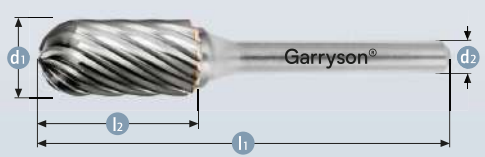


SHAPE **A, ZYA, SA**

Cylinder without end cut

Cutting data **817** | Movie

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-43M	GT1200-INOX	3.0	14.0	3.0	38.0		✓
SA-51M	GT1240-INOX	6.3	12.7	3.0	45.0	✓	
SA-1M	GT1400-INOX	6.0	18.0	6.0	50.0		✓
SA-2M	GT1500-INOX	8.0	19.0	6.0	64.0	✓	
SA-3M	GT1600-INOX	9.6	19.0	6.0	64.0	✓	
SA-5M	GT1700-1-INOX	12.7	25.0	6.0	70.0	✓	



SHAPE **C, WRC, SC**

Ball nosed cylinder

Cutting data **817** | Movie

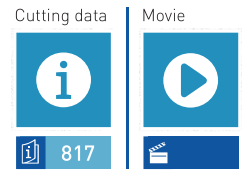
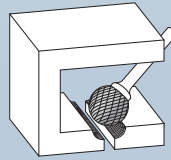
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-42M	GT3200-INOX	3.0	14.0	3.0	38.0		✓
SC-51M	GT3240-INOX	6.3	12.7	3.0	45.0	✓	
SC-1M	GT3400-INOX	6.0	18.0	6.0	50.0		✓
SC-2M	GT3500-INOX	8.0	19.0	6.0	64.0	✓	
SC-3M	GT3600-INOX	9.6	19.0	6.0	64.0	✓	
SC-5M	GT3700-1-INOX	12.7	25.0	6.0	70.0	✓	



SHAPE

D, KUD,  
SD

Ball



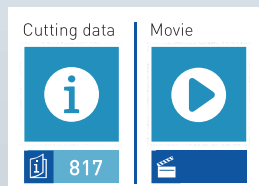
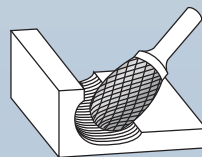
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-42M	GT7200-INOX	3.0	2.5	3.0	38.0		✓
SD-51M	GT7240-INOX	6.3	5.0	3.0	38.0	✓	
SD-1M	GT7400-INOX	6.0	4.7	6.0	50.0		✓
SD-2M	GT7500-INOX	8.0	6.0	6.0	52.0	✓	
SD-3M	GT7600-INOX	9.6	8.0	6.0	54.0	✓	
SD-5M	GT7700-INOX	12.7	11.0	6.0	56.0	✓	



SHAPE

E, TRE,  
SE

Oval



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-2M	GT5300-INOX	8.0	15.0	6.0	60.0	✓	
SE-3M	GT5500-INOX	9.6	16.0	6.0	60.0	✓	
SE-5M	GT5700-INOX	12.7	22.0	6.0	67.0	✓	

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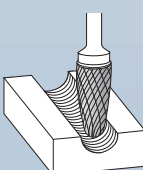


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SHAPE **F, RBF, SF**

Ball nosed tree



Cutting data **817**

Movie 

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-42M	GT9200-INOX	3.0	14.0	3.0	38.0		✓
SF-51M	GT9240-INOX	6.3	12.7	3.0	45.0	✓	
SF-1M	GT9400-INOX	6.0	18.0	6.0	50.0		✓
SF-2M	GT9500-INOX	8.0	20.0	6.0	65.0	✓	
SF-3M	GT9600-INOX	9.6	19.0	6.0	64.0	✓	
SF-5M	GT9700-INOX	12.7	25.0	6.0	70.0	✓	




SHAPE **G, SPG, SG**

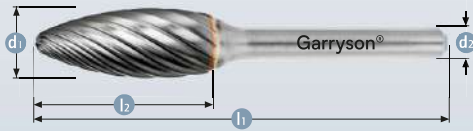
Pointed tree



Cutting data **817**

Movie 

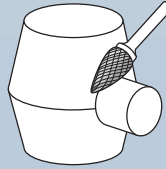
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-1M	GT6400-INOX	6.0	18.0	6.0	50.0		✓
SG-2M	GT6450-INOX	8.0	19.0	6.0	64.0	✓	
SG-3M	GT6500-INOX	9.6	19.0	6.0	64.0	✓	
SG-5M	GT6800-INOX	12.7	25.0	6.0	70.0	✓	



