

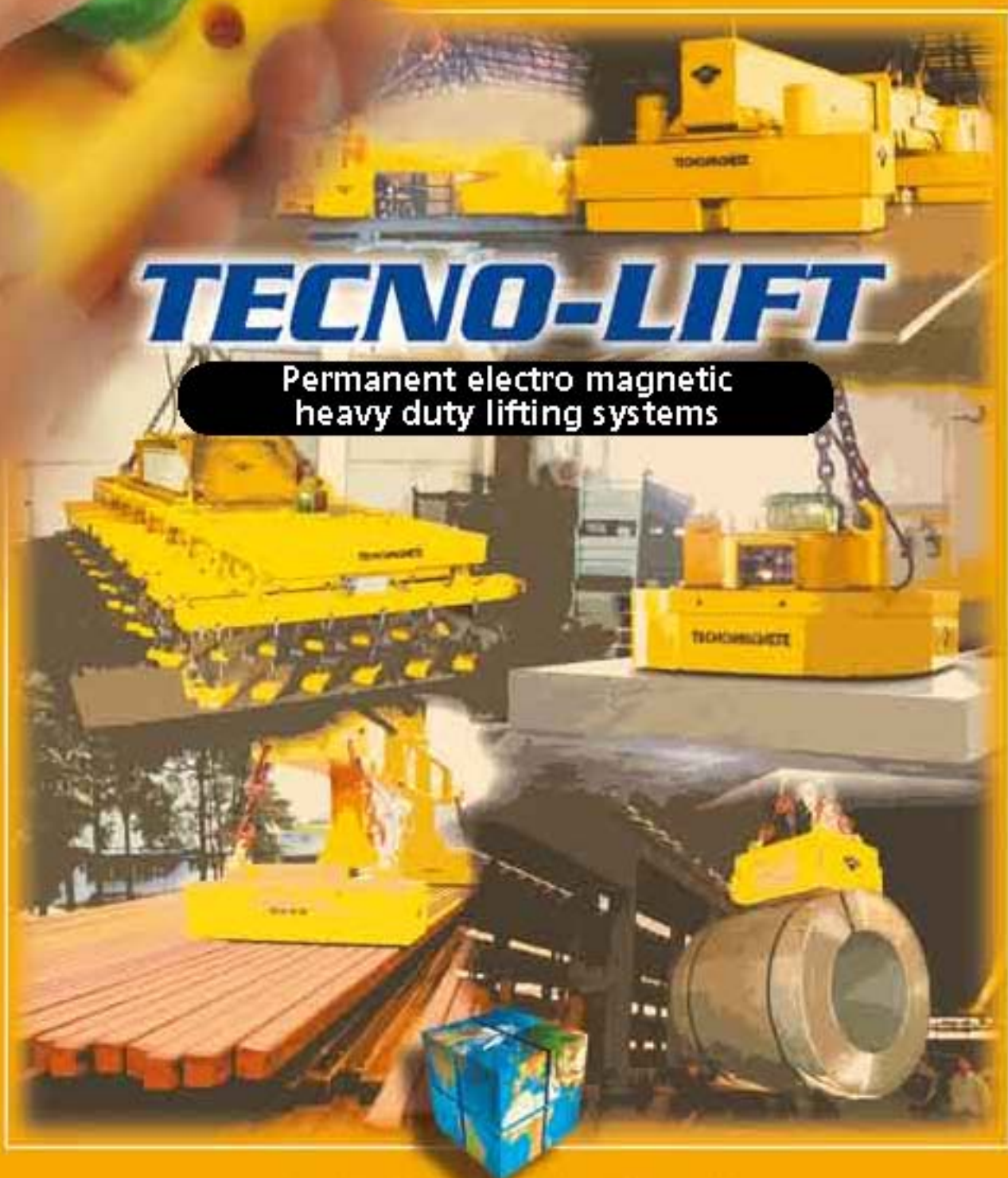
DEMAG

MAG

*With a simple touch
Great savings
and more safety*

TECNO-LIFT

Permanent electro magnetic
heavy duty lifting systems



TECNOMAGNETE®

Safety through power

TECNO-LIFT

The most intelligent way to move ferrous loads

Magnetism is the smartest way of handling ferrous loads. Tecnomagnete has continuously researched and developed permanent-electro magnets for 30 years, the only technology that combines safety, strength, convenience and power savings.

Tecnolift systems can handle loads with extreme easiness in the minimum area. They are efficient because they always operate from the top without compressing or deforming the load. The floor space is optimized as no empty areas are required around or in between the loads to get access for their pick up.

No other solution can grant the same level of performances and practical use.

TECNO-LIFT is the ideal solution for steel structural works, distribution and storage, service centers, metalworkings, shipbuildings, surface treatment and for all modern industries interested in increasing the efficiency of production process.



