CRC CONTACT WHEELS

Our contact wheels
set the industry standard in
precision, quality and durability.

CRC also leads the way in recovering worn contact wheels to ensure you get the most out of your equipment.

CONTACT RUBBER CORPORATION

CRC CONTACT WHEELS

Wheels and Expanders for a World of Applications

Over the years Contact Rubber has built a solid reputation for quality and precision. As a leading supplier for a diversified cross section of industry, we have set new standards for contact wheel technology, engineering design assistance, product consistency and single source reliability.

Built for Maximum Life and Service

Our elastomer compounds are specially formulated to give the longest possible work life under the most extreme conditions, and we continue to develop compounds to meet new demands and applications. A full range of wheel hardnesses and face designs is available to achieve every possible grinding and finishing effect. All contact wheels are dynamically balanced to assure smooth, vibration-free operation.

Meeting Your Industry's Needs

C134 before/after recover shown here

CRC has been a major manufacturer of rubber and urethane contact wheels and expanders for a wide variety of grinding and finishing applications since 1962. CRC produces a complete line of standard and custom made products to meet the most demanding needs of industry.

CRC Contact Wheels and Expanders are used for grinding, sanding and finishing a wide variety of materials, including wood, metal, stone and ceramics, plastics, and leather. Wheels are manufactured in a size range from as small as 1" to as large as 30" diameter. All Contact Wheels are available with a hardness range from extra soft, (15 duro) through extra hard (95-100 duro).

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Choosing the Correct Contact Wheel

Contact Rubber Corp. manufactures a full line of rubber covered contact wheels to support your specific grinding and finishing requirements. Selection of the correct wheel is as important as the choice of abrasive belt. Use the following information as a guideline to meet your application requirements:

HARD WHEELS are used for faster cutting and produce a coarser finish. For a given material, hard wheels remove more stock than softer wheels.

SMALLER WHEEL DIAMETERS are used for faster cutting and produce coarser finishes.

SERRATED WHEELS permit faster cutting and result in longer belt life. Belt glazing is retarded, resulting in extended belt life when serrated rubber contact wheels are used.

HIGHER SPEEDS produce better finishes, but caution must be exercized since excessive speeds tend to harden a soft wheel through centrifugal force. *Adhere closely to proper wheel hardness and machine speeds.*

How to Order:

When placing an order, the following suggestions will help ensure proper delivery and will prevent delays in shipment.

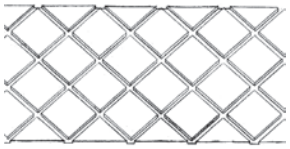
Always specify the following:

1. **Wheel Diameter**
   Has an effect on SFPM
2. **Face Width**
   Should be same as belt width
3. **Bore Size**
   Measure shaft to be sure
4. **Plain or Serrated Face**
   Most are standard serration
5. **Durometer**
   Hardness of rubber
6. **Spindle Speed**
   RPM of grinder

Options:

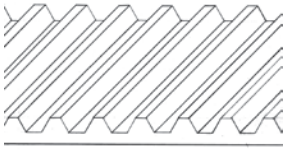
Bearing Tolerances in Bore
Set Screw Holes
Special Core Designs
Snap Ring Grooves
Counter Bore for Bearings
Non-standard Recess
Crowned Face
Standard Keyways
Taper Lock Bores
Steel Sleeved Bores
Choice of Serration
Foam Covering
Polyurethane Covering

Serration Configuations



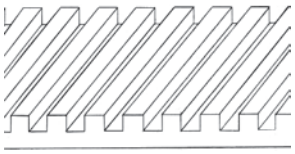
Dyna-Flex

Used on softer wheels. Has flexibility with some aggressiveness.



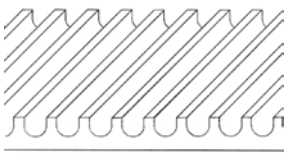
Cog

1:2 land to groov e ratio. Used on harder wheels. Very aggressive action.



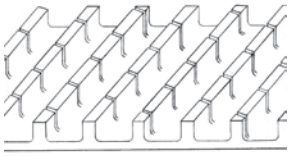
Standard

1:1 land to groove ratio. Common groove pattern. Use on all densitites.



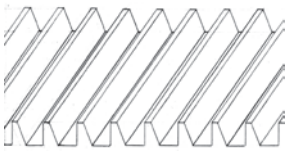
Scoop

1:3 land to groove ratio. Faster cutting action with aggressive stock removal.



Serr-X

The narrow cross slot enhances the aggressive-ness of other serration patterns.



Modified Scoop

1:3 land to groove ratio. Similar to the scoop, but has a buttress on one side of the land for added support.