SHAPE

H, SH

Flame

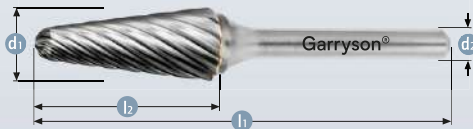


Cutting data

Movie



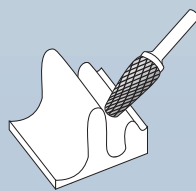
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-2M	GT5550-INOX	8.0	19.0	6.0	64.0	✓	
SH-3M	GT5555-INOX	9.6	19.0	6.0	65.0	✓	
SH-5M	GT5600-INOX	12.7	32.0	6.0	77.0	✓	



SHAPE

L, KEL,  
SL

Ball nosed cone



Cutting data

Movie



Tool No.	Art.	d1	l2	d2	l1	brazed	solid	$\alpha^\circ$
SL-2M	GT4500-INOX	8.0	25.4	6.0	70.0	✓		14°
-	GT4600-INOX	10.0	20.0	6.0	65.0	✓		14°
SL-4M	GT4700-INOX	12.7	32.0	6.0	77.0	✓		14°

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## ALLOY SPECIFIC CUT

### Designed specifically to meet the most demanding metal finishing needs of high tech industries



#### APPLICATION

				✓		✓			

✓ OPTIMAL  
 ✓ GOOD

The geometry has been specifically designed for use on Ni-Alloys & Ti-Alloys

Our new alloy specific bur geometry offers:

- Advanced cutting geometry, allowing for
  - Increased stock removal · Improved surface finish · Increased tool life · Controlled cutting action

- High performance grinding - ensuring production savings and reduced downtime
- CNC Machined - high consistent quality
- Combined with the ATA Pencil Grinders, the AS range allows for:
  - A smoother grinding operation · Increased productivity

#### Stock items + catalogue pages

ZYA	WRC	KUD	TRE	RBF	SPG	-	KEL	SKM
A	C	D	E	F	G	H	L	M
824	824	824	825	825	825	826	826	826
Cylinder	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone



### Also available with BLUE-TEC coating



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.



Material groups	Application	Cutting speed m/min
Ni-Alloys & Ti-Alloys	Increased stock removal / Improved surface finish / Increased tool life / controlled cutting action	300 - 500



Cutting speed (m/min)		
	300	500
∅ (mm)	Rotational speed (rpm)	
3	48,000	64,000
6	24,000	32,000



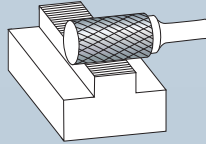
## ALLOY SPECIFIC



SHAPE

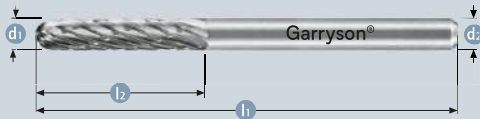
 A, ZYA,  
SA

Cylinder without end cut



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-43M	GT1200-AS	3.0	12.0	3.0	38		✓

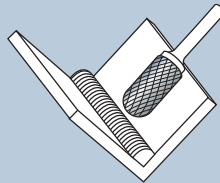
## ALLOY SPECIFIC



SHAPE

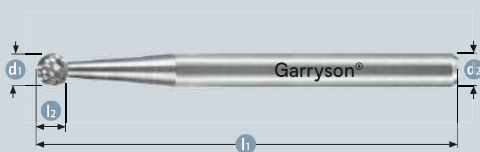
 C, WRC,  
SC

Ball nosed cylinder



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-42M	GT3200-AS	3.0	14.0	3.0	38		✓

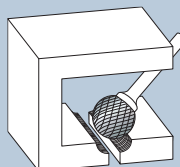
## ALLOY SPECIFIC



SHAPE

 D, KUD,  
SD

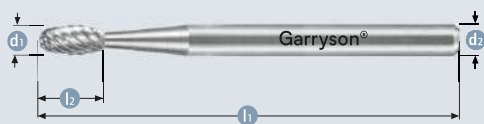
Ball



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-42M	GT7200-AS	3.0	2.5	3.0	38		✓

