

# CUTTING, GRINDING & FINISHING

## PRODUCT CATALOGUE



# Our Values

## **Professional excellence**

We strive for the highest quality in our products and our service.

## **Integrity and fairness**

We are transparent and reliable in our interactions with all our business partners.

## **Strategic partnerships**

We work diligently to make our customers, our suppliers, and our employees our "strategic partners".

## **Creative innovation**

We harness technological leadership, individual and company initiatives, and the will to change, to keep the organization moving forward.

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# Company Profile

## CGW Company Profile

For more than 50 years, CGW - Camel Grinding Wheels - Israel's only abrasives manufacturer, has been the first choice in grinding and cutting products for both local and international markets. CGW's ceramic (vitrified) bond and organic (resinoid) bond products are available in more than 40 countries throughout North and South America, Europe, Africa, Asia and Australia, in locations from small machine shops to advanced manufacturing centers. In North America, our subsidiary in Chicago, CGW-USA, maintains a large warehouse and manufacturing facility, and our converter of coated abrasives is located in Los Angeles. We take pride in developing and producing high-quality, high-performance products to meet the technological challenges of grinding conventional metals and today's sophisticated alloys.

# CGW's 5-Point Manufacturing & Operating Philosophy

## 1 Advanced in-house development and production

Our in-house R&D and engineering teams, supported by our laboratories and testing facilities, allow us to continually improve existing products and to develop high-precision solutions to meet exact customer specifications.

## 2 Efficient planning and scheduling

Our streamlined system for coordinating between the sales and production departments allows a quick turnaround - even for small or rush orders - and a fast response to unexpected schedule changes.

## 3 Ongoing, stringent quality control

Our manufacturing processes and maintenance of our production facilities comply with strict international quality, safety, and environmental standards.

## 4 On-time, error-free shipments

We work diligently to prevent delays and mistakes from the moment an order is placed until the day it is shipped.

## 5 "The best service in the world"

Our decades of industry leadership are based on a company-wide commitment to exceptional customer service. Through this unconditional dedication, we have forged long-standing partnerships with customers throughout the world.

*Our attention to detail and commitment to excellence is reflected in our products: They have earned a worldwide reputation for high quality, consistency, and cost-effectiveness.*

## An Industry Leader in Abrasive Products

CGW manufactures thousands of products for use in the aerospace, automotive, gas turbine, oil rig, construction, and other industries.

### **Our broad product range includes wheels for -**

surface grinding | centerless grinding | cylindrical grinding | off-hand grinding | creep-feed grinding | cutting off (reinforced and non-reinforced)

*We don't say we invented the wheel, we just know how to make it better!*

# Wheel Specifications



## Abrasive Types

- A** **Aluminium Oxide:** The most common of all grains, used for heavy-duty, general-purpose work
- WA** **White Aluminium Oxide:** The high friability of this grain gives it the characteristic of fast and cool cutting, used for light grinding of steels of all kinds, particularly on tool and stainless steel
- ZA** **Zirconia Aluminium Oxide:** High performance grinding and very long life. Excellent on ferrous metals, castings and stainless steel
- C** **Silicon Carbide:** For grinding masonry, concrete, stone, and non-ferrous metals

# Technical Information

## Grinding Wheel Quality

The quality of grinding wheel performance is related to the specific conditions of a given application, such as type of machine and composition of workpiece, and is evaluated according to two criteria: G-Ratio and Efficiency.

### 1) G-Ratio or Grinding Ratio

In **grinding applications** this is the ratio of the weight of material removed to the loss of grinding wheel weight over a given period of time.

This ratio is equivalent to the length of wheel life for a specific application.

In **cutting applications**, it is the ratio of the area of material cut to the area of the cut-off wheel lost. The higher the ratio, the more work the wheel will do.

	Grinding Applications	Cutting Applications
<b>G-Ratio Calculation</b>	$G = \frac{\text{material removed (gr.)}}{\text{wheel weight loss (gr.)}}$	$G = \frac{\text{section area x no. of cuts (cm}^2\text{)}}{\text{wheel area loss (cm}^2\text{)}}$

### 2) Efficiency

This indicates the rate of material removal (grams/min.) in grinding applications, or the total area of the material that has been cut in a given period of time (cm<sup>2</sup>/min.) in cutting applications.

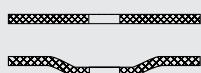
	Grinding Applications	Cutting Applications
<b>Efficiency Calculation</b>	$E = \frac{\text{material removed (gr.)}}{\text{test period (min.)}}$	$Q = \frac{\text{section area x no. of cuts (cm}^2\text{)}}{\text{test period (min.)}}$

## Razor Discs

### Cutting & Grinding Stainless Steel and Hard Steels

**Razor Cutting Discs** - High performance with especially long life and excellent surface quality.


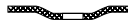
**Razor Grinding Discs** - Exceptionally well-suited for grinding stainless steel and hard steels. Highly recommended for cutting profiles and pipes up to 4" (100mm) in diameter.



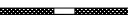
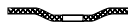
Angle  
Grinder

80 M/S

### Razor Cutting Discs

Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 1/2 x 3/64 x 7/8	115x1.0x22.23	ASL 60 TBF	946105		13,300	25	
4 1/2 x 1/16 x 7/8	115x1.6x22.23	ASL 36 TBF	939114		13,300	25	
5 x 3/64 x 7/8	125x1.0x22.23	ASL 60 PBF	946112		12,250	25	
5 x 1/16 x 7/8	125x1.6x22.23	ASL 36 PBF	939145		12,250	25	
6 x 1/16 x 7/8	150x1.6x22.23	ASL 36 PBF			10,200		

### Razor Grinding Discs

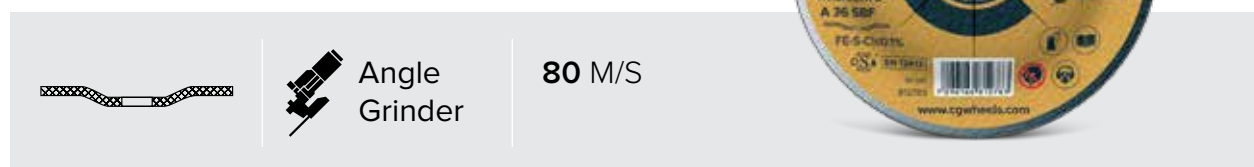
Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 1/2 x 1/8 x 7/8	115x3.2x22.23	ASL 36 PBF		890705	13,300	25	
4 1/2 x 1/4 x 7/8	115x6.5x22.3	ASL 36 PBF			13,300	25	
5 x 1/8 x 7/8	125x3.2x22.23	ASL 36 PBF		933815	12,250	25	
5 x 1/4 x 7/8	125x6.5x22.3	ASL 36 PBF			12,250	25	
6 x 1/4 x 7/8	150x6.5x22.23	ASL 36 PBF			10,200		