Quadsystem technology. Power and safety to square.

Quadsystem permanent-electro circuit: the power of an electromagnet joined to the independence of the permanent magnet.

The technology of the double magnet uses electrical power only for few seconds in activation "MAG" and deactivation "DEMAG" cycles.

Tecnomagnete designed and patented this unique and totally innovative technology, where the clamping surface is composed by square poles in chess-board disposition, able to generate great power exactly and only where it is needed: into the load.

The patented "neutral crown" guarantees a perfect insulation of the permanent magnets, avoiding any power losses and interferences with other metallic objects nearby.

Permanent safety

A permanent electro system is intrinsically safe being not affected by any electrical power failure.

No battery back up system is required. The high energy coming from the permanent magnets keeps the load safely clamped with constant force for indefinite period of time and it can be released only on the ground. The maximum safety level for the operator and for the machinery is granted, always!



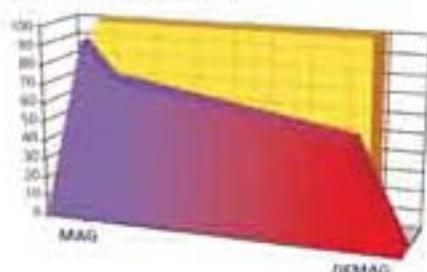
Easy to use and convenient

One single operator with a remote control can perform all picking-up, lifting, handling and releasing operations always staying at safe distance from the load.

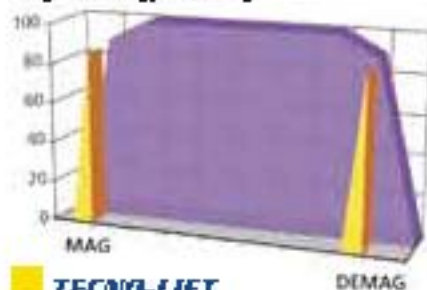
No other manpower is required near the load. No other safety tools, belts, chains need to be managed and maintained.

Advantages versus the traditional electro-magnetic technology

Constant strength



High energy saving



TECNO-LIFT

Electro magnet
Heating effect with electro magnet

Tecnolift permanent electro technology is a great leap ahead compared to the traditional electro magnetic lifters:

In performance: TECNOLIFT is a cold system due to the absence of heat generation inside the magnets. The clamping force remains constant unlike the traditional electromagnets that are affected by the overheating of the coils in constant use.

In energy saving: TECNOLIFT needs electrical supply only for few seconds, during the MAG and DEMAG phases. The electrical consumption is 95% less compared to a traditional electromagnet.

In operational costs:

The robust solid block construction of Tecnolift magnetic modules with no moving parts inside, no stress and no overheat in the magnet coils can grant a long reliability without specific maintenance. The expensive back up maintenance is also avoided.

In the production process:

TECNO-LIFT doesn't leave residual magnetism in the load. All problems caused normally by the residual magnetism on welding or precision machining operations are eliminated.

Flux concentration for a precise lifting

The Quadsystem technology allows to short circuit the magnetic flux within a very small depth making possible to lift one steel plate only even when limited thickness are involved.



Load stability

and compactness.

The traditional wooden spacers between loads are no more necessary. The load condition is more compact, less overall size and, with no deformation it is more stable during the transportation.

Tailored Solutions

Tecnolift systems are designed and built to be compact, light weight, powerful and reliable.

The vast array of standard models provides various characteristics of polar geometry and magnetic strength to achieve the correct performance with relation to the load type to be handled (plates, blocks, slabs, profiles, coils, etc...)

All standard Tecnolift systems grant a safety factor of 1:3 between the weight of the load at its operative air-gap and the relevant magnetic force of the lifter.

Certified Quality

The Tecnolift systems respect the most common international norms. (UNI-EN 13155:2004). Manufacturing quality control, operating safety and constant performances are tested and certified.



Sheet handling

Telescopic beams

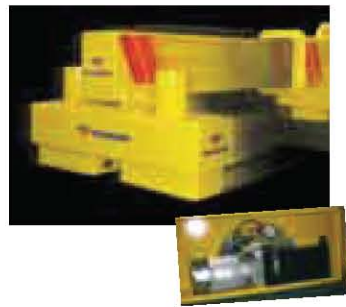
Plates, especially large ones, are particularly difficult load to handle. When attempting to move with traditional methods (hooks, chains, cables) the plates have a tendency to flex and deform, making the grip on the load unstable and dangerous.

The TM series beams pick up the load uniformly from above, without deformations or damage to the load. Specific selection of the thickness is possible even via radiocontrol to pick up single plate.