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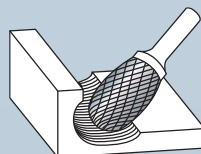
ALLOY SPECIFIC



SHAPE

E, TRE, SE

Oval



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-41M	GT5220-AS	3.0	6.0	3.0	38		✓

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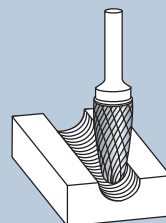
ALLOY SPECIFIC



SHAPE

F, RBF, SF

Ball nosed tree

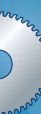


Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-42M	GT9200-AS	3.0	14.0	3.0	38		✓

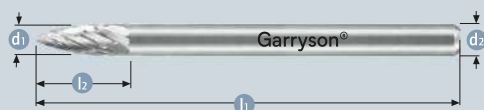
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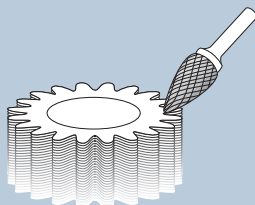
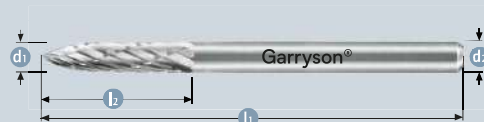
ALLOY SPECIFIC



SHAPE

G, SPG, SG

Pointed tree



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-41M	GT6220-AS	3.0	8.0	3.0	38		✓
SG-44M	GT6200-AS	3.0	14.0	3.0	38		✓

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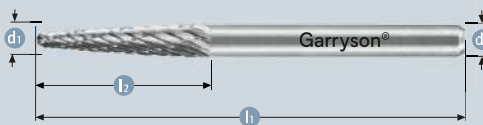


SHAPE **H, SH**

Flame

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-41M	GT5200-AS	3.0	6.0	3.0	38		✓

ALLOY SPECIFIC

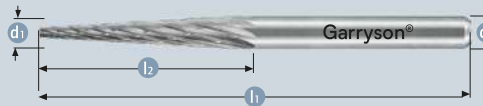


SHAPE **L, KEL, SL**

Ball nosed cone

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SL-42M	GT4220-AS	3.0	14.0	3.0	38.0		✓

ALLOY SPECIFIC



SHAPE **M, SKM, SM**

Cone

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SM-43M	GT2220-AS	3.0	15.0	3.0	38.0		✓



## Features & Benefits

**FEATURES**

Compact

Versatile assortment

**BENEFITS**

Easy to carry

Ideal for demonstrations, samplings or special promotions



Art.	Line	Description Type	Contents
GGBKIT39	Sets	10 pcs Alloy Specific Cut	GT1200-AS, GT3200-AS, GT7200-AS, GT5220-AS, GT9200-AS, GT6220-AS, GT6200-AS, GT5200-AS, GT4220-AS, GT2220-AS

## SPEED GUIDE

Bur Head Diameter.	Maximum Operating Speed	Speed Range	Suggested Air Tools
3mm (1/8")	100,000	45,000 - 100,000	SP Range

Recommended speeds are based on standard overall length of 38mm (1-1/2") maximum overhang of 10mm (3/8")

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## BASE METAL CUT

Engineered for use on low carbon steels, copper and brass materials

### APPLICATION



✓	✓		✓	✓		✓	✓		

✓ OPTIMAL  
✓ GOOD

- High cutting action through cross cutting style
  - Smooth operation
  - Short chips
- For use on all ferrous metals such as:
  - Cast iron
  - Steel < 60 HRC · Low carbon steels
  - Titanium alloys
- Also copper, brass, bronze

### Stock items + catalogue pages

ZYA	ZYB	WRC	KUD	TRE	RBF	SPG	-	KEL	SKM
A	B	C	D	E	F	G	H	L	M
830	830	830	831	831	831	832	832	832	833
Cylinder	Cylinder + end cut	Ball nosed cylinder	Ball	Oval	Ball nosed tree	Pointed tree	Flame	Ball nosed cone	Cone



Also available with **BLUE-TEC coating**



Patented BLUE-TEC coating, specifically designed for burs, gives outstanding tool life and excellent performance on all metals.