## 3-in-1 Discs

### Cutting, Grinding & Finishing of Stainless Steel and Hard Steels

#### Top performance in a single disc:

- Fast, high-quality cutting
- Great grinding and weld stock removal
- Excellent surface finishing
- Contaminant-free: Fe-S-CI≤0.1%, designed for use on stainless steel
- Additional fibreglass net provides extra strength and flexibility
- Ideal for a wide variety of metal and stainless steel applications: particularly recommended for cutting metal profiles and thin pipes, and removing weld slag
- Highly cost effective: eliminate frequent disc changes; stock fewer discs
- Use instead of a flap disc for an excellent finish to the workpiece surface



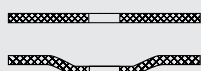
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 3/32 x 7/8	115 x 2.5 x 22.23	A 36 SBF		13,300	25	
5 x 3/32 x 7/8	125 x 2.5 x 22.23	A 36 SBF		12,250	25	
7 x 1/8 x 7/8	180 x 3.0 x 22.23	A 36 SBF		8,500	25	
9 x 1/8 x 7/8	230 x 3.0 x 22.23	A 36 SBF		6,650	25	

# Cutting Discs

## for Metal & Steel

### A - Aluminium Oxide

Cutting discs designed for sharp, clean, cutting action on carbon steels, stainless steel, and other alloys.



Angle  
Grinder


80 M/S



### Thin Discs for Metal & Steel Cutting

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4x <sup>3</sup> / <sub>64</sub> x <sup>5</sup> / <sub>8</sub>	100x1.0x16	A 46 TBF	638642	15,300	25	
4x <sup>1</sup> / <sub>16</sub> x <sup>5</sup> / <sub>8</sub>	100x1.6x16	A 36 TBF	638659	15,300	25	
4x <sup>5</sup> / <sub>64</sub> x <sup>5</sup> / <sub>8</sub>	100x2.0x16	A 36 TBF	639526	15,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	115x1.0x22.23	A 46 TBF	497751	13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	115x1.6x22.23	A 36 TBF	311842	13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>5</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	115x2.0x22.3	A 36 TBF	457854	13,300	25	
5x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	125x1.0x22.23	A 46 TBF	507139	12,250	25	
5x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	125x1.6x22.23	A 36 TBF	311873	12,250	25	
5x <sup>5</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	125x2.0x22.23	A 36 TBF	639618	12,250	25	
6x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	150x1.0x22.23	A 46 TBF	639687	10,200	25	
6x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	150x1.6x22.23	A 36 TB	640140	10,200	25	
6x <sup>5</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	150x2.0x22.23	A 36 TBF	633432	10,200	25	
7x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	180x1.6x22.23	A 36 TBF	345045	8,500	25	
7x <sup>5</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	180x2.0x22.23	A 36 TBF	640195	8,500	25	
9x <sup>5</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	230x2.0x22.23	A 36 TBF	312016	6,650	25	

## Metal & Steel Cutting

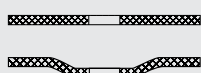
Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 <sup>3</sup> / <sub>32</sub> x <sup>5</sup> / <sub>8</sub>	100x2.5x15.88	A 30 RBF	639533		15,300	25	
4 <sup>1</sup> / <sub>8</sub> x <sup>5</sup> / <sub>8</sub>	100x3.2x15.88	A 24 RBF	313853	311651	15,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	115x2.5x22.23	A 30 RBF	640133		13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	115x3.2x22.23	A 24 RBF	313846	311675	13,300	25	
5x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	125x2.5x22.23	A 30 RBF	622313		12,250	25	
5x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	125x3.2x22.23	A 24 RBF	313839	311880	12,250	25	
6x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	150x2.5x22.23	A 30 RBF	640164		10,200	25	
6x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	150x3.2x22.23	A 24 RBF	640171	639694	10,200	25	
7x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	180x2.5x22.23	A 30 RBF	639779		8,500	25	
7x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	180x3.2x22.23	A 24 RBF	315642	311972	8,500	25	
9x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	230x2.5x22.23	A 30 RBF	640225		6,650	25	
9x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	230x3.2x22.23	A 24 RBF	313822	312023	6,650	25	

# Cutting Discs

## for Stainless Steel

### WA - White Aluminium Oxide

Designed for sharp, clean cutting action on stainless steel and other alloys.  
Contaminant-free: Fe-S-Cl≤0.1%



Angle  
Grinder

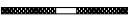

80 M/S



### Thin Discs for Stainless Steel Cutting

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4x <sup>3</sup> / <sub>64</sub> x <sup>5</sup> / <sub>8</sub>	100x1.0x16	WA 46 SBF	461493	15,300	25	
4x <sup>1</sup> / <sub>16</sub> x <sup>5</sup> / <sub>8</sub>	100x1.6x16	WA 36 SBF	312283	15,300	25	
4x <sup>5</sup> / <sub>64</sub> x <sup>5</sup> / <sub>8</sub>	100x2.0x16	WA 36 SBF	639540	15,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	115x1.0x22.23	WA 46 SBF	461479	13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	115x1.6x22.23	WA 36 SBF	312290	13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>5</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	115x2.0x22.3	WA 36 SBF	643158	13,300	25	
5x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	125x1.0x22.23	WA 46 SBF	461509	12,250	25	
5x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	125x1.6x22.23	WA 36 SBF	312320	12,250	25	
5x <sup>5</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	125x2.0x22.23	WA 36 SBF	606146	12,250	25	
6x <sup>3</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	150x1.0x22.23	WA 46 SBF	639717	10,200	25	
6x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	150x1.6x22.23	WA 36 SBF	642038	10,200	25	
6x <sup>5</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	150x2.0x22.23	WA 36 SBF	639724	10,200	25	
7x <sup>1</sup> / <sub>16</sub> x <sup>7</sup> / <sub>8</sub>	180x1.6x22.23	WA 36 SBF	345052	8,500	25	
7x <sup>5</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	180x2.0x22.23	WA 36 SBF	640201	8,500	25	
9x <sup>5</sup> / <sub>64</sub> x <sup>7</sup> / <sub>8</sub>	230x2.0x22.23	WA 36 SBF	474684	6,650	25	