TM 4 series

For single plate handling up to 12m.
Version with 4 cross beams with 2 modules each

The Telescopic Movement



The ability to lengthen or shorten the center distance between cross beams and select the modules to magnetize, make the TM beams extremely flexible to use. The telescopic movement is actuated by a dedicated hydraulic pump; the movement of the telescopic arms allows the handling of a complete range of big plates.



- medium plates: activate all the cross beams with the side modules in the closed position
- long plates: activate all the cross beams and extend the arms to the maximum opening
- narrow plates: activate only the left or right side modules

Modules Selection

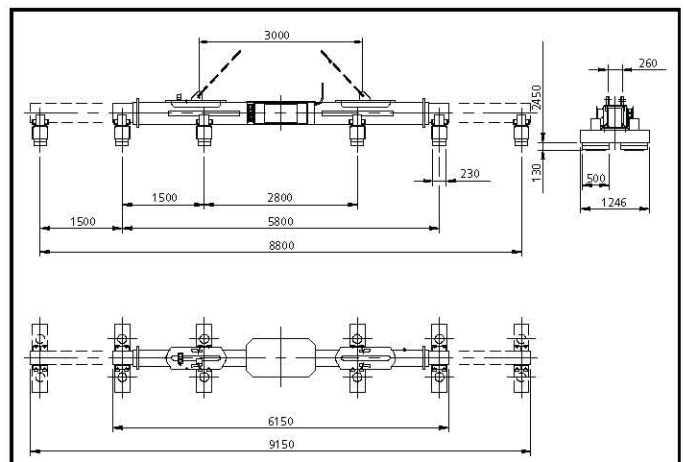
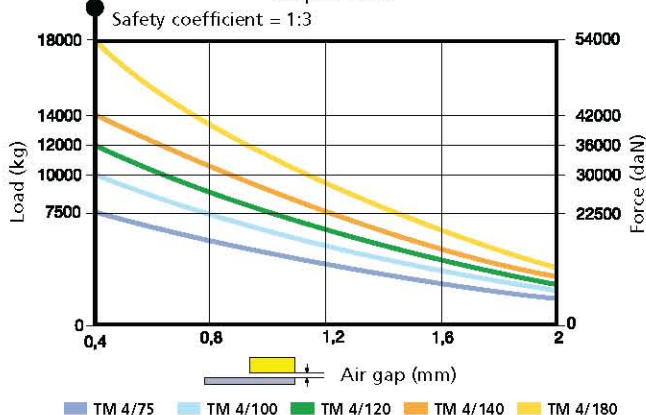
It is possible to lift loads of various lengths, by simply selecting the magnetic modules necessary:

- shorter plates: activate only the center cross beams, excluding the others

Model TM 4/N	beam weight kg	Load Characteristics					
		thickness. min. mm	length min. mm	max mm	width min. mm	max mm	rated lift capacity max kg
TM 4/75 N	3000	5	3000	12000	500	2500	7500
TM 4/100 N	3000	5	3000	12000	500	3500	10000
TM 4/120 N	3000	5	3000	12000	500	3500	12000
TM 4/140 N	3000	8	3000	12000	500	3500	14000
TM 4/180 N	3000	8	3000	12000	500	3500	18000

Air Gap Curve

on flat surface in "Fe" minimum thickness 30mm with all poles covered.
Temp. < 100°C





TM 6 series

For handling single plates up to 16m.
Version with 6 cross beams with 2 magnetic modules each

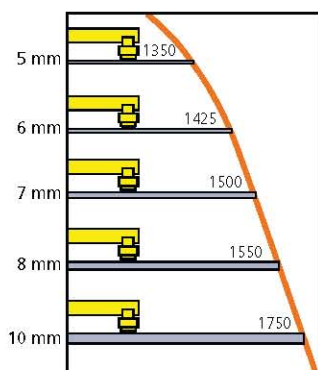
Whip Chart

The TECNO-LIFT lifting systems are designed with rigid structural characteristics and with a specific magnetomotive force coefficient (MMF) to guarantee handling even with significant values on the whip chart.



With the TECNO-LIFT systems it will be always possible to obtain the utmost performance in terms of load capacity and size, as specified in the technical specifics of these tables and performance tags on the lifters.

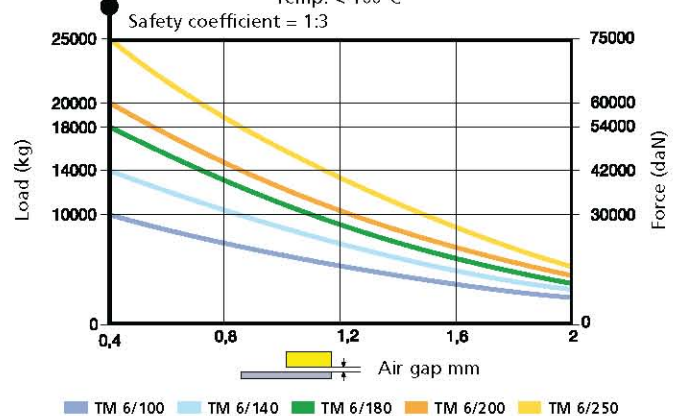
TM beams are available in TG version (6 or 8 cross beams) to handle sheets with thickness from 4 mm and capacity up to 10.000 kg.



