Speedwell Abrasive Pvt. Ltd. is the leading manufacturer of the famous and prestigious “SPEEDWELL” brand abrasive wheels.

To satisfy the demand of customer’s for high quality and durable abrasive wheels in competitive rates, Mr. Dilip Patel (Managing Director) dedicated to provide better combination of quality and cost together, and that magnificent desire has been concept to create “SPEEDWELL” Brand. He is related with abrasive material since 1990 as a consultant. He has vast knowledge of abrasive material and good skill of manufacturing different type of abrasive tools.

Speedwell has ability to produce raw material in-house, like abrasive grains, glass fibers and so many things related to abrasive wheels. Speedwell has foreign collaboration to produce special abrasive and super abrasive grains in-house. We have well-equipped and modern physical, chemical and R&D laboratories.

Speedwell has complete automated and air-condition plant to produce abrasive tools in huge mass with errorless and as per international standard. Abrasive wheels can be manufactured as per standard specification as well as customers demand specifications.

**How to order a grinding wheel**

- Thickness
- Diameter of Wheels
- Bore Size
- Grain Size (24, 36, 46, 60 etc.)

**Grinding Condition:**

Material to be ground, type & hardness, stock to be removed, work piece geometry and surface finish required, grinding machine type & horsepower, wheel speed and feeds, grinding contact area, grinding fluid wet or dry.

**Safety Measures**

- Wear goggles for all grinding machine operations.
- Check grinding wheels for cracks (Ring Test) before mounting.
- Never operate grinding wheels at speeds in excess of the recommended speed.
- Never adjust the work piece or work mounting devices when the machine is operating.
- Do not exceed recommended depth of cut for the grinding wheel or machine.
- Remove work piece from grinding wheel before turning machine off.
- Use proper wheel guards on all grinding machines.
- Store wheels in dry and safe rack.

**Our Products**

**RESINOID BONDED**

1. Resinoid bonded Straight Wheels
2. Resinoid bonded Depressed Center Wheels
3. Resinoid bonded Cut-off Wheels Plain
4. Resinoid bonded Cut-off Wheels Reinforced
5. Resinoid bonded Knife Wheels
6. Resinoid bonded Segments

**VITRIFIED BONDED**

1. Green Silicon Carbide (G.C.)
2. Black Silicon Carbide (B.C.)
3. Vitrified Bonded Brown Aluminum Oxide (AV)
4. Vitrified External & Internal Wheel for Bearing
5. Vitrified Bonded Knife Wheels
6. Vitrified Flour Mill Stone & Mill Top Wheels

**SILICON CARBIDE**

Silicon carbide wheels are used for the grinding of low tensile strength metals like Cast Iron, Brass, Copper, Bronze, Gun Metal and Aluminum. These wheels are also used on Glass, Porcelain, Marble, Granite, Artificial Stone, on pearl Precious and Semi Precious Stones, Leather and Hide, Cork Wood, Rubber Granulate, Horn Ebonite and the like. One of the popular varieties of abrasive is use rubbering bricks and triangular blocks use for polishing marble.

**ALUMINUM OXIDE**

This Abrasive is very tough and is particularly suitable for grinding metals of high tensile strength such as Snagging, Steel Casting, Portable Weld Grinding, Cylindrical Grinding on all except the hardest and most heat resistive steels. Off-hand grinding of Mild Steel, Carbon Steel, Manganese Steel, Stainless Steel etc.
**REINFORCED CUT-OFF WHEELS (R.C.O.)**

These wheels are with fibre glass reinforced. It should be mounted on fixed or portable grinding machines. At the time of operation the wheel is controlled by hand against the fixed workpiece by using cutting planes of wheel.

*SPEEDWELL* manufactures:
- Reinforced single side
- Reinforced dual side
- Triple Reinforced
- Party Reinforced dual side

**Application:** These wheels are for cutting applications of ferrous, non ferrous and non metallic substance, like as rocks, tubes, structural sections & parting operations.

**Product Range**

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>THICKNESS</th>
<th>BORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5” to 20”</td>
<td>1.5mm to 10mm</td>
<td>Standard bore size and as per customer's requirement</td>
</tr>
</tbody>
</table>

**DEPRESSED CENTER WHEELS**

These wheels are with fibre glass reinforced. Usually use on portable angle hand grinder.

**Application:** These wheels are for Cleaning Metal Surface, Grinding on Welded Bed, Cutting off Molding Gates, proper finishing of surfaces in Foundry, Grinding in Fabrication Shops, Steel Mills, Pipe Industries, Ship Manufacturing, Aircraft Manufacturing & Automobile Parts Industries etc.