## Stainless Steel Cutting

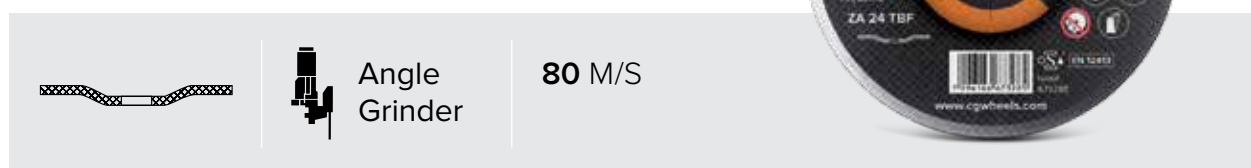
Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4x <sup>3</sup> / <sub>32</sub> x <sup>5</sup> / <sub>8</sub>	100x2.5x16	WA 30 SBF	639557		15,300	25	
4x <sup>1</sup> / <sub>8</sub> x <sup>5</sup> / <sub>8</sub>	100x3.2x16	WA 24 SBF	639564	358830	15,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	115x2.5x22.23	WA 30 SBF	639588		13,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	115x3.2x22.23	WA 24 SBF	551156	312306	13,300	25	
5x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	125x2.5x22.23	WA 30 SBF	639625		12,250	25	
5x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	125x3.2x22.23	WA 24 SBF	639632	616596	12,250	25	
6x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	150x2.5x22.23	WA 30 SBF	639731		10,200	25	
6x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	150x3.2x22.23	WA 24 SBF	640188	639748	10,200	25	
7x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	180x2.5x22.23	WA 30 SBF	639786		8,500	25	
7x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	180x3.2x22.23	WA 24 SBF	551163	312337	8,500	25	
9x <sup>3</sup> / <sub>32</sub> x <sup>7</sup> / <sub>8</sub>	230x2.5x22.23	WA 30 SBF	642915		6,650	25	
9x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	230x3.2x22.23	WA 24 SBF	534555	312375	6,650	25	


## Cutting Discs

### for Metal & Steel

#### ZA - Zirconia Aluminium Oxide

High performance, sharper, longer life, excellent for ferrous metals, castings, and stainless steel.



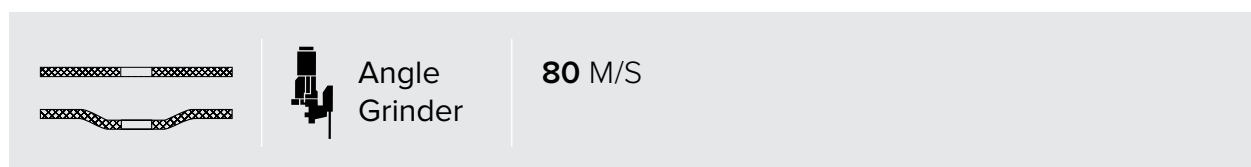
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/8 x 7/8	115x3.2x22.23	ZA 24 TBF		13,300	25	
7 x 1/8 x 7/8	180x3.2x22.23	ZA 24 TBF		8,500	25	
9 x 1/8 x 7/8	230x3.2x22.23	ZA 24 TBF		6,650	25	


## Cutting Discs

### for Aluminium

#### ALU - Specially Treated Aluminium Oxide

For cutting aluminium and non-ferrous metals, containing special bond to assure non-loading.



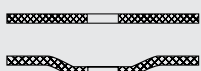
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/16 x 7/8	115x1.6x22.23	ALU 36 NBF	640102	13,300	25	
5 x 1/16 x 7/8	125x1.6x22.23	ALU 36 NBF	640324	12,250	25	

# Cutting Discs

## for Masonry


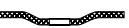
### C - Silicon Carbide

For cutting masonry, concrete, stone, ceramics, marble, and non-ferrous metals.



Angle  
Grinder

80 M/S

Dimensions		Spec.	EAN No.		R.P.M.	Quantity	
Inches	mm					Box	Master Box
4 <sup>1</sup> / <sub>8</sub> x <sup>5</sup> / <sub>8</sub>	100x3.2x16	C 24 RBF	315161	315666	15,300	50	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	115x3.2x22.23	C 24 RBF	313884	312207	13,300	50	
5 <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	125x3.2x22.23	C 24 RBF	313877	315673	12,250	50	
7 <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	180x3.2x22.23	C 24 RBF	315659	312221	8,500	25	
9 <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	230x3.2x22.23	C 24 RBF	313815	312245	6,650	25	

## Chop Saw Cutting Discs

Used on low-power, light weight Saw machines that are popular on building sites because they are portable and can take 12" / 305mm & 14" / 356 mm discs.

For general purpose metal and steel and applications – structural steel cross sections, pipes and tubing.

**SR** - Single reinforced - For cutting small cross sections and tubings. Free cutting and burr free.

**DR** - Double reinforced - For cutting larger cross sections and tubings. Straight cuts for harder-to-cut materials.



Electric  
Portable  
Chop Saw

80 M/S

### Metal & Steel Cutting | A 36 TBF - Aluminum Oxide

	Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
	Inches	mm				Box	Master Box
DR	12x7/64x1	305x2.8x25.4	A 36 TBF	639960	5,100	10	
DR	12x7/64x20	305x2.8x20	A 36 TBF		5,100	10	
SR	12x1/8x1	305x3.0x25.4	A 36 TBF		5,100	10	
DR	14x7/64x1	356x2.8x25.4	A 36 TBF	640003	4,400	10	
SR	14x1/8x1	356x3.0x25.4	A 36 TBF	675296	4,400	10	
DR	16x1/8x25.4	402x3.0x25.4	A 36 TBF		3,820	10	
SR	16x1/8x25.4	402x3.2x25.4	A 36 TBF		3,820	10	

### Stainless Steel Cutting | White Aluminium Oxide

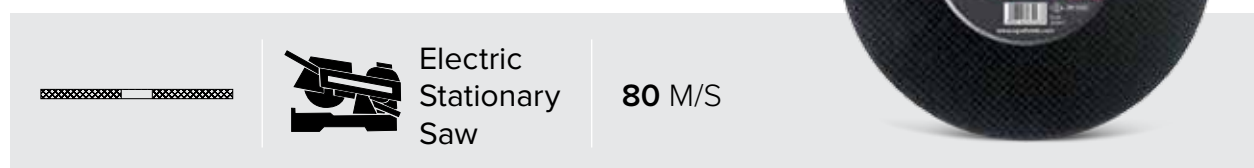
	Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
	Inches	mm				Box	Master Box
DR	12x7/64x1	305x2.8x25.4	WA 24 SBF	632930	5,100	10	
DR	14x7/64x1	356x2.8x25.4	WA 36 SBF	675784	4,400	10	
DR	14x1/8x1	356x3.0x25.4	WA 36 SBF	640072	4,400	10	

## Stationary Saw Discs

**A** - For cutting structural steel, bar stock, tubing, and ferrous metals.

**C** - For cutting masonry, concrete, stone, and non-ferrous metals.

For use on stationary machines.



### Metal & Steel Cutting | A 24 RBF - Aluminium Oxide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x <sup>1</sup> / <sub>8</sub> x1	305x3.5x25.4	A 24 RBF	312061	5,100	10	
14x <sup>1</sup> / <sub>8</sub> x1	356x3.5x25.4	A 24 RBF	312078	4,400	10	
16x <sup>5</sup> / <sub>32</sub> x1	402x4.0x25.4	A 24 RBF		3,820	10	

### Masonry, Concrete & Stone Cutting | C 24 RBF - Silicon Carbide

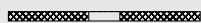
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x <sup>1</sup> / <sub>8</sub> x1	305x3.5x25.4	C 24 RBF	640249	5,100	10	
14x <sup>1</sup> / <sub>8</sub> x <sup>7</sup> / <sub>8</sub>	356x3.5x22.23	C 24 RBF	329670	4,400	10	
14x <sup>1</sup> / <sub>8</sub> x1	356x3.5x25.4	C 24 RBF	640041	4,400	10	

## High Speed Cutting Discs

For use on petrol driven, portable high-speed Gas Saw.  
These discs are designed for cutting structural steel solids, pipes, and tubing.

