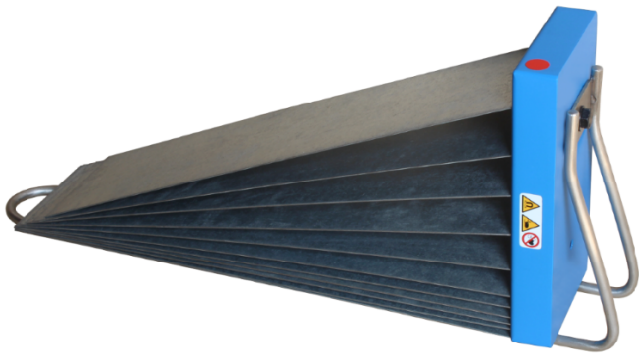
MAGNETIC SHEET FLOATERS

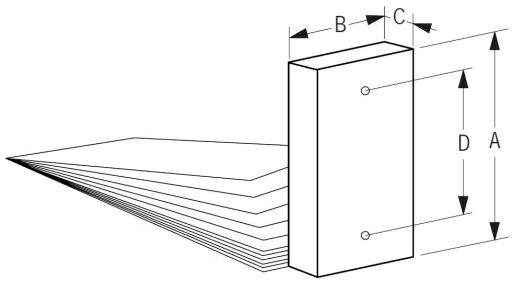
Magnetic sheet floaters are used for lifting steel sheets from a pile and holding them suspended in the air. The sheets are separated from each other by positioning magnetic blocks specially designed for this purpose at one or more sides of the pile sheets.

They are especially suitable for manual or automatic feeding of machines.

These floaters consist of a stainless steel casing with an anisotropic magnet system installed inside. The casing and the magnets are held in position with a steel backplate. Each unit can be mounted on the workplace or can be free standing.

When the pile of sheets are introduced into the magnetic field (on the operative face of the magnet), the sheets automatically take up their individual positions. The explanation is simple and interesting. Magnetic poles are induced in the steel sheets, and in accordance with the laws of magnetism, opposite poles repel making the sheets separate.





CHOOSING THE RIGHT FLOATER

Choosing the right floater depends on the following factors:

1. Thickness of the sheet
2. Dimensions of the sheet
3. Height of the pile
4. Surface quality of the sheet
5. Sheet conditions (humidity, oil,...)

To select the floater the following guidelines are suggested:

THICKNESS OF THE SHEETS TO BE SEPARATED	TRANSVERSAL SECTION OF THE FLOATER		
	B	C	A
Until 0,7mm	75	30	Height of the separator has to exceed sufficiently the height of the sheets stack
Until 1 mm	105	30	
Until 2mm	105	50	
Until 4mm	180	90	
Until 6mm	280	95	

The floater must be higher than the pile of sheets in order to achieve the correct separation.

Maximum surface to separate per floater:

For normal sheets up to 0.3 m²
For sheets with oil up to 0.15 m²

If the sheets are to be removed with an automatic process more separators will be needed around the pile.

Magnetic sheet floaters with ceramic magnets

CODE	A mm	B mm	C mm	FIXING HOLES	D mm	WEIGHT Kg
* 20.24.001	75	75	30	2 M-8	50	1,0
* 20.24.002	275	75	30	2 M-8	250	3,7
* 20.24.003	340	75	30	2 M-8	250	4,5
* 20.24.004	105	105	30	2 M-8	50	1,9
* 20.24.005	210	105	30	2 M-8	100	3,9
* 20.24.006	310	105	30	2 M-8	200	5,7
* 20.24.007	340	105	30	2 M-8	250	6,3
* 20.24.008	145	105	50	2 M-8	100	3,8
* 20.24.009	210	105	50	2 M-8	100	5,6
* 20.24.010	280	105	50	2 M-8	200	7,4
* 20.24.011	310	105	50	2 M-8	200	8,2
* 20.24.012	345	105	50	2 M-8	250	9,2
* 20.24.013	410	105	50	3 M-8	150	10,9
* 20.24.014	445	105	50	3 M-8	150	11,8
* 20.24.015	510	105	50	3 M-8	200	13,6
* 20.24.016	610	105	50	4 M-8	150	16,2
* 20.24.017	765	105	50	4 M-8	200	20,3
20.24.018	280	180	90	2 M-12	200	23,5
20.24.019	400	180	90	3 M-12	150	33,5
20.24.020	345	280	95	3 M-12	100	43,5
20.24.021	545	280	95	4 M-12	150	69,0
20.24.022	610	280	95	4 M-12	150	77,5
20.24.023	815	280	95	4 M-12	200	103,0

*Also with Neodimium magnet. Please, consult.
Other dimensions under request.