**Product Range**

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>THICKNESS</th>
<th>BORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>100mm</td>
<td>4mm to 6mm</td>
<td>16mm</td>
</tr>
<tr>
<td>125mm</td>
<td>5mm to 7mm</td>
<td>22.22mm</td>
</tr>
<tr>
<td>180mm</td>
<td>5mm to 7mm</td>
<td>22.23mm</td>
</tr>
<tr>
<td>230mm</td>
<td>5mm to 7mm</td>
<td>22.23mm</td>
</tr>
</tbody>
</table>

**SWING FRAME / PEDESTAL WHEEL**

These wheels are for swing frame grinding.

**Application:** These wheels are for metal removal from bore cylinder of automobile engines, surface finish of billets of steel & metal removal of gates in foundry.

**Product Range**

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>THICKNESS</th>
<th>BORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10” to 24”</td>
<td>1” to 4” (25mm to 100mm)</td>
<td>Standard bore size and as per customer's requirement</td>
</tr>
</tbody>
</table>

**OFF HAND GRINDING WHEELS**

These wheels are use for off hand grinding operations. These operations like fitting and snapping are perform on fixed or movable grinding machines. These wheels are manufactured in two variants: 1. Aluminum Oxide 2. Silicon Carbide

**Application:** These wheels are use for off snapping & general purpose grinding on different type of metal. Silicon Carbide wheels are use for metal removal process. Both types of wheels are used for application on ferrous and nonferrous metals in foundries, fabrication shop, steel mills, automobile & aeronautical industries, concrete grinding etc.

**Product Range**

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” to 10”</td>
<td>0.25” to 2.5” (6mm to 63mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard bore size and as per customer's requirement</td>
</tr>
</tbody>
</table>
PLAIN CUT-OFF WHEELS (P.C.O.)

These are non-reinforced wheels. Usually use for fixed grinding machines at low cutting speed compare to reinforced cutting wheels.

Application: These wheels are use for such type of job where pressure applied on side of wheel is very low. Like as fixed type machines.

Product Range

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>1&quot; to 16&quot; (25mm to 400mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>THICKNESS</td>
<td>0.6mm to 6mm</td>
</tr>
<tr>
<td>BORE</td>
<td>Standard bore size and as per customer's requirement</td>
</tr>
</tbody>
</table>

DUPLEX WHEELS

This Duplex is mounting through nut insert and use for remove metal from job by rotary motion of machine ram.

Application: Segments are use for surface grinding and precise surface finish.

Product Range

<table>
<thead>
<tr>
<th>DIAMETER</th>
<th>12&quot; to 20&quot; (300mm to 500mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>THICKNESS</td>
<td>35mm to 75mm</td>
</tr>
<tr>
<td>BORE</td>
<td>Standard bore size and as per customer's requirement</td>
</tr>
</tbody>
</table>

SEGMENTS

This segments are keep in a row in planning machine and use for remove metal from job by reciprocating or rotary motion of machine ram.

Application: Segments are use for surface grinding and precise surface finish.

Product Range: as per customer's requirement

VITRIFIED BONDED GRINDING WHEELS

Brown Aluminium Oxide (A.V.)

Suitable for grinding metals of high tensile strength. Edge retention and consistent grinding. Minimum stock building on the wheel surface.

Green Silicon Carbide (G.C.)

Suitable for grinding Carbide tipped tools. Special type of rolls of chilled iron. Ideal for precision grinding & sharpening applications on metal carbide.

Black Silicon Carbide (B.C.)

Suitable for grinding material of low tensile strength (non-ferrous) such as brass, copper. Also suitable for ceramics grinding such as glass and porcelain.

White Aluminium Oxide (W.A.V.)

Suitable for grinding for precise metal finish and polishing. Cool & burn free cutting. Ideal for heat-sensitive applications with light to moderate feed rates.
Our Valuable Customers

Speedwell Abrasive Pvt. Ltd.
is committed for
Timely Deliveries, Consistent Quality and Efficient Service Back Up

Speedwell Abrasive Pvt. Ltd.
Survey No. 114/1P4/P1, Speedwell Ind. Park, Kuwadava Chowkdi,
Wankaner Rd, NH-8, KUWADAVA-360003, Dist. Rajkot (Guj.) INDIA
Customer Care No: +91 9723 550 416
info@speedwellabrasive.com  www.speedwellabrasive.com