**A - Aluminium Oxide** for metal, steel, and all ferrous metals.

**C - Silicon Carbide** for stone, concrete, and brick.



High Speed  
Hydraulic/  
Petrol/Gas Saw

100 M/S

### Metal & Steel Cutting | A 24 RBF - Aluminium Oxide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12 <sup>5</sup> / <sub>32</sub> x20	305x4.0x20	A 24 RBF	315130	6,400	10	
12 <sup>5</sup> / <sub>32</sub> x7/8	305x4.0x22.23	A 24 RBF	315147	6,400	10	
12 <sup>5</sup> / <sub>32</sub> x1	305x4.0x25.4	A 24 RBF	639977	6,400	10	
14 <sup>5</sup> / <sub>32</sub> x20	356x4.0x20	A 24 RBF	640010	5,500	10	
14 <sup>5</sup> / <sub>32</sub> x1	356x4.0x25.4	A 24 RBF	640027	5,500	10	
16 <sup>5</sup> / <sub>32</sub> x1	402x4.5x25.4	A 24 RBF	640256	4,800	10	

### Masonry, Concrete & Stone Cutting | C 24 RBF - Silicon Carbide

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12 <sup>5</sup> / <sub>32</sub> x20	305x4.0x20	C 24 RBF	315055	6,400	10	
12 <sup>5</sup> / <sub>32</sub> x7/8	305x4.0x22.23	C 24 RBF	315079	6,400	10	
12 <sup>5</sup> / <sub>32</sub> x1	305x4.0x25.4	C 24 RBF	639984	6,400	10	
14 <sup>5</sup> / <sub>32</sub> x20	356x4.0x20	C 24 RBF	640034	5,500	10	
14 <sup>5</sup> / <sub>32</sub> x1	356x4.0x25.4	C 24 RBF	640058	5,500	10	

## Track Slicer

### Cutting Discs for Rail Tracks

The CGW Track Slicer is a fully reinforced, quality rail-cutting disc

- Designed for fast, free cutting of all types of heavy-duty rail
- Maintains straight geometry of the cut
- Square, precise and burr free cutting
- Maximum productivity with high number of cuts per disc

#### A 24 S - Aluminium Oxide



Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
12x <sup>5</sup> / <sub>32</sub> x1	305x4.0x25.4	A 24 SBF	938810	6,400	10	
12x <sup>5</sup> / <sub>32</sub> x7/8	305x4.0x22.23	A 24 SBF	947034	6,400	10	
14x <sup>5</sup> / <sub>32</sub> x1	356x4.0x25.4	A 24 SBF	587261	5,500	10	
14x <sup>5</sup> / <sub>32</sub> x7/8	356x4.0x22.23	A 24 SBF		5,500	10	
16x <sup>5</sup> / <sub>32</sub> x1	402x4.0x25.4	A 24 SBF		4,800	10	

## Resin Wheels

### for Profiling the Railhead

These wheels are used for the repair and elimination of surface deformations on the railhead, to correct defects on the rail surface, and to reprofile the railhead.

#### A 16 Q - Aluminium Oxide

50 M/S



Dimensions	Spec.	Type	EAN No.	R.P.M
mm				
150x72x57	A 16 Q4B	4xM8	711178	6,400
150x55xM20	A 16 Q4B	T-6	778638	6,400
150x65x15.88	A 16 Q4B	T-6	734634	6,400

# Grinding Discs

## for Metal & Steel

**A 24 R** - Bond design offers excellent stock removal. Recommended on structural steel and welds.

**A 24 T** - High grain concentration, for tough grinding and notching.


**A 30 R** - New combination of grain and bond makes for an easier grind, higher efficiency, and longer life.



Angle  
Grinder

80 M/S



Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4x1/4x5/8	100x6.5x16	A 24 RBF	311866	15,300	25	
4x1/4x5/8	100x6.5x16	A 30 RBF		15,300	25	
4 1/2x3/16x7/8	115x5.0x22.23	A 24 TBF		13,300	25	
4 1/2x1/4x7/8	115x6.5x22.23	A 24 RBF	311682	13,300	25	
4 1/2x1/4x7/8	115x6.5x22.23	A 30 RBF		13,300	25	
5x3/16x7/8	125x5.0x22.23	A 24 TBF		12,250	25	
5x1/4x7/8	125x6.5x22.23	A 24 RBF	311903	12,250	25	
5x1/4x7/8	125x6.5x22.23	A 30 RBF		12,250	25	
6x3/16x7/8	150x5.0x22.23	A 24 TBF		10,200	25	
6x1/4x7/8	150x6.5x22.23	A 24 RBF	639700	10,200	25	
6x1/4x7/8	150x6.5x22.23	A 30 RBF		10,200	25	
7x3/16x7/8	180x5.0x22.23	A 24 TBF		8,500	25	
7x1/4x7/8	180x6.5x22.23	A 24 RBF	311996	8,500	25	
7x1/4x7/8	180x6.5x22.23	A 30 RBF		8,500	25	
9x3/16x7/8	230x5.0x22.23	A 24 TBF		6,650	25	
9x1/4x7/8	230x6.5x22.23	A 24 RBF	312047	6,650	25	
9x1/4x7/8	230x6.5x22.23	A 30 RBF		6,650	25	

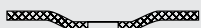
# Grinding Discs

## for Stainless Steel

### WA - White Aluminum Oxide

**WA 24 S** - bond for fast stock removal, for use on stainless steel and steel.

Contaminant-free: Fe-S-Cl≤0.1%



Angle  
Grinder

80 M/S

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 <sup>1</sup> / <sub>4</sub> x <sup>5</sup> / <sub>8</sub>	100x6.5x16	WA 24 SBF	640126	15,300	25	
4 <sup>1</sup> / <sub>2</sub> x <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	115x6.5x22.23	WA 24 SBF	312313	13,300	25	
5 <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	125x6.5x22.23	WA 24 SBF	607594	12,250	25	
6 <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	150x6.5x22.23	WA 24 SBF	639755	10,200	25	
7 <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	180x6.5x22.23	WA 24 SBF	312368	8,500	25	
9 <sup>1</sup> / <sub>4</sub> x <sup>7</sup> / <sub>8</sub>	230x6.5x22.23	WA 24 SBF	312382	6,650	25	

# Pipeline Discs

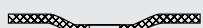
## for Metal & Steel

Depressed Center (4mm: 1/8")

For preparing welds in pipeline, grinding, and fabrication.


**A 24 T** - Aluminium Oxide, for fast light grinding.

**ZA 24 T** - Zirconia Aluminum Oxide, general purpose for light grinding and notching, improved performance and longer life.