Material groups			Application	Cutting speed m/min
Steel, cast steel	Non-hardened, non-heat treated steels up to 1200 N/mm <sup>2</sup> (< 38 HRC)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining with high stock removal	450-600
	Hardened, heat-treated steels exceeding 1200 N/mm <sup>2</sup> (> 38 HRC)	Tool steels, tempering steels, alloyed steel, cast steels		250-350
Non-ferrous metals	Hard-non-ferrous metals	Bronze, titanium/titanium alloys, hard alu-alloys (high Si content)	Coarse machining with high stock removal	250-350
	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)		300-450
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL, with nodular graphite cast iron EN-GJS, white annealed cast iron EN-GJMW, black cast iron EN-GJMB	Coarse machining with high stock removal	450-600



Cutting speed (m/min)							
	250	300	350	400	450	500	600
∅ (mm)	Rotational speed (rpm)						
2	40,000	48,000	56,000	64,000	72,000	80,000	95,000
3	27,000	32,000	37,000	42,000	48,000	53,000	64,000
4	20,000	24,000	28,000	32,000	36,000	40,000	48,000
6	13,000	16,000	19,000	21,000	24,000	27,000	32,000
8	10,000	12,000	14,000	16,000	18,000	20,000	24,000
10	8,000	10,000	11,000	13,000	14,000	16,000	19,000
12	7,000	8,000	9,000	11,000	12,000	13,000	16,000
16	5,000	6,000	7,000	8,000	9,000	10,000	12,000
20	4,000	5,000	6,000	6,000	7,000	8,000	10,000
25	3,000	4,000	4,000	5,000	6,000	6,000	8,000



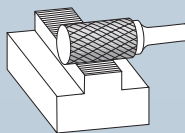
**BASE METAL RANGE**



SHAPE

A, ZYA,  
SA

Cylinder without end cut



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SA-2M	GT1500D-BM	8.0	19.0	6.0	64	✓	
SA-3M	GT1600D-BM	9.6	19.0	6.0	64	✓	
SA-5M	GT1700D-1-BM	12.7	25.0	6.0	70	✓	

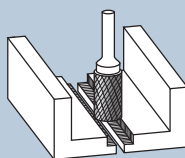
**BASE METAL RANGE**



SHAPE

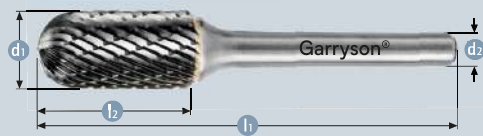
B, ZYB,  
SB

Cylinder with end cut



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SB-2M	GT1502D-BM	8.0	19.0	6.0	64	✓	
SB-3M	GT1602D-BM	9.6	19.0	6.0	64	✓	
SB-5M	GT1702D-1-BM	12.7	25.0	6.0	70	✓	

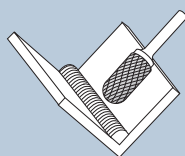
**BASE METAL RANGE**



SHAPE

C, WRC,  
SC

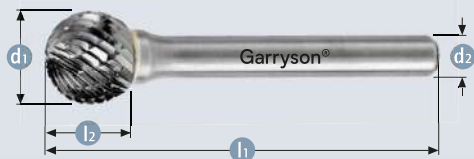
Ball nosed cylinder



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SC-2M	GT3500D-BM	8.0	19.0	6.0	64	✓	
SC-3M	GT3600D-BM	9.6	19.0	6.0	64	✓	
SC-5M	GT3700D-1-BM	12.7	25.0	6.0	70	✓	

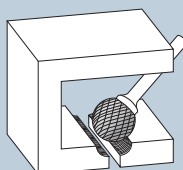


BASE METAL RANGE



SHAPE **D, KUD, SD**

Ball



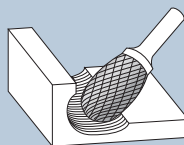
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SD-2M	GT7500D-BM	8.0	6.4	6.0	50	✓	
SD-3M	GT7600D-BM	9.6	8.0	6.0	52	✓	
SD-5M	GT7700D-BM	12.7	11.0	6.0	55	✓	