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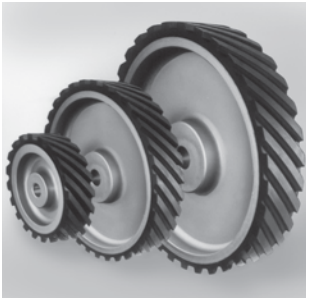
C130
Contact Wheels

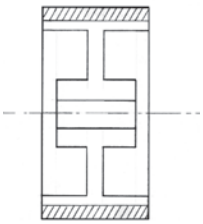
For use on a wide variety of abrasive belt grinding machines. This versatile wheel may be modified to fit any type of grinder mounting or spindle configuration. Aluminum hubs with custom recesses, bearing bores, and tapered bores are commonly supplied. Any of the five basic hub designs can be modified to adapt to any grinding apparatus. These wheels may also be used as idler pulleys, drive & pull wheels, measuring wheels, feed wheels, pinch & nip wheels, as well as support and conveyor wheels. All C130 wheels are dynamically balanced to assure smooth vibration-free operation and may be recovered at a considerable cost savings.

5 Hub Styles Available

NOTE: The C130 wheel design is not limited to he five basic hub configurations.



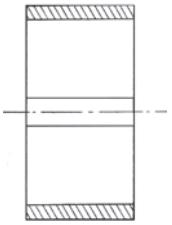
Custom wheels are available:



Style A

Standard design available 6" dia. and up.

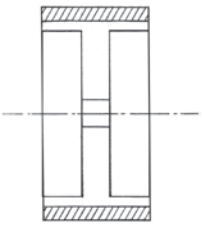
**other designs similar to Styles B-C-D-E quoted special*



Style B

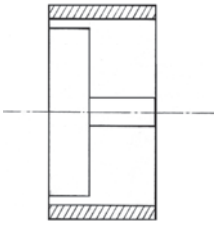
Flush both ends. Standard design on wheels under 6" dia.

- *Available wheel diameters range from as small as 1" to as large as 30", with widths from 1/2" to 6" or wider.*
- *Available rubber covering densities: 20 duro through 100 duro with a plain or serrated face.*



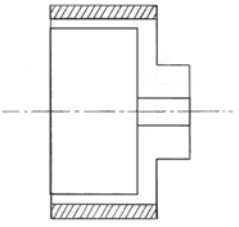
Style C

Recessed both ends.



Style D

Recessed one side only.



Style E

Recessed with hub extension.

Special hub styles available. Please specify recess diameter, depth of recess, and hub extension for Style E. Prices are quoted on request for Styles C, D, and E.

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C130E
Slotted Expander Wheel

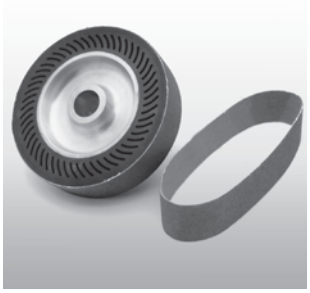
For efficient stock removal and general purpose sanding.

The C130E SLOTTED EXPANDER WHEEL uses standard abrasive sleeves which completely encase the wheel diameter. The abrasive sleeve is held securely in place during operation by centrifugal force created by wheel rotation. The rubber diameter is ground concentric with the bore for smooth vibration-free operation. Wheels are available to fit standard spindle and shaft sizes.

Also available with threaded bores.

WHEEL DIAMETER	BAND LENGTH	RECOMMENDED SPEED RANGE *(Approx.)*
3/4"	2 3/8"	10,000 - 12,000 RPM
1"	3 7/32"	10,000 - 12,000 RPM
1 1/2"	4 25/32"	6,000 - 10,000 RPM
2"	6 11/32"	4,500 - 7,500 RPM
2 1/2"	7 29/32"	4,500 - 7,000 RPM
3	9 1/2"	3,600 - 7,000 RPM
3 1/2"	11 1/16"	3,600 - 7,000 RPM
4"	12 5/8"	3,600 - 6,000 RPM
5"	15 25/32"	3,000 - 5,000 RPM
6"	18 15/16"	3,000 - 4,000 RPM

Standard diameter range is from 2" thru 6",
and widths from 1" thru 4". Non standard sizes are available thru 16" diameter.



Counter-clockwise rotation shown here

C130EP
Bristol Plain Face Expander Wheel

For Leatherworking, Woodworking, Lapidary, and Metalworking.

Our 6" diameter plain face expander uses standard 18 15/16" coated abrasive bands which completely encase the wheel diameter. Centrifugal force created by the rotation of the wheel holds the abrasive band in place during operation. Use with coarse grit abrasive band for aggressive stock removal or with fine grit for light sanding and polishing.