Angle  
Grinder

80 M/S

Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 <sup>1</sup> / <sub>2</sub> x 1 <sup>7</sup> / <sub>8</sub> x 7/8	115x4.0x22.23	A 24 TBF		13,300	25	
4 <sup>1</sup> / <sub>2</sub> x 1 <sup>7</sup> / <sub>8</sub> x 7/8	115x4.0x22.23	ZA 24 TBF		13,300	25	
5 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	125x4.0x22.23	A 24 TBF		12,250	25	
5 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	125x4.0x22.23	ZA 24 TBF		12,250	25	
6 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	150x4.0x22.23	A 24 TBF		10,200	25	
6 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	150x4.0x22.23	ZA 24 TBF		10,200	25	
7 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	180x4.0x22.23	A 24 TBF		8,500	25	
7 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	180x4.0x22.23	ZA 24 TBF		8,500	25	
9 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	230x4.0x22.23	A 24 TBF		6,650	25	
9 x 1 <sup>7</sup> / <sub>8</sub> x 7/8	230x4.0x22.23	ZA 24 TBF		6,650	25	

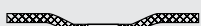
## Grinding Discs | Foundry Castings & Forgings for Metal & Steel

**ZA 30 RBF** - Zirconia Aluminium Oxide - for steel & stainless steel.

**CA 24 RBF** - Silicon Carbide - for titanium & super alloys


**A 24 RBF** - for nickel, super alloys & steel

- Rapid, aggressive grinding
- The workpiece remains free of swarf and burn marks
- Especially high work capacity
- Highly cost-effective
- Designed for work on materials and applications specific to Foundry & forging plants



Angle  
Grinder

80 M/S

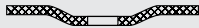
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
7 <sup>9</sup> / <sub>32</sub> x7/8	180x7.0x22.23	ZA 30 RBF		8,500	25	
7 <sup>9</sup> / <sub>32</sub> x7/8	180x7.0x22.23	CA 24 RBF		8,500	25	
7 <sup>9</sup> / <sub>32</sub> x7/8	180x7.0x22.23	A 24 RBF		8,500	25	
9 <sup>9</sup> / <sub>32</sub> x7/8	230x7.0x22.23	ZA 30 RBF		6,650	25	
9 <sup>9</sup> / <sub>32</sub> x7/8	230x7.0x22.23	CA 24 RBF		6,650	25	
9 <sup>9</sup> / <sub>32</sub> x7/8	230x7.0x22.23	A 24 RBF		6,650	25	
9 <sup>9</sup> / <sub>32</sub> x7/8	230x7.0x22.23	CA 24 RBF		6,650	25	

# Grinding Discs

## for Metal & Steel

### ZA - Zirconia Aluminum Oxide

High performance, sharper, longer life, excellent for ferrous metals, castings, and stainless steel.



Angle  
Grinder

80 M/S



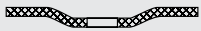
Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 3/16 x 7/8	115x5.0x22.23	ZA 24 TBF		13,300	25	
4 1/2 x 1/4 x 7/8	115x6.5x22.23	ZA 24 TBF	673278	13,300	25	
5 x 3/16 x 7/8	125x5.0x22.23	ZA 24 TBF		12,250	25	
6 x 3/16 x 7/8	150x5.0x22.23	ZA 24 TBF		10,200	25	
7 x 3/16 x 7/8	180x5.0x22.23	ZA 24 TBF		8,500	25	
7 x 1/4 x 7/8	180x6.5x22.23	ZA 24 TBF	673285	8,500	25	
9 x 3/16 x 7/8	230x5.0x22.23	ZA 24 TBF		6,650	25	
9 x 1/4 x 7/8	230x6.5x22.23	ZA 24 TBF	673261	6,650	25	

# Grinding Discs

## for Masonry

### C 24 R - Silicon Carbide


For grinding masonry, concrete, stone, marble, and non-ferrous metal.



Angle  
Grinder

80 M/S



Dimensions		Spec.	EAN No.	R.P.M.	Quantity	
Inches	mm				Box	Master Box
4 1/2 x 1/4 x 7/8	115x6.5x22.23	C 24 RBF	639601	13,300	25	
5 x 1/4 x 7/8	125x6.5x22.23	C 24 RBF	315154	12,250	25	
7 x 1/4 x 7/8	180x6.5x22.23	C 24 RBF	312238	8,500	25	
9 x 1/4 x 7/8	230x6.5x22.23	C 24 RBF	312252	6,650	25	

# Flap Discs

## ZA - Zirconia Alumina grain

For use on stainless steel, sheet metal, tool steels, heat-treated steels, and for the grinding & finishing of welds. For aggressive use on heavy duty applications.



**T-27 / Flat** - most efficient when used at an angle of 0° - 15°.

**T-29 / Conical** - for working on contoured and edge work. Best used at an angle of 15° - 25°.


**Type 27**


**Type 29**


**Angle  
Grinder**

**80 M/S**

Grain Size	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
ZA 36	239962	239979	4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	240500	240517	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	241316	241323	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	241910	241927	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 40	240012	240029	4x5 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	240630	240647	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	241378	241385	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	242016	242023	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 60	240142	240159	4x5 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	240906	240913	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	241477	241484	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	242252	242269	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 80	240241	240258	4x5 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	241095	241101	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	241569	241576	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	242412	242429	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 120	240296	240302	4x5 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	241231	241248	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	241651	241668	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	242542	242559	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		

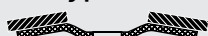
# XL Flap Discs

## ZA - Zirconia Alumina grain

50% more material than the standard discs for longer life.



Type 27



Type 29



Angle  
Grinder

80 M/S

Grain Size	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
ZA 36			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
			4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 40			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	278459	262090	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
		262175	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 60			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	278466	262052	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 80			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	278473	262144	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
		262229	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
ZA 120			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
			4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	262243		5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		

## Economy Line Flap Discs

### ZA - Zirconia Alumina grain

An economical alternative to the standard disc.





**Type 27**



**Type 29**



Angle  
Grinder

**80 M/S**

Grain Size	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
<b>ZA 36</b>	895939	894093	4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
		885930	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
		888641	5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>ZA 40</b>	887989	892884	4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	827657	892907	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	898350	886708	5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	937868	903443	7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>ZA 60</b>	929597	974894	4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	827664	886432	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
	898374	898367	5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	920471	903450	7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>ZA 80</b>	887996		4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	827671	887347	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
		901678	5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>ZA 120</b>	929603		4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	937851	974887	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
		901685	5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		

# Flap Discs

## A - Aluminium Oxide

For use on ferrous metals, alloyed and unalloyed steels, cast iron, composites, plastics, and wood.