Allowed whip chart values: the relationship between the end of the load ("wing") and the thickness of the same piece.

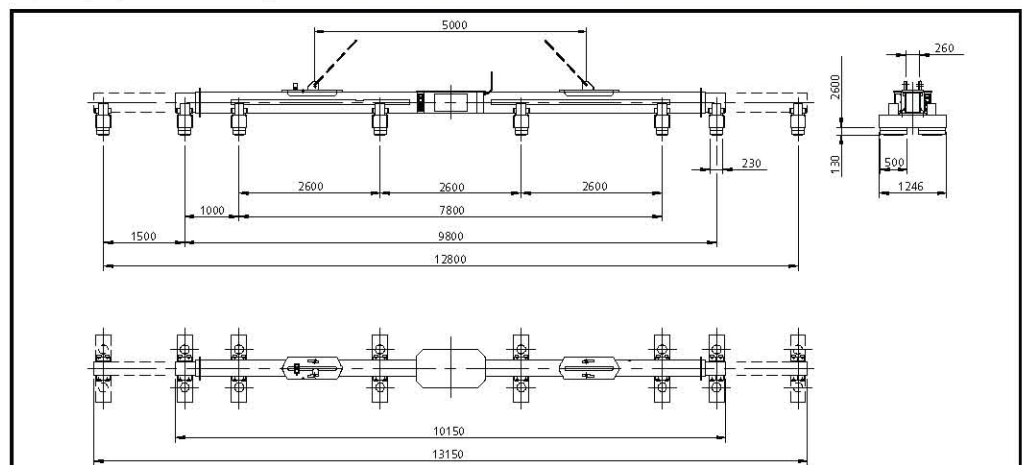
Air Gap Curve

on flat surface in "Fe" minimum thickness 30mm with all poles covered.
Temp. < 100°C



Load Characteristics

Model	beam weight	thickness.	length	width	rated lift
TM 6/N	kg	min. mm	min. mm	min. mm	capacity max kg
TM 6/100 N	4000	5	2800	500	10000
TM 6/140 N	4000	5	2800	500	14000
TM 6/180 N	4000	5	2800	500	18000
TM 6/200 N	4000	8	2800	500	20000
TM 6/250 N	4000	8	2800	500	25000



Sheet handling



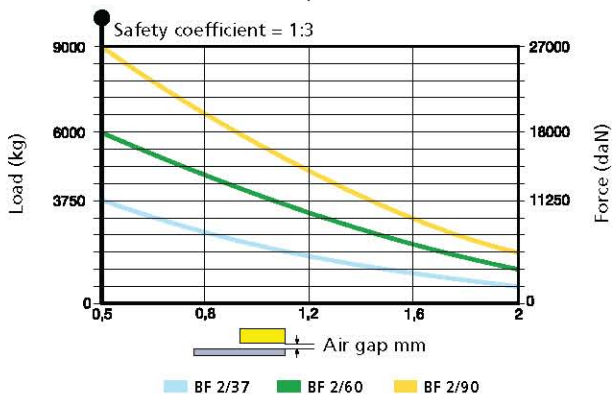
BF 2 Fixed Beam

For plates handling with a maximum length of 6 m.
2 cross beams with 2 magnetic modules each

They have the same characteristics as the TM series, but the 2 cross-beams are at fixed distance.
This system is used when the plates come in constant sizes and do not require the telescopic device.

Air Gap Curve

on flat surface in "Fe" minimum thickness 30mm with all poles covered.
Temp. < 100°C



Model	beam weight kg	Load Characteristics						rated lift capacity max kg
		thickness min. mm	length max mm	width min. mm	width max mm			
BF 2/37	1300	5	3200	500	2500			3700
BF 2/60	1300	5	3200	500	3500			6000
BF 2/90	1300	8	3200	500	3500			9000

GTR Magnetic Cross-beams

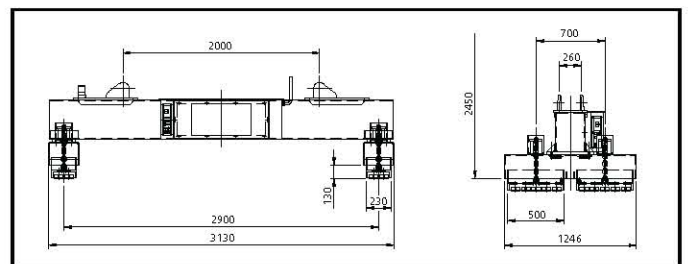
The magnetic cross-beams come separate without beams in sets of 4 or 6 (respectively GTR 4/N and GTR 6/N) complete with controller and accessories, ready to be installed on existing beams.
Magnetically equivalent to TM 4/N and TM 6/N

Model	weight kg	Load Characteristics						rated lift capacity max kg
		thickness min. mm	length max mm	width min. mm	width max mm			
GTR 4/75 N	1040	5	12000	500	2500			7500
GTR 4/100 N	1040	5	12000	500	3500			10000
GTR 4/120 N	1040	5	12000	500	3500			12000
GTR 4/140 N	1040	8	12000	500	3500			14000
GTR 4/180 N	1040	8	12000	500	3500			18000

BF /TG version available for loads with thicknesses from 1,5 mm



BFS with multiple cross beams for standard strips handling



Model	weight kg	Load Characteristics						rated lift capacity max kg
		thickness min. mm	length max mm	width min. mm	width max mm			
GTR 6/100 N	1560	5	16000	500	2500			10000
GTR 6/140 N	1560	5	16000	500	3500			14000
GTR 6/180 N	1560	5	16000	500	3500			18000
GTR 6/200 N	1560	8	16000	500	3500			20000
GTR 6/250 N	1560	8	16000	500	3500			25000

**TECNOMAGNETE**

TB Tilting beams

For handling single plates up to 12 m. long in vertical or horizontal position.

The fix beam with the simple and effective tilting system of the magnetic modules is the perfect solution for operations where vertical axis plates need to be placed in a horizontal axis or vice versa (typically from storage to a cutting table, laser plasma, etc...)

Supplied with a special radio remote control "belt use" R/CB.



Model TB	Load Characteristics				rated lift capacity max kg
	thickness min. mm	length min. mm	max mm		
TB 4/35	4	2500	6000		3500
TB 4/100	5	3000	12000		10000
TB 6/35	4	2500	12000		3500

Fix beams for cutting systems

For handling single plates and skeletons after the cutting operation is completed.

TT modular systems are tailor made by designing them to the size of the plate and the cut pieces.

They allow easy and fast loading & unloading operations on any type of cutting machines (plasma, oxyacetylene, laser, high definition). In particular they free the bench from cut plate and skeleton in a single move to make the machine immediately available.

Other versions:

TT/L for laser cutting systems; minimum piece size 70x70 mm, min thickness 2 mm.

TT/H for heavy weight pieces



TT 10 Standard model for any sheet surface with a minimum piece size of 300x300 mm. and a thickness between 4 and 25 mm.

Model TT 10	weight kg	Load Characteristics					rated lift capacity max kg
		piece min mm	thickness min - max mm	length max mm	width max mm		
TTO /045	1850	300x300	4 - 25	1500	3000		1000
TTO /060	2200	300x300	4 - 25	1500	4000		1200
TTO /080	2900	300x300	4 - 25	2000	4000		2000
TTO /100	3400	300x300	4 - 25	1500	6800		2000
TTO /120	3800	300x300	4 - 25	2500	5000		3000
TTO /150	4900	300x300	4 - 25	2500	6000		3000

Block handling



SML single modules

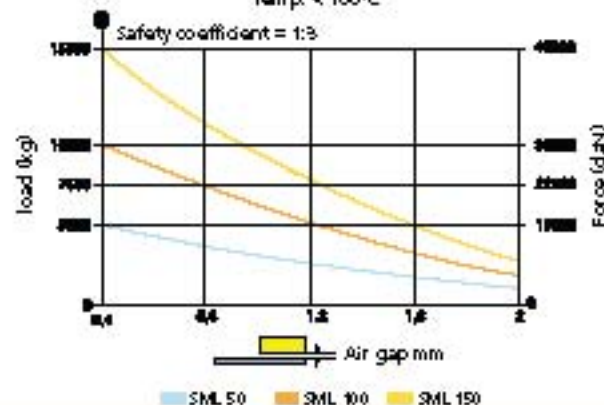
For handling single plates or semi finished blocks.

SML permanent electro-magnetic modules are the ideal answer for handling blocks with limited air gap.

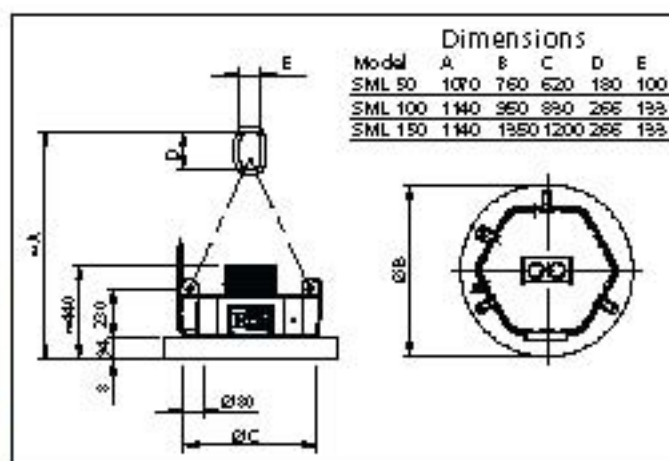
- Excellent ratio between weight of the lifter and its capacity.
- Multipole circuit to uniformly spread the force across the working area.



Air Gap Curve
on flat surface in 'Fe' minimum thickness 30mm with all poles covered
Temp. < 100°C



Model SML	module weight kg	thickness mm	Load Characteristics				rated lift capacity max kg
			length min. mm	length max. mm	width min. mm	width max. mm	
SML 50	500	8	1000	5000	1000	2500	5000
SML 100	700	8	1000	5000	1000	2500	10000
SML 150	1000	8	1000	5000	1000	2500	15000



SMH single modules

For handling single thick slabs and forged blocks.

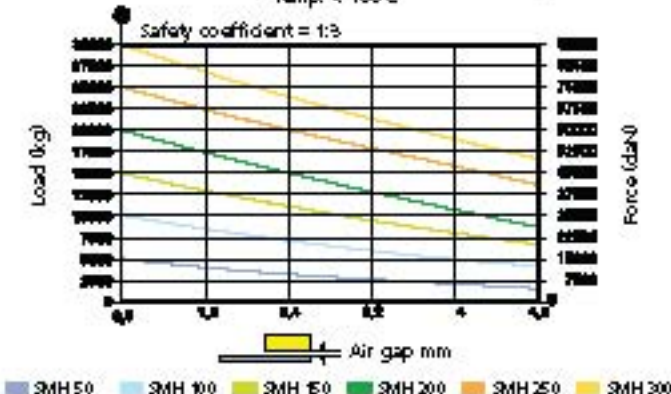
SMH permanent electro-magnetic modules are designed for lifting loads with big operational air gaps.

- 4-pole circuit for high force concentration.
- High magnet strength.



Air Gap Curve

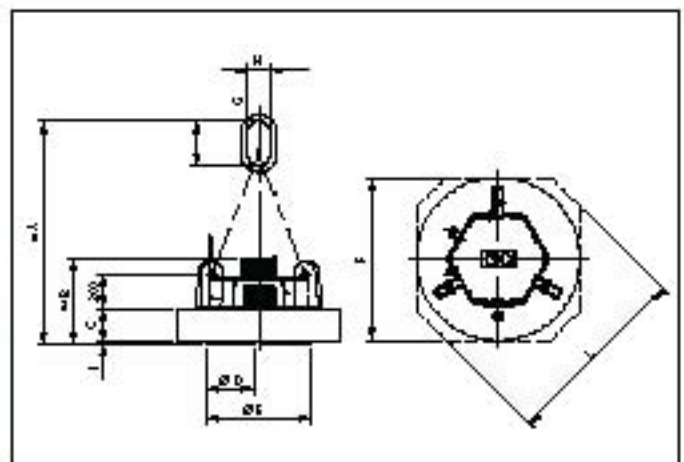
on flat surface in "Fe" minimum thickness 100 mm with all poles covered
Temp. < 100°C



Dimensions mm

Model	A	B	C	D	E	F Ø	G	H	I	L
SMH 50	1285	505	155	138	462	800	180	100	15	
SMH 100	1545	531	181	242	560	880	266	133	15	
SMH 150	1575	563	213	280	626	960	266	133	15	397
SMH 200	1760	577	227	320	706	980	304	152	15	1117
SMH 250	1790	637	280	350	770	1100	355	177	18	
SMH 300	1790	625	272	374	814	1147	355	177	18	1311

Model SMH	module weight kg	Load Characteristics					
		thickness min.	length min.	max. mm	width min.	max. mm	rated lift capacity max kg
SMH 50	610	30	1000	6000	1000	2500	5000
SMH 100	960	30	1000	6000	1000	2500	10000
SMH 150	1300	40	1000	6000	1000	2500	15000
SMH 200	1750	40	1000	6000	1000	2500	20000
SMH 250	2150	80	1000	6000	1000	2500	25000
SMH 300	2700	80	1000	6000	1000	2500	30000

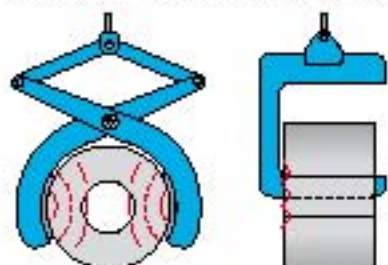


Coils - Billets and Slabs handling



The TECNO-LIFT line provides a vast array of solutions dedicated for the handling of compact coils of various morphology and dimensions, without weight limitations.

TECNO-LIFT always comes in contact with the material surface gently from the top, without compression or deformations.



TECNO-LIFT avoids all the problems associated with conventional methods of lifting represented by clamps and C-hooks which require constant pressure on the load.



CH

Modules for handling cold-rolled coils with a horizontal eye. Complete with automatic load-centering system.

CV/T

Modules for handling cut coils, vertical eye (slitting lines).



CV

Modules for handling cold-rolled coils, vertical eye.



CO

Modules for handling open coils, vertical eye (an annealing process).



Model CV/T	weight kg	Load Characteristics			
		Ext Ø min- max mm	Int Ø max mm	Height min- max mm	rated lift capacity max kg
CV/T 10	500	560-1000	460	140-300	1000
CV/T 15	565	800-1300	610	50-250	1500
CV/T 30	610	600-1150	508	20-500	3000
CV/T 40	1200	800-1450	508	30-500	4000
CV/T 50	1500	800-1800	508	30-500	5000



TECNOMAGNETE



BL

Permanent-electro magnetic modules for handling layers of billets up to 600° C – in the core.

Versions:

BL / S single module for billets up to 6.000 mm length

BL / D double modules for billets up to 12.600 mm length



BR

Modules for handling slabs
Typical application: on harbour cranes, to load/unload ships.

Versions:

BR / S single module for slabs with length 1.000 - 8.000 mm

BR / D double modules for slabs with length 6.000 - 12.000 mm

BR / W "twin" module with mechanical auto-levelling system for loads 6.000 - 12.000 mm length



BAT GRIP

3 Ton capacity permanent-electro lifters with battery.

Equipped with a remote control, this lifter is capable to be used for a long period independent of the power supply (est 7 days), because the energy is only used for a fraction of a second during the MAG/DEMAG phase.

Sections - Rails - Profiles - Rounds - Pipes - Tanks



RD

Modules for lifting rounds.

For the movement of round loads only. The modules "V" groove design adapts to the morphology of the load allowing the centering of the module on the load during clamping phase.

Model RD	weight	Load Characteristics		
	kg	Diameter min - max mm	length min - max mm	rated lift capacity max kg
RD 20	300	280-400	800-2000	2000
RD 30	770	100-350	1000-6000	3500
RD 60	970	350-810	1000-2000	6000
RD 80	1450	300-700	1000-5000	8000
RD 100	2400	310-1000	600-7000	10000
RD 150	2700	310-1200	600-7000	15000



RDP version available for polygonal and irregular shape loads

CS

Modules for lifting tanks.

For the movement of round loads of oversized dimensions and thin wall thickness. Tailor made solutions for the movement of tanks, containers, in total safety without deformation of the load.



TU

Modules for lifting tubes - round and square.

For the lifting of layers of tube without welding and round loads of various types



TP

For handling beams and profiles.

Modular systems combining the benefits of safe lifting, compactness and convenience. Their specific and unique pole design permits the rotation of the load on the ground for the inspection or for the storage in the correct position between the racks.

Model TP	weight kg	Load Characteristics		
		HEA - HEB - IPE - IPN min - max mm	length min - max mm	rated lift capacity max kg
TP 1/100	250	80-600	1000-6000	1000
TP 2/200	980	80-600	6000-12000	2000
TP 3/200	1250	80-600	1000-12000	2000
TP 4/400	1600	80-600	6000-18000	4000
TP 5/400	2150	80-600	1000-18000	4000
TP 6/400	2500	80-600	3000-24000	4000



Dedicated solution

The TECNOLIFT can be equipped with accessories for various applications:

• **MRS - Fifth wheel**
to rotate the load according to the application.

• **4HV - Supplementary hooks**
Allow the use of the beam in a traditional manner, with chains and rope, without dismantling the TECNOLIFT system. Useful when the load is non ferrous or has non-standard geometry.

• **SRM**
Manual 90° rotation system for the cross-beams. Useful for profiles and narrow loads.

• **DPV - Ring to the hook combination**
Allows the use of the beam alternately with single and double crane hoists. Chains and ring housing built-in.



Characteristics, Accessories and Equipments



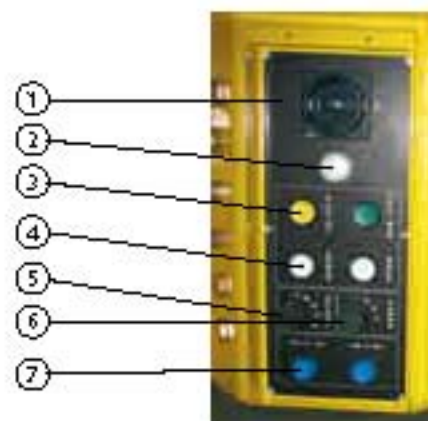
When it comes to safety and trust, no detail can be overlooked or left to chance: thousands of TECNO-LIFT systems installed all over the world are our main credentials. Every system represents a study in optimizing the function of real time productivity.

Special attention is dedicated to the safety: various electromechanical systems check for accurate magnetism on the load and detect any problems that may occur during the magnetization, clamping of load, moving the load and the accidental demagnetization during the material handling.

with 75% of the total possible magnetization strength, only once the load is lifted from the ground the second MAG cycle is executed allowing 100% of the total magnetization power (FULL MAG). This provides a definite minimum safety margin to the load that can be handled in complete safety.



All the magnetic modules are made from a solid piece of steel; this creates a greater protection against accidental impacts with higher reliability. Elastic suspension system are used since the application requires it to equally distribute the weight of the load among the different pick up points avoiding dangerous overloading.



Control Unit
In a compact IP54 cabinet to allow fast activation and deactivation cycles (max 7 sec)

1- Push button panel
Is integrated in the body of the lifter and contains the basic functions (ON/OFF, PICK-UP, FULL MAG, DEMAG, SAFE)

2- The electronic UCS saturation control system controls the correct value of the current absorbed to ensure that the modules reached the full magnetic saturation.

3- PICK-UP, FULL MAG*
The TECNO-LIFT system uses a double magnetization cycle test the load according to its weight and airgap condition. Pick-up cycle is executed first

4- Safe button: The user is obligated to press 2 buttons at the same time (SAFE and DEMAG) to release the load, this reduces the chances of an accidental load release.

5- Cross Beam Selections*.
Allows the magnetization pattern of the modules: only the center ones, all the cross beams, only one side (narrow loads) left or right.

6- The push button remote includes the APC Power adjustment control. This is a 4 level selector that can reduce the magnetic depth to pick up the load from stack.

7- For the TM4 and TM6 systems, the remote control also includes the OPEN and CLOSE buttons for the telescopic portions of the beams.

*only available for specific TECNOLIFT models - see chart



Lamp Block

To display the status of the system: Normal operation / Pick Up phase / Alarms

DAUTANAC

is the safety contact that allows the magnetization / demagnetization only when the chains are slack. This contact prevents the accidental demagnetization when the load is suspended.

Chains:
are high strength steel 80.



Drum Reel

Enables an easy installation of the system on any type of crane. The cable length is 12 meters and it comes with the appropriate mounting plate.

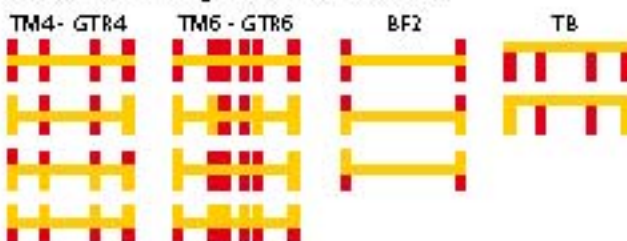


Remote Control

Enables the operation of the system (pickup/full mag/ safe/ open/ close) from outside the working area and away from the load.

The new model is ergonomic, with emergency stop button and APC power adjustment knob. Supplied with frequency regulator, two re-chargeable batteries and charger (110V or 220V) for the transmitter.

Cross Beam magnetization selector



RC / S: simple remote control
RC / B: 'belt use' remote control

Standard supply table

Standard supply table	Standard <input checked="" type="checkbox"/>																Optional <input type="checkbox"/>		
	TM4	TM5	BF2	GTR4	GTR6	TB	TT	SML	SMH	CV	CO	CH	BL	BR	BAT	TP	RD	TU	CS
Structure - High strength tubular steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Elastic suspension system for modules	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-	-	-	-	-	-	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	-
Integrated control Unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stand alone controller	-	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double cycle magnetization RC: UP/FULL MAG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hydraulic telescoping system	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remote control RC/A	N	N	N	N	N	B	N	N	N	-	-	-	-	-	S	N	-	-	-
Remote control for crane cabine	-	-	-	-	-	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
APC power adjustment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	-	-	-	<input type="checkbox"/>	-	-	<input type="checkbox"/>	<input type="checkbox"/>	-
Safe Button	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DAUTANAC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	-
UCS Saturation control unit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lamp Block	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chains	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Drum Reel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Installation kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SRM - Module rotation device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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