TURBO HB

NON FILTERING CHIP CONVEYOR

COARSE AND STRINGY CHIPS
MIXED MATERIAL

YOUR ONE-STOP-SHOP
FOR MACHINE-TOOL PERIPHERALS

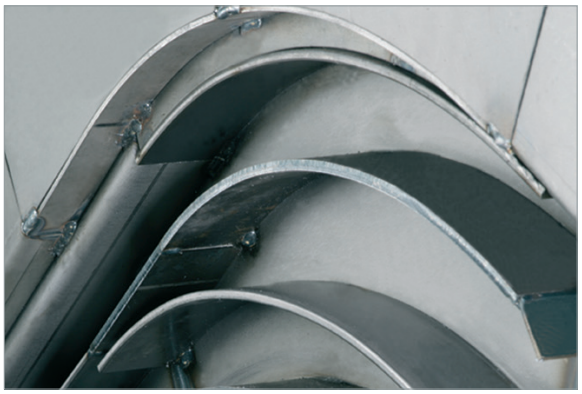
INCREASING PRODUCTIVITY OF MACHINE TOOLS

LNS's line of Turbo HB conveyors meets the price and performance needs of today's machine tools.
Turbo HB conveyors are basic conveyors that are used for chip removal where filtration is not required and is the best choice for coarse and stringy chips.

DESIGNED TO MEET YOUR APPLICATION

Modern machine tools come in a large selection of horse power and processing capability. Chip conveyors are called on to remove a broad spectrum of material and chip types.

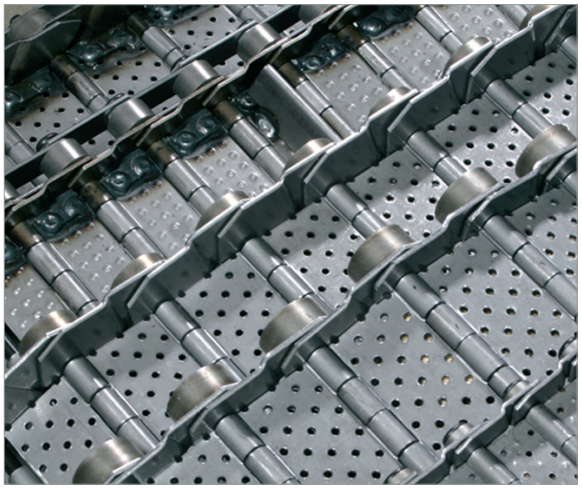
Turbo HB conveyors come in a variety of frame types that are matched to the size limitations and horse power of the machine tool. Belt designs are flexible to match specific chip geometry and coolant requirements.



SUPERIOR FRAME CONSTRUCTION

Long conveyor life under extreme load and abrasion conditions can only be achieved with proper frame design.

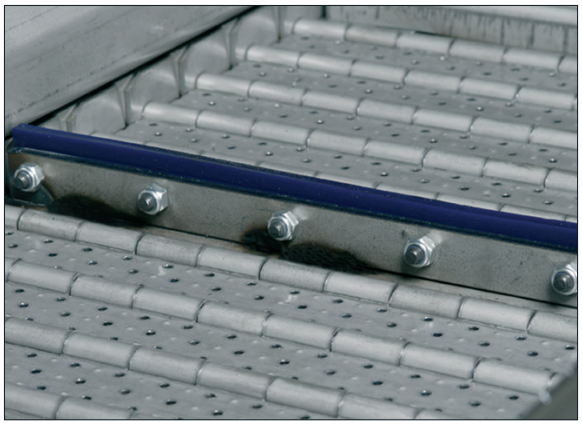
Each frame is designed to withstand the forces it will see in tough machining applications. The steel thickness is matched to the type of frame. The more chips a machine has the capability to produce, the more robust the frame becomes. Hardened track is used in all high wear areas, such as the curves, to provide long conveyor life. All curves and tails are smoothly transitioned so chips have no areas to accumulate in.



VARIETY OF BELTS

For the most efficient chip removal and coolant drainage, a wide variety of belt designs are essential to maximize chip removal success.

Belt construction is critical to the proper removal of chips in any conveyor. Side wing and cleat height assure enough volume carrying capacity. As the frame durability increases, side wing and cleat height increase to allow for a higher chip load. Each hinge plate is designed to provide a good combination of chip removal and coolant drainage. Normal applications will use a dimpled plate. For high viscosity cutting oils, perforated plates are recommended. To keep C shape chips from adhering to the belt cleats, they are formed so that the radius makes it harder for these chips to become trapped.



TROUBLE-FREE OPERATION

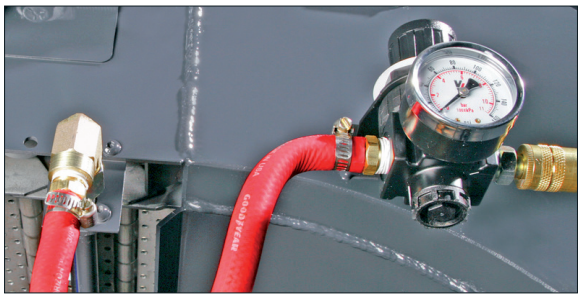
Conveyors work in a tough environment. For over 40 years, LNS has learned the best ways to design conveyors for dependable, trouble-free operation.

Each belt has a minimum of 2 wiper cleats that clean chips that have washed into the inside of the conveyor frame. Because all conveyor transitions use a smooth radius, these wipers do an excellent job of keeping the frame free of chips, reducing the risk of a belt jam. All belt rollers and pins are hardened for durability. For extreme wear conditions on super heavy duty conveyors, hardened rollers mounted on hardened bushings are used with double link plates for maximum belt strength.