Standard widths:	*1", 1-1/2", 2" 2-1/2" and 3"*
Bore size for all widths:	*1"*
Bronze reducer bushings:	*1/2", 5/8", 3/4" and 7/8" ID*
Standard densities:	*40 duro rated for 3,200 RPM*
	60 duro rated for 3,650 RPM

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C134 Quick Change Contact Wheels

The C134 CONTACT WHEEL with removable hub is unique in that a single aluminum hub of a given diameter will accept a variety of tires in various face widths and hardnesses. All hubs and tires are independently balanced to assure smooth, vibration-free operation. This wheel (hub and tire) may be used interchangeably with those of the same design from other manufacturers.

Assembly of a replacement tire onto a Quick Change hub is easily done. Simply remove the flat head allen set screws from the retaining ring, remove the worn tire, and replace it with a new tire. Re-assemble the retaining ring and make sure the balance marks are properly aligned.

Standard diameters of C134 replacement tires: 6", 8", 10", 12", 14", 16", 18" and 20"

Standard face widths of C134 replacement tires:

6" dia – 1" thru 6" in 1/2" increments

8" dia – 1" thru 8" in 1/2" increments

10" dia – 1" thru 10" in 1/2" increments

12" dia – 1" thru 8" in 1/2" increments

14" dia – 1" thru 8" in 1/2" increments

16" dia – 1" thru 6" in 1/2" increments

18" dia – 1" thru 6" in 1/2" increments

20" dia – 1" thru 4" in 1/2" increments

Tire Specs

Replacement tires 6" dia thru 18" dia, up to and including 4" face width, have rubber covering bonded onto rims which are made of heavy gauge steel stampings. Some 18" and all 20" dia replacement rims, as well as any rim which is over 4" face width, have the rubber coverings bonded onto rims which are made of machined aluminum castings.

All C134 replacement tires may be recovered. However, on many of the sizes (generally those sizes which have the heavy gauge steel stampings for rims), the cost difference between new tires and recovered tires is minimal. Much of the cost savings would be negated with shipping costs to the factory!

HUB SIZE	6	8	10	12	14	16	18
Standard Length through Hub	2 1/2"	2 1/2"	3"	3"	3"	3"	3"
Largest Bore Diameter	1 5/8"	2 1/8"	2 1/2"	3 1/2"	3 1/2"	4 1/2"	4 1/2"
Diameter of Boss	2"	2 1/2"	3"	4"	4"	5"	5"

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C138E Slotted Expander Mandrel

C138ET Slotted Tapered Expander Mandrel

These SLOTTED EXPANDERS are designed for use on high speed portable tools and flexible shaft grinders. Both styles use coated abrasive sleeves and cones which completely encase the rubber diameter. The abrasive is held in place with centrifugal force generated by the rotation of the tool. Standard C138E expanders are permanently mounted on a 1/4" steel mandrel. The C138ET tapered mandrel is furnished with a threaded bore in the large diameter end of the mandrel.

Standard diameters range from 1/2" thru 2-1/2" and widths from 1" thru 3" for the C138E and 5-3/4" for the C138ET.

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C200
Contact Wheels

The C200 CONTACT WHEEL utilizes aluminum flanges to reduce a 3-1/2" pilot hole to the required bore size. With the flanges assembled, the wheel has a 1-1/4" length through the bore making it adaptable to shorter than usual spindles. Both wheel and flanges are dynamically balanced independently for smooth operation.

Wheels are made of a heavy gauge steel core with rubber molded to the diameter. Rubber densities from 20 thru 95 duro with plain or serrated face. Standard diameters are 12" and 14" with face widths from 1" thru 4" in 1/2" increments.

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SOFT GRIND FOAM CONTACT WHEELS

CRC's "Soft Grind" is a special foam wheel covering that offers a conformability not usually found with soft, more dense rubber covered contact wheels. The "Soft Grind" material is made of compressed, non-reticulated foam segments, which are permanently bonded to an aluminum or steel core. This unique covering provides firmness for stock removal AND enough flexibility to conform to curves and radiuses. The diameter of a "Soft Grind" covered wheel may be shaped to the contours of the part being ground, allowing the abrasive belt to follow the configuration of the part with greater ease.

Stock removal with a gentle touch

Best suited for use in automatic finishing equipment, CRC's "Soft Grind" covered wheels are typically used in multi-stationed robotic cells where repeatability of finish is important to the end product.

- "Soft Grind" covering is available on C130 aluminum hubs as well as C134 steel rim type wheels.
- Wheel diameters, whether new or recovered, are ground concentric with the bore and are dynamically balanced to assure smooth vibration-free operation.

Recover your worn wheels with "Soft Grind" Foam

CRC can recover your worn wheels at a fraction of the cost of new!

Standard Size: 12", 14" and 16" diameter with widths of 2", 3" and 4"

Wheels are available in metric sizes — other sizes are available on request

Typical Bore Sizes: 3/4" through 1-3/4"

Hardness Grades:

20-25 duro – most flexible

30-35 duro – less flexible than 20 duro with aggressive stock removal

40-45 duro – most aggressive stock removal with minimum flexibility

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