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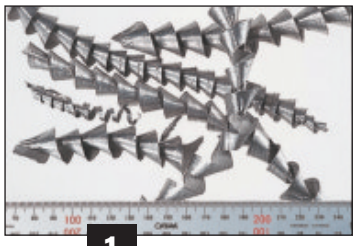
CONVEYOR SELECTION GUIDE

MATERIAL				STEEL OR STAINLESS STEEL		CAST OR DUCTILE IRON	CAST IRON PLUS ALUMINUM	STEEL	BRASS	COM-POSITE	ALUMINUM	
TYPES OF CHIPS (See numbered photographs below)				1 2 3	4	5	5 plus 9 10 11	6	7	8	9 11	10 12
Class	Conveyor model	Nominal filtration	Filtration	Turnings and/ or nested chips	Short chips	Short chips	Short chips with some long strings	Grinding sludge (small chips)	Short chips	Small fines	Short chips	Long Strings
Standard Conveyors	Hinge Belt conveyor	--	--	Good	Good	Fair	Fair	Fair	Good	X	Fair	Good
	Clean-Sweep-RM	250 micron	Screen box	Better	Better	Good	Good	Fair	Better	X	Better	Better
	Drag conveyor	--	--	X	Good	Fair	X	Fair	Good	X	Fair	X
Separator Conveyors	MagSep	98% by weight	Magnets	X	X	Best	X	Better	X	X	X	X
	ConSep 2000II (single belt)	50 micron	Drum filter	Best	Best	Better	Better	Good	Best	X	Best*	Best
	ConSep 2000 (dual belt)	50 micron	Drum filter	Best	Best	Better	Better	Good	Best	X	Best	Best
	ConSep Flex (dual Belt)	50 micron + 98% by weight	Drum filter + magnets	Best	Best	Best	Best	Better	Best	X	Best	Best
Filters	HPF	20 - 30 micron	Disposable Media	✆	✆	✆	✆	Best	✆	Best	✆	✆
	VacuFilter	10 - 20 micron	Disposable Media	✆	✆	✆	✆	Best	✆	Best	✆	✆

X NOT RECOMMENDED

✆ Contact Mayfran for more information

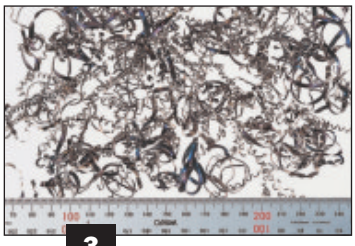
NOTES: 1) The selection chart assumes chips will be processed with water-soluble coolant. 2) Short chips are defined as chips less than 2" in length that do not ball-up. 3) Hard turn package is available when machining a hard or abrasive material. 4) Contact Mayfran for information regarding dry chip processing. *For high chip or coolant volume applications for this material and chip type, Mayfran recommends the dual belt ConSep 2000 in lieu of the ConSep 2000II.