BASE METAL RANGE



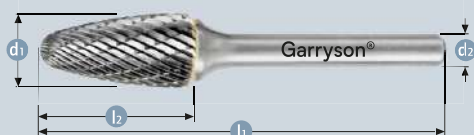
SHAPE **E, TRE, SE**

Oval



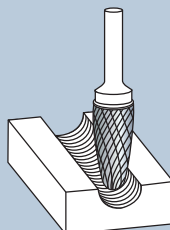
Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SE-3M	GT5300D-BM	9.6	16.0	6.0	60	✓	
SE-5M	GT5700D-BM	12.7	22.0	6.0	66	✓	

BASE METAL RANGE



SHAPE **F, RBF, SF**

Ball nosed tree



Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SF-3M	GT9600D-BM	9.6	19.0	6.0	64	✓	
SF-5M	GT9700D-BM	12.7	25.0	6.0	70	✓	

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**BASE METAL RANGE**

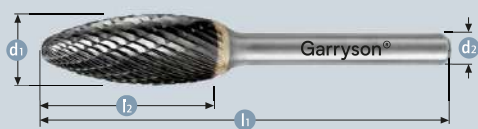


**SHAPE** G, SPG, SG

Pointed tree

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SG-2M	GT6450D-BM	8.0	19.0	6.0	64	✓	
SG-3M	GT6500D-BM	9.6	19.0	6.0	64	✓	
SG-5M	GT6800D-BM	12.7	25.0	6.0	70	✓	

**BASE METAL RANGE**

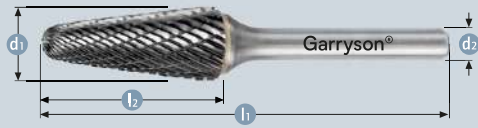


**SHAPE** H, SH

Flame

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SH-5M	GT5600D-BM	12.7	32.0	6.0	77	✓	

**BASE METAL RANGE**



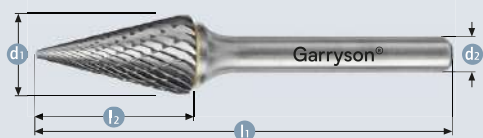
**SHAPE** L, KEL, SL

Ball nosed cone

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SL-2M	GT4500D-BM	8.0	25.4	6.0	70	✓	
SL-3M	GT4600D-1-BM	9.6	30.0	6.0	76	✓	
SL-4M	GT4700D-BM	12.7	32.0	6.0	77	✓	

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BASE METAL RANGE



SHAPE **M, SKM, SM**

Cone

Tool No.	Art.	d1	l2	d2	l1	brazed	solid
SM-4M	GT2600D-BM	9.6	16.0	6.0	64	✓	
SM-5M	GT2700D-1-BM	12.7	22.0	6.0	69	✓	

BASE METAL RANGE

### Base Metal Range Speed Guide

	Material Groups	HB*	British Standard	EN	DIN
Steel	Magnetic Soft	< 120	230M07, 050A12	EN1, EN2 Leadloy	RFe60
	Structural case carburising	< 200	230M07, 050A12	EN3A, 4,6,7,8 32 EN207,S62	st37-2, 16MnCr5, St50-2
Cast Iron	Lameller graphite	< 150	grade 150, grade 400	Grey cast iron soft	GG10, GG40
	Nodular graphite, malleable	< 200	420/12, P440/7, 700/2, 30g/72	S.G. iron Mehanite Black & White Heart	GGG40, GGG70, GTS45-06, GTW45-07
Brass, Copper, Bronze	Unalloyed	< 100	C101	Commercially Pure	E-Cu57, SE-Cu
	B - Brass, Bronze	< 200	CZ120, CZ109, PB104	2.1030, 2.1080	CuZn39Pb2, CuZn40, CuSn8, CuSn6n
	Y - Brass	< 200	CZ108, CZ106		CuZn37, CuZn28

\*HB = Hardness Brinell

Head Diameter	6mm	8mm	10mm	12mm	Suggested Air Tool Ranges
Max. RPM	65,000	60,000	55,000	35,000	S, SD, SM & SMD Die Grinder Ranges
Steel	35,000 - 45,000	30,000 - 40,000	22,500 - 35,000	20,500 - 30,000	
Cast Iron	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	
Brass, Copper, Bronze	22,500 - 45,000	20,000 - 40,000	15,000 - 35,000	11,000 - 30,000	

