

CONVEYOR SYSTEMS

*for the carriage of swarf,
semi finished and
finished parts*



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SCAPER CONVEYOR:

- To handle wet or dry applications and able to accommodate large volumes of liquid.
- For chips and bulk swarf. Speed of conveyor 1m to 2m per minute.
- Conveyor widths available from 100mm to 800mm.
- Standard conveyor angle of 30°, 45° and maximum of 60°

OPERATION:

The goods to be conveyed are transported by a blade type flight bar in a U-shaped conveying channel.

SLATBAND CONVEYOR:

- For long or helical (curly) swarf and fine, wet, dry or hot swarf chips.
- Will accommodate steel, cast iron, aluminium brass, or plastic materials.
- Continuous conveying is possible up to 60°.
- Speed of conveyor between 1 and 25m per minute.
- Conveyor widths available from 100mm to 600mm.

OPERATION:

The slat band conveyor consists of a closed welded conveying channel. Inside the channel is a conveying band manufactured from hinged steel plates. Items to be transported lay on the top of the plates..

The band is driven by two side chains which are normally equipped with rollers. Side plates are designed to prevent spillage; these remain overlapped at all times.

MAGNETIC CONVEYOR:

- Permanent magnetic sliding conveyor for swarf disposal and filtration.
- For Ferro-magnetic products and swarf chips
- Continuous and careful transport is possible up to an angle of 90°.
- Conveying speed 1m to 15m per minute.
- Section widths available from 200mm to 500mm.

OPERATION:

The conveyor has a sealed outer casing which guarantees trouble-free operation when immersed in liquid. Inside the casing high quality magnets with extremely high gauss readings pass under an abrasion protected plate on which the swarf, captured in the magnetic field, travels to the discharge point at the top of the conveyor.

The continual rotation of the magnetic ensures smooth transportation of the swarf. A coolant catchment area is designed to ensure the coolant travels parallel over a wide magnetic field. This gives a coarse filtration effect. Other filters can be added to this system using this as a pre-filter.

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PUSH CONVEYORS:

- For unbroken lathe swarf spiral (curly or bushy) mixed with swarf chips
- For large volumes of coolant
- Continuous conveying up to angles of 45 degrees

OPERATION:

The swarf to be transported is by a pusher blade hinged at one side to a connecting rod. On the forward movement the pusher blade will cover the width of the channel by means of sliding friction, pushing the swarf. On the backward movement, the pusher blade swivels parallel to the channel leaving the swarf stationary at the position of the last forward movement. The channel is barbed ensuring the swarf remains in this forward position.

VELOCITY TRENCH:

- Used for short aluminium or steel grinding chips.
- For high volume coolant flow.

OPERATION:

Grinding swarf, together with a high volume of coolant will be transported in the velocity trench. Difficult areas, i.e. bends, can be specially designed. The movement is created by high pressure jets within the trenches. The advantage of this simple system is the low maintenance requirement.