



TURBO MF2 CHIP CONVEYOR

FILTERING CHIP CONVEYOR

Filtration down to 50 microns

Mixed Materials

Coarse or Stringy Chips

All Sizes Mixed

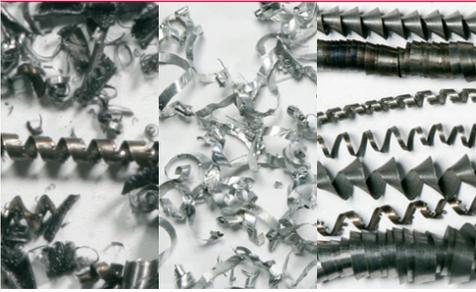
Aluminum

Fine Chips

Coarse and Stringy



YOUR "ONE-STOP-SHOP"
FOR MACHINE-TOOL PERIPHERALS



The Most Versatile Chip Conveyor

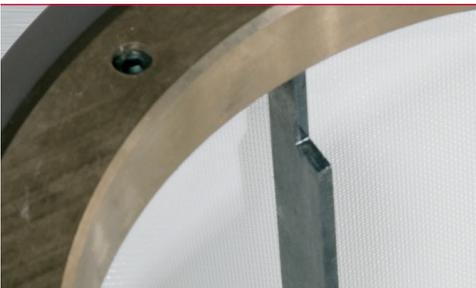
The Turbo MF2 will handle any type of chip material, any type of chip load and any chip geometry including fines, broken and stringy chips, all while providing filtered coolant to keep the machine sump maintenance free.



Dual Purpose Conveying

Heavy chip removal of all sizes with filtration is essential to keeping your production running efficiently.

The Turbo MF2 is designed and built to take on the toughest chip removal jobs and simultaneously provide superior filtration. The Turbo MF2 is a dual conveyor design. The upper conveyor is a hinge belt type which can be specified in standard, heavy, and super heavy duty configurations to best match your chip load. The lower conveyor is a scraper type which removes the fines and small chips trapped in the lower conveyor. Coolant flows up to 150 GPM and is accommodated with the standard filter drum design. The Coolant tank is configured to your requirements.



Large Capacity Coolant Flow

Modern machine tool designers have greatly increased the need for coolant volume. Cutting tools and chip flow require an ever increasing need for this coolant flow.

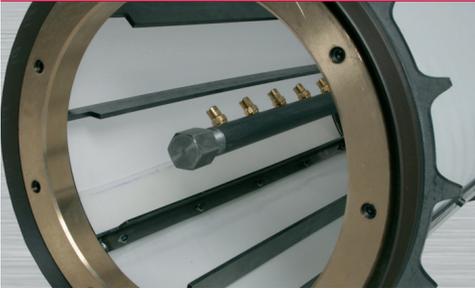
The Turbo MF2 was designed with the increase in coolant flow in mind. Large diameter filter drums provide coolant flow of 100 or 150 GPM matching the needs of high flow pumps to any machining requirement.



Versatility

Today's machines are capable of combining a wide variety of machining processes. Heavy chip loads from high horse power roughing cuts combined with very fine finishing create a wide range of chip loads and chip types from the same machining operation.

The upper conveyor separates heavy chip loads from the coolant stream. This conveyor efficiently removes chunks, stringy, bushy and large chips and is ideal for multiple material applications. Any small chip or particle passing through the upper conveyor is trapped in the lower filtering conveyor. High speed aluminum machining is one of the many applications ideal for the Turbo MF2.



Maintenance Free and Hassel-Free Filtration

Expensive machine tools are only making money when they produce parts. What is the best way to eliminate tank maintenance and reduce indirect labor associated with this maintenance?

The self cleaning filter drum located in the lower conveyor is protected from heavy chips by the upper conveyor and is designed with a very fine filter material which traps particles greater than 50 microns keeping all fine chips out of the coolant tank. The filter drum seal is a unique design incorporating Viton seal material and a metal pre-seal. The metal seal prevents chips from damaging the softer Viton material. The combination of these two seals creates a seal impervious to chip contamination, coolant degradation and wear.

The drum rotates and is sprayed with coolant providing self-cleaning, maintenance free filtration. The scraper conveyor removes the fines and small chips trapped in the lower conveyor. Clean, filtered coolant is returned to the machine sump assuring maximum tool life and extended coolant life while minimizing tank maintenance.