**Type 27**


**Type 29**


**Angle Grinder**

**80 M/S**

Grain Size	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
<b>A/O 36</b>			4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
			4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
			7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>A/O 40</b>			4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	859979		4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	860029		7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>A/O 60</b>			4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	859993	941674	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	860036	941698	7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>A/O 80</b>			4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	860005	941681	4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	860043	941711	7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
<b>A/O 120</b>			4x <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
	860012		4 <sup>1</sup> / <sub>2</sub> x <sup>7</sup> / <sub>8</sub>	115x22.23	13,300		
			5x <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
	860050		7x <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		

## Ceramic Flap Discs

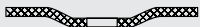
CGW'S new ceramic flap disc is your best choice for grinding stainless steel, titanium, inconel, and other hard metals. Using CGW's ceramic flap disc will give a "cool grinding surface" since the grain has a self-sharpening formula.



Grain Size	EAN No.		Dimensions		R.P.M.	Quantity	
	T-27	T-29	Inches	mm		Box	Master Box
40			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
		833047	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	15,300		
		833054	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
		833078	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
60			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
		826001	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	15,300		
		826018	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
		833085	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		
80			4 <sup>5</sup> / <sub>8</sub>	102x16	15,300	10	
		833030	4 <sup>1</sup> / <sub>2</sub> x7 <sup>7</sup> / <sub>8</sub>	115x22.23	15,300		
		833061	5x7 <sup>7</sup> / <sub>8</sub>	125x22.23	12,250		
		833092	7x7 <sup>7</sup> / <sub>8</sub>	180x22.23	8,500		

## Strip Disc

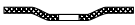
Non-woven material impregnated with abrasive grain. For cleaning welds and removing rust, paint and sealants on all ferrous & non-ferrous metals, fiberglass, stone, and wood.



Angle  
Grinder

80 M/S



Dimensions		EAN No.	R.P.M.	Quantity
Inches	mm			Package
4 1/2 x 7/8	115 x 22.23	334032	11,000	5
7 x 7/8	180 x 22.23	334049	7,000	

## Resin Fibre Discs

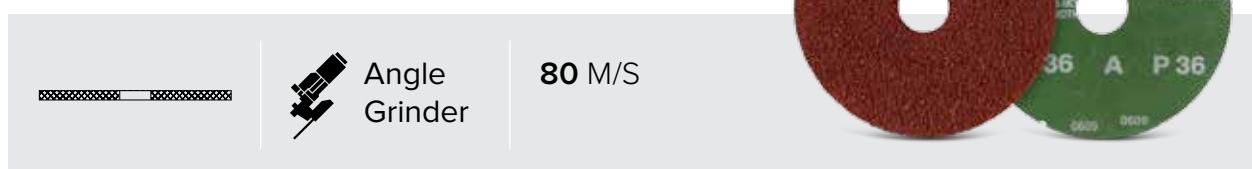
Designed for long life, high stock removal, and cool cutting action – surface sanding and polishing, rust and paint removal, deburring and weld blending.

**Only to be used with Backup Pad (See page 34).**

**Aluminium Oxide** - For metal & stainless steel.

**Silicon Carbide** - Excellent on fiberglass, plastics and masonry products.

**Zirconia Alumina** - For metal & stainless steel. Twice the cutting action of aluminium oxide discs and is extremely heat resistant. Best performing on welds, stainless steel, Inconel and all tool steels.



### Fibre Discs - Aluminium Oxide

	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
<b>A 16</b>		4 1/2 x 7/8	115 x 22.23	13,300	25	
	225507	7 x 7/8	180 x 22.23	8,500		
<b>A 24</b>	225279	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225521	7 x 7/8	180 x 22.23	8,500		
<b>A 36</b>	225286	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225545	7 x 7/8	180 x 22.23	8,500		
<b>A 50</b>	225293	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225569	7 x 7/8	180 x 22.23	8,500		
<b>A 60</b>	225309	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225583	7 x 7/8	180 x 22.23	8,500		
<b>A 80</b>	225316	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225606	7 x 7/8	180 x 22.23	8,500		
<b>A 100</b>	225323	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225620	7 x 7/8	180 x 22.23	8,500		
<b>A 120</b>	225330	4 1/2 x 7/8	115 x 22.23	13,300	25	
	225644	7 x 7/8	180 x 22.23	8,500		

## Fibre Discs - Silicon Carbide

	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
C 16	225699	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	225842	7x7/8	180x22.23	8,500		
C 24	225705	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	225873	7x7/8	180x22.23	8,500		
C 36	225712	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	225910	7x7/8	180x22.23	8,500		
C 50	225729	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	225965	7x7/8	180x22.23	8,500		
C 60	225736	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	225996	7x7/8	180x22.23	8,500		
C 80	225743	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226030	7x7/8	180x22.23	8,500		
C 100	225750	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226078	7x7/8	180x22.23	8,500		
C 120	225767	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226108	7x7/8	180x22.23	8,500		
C 150	225774	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226146	7x7/8	180x22.23	8,500		
C 180	225781	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226177	7x7/8	180x22.23	8,500		
C 220	225798	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226207	7x7/8	180x22.23	8,500		
C 240	225804	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226245	7x7/8	180x22.23	8,500		
C 280	225811	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226269	7x7/8	180x22.23	8,500		
C 320	225828	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226290	7x7/8	180x22.23	8,500		
C 400	225835	4 <sup>1</sup> / <sub>2</sub> x7/8	115x22.23	13,300	25	
	226320	7x7/8	180x22.23	8,500		

## Fibre Discs - Zirconia Alumina

	EAN No.	Dimensions		R.P.M.	Quantity	
		Inches	mm		Box	Master Box
ZA 16		4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 24	683680	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 36	683697	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 50	683703	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 60	683710	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 80	683734	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 100		4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		
ZA 120	683741	4 $\frac{1}{2}$ ×7/8	115×22.23	13,300	25	
		7×7/8	180×22.23	8,500		

## Backup Pads

Dimensions		EAN No.	Quantity
Inches	mm		
4 $\frac{1}{2}$ ×M14	115×M14	238927	1
7×M14	180×M14	238934	



## Mounted Flap Wheels

Flexible material with premium cut rate for internal and external polishing of flat or contoured surfaces, corners, and slits.

- Come with 6mm or 1/4" shanks.
- All sizes packed 10 pcs. per box.



Die Grinder



Dimensions	EAN No.							R.P.M.	
mm	A40	A60	A80	A100	A120	A150	A240	Optional	Max.
20x15	235384	235391	235407	235414	235421			24,000	30,000
20x20	235452	235469	235476	235483	235490			24,000	30,000
30x10	235568	235575	235582	235599	235605	235612		18,000	30,000
30x20		235698	235704	235711		235728	235735	18,000	30,000
40x15		235803	235810	235827	235834			14,000	23,800
40x20	235841	235858	235865	235872	235889	235896		14,000	23,800
50x15		235971	235988	235995	236008			12,000	19,000
50x30		236060	236077	236084	236091	236107		12,000	19,000
60x15		236145	236152		236169			10,000	16,100
60x30	236213	236237	236244	236251	236268	236275		10,000	16,100
60x40	236312	236329	236336	236343	236350			10,000	16,100
80x20	236404	236411	236428					7,000	11,800
80x40	236503	236510	236527	236534	236541			7,000	8,900
80x50	236558	236565	236572	236589	236596	378012		7,000	8,900

# Mounted Interleaf Flap Wheels

## Aluminium Oxide-Coated Cloth Flap Wheels

Alternating flaps of non-woven and Al. Oxide coated abrasive, for internal and external polishing of flat and contoured surfaces, corners and slits. A/O for metal, steel. S/C for masonry and stone.

