

Load Lifting Beams with patented full steel EPMagnet Modules

The EPMagnet modules are switched by mains power supply. They combine the safety of permanent magnets with the convenience of electromagnets. Sheets from 5 mm thickness can be destacked.

Magnetizing and demagnetizing of the EPM lifting system can happen manually or by radio remote control. For uneven sheet formats the EPMagnet modules are equipped with spring suspensions.

The EPMagnet modules are integrated in a magnet unit, which is fixed to the beam.



Application

- ▶ Especially for sheet lifting
- ▶ Destacking by remote control
- ▶ For loading or deloading flamecut systems on trucks
- ▶ More flexibility with telescopic beams
- ▶ For feeding and clearing of flame-cutting-/laser systems, also in multi-shift operation
- ▶ Optional: EPMagnet modules for horizontal and vertical transport





Assfalg designs up on request

Features

- ✔ EPM lifting system is ready for use up to the crane hook
- ✔ Power supply is 400V / 50-60Hz / 16A or 32A
- ✔ Lamp and buzzer indicates the magnetization and demagnetization process
- ✔ Picking up is done with 70% power and automatically increased to 100% after 10 seconds
- ✔ Accidental demagnetization during lifting is prevented by ADPREM safety mechanism
- ✔ Different magnetic zones can be selected according to sheet size
- ✔ Low energy load consumption because of pulse current for switching
- ✔ No drop of load when power supply fails

Options

- ✔ Customized beam and EPMagnet modules
- ✔ Triggering of each EPMagnet module
- ✔ Special safety features for automation
- ✔ Integration of load cells and magnet flow sensors



Overhang table for safe load transport

Thickness of the steel plate (mm)	4	5	7	8	10	12	15	18	20
Max. overhang of the steel plate (mm)	1100	1350	1500	1550	1550	1950	2150	2550	2700

Load Lifting Beams with patented full steel EPMagnet Modules TBK4 | TBK6

The electro-permanent telescopic lifting beams TBK4 and TBK6 are designed for lifting and transporting sheets of different sizes from 3m to 16m.

The patented solid steel modules allow destacking from 5mm thickness by radio remote control.

Magnetic zones and power level can be preselected according to sheet size. The EPMagnet modules are equipped with spring suspensions to balance unevenness of sheets.



Application

- ▶ For large sheets
- ▶ Destacking by inching function on remote control
- ▶ Horizontal rotation of EPMagnet units if small long sheets are lifted
- ▶ No drop of sheet when power supply fails
- ▶ Low energy consumption, because of pulse current for switching
- ▶ Customized options





Technical Data TBK4

	Load SWL 3:1	Min. thickness	Length min. - max.	Width min. - max.	Weight	No.
	Fh [kg]	[mm]	[mm]	[mm]	[kg]	
TBK4 / 75	7 500	5	3 000 - 12 000	500 - 2 500	3 000	on request
TBK4 / 100	10 000	5	3 000 - 12 000	500 - 3 000	3 000	on request
TBK4 / 120	12 000	5	3 000 - 12 000	500 - 3 000	3 000	on request
TBK4 / 140	14 000	5	3 000 - 12 000	500 - 3 000	3 000	on request
TBK4 / 180	18 000	5	3 000 - 12 000	500 - 3 000	3 000	on request

Technical Data TBK6

	Load SWL 3:1	Min. thickness	Length min. - max.	Width min. - max.	Weight	No.
	Fh [kg]	[mm]	[mm]	[mm]	[kg]	
TBK6 / 100	10 000	5	2 800 - 16 000	500 - 2 500	4 500	on request
TBK6 / 140	14 000	5	2 800 - 16 000	500 - 3 500	4 500	on request
TBK6 / 180	18 000	5	2 800 - 16 000	500 - 3 500	4 500	on request
TBK6 / 200	20 000	5	2 800 - 16 000	500 - 3 500	4 500	on request
TBK6 / 240	24 000	5	2 800 - 16 000	500 - 3 500	4 500	on request