Serviceability

Any component in a high wear environment must be easy to service.

The lower conveyor is a scraper-type, ideal for removal of small particles carried through the upper conveyor. Fines trapped by the filter drum are deposited on the incline. Easy access to the drum improves maintenance and assures low cost and maximum uptime.



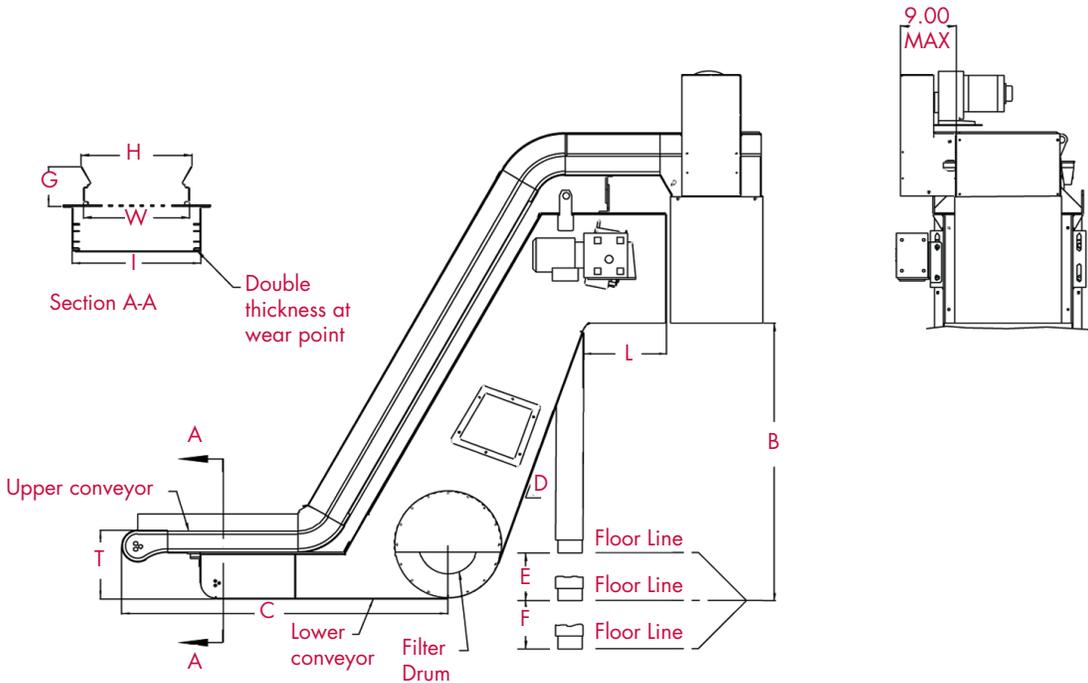
Proven Performance

Since 2000, the Turbo MF2 has worked in shops around the world to efficiently remove chips from machining operations while filtering coolant to a 50 micron level. The drum design ensures the filtration level is not compromised over a long life time. The availability of a standard duty, heavy duty or super heavy duty frame design matches the chip load from any machining process.



TURBO MF2 CHIP CONVEYOR

TECHNICAL SPECIFICATIONS



CONVEYOR FRAME DIMENSIONS (INCHES)				
Type (Upper)		Standard Duty	Heavy Duty	Super Heavy Duty
Sidewing Height		0.75	1.00	1.5
Belt Width (2" increments)		4-22	4-24	4-36
W	Width (Upper)	BW + 2.06	BW + 3.63	BW + 3.88
T	Height	10.23	10.80	10.67
L	Leg Location	12.80	12.80	12.80

SPECIFICATIONS		
Variable	Description	Dimension
A	Belt width (BW)	
B	Discharge height to floor	
C	Horizontal section length	
D	Incline angle	• 60
E	Horizontal section below floor	
F	Horizontal section above floor	
G	Baffle height (max.)	
H	Baffle width (max.)	
I	Width (under conveyor)	

YOUR "ONE-STOP-SHOP" FOR MACHINE-TOOL PERIPHERALS

LNS provides a full range of barfeeders, chip conveyors, coolant management systems, air filtration systems, and workholding systems that is second to none on the market. We are known in the industry for the solid experience 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 throughout North America.



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