- Come with 6mm or 1/4" shanks.
- All sizes packed 10 pcs. per box.



Die Grinder



Dimensions	EAN No.							R.P.M.
mm	A40	A60	A80	A100	A120	A150	S/C240	Max.
40x20		236817		236824		236831	236848	17,000
50x30		236930		236947		236954	236961	13,700
80x50		237142		237159		237166	237173	8,600

# Mounted Non-Woven Flap Wheels

## Aluminium Oxide-Coated Cloth Flap Wheels

Non-woven material impregnated with aluminium oxide grain, for deburring, cleaning, and polishing.

- Come with 6mm or 1/4" shanks.
- All sizes packed 10 pcs. per box.



Die Grinder



Dimensions	EAN No.			R.P.M.
mm	A/O Medium	A/O Fine	A/O Very Fine	Max.
40x20	238293	238279	238279	17,000
50x20	238330	238323	238347	13,700
80x50	402946	238361	238378	8,600

# Flap Wheel Drums

For polishing, and cleaning of all metal surfaces, and for rust and paint removal.



Surface Sander



## Abrasive Cloth Flap Wheel Drums

Dimensions	EAN No.						R.P.M.	Quantity
mm	A40	A60	A80	A100	A120	A150	Max.	Package
100x50xM14							5,700	4
100x100xM14								
100x100x19	378029	237418	237432	378036	378043	378074	5,700	4
100x50x19								



## Interleaf Flap Wheel Drums

Dimensions	EAN No.						R.P.M.	Quantity
mm	A40	A60	A80	A100	A150	S/C240	Max.	Package
100x50xM14								
100x100xM14								
100x100x19		237500		237524	378050	378067	5,700	4
100x50x19								



## Non-woven Flap Wheel Drums

Dimensions	EAN No.					R.P.M.	Quantity
mm	A/O Coarse	A/O Medium	A/O Fine	A/O Very Fine	S/C Ultra Fine	Max.	Package
100x50xM14							
100x100xM14							
100x100x19	238385	238422	238408	238453	238446	5,700	4
100x50x19							

# Safety Guide for the Use of Abrasive Wheels

Bonded abrasive products are breakable and shall therefore be handled with utmost care. The use of damaged, improperly mounted or improperly used abrasive products is dangerous and can cause serious injuries.

## Delivery, Handling and Storage

- Abrasive products shall be handled and transported with care.
- Abrasive products shall be stored in such a manner that they are not subjected to mechanical damage and/or a high level of humidity.

## Selection of the Abrasive Product

- Information on the label or the abrasive product, as well as restrictions of use, safety indications or any other instruction, shall be followed.
- Wheels used on any machine shall only be of a type for which the machine is designed.

## Inspection

- Prior to mounting, all abrasive wheels shall be visually inspected. Wheels which show evidence of cracks, abusive handling or abusive storage must not be mounted.

## Operating Speed

- Machine speed shall be set and measured to make sure that it does not exceed the maximum operating speed designated for the abrasive wheel (ILL. 1).



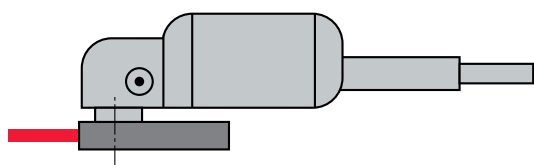
ILL. 1 Observe maximum safe operating speed

## Mounting

- The mounting of abrasive wheels shall be carried out according to the instructions provided by both the wheel and the machine manufacturers.
- Mounting of abrasive products shall be carried out by a qualified trained person.
- Flanges and adaptors shall be checked for flatness of bearing surface. Sprung or warped flanges or adaptors, or those which are not clean and free of burrs, must not be used.
- The spindle end nut shall be tightened only enough to drive the wheel and prevent slippage.
- All newly mounted wheels shall be run at operating speed for at least ten seconds before applying to workpiece. During this time no one shall stand in front of or in line with the wheel, and the maximum safe operating speed must not be exceeded.
- In the case of strong vibrations during the test run, the machine shall be stopped, the tightening nut released, the wheel remounted, and the machine restarted. If the strong vibrations persist, the wheel must not be used.
- Arbor hole size: Abrasive wheels shall fit freely but not loosely on the machine spindle. The size of the arbor hole must not be altered to fit the spindle.

## Mounting - cont.

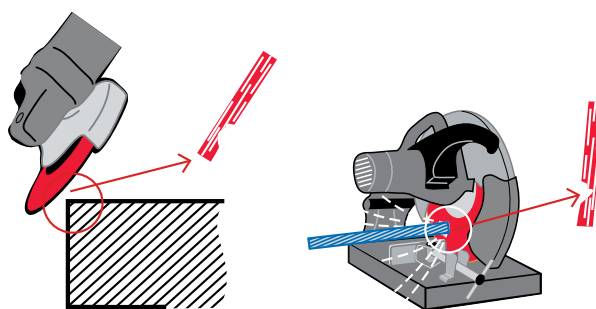
- At the completion of wheel mounting, a safety guard covering at least one half of the wheel shall be in place (ILL. 2). All safety guard fasteners shall be in place and properly tightened. Grinding wheels must not be operated on any machine which has had its safety guard removed.



ILL. 2 Guard covers at least 1/2 of wheel

## Operation

- Care shall be taken not to apply excessive pressure between the abrasive wheel and the workpiece, and to prevent the machine from slowing noticeably or the workpiece from becoming overheated.
- Grinding must not be performed on the side of the wheel (ILL. 4).



ILL. 4 Don't grind on side of wheel

## Personal Protection

- Safety goggles or safety spectacles shall be worn by all personnel exposed to grinding operations (ILL. 3).
- Where necessary, additional personal protective equipment shall be used, such as face protection, ear protection, respiratory devices, aprons, protective footwear, and protective gloves (ILL. 3).



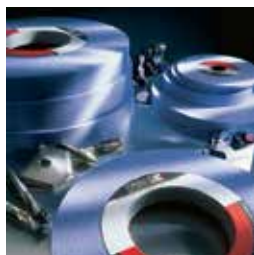
ILL. 3 Wear personal protective equipment

## Stopping the Machine

- When shutting down a wet grinding operation, the coolant must first be shut off and the wheel allowed to rotate until the coolant has been spun out.
- Before placing the hand-held grinding machine on the workbench or floor it shall be ensured that the abrasive wheel has come to a complete stop.