CONTINUOUS UNATTENDED OPERATION

Conveyors are applied to continually remove chips in machine tools, including applications where unattended operation is required.

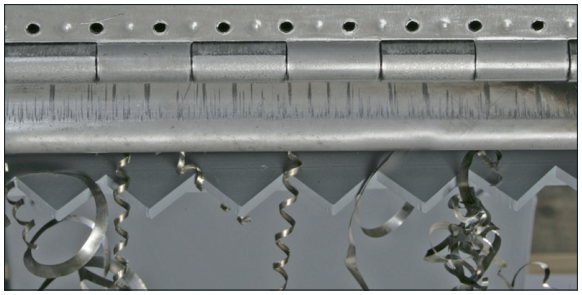
LNS use electronic protection on its smaller conveyors. On applications where heavy chip load is expected, the conveyor is supplied with a specially designed ball detent clutch that will free all minor jams without operator or maintenance intervention. The clutch is designed to release when the belt jams then re-engage to provide torque to free the belt.



OPTIONS

AIR HEADER

Small chips have a tendency to adhere to hinge plates because of the sticky nature of coolant. LNS's air header option directs a stream of compressed air to knock these chips off the plate before they are carried back down the conveyor frame.

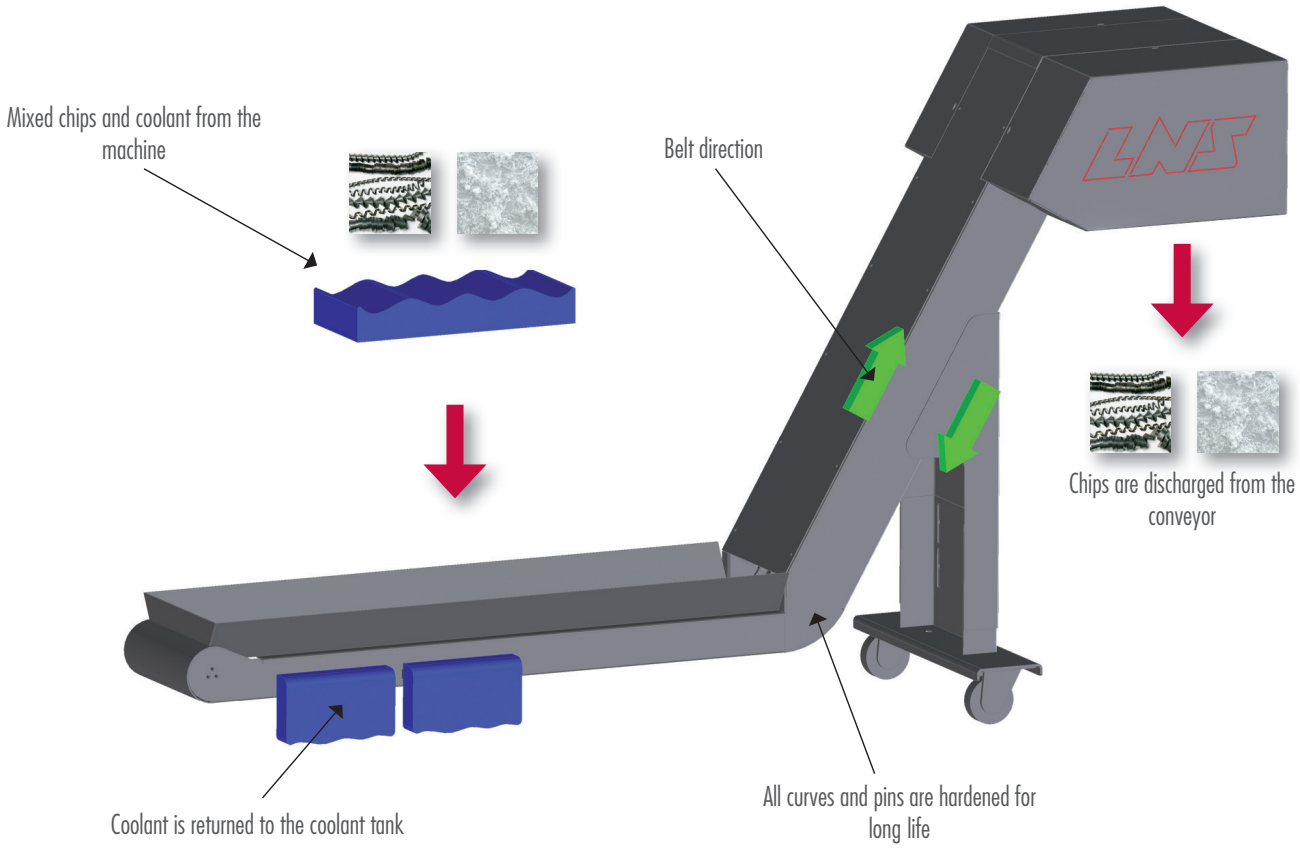


CHIP STRIPPER BAR

A Chip Stripper bar is an adjustable, serrated steel bar mounted under the belt at the conveyor discharge. Stringy or bushy chips are grabbed by this bar and ripped free of the belt before they are carried back into the conveyor frame.

VARIABLE SPEED CONTROL

A variable Speed Control can be substituted for any fixed speed control. The use of a variable speed drive enables the user to alter the speed of the conveyor belt depending on the specific application. This option is particularly useful for reducing coolant carry out with the conveyor.



YOUR ONE-STOP-SHOP FOR MACHINE-TOOL PERIPHERALS

LNS provides a full range of bar feeders, chip conveyors, coolant management systems and air filtration systems which is second to none on the market. We are known in the industry for the solid expertise we have gained over several decades in an exceptionally wide range of applications, our excellent customer service and our technical support. This support is ensured by highly qualified technicians who are available at key locations throughout Europe.

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Subject to modifications / EN/11:2016