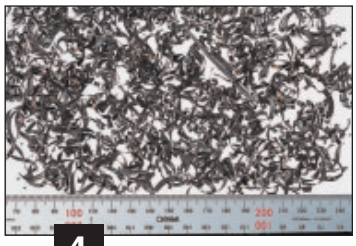
1 STEEL BORINGS



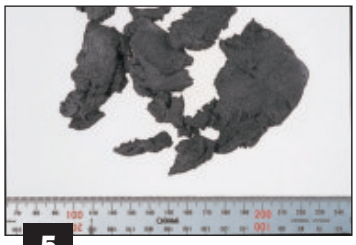
2 STEEL TURNINGS



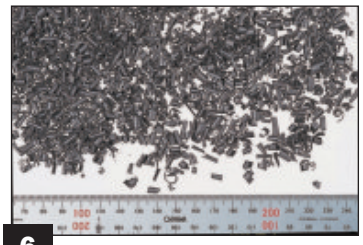
3 STEEL TURNINGS



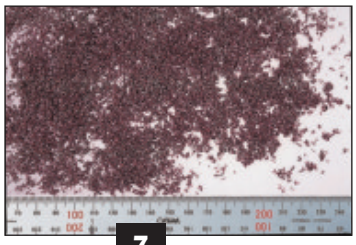
4 STEEL MILL CHIPS



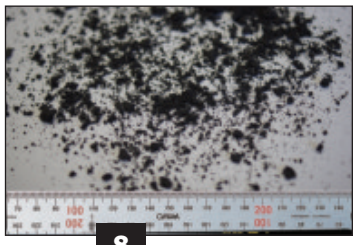
5 CAST OR DUCTILE IRON



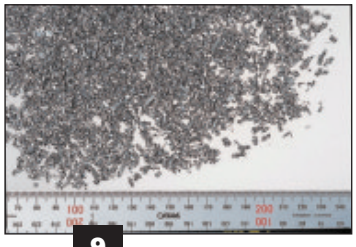
6 HARDENED STEEL GRINDING



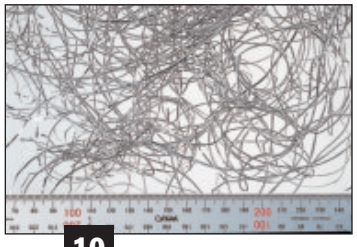
7 BRASS



8 COMPOSITE



9 ALUMINUM



10 ALUMINUM



11 ALUMINUM



12 ALUMINUM

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FILTRATION SELECTION GUIDE

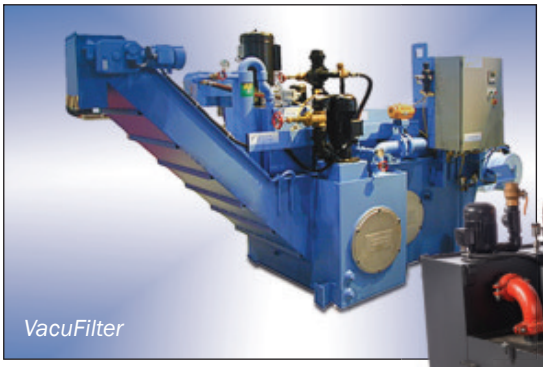
MATERIAL				STEEL, STAINLESS STEEL, IRON, ALUMINUM, OTHER ALLOYS	STEEL, STAINLESS STEEL, IRON, ALUMINUM, OTHER ALLOYS	MILD STEEL, CAST IRON	COMPOSIT	ALUMI-NUM	STEEL	STEEL, STAINLESS STEEL, IRON, ALUMINUM, OTHER ALLOYS
APPLICATION				**Grinding**	**Super Finishing**	**Honing**	**Machining**	**High Speed Milling**	**Deep Hole Gun Drilling**	**Parts Washing, Quenching, Induction Hardening, Drawing**
Barrier Filters	Drum Filter (1,3)	50 micron	Endless Belt	X	X	X	X	X	Good	Good
	HPF (1,2,3)	20-50 micron	Paper	Good	Good	Good	Better	Better	Better	Better
	VacuFilter (1,3)	10-30 micron	Paper	Better	Better	Better	Best	Best	Best	Best
	Pressure Filter (1,2,3)	8-20 micron	Endless Belt/ Disposable Media	Best	Best	Best	X	X	X	X
Sepa-ration Filters	AT Cleaner (2,3,4)	Down to 10 micron	Centrifuge	Good	Good	Good	X	📞	📞	📞
	Bar Mag (1,2,3,5)	20 micron	Magnet	Good (5)	Good (5)	Good (5)	X	X	📞	📞
	SSAT (3,4,5)	Down to 10 micron	Magnet/ Centrifuge	Better	Better	Better	X	X	📞	📞

X NOT RECOMMENDED

📞 Contact Mayfran for more information

NOTES:

1) The selection chart assumes chips will be processed with water-soluble coolant or straight oil.
2) Bulk material must be removed before filter.
3) Consult Mayfran for final application selection.
4) Water-soluble coolant only.
5) Ferrous material only.

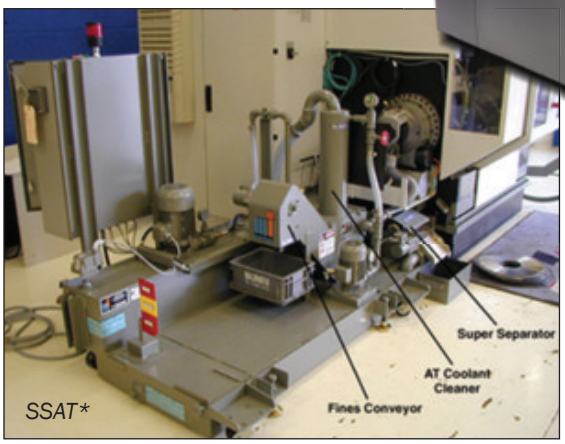


VacuFilter

Hydrostatic Paper Filter (HPF)



*AT Cleaner**



*SSAT**



Drum Filter

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