# Vitrified Grinding Wheels: Products by Category

## Precision grinding wheels



CGW engineers have developed specially formulated wheels for resharpener single- and multi-point cutting tools, for surface, cylindrical, and all other grinding operations.

For grinding steels and high-speed steels (HSS), CGW offers a large selection of abrasive types: white, blue, red and pink aluminium oxide, and AS (ceramic abrasive). For tungsten carbide applications, we recommend green silicon carbide.

**Standard types:** 1, 5, 6, 7, 11 & 12. Special types are available on request.

## Creep feed grinding wheels



CGW offers a broad range of creep feed grinding wheels for both continuous dressing and periodic (non-continuous) dressing. Our R&D department has developed bonds with

high porosity for wheels of different abrasive types: WAG, WAB, WAY, WAR, AS, RA, PA.

Our large finishing department is equipped with CNC machines that profile wheels according to customer requirements.

## Surface grinding wheels



Surface grinding wheels are used for heavy stock removal and precision surface grinding. CGW offers a wide range of sizes, with diameters of up to 25" (625mm), in all types and grits.

**Standard types:** 1, 2, 5, 6, 7. Segments and special types by request. Abrasive types WA, PA, AZ, RA, AS, GC, DA, C.

## Cylindrical grinding wheels



Wheels for general purpose cylindrical grinding applications (O.D. grinding) are available in all abrasive types and profiles, up to 25" (625mm) in diameter.

**Standard types:** 1, 5, 6, 7, 20, 21, profile N. Special profiles are available on request.

**Abrasive types:** WA, PA, AZ, RA, AS, GC, DA.

## Centerless grinding wheels



CGW manufactures a wide range of dimensions in centerless and regulating wheels, for three types of feed grinding:

**Thrufeed** - the workpiece passes between the grinding and regulating wheels, from one side of the machine to the other.

**Infeed** - the workpiece is placed on the work-rest between the grinding and the regulating wheels and held in position against the end-stop.

**Endfeed** - used to produce tapered cylindrical parts. The grinding wheel, the regulating wheel and the workpiece are set in fixed positions, and the workpiece fed from the front to a fixed end-stop.

**Centerless wheels:** Diameter up to 600mm (24"), Thickness up to 500mm (20").

**Regulating wheels:** Diameter up to 350mm (14"), Thickness up to 500mm (20").

## Toolroom grinding wheels



Toolroom wheels are available in the following abrasive types:

WA (white) for light stock removal, multi-purpose.

PA (pink) for medium stock removal, good for

holding form.

AZ (WAB) (blue) for medium stock removal, good for holding form and for heat-sensitive materials.

RA (red) for heavy stock removal, good for holding form and for heat-sensitive materials.

AS (blue ceramic abrasive grit) for heavy stock removal, good for holding form, long life.

GC (green) for grinding carbide and non-ferrous metals.

Standard types: 1, 6, 11, 12. Additional shapes available on request.

available in diameters of up to 450mm (18").

**A** - Aluminium Oxide for metal, iron and general use.

**GC** - Green Silicon Carbide for carbide or non-ferrous metals

**WA/WAB:** WA for stainless steel; WAB for high-speed steel (HSS).

## Dressing wheels, blocks and sticks



CGW produces all types and dimensions of dressing wheels for diamond and CBN wheels, by customer request.

All types of sticks and

blocks are available for various applications such as cleaning and knife sharpening (single- or double-layered).

## Internal grinding wheels



For grinding internal diameters (bores/ holes), one of the most challenging grinding processes.

The recommended wheel for internal grinding has a diameter

of up to 2/3 of the final bore required.

CGW offers all sizes up to 150mm (6") in diameter, types: 1, 5, 6.

Abrasive types: WA, RA, AS, PA, GC. Special types available on request.

## Mounted points



CGW offers a complete range of shaped and cylindrical mounted points.

Standard abrasive types: PA for general purpose grinding.

**A** for stainless steel (resin bond)

**C** for stone

All abrasive types are available on request.

**Group A:** shaped mounted point wheels with 6mm (1/4") shank, for general purpose off-hand applications.

**Group B:** shaped mounted point wheels with 3mm (1/8") shank, for light deburring of small areas.

**Group W:** cylindrical mounted points with 6mm (1/4") or 3mm (1/8") shank, used in off-hand and precision grinding operations for medium to heavy stock removal.

## Bench grinding wheels



Straight T-1 wheels are used for off-hand tool sharpening and grinding. General purpose vitrified wheels for use on bench and pedestal grinders, CGW bench wheels are

# Application Guide

✓ = Recommended | ● = May be used

		Cutting											Grinding				
Application		Spec.	A 24 R	A 30 R	A 36 T	A 46 T	A 24 S	ALU 36 N	WA 24 S	WA 30 S	WA 36 S	WA 46 S	C 24 R	A 24 R	WA 24 R	ZA 24 R	C 24 R
Ferrous Metals	Angle Iron - General	✓	✓	✓	✓	•	•	•	•	•	•	•		✓	•	•	
	Iron / Steel Bar	✓	✓	✓	✓	•	•	•	•	•	•	•		✓	•	•	
	Metal Decking & Cable	•	•	•	•	✓		•	•	•	•	•		✓	•	•	
	Pipeline	✓	✓	✓	✓	•		•	•	•	•	•		✓	•	•	
	Wall Studs	✓	✓	✓	✓	•		•	•	•	•	•		✓	•	•	
	High Tensile Steel	✓	✓	✓	✓	•		•	•	•	•	•		✓	•	✓	
	Stainless Steel Sheets	•	•	✓	✓	•		✓	✓	✓	✓	✓		•	✓	•	
	Stainless Steel Bars	•	•	•	•	•		✓	✓	✓	✓	✓		•	✓	•	
	Rails	•				✓								✓	✓	✓	
Castings	Cast Steel	•	•	•	•	•	•	•	•	•	•	•	✓	•	•	•	✓
	Grey Cast Iron	•	•	•	•	•	•	•	•	•	•	•	✓	•	•	•	✓
	Ductile Iron	•	•	•	•	•	•	•	•	•	•	•	✓	•	•	•	✓
Non-Ferrous Metals	Aluminium Alloys	•	•	•	•	•	✓	•	•	•	•	•					•
	Copper	•	•	•	•	•	✓	•	•	•	•	•					•
	Brass, Bronze	•	•	•	•	•	✓	•	•	•	•	•	✓				•
	Titanium	•	•	•	•	•	•	•	•	•	•	•	✓				✓
Masonry	Asphalt / Green Concrete												✓				✓
	Concrete												✓				✓
	Roof Tiles												✓				✓
	Slate												✓				✓
	Masonry												✓				✓
	Marble												✓				✓
	Paving Bricks												✓				✓
	Firing Bricks												✓				✓
	Solid Bricks												✓				✓
	Clay Pipe												✓				✓

# Notes

[illegible]

For more information visit us at:  
[www.cgwheels.com](http://www.cgwheels.com)





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