



**CMC TEXPAN**

Machinery and Technology

# MAGNETIC SEPARATORS

Wood particle flows free from ferrous  
and non-ferrous impurities





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CMC TEXPAN can propose several solutions for the removal of metal (ferrous and non-ferrous) contaminants, based on different principles of operation, hence suitable for various fields of application.

## MAGNETIC DRUMS

The machine consists of a rotating drum out of stainless steel. The drum includes a fixed shaft holding a half moon magnet element made of a soft iron support, onto which neodymium permanent magnets are fitted.

As the drum rotates, wooden material will be conveyed towards a discharge hopper, while ferrous components will be retained on the drum surface until they are in the area equipped with the magnet element located inside, and they will then be released when they reach the non-magnetized area, so as to be discharged through the relevant hopper.

## DEFERRIZING UNITS

These systems include a feeding unit (which may be a vibrating feeder), a bottom belt conveyor provided with a front magnet pulley, a rotating upper belt with fixed magnetic plates installed inside the belt and a discharge unit for the removed metals. The system offers high efficiency and reliability, easy installation and low maintenance effort.

## NEODYMIUM CAGE

This is a rotating unit including special neodymium rods. It can be fitted into the discharge chute of metering bins or of belt scales. The system represents an outstanding solution for the removal of small ferrous metal parts and dust: it is meant for installation after a conventional ferrous metal removal system.

## NON-FERROUS METAL SEPARATORS

The principle of operation of this special magnetic system is based upon eddy current induction.

The unit consists of a group of neodymium rods rotating at a very high speed and enclosed in a special insulating drum. The magnetic field generated by the rotation of the neodymium rods rejects any non-ferrous metal parts (aluminium, copper, brass...), but can detect also small ferrous metal parts and dust: it is also meant for installation after a conventional ferrous metal removal system.





MAGNETIC DRUMS - STANDARD RANGE					
TYPE	Drum magnet		Available magnetic system	Capacity m <sup>3</sup> /h	Install. power kW
	Diameter mm	Length mm			
SM 400 x 700	400	700	SNT (ferrite) HG (High Gradient) VHG (Very High Gradient) UHG (Ultra High Gradient)	75	1,1
SM 400 x 1.000	400	1.000		100	1,1
SM 400 x 1.500	400	1.500		155	1,1
SM 500 x 1.000	500	1.000		125	1,1
SM 500 x 2.200	500	2.200		270	1,5
SM 600 x 2.200	600	2.200		330	1,5

MULTI MAGNETIC DRUMS - STANDARD RANGE					
TYPE	Drum magnet		Available magnetic system	Capacity m <sup>3</sup> /h	Install. power kW
	Diameter mm	Length mm			
SM3 320 x 600	320	600	SNT (ferrite) HG (High Gradient) VHG (Very High Gradient) UHG (Ultra High Gradient)	90	3 x 0,75
SM3 500 x 850	500	850		210	3 x 0,75
SM3 500 x 1.100	500	1.100		270	3 x 1,5
SM3 500 x 1.300	500	1.300		330	3 x 1,5
SM3 500 x 1.600	500	1.600		430	3 x 1,5

OVERBELT MAGNETS - STANDARD RANGE					
TYPE	Plate magnet		Available magnetic system	Capacity m <sup>3</sup> /h	Install. power kW
	Width mm	Length mm			
SMO 1 x 1.350	1.050	1.350	HG (High Gradient) VHG (Very High Gradient) UHG (Ultra High Gradient)	100	2,2
SMO 1 x 1.750	1.050	1.750		180	2,2
SMO 1 x 2.200	1.050	2.200		230	2,2

DEFERRIZING UNITS - STANDARD RANGE					
TYPE	Type of assembly		Available magnetic system	Capacity m <sup>3</sup> /h	Install. power kW
	Belt + pulley	Overbelt			
SMP 100	1.000 + 450	SMO 1 x 1.350	HG + VHG HG + UHG	100	2,2+2,2
SMP 180	1.500 + 450	SMO 1 x 1.750		180	3,0+2,2
SMP 230	1.900 + 450	SMO 1 x 2.200		230	3,0+2,2

NON FERROUS METAL SEPARATORS - STANDARD RANGE					
TYPE	Belt size		Available magnetic system	Capacity m <sup>3</sup> /h	Install. power kW
	Width mm	Length mm			
NFS 100/250	1.000	2.600	Special induction drum (Neodymium)	80	2,2 + 4,0
NFS 130/250	1.300	2.600		100	3,0 + 5,5
NFS 150/250	1.500	2.600		130	3,0 + 5,5
NFS 175/250	1.750	2.600		150	3,0 + 7,5
NFS 200/250	2.000	2.600		180	3,0 + 7,5

Above data are non-binding and they are provided for information purposes only.



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