Woodcock and Wilson have introduced the BLS fan into their vast range of centrifugal fans. This fan incorporates a single inlet flat backward inclined impeller being ideal for the use of transporting dry sawdust and shavings or alternatively grinding and sanding dust.

Each year premises and plant are severely damaged or destroyed by wood dust fires and explosions.

Concentrations of small dust particles in the air can form a mixture that will explode if ignited. These concentrations usually occur in dust extraction equipment which can be destroyed unless special precautions are taken. Such an explosion can also dislodge dust deposits that may have accumulated on walls, floors and ledges which in turn can ignite causing a secondary explosion.

Wood dust will also burn readily if ignited. Fires can be started by badly maintained heating units, an overheated electric motor, electric sparks and sparks from other sources such as open wood burning stoves and cigarettes. Wood dust on the floor can cause tripping or slipping. Vision can be impaired by airborne chips and dust generated during machining and sanding operations. If exposure to wood dust cannot be prevented altogether, then assess the risk to health from exposure to airborne dust by using a process or method of work that reduces the generation of dust to a minimum and providing dust control equipment to all dust producing processes to stop the dust entering the workroom atmosphere such as a Woodcock and Wilson BLS wood waste fan at woodworking machines making sure that plant and equipment is properly maintained. Always keep ventilation ducts free from blockages and repair broken or damaged ducts. Maintain filter units and other plant and equipment regularly in accordance with the manufacturer’s recommendations.
**Arrangement**

The BLS single inlet direct driven fan can be supplied in either Right Hand (RD) or Left Hand (LG) rotation. Discharge orientation can be any of standard Eurovent and ISO angles, along with any angle in between as a special design. Various options are listed below.

**Impeller type**

Single inlet flat backward inclined with steep angle to provide the advantage of self cleaning properties.

**ATEX**

ATEX (II 2/3/G/D T1-T6) specification for hazardous areas.

**Motors**

Motor sizes up to 55kW can be provided, normally T.E.F.C., IP 65, and are foot or flange mounted and connect directly to the fan impeller.

The common voltages are 200, 220/380, 380, 240/415, and 460. Motors can be wound for any voltage / frequency and also for dual voltage. The use of standard foot or flange mounted motors of this type guarantees interchangeability in most countries of the world with machines of similar speed / power. EExd, EExnA, single phase, 2/3 speed and company specification motors can always be obtained.

**Extra Features**

> Flexible Connections
> Inlet and Discharge Guard
> Anti-vibration mountings
> Acoustic Enclosure
> Vibration & Condition monitors
> Attenuator

**Finish**

Standard – Zinc Phosphate
Optional – Hot Dipped
Galvanised or Stainless Steel

**Standard Handings**

<table>
<thead>
<tr>
<th>Fan Type</th>
<th>Inlet mm</th>
<th>Motor kW</th>
<th>Speed rpm</th>
<th>Abs kW</th>
<th>Airflow m³/sec</th>
<th>Static Pa</th>
<th>Inlet vel. m/s</th>
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<tr>
<td>280-546</td>
<td>280</td>
<td>7.5</td>
<td>2930</td>
<td>6.0</td>
<td>1.5</td>
<td>2750</td>
<td>24.5</td>
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<tr>
<td>315-546</td>
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<td>15.0</td>
<td>2920</td>
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<td>3000</td>
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<td>2930</td>
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<td>3250</td>
<td>30.2</td>
</tr>
</tbody>
</table>

ImPELLER diRECTLY mounted on motor shaft and all mounted on full depth pedestal.