

The logo for FLAIG MAGazine. It features a green circle with a black horizontal bar to its left. To the right of the circle, the word 'FLAIG' is written in a bold, black, sans-serif font. Below 'FLAIG', the word 'MAGazine' is written in a larger, bold, black, sans-serif font.

# FLAIG MAGazine

## Magnets & More

The magazine for everything related to the world of magnetic load handling. Here you can find all the latest news and information about new products from the leading manufacturer.



# Words from the CEO

Dear customers and business partners,  
For 25 years now, we have been passionately dedicated to the industrial application of magnets. Thanks to your trust in us, we have managed to establish ourselves as an integral part of the market and have become a recognized partner of leading companies. Some of our products have made it to the top of the world market, and in recent years, 2024 and 2025, we have been able to buck the prevailing trend in the country and continue to grow. Thank you all very much, and best wishes for good luck and confidence.

**CEO**

**Horst Flaig**

# Timeline



03 / 2024

## Green Dot

We're making our FX line circular and digital - Page 10



12 / 2024

## Record

Sales of our FX line have made us the global market leader for lifting magnets. - Page 10



2024-2025

## New Building

In September 2024, construction began on the third hall on the company premises, which was completed in June 2025.



01 / 2025

## HX Transporter

The HX magnetic transporter product line is introduced and immediately sells out. Page 11



07 / 2025  
25 Years Flaig

On July 5, Flaig Magnetsysteme celebrates its 25th company anniversary. - Page 5



05 / 2025

## FXE Portfolio

The FXE portfolio for flat materials is being restructured Page 9



From Experience & Innovation

# Our location on Hardt

In the heart of the Black Forest, we have been manufacturing for 25 years.

Expanded in 2025, our company premises now comprise three halls covering a total of 11,000 square meters. Equipped with state-of-the-art machinery and sustainably set up with solar technology and an infrastructure for e-mobility, we manufacture future-proof and energy-efficient magnetic systems for modern industry around the world.

# 25 Years

## Flaig Magnetsysteme

As with many groundbreaking company stories, our company's story also began in a garage. Back in 1999, CEO Horst Flaig decided to invest in the then emerging technology of rare earth magnets. At the time, these magnets were up to five times more powerful than anything else on the market. Success came quickly, and by 2005, the garage had become too small, and the very young company Flaig TE Magnetsysteme moved to a larger building. Over the next few years, the company grew, and Horst Flaig succeeded in assembling a small, highly creative team from the fields of engineering, sales, and design. This led to the creation of the first standards in the fields of magnetic lifting and magnetic clamping. At the beginning of 2016, we launched the new FX Lift series, a lifting magnet that set a new standard in modern industry with its clever design and high-quality workmanship. We were also able to make our mark in the field of electro-permanent magnetic lifting with

our FXE Lift series in the halls of the metalworking industry. When our company headquarters also reached its capacity limits in 2020, Flaig Magnetsysteme invested in the then brand-new industrial park and most recently expanded its location there in 2025 with a third production hall. Here, we continue to focus on creative and useful further development. In 2024, we succeeded in making the FX Lift series circular economy-compatible and digital. The responsible use of valuable raw materials is just as important to us as offering our customers an attractive and comprehensive range of magnetic solutions. In July 2025, we celebrated our 25th anniversary with over 500 guests from 28 countries. Thank you to everyone who attended.





# We for You

- Standards
- Special Solutions
- Small series
- Out of the Box
- From small to Big

In addition to standardized magnetic lines such as FX, FXE, and FXL, we are above all the professionals when it comes to customized special solutions. We manufacture permanent and electro-permanent lifting magnets according to your specifications, as well as complex solutions for your specific application.





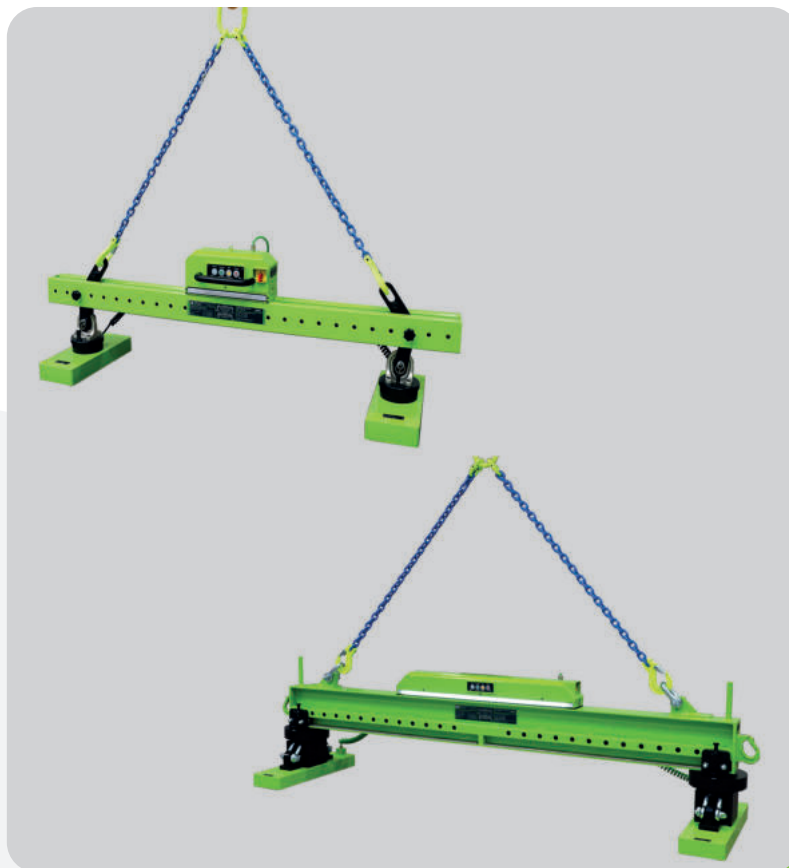
64t electro-permanent magnetic system, in cooperation with the steel construction professionals at Carl Stahl Poland, for the construction of wind turbine towers



# FXE Portfolio

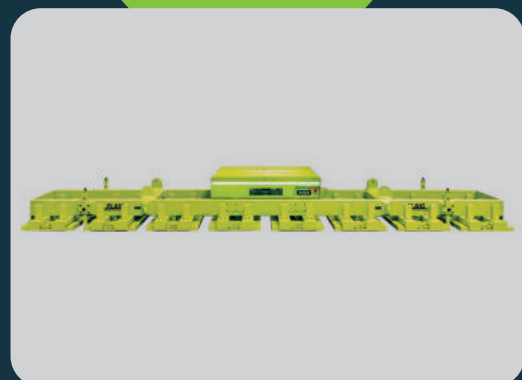
## Thinking ahead for you

**Magnets & More  
FLAIG MAGazine**



We always strive to tailor our products to our customers' applications. Product design is subject to a continuous improvement process that makes our magnets even more efficient, practical, and attractive. In addition to improving the quality of our products, we also keep our finger on the pulse of the latest developments so that we can respond to the constantly evolving requirements of modern industry with the best solutions.

From Experience & Innovation





In June 2025, we completed the restructuring of our FXE lifting magnet line for lifting flat material. Today, we offer a comprehensive range for all sheet metal formats.

The most common products are available from stock.



**FXE-HD Lifting Magnets**  
For sheets up to 6x2,5m



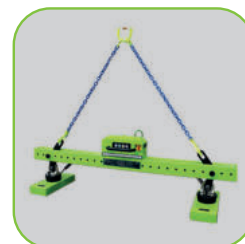
**FXE-T Magnetic Trusses**  
For sheets up to 6x3m



**FXE-TX Magnetic Trusses**  
For clearing entire  
cutting tables



**FXE Lifting Magnets**  
For sheets up to 4x2m



**FXE-LT Magnetic Trusses**  
For sheets up to 5x2,5m



**FXE-TT Magnetic Trusses**  
For sheets up to 16x3,5m

# World champion since 2024

- Sustainable
- Digital
- Broadband
- Best-selling

At the beginning of 2024, we took our FX Lift series to the next level. All of our standard FX lifting magnets are now equipped with the Green Dot, which contains the complete documentation digitally in the form of an RFID chip that can be read and individually written to by the customer. As a special contribution to sustainability, we have made the FX circular economy-compatible with our refund promise. Each FX has a defined refund value which is reimbursed to the customer when it is returned for recycling.





For years, we have been pursuing a plan to develop a high-quality, cost-effective switchable hand magnet, as there is no truly satisfactory solution available on the market. In January 2025, the time had finally come: we were able to test the first prototypes, which were so impressive that the developers had to hide them from the sales team. The response to the market launch was also very positive from the outset; anyone who tried the HX didn't want to give it back. The first batch sold out within a few days, but we have now restocked and are delighted with the keen interest in our HX permanent magnet transporters.

# Diamond Partner

## Flaig & RUD - A strong Team

Thanks to many years of trusting cooperation, we have succeeded in establishing a promising partnership with RUD Ketten for our magnetic lines. In future, many of our products, such as trusses and magnetic systems that are lifted with chains, will be equipped with the distinctive pink RUD chains. In this way, Flaig green and RUD pink will be visible from afar in many modern industrial halls and will represent an unmistakable mark of quality.



# Hands On

You have the  
opportunity to  
experience our  
products on our  
company premises.



From Experience & Innovation  
FLAIG MAGazine

# Experience



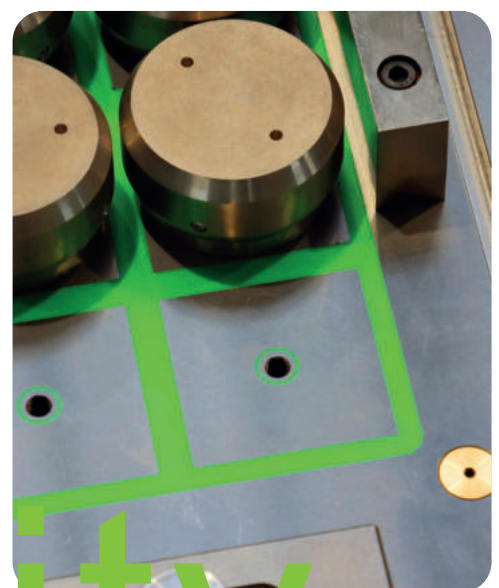


## Experience lifting Come and visit us

Come and see the latest innovations in heavy lifting in action. With our FXE-TT telescopic truss, sheet metal and workpieces weighing up to 30 tons can be lifted and transported with ease. Come by and let our professionals convince you. In a detailed demonstration, you will learn everything you need to know about the product. From telescopic functionality at the touch of a button to possible workpiece sizes and the customizability of our trusses, a visit to our premises is always worthwhile.

## Personalized trade fair Inhouse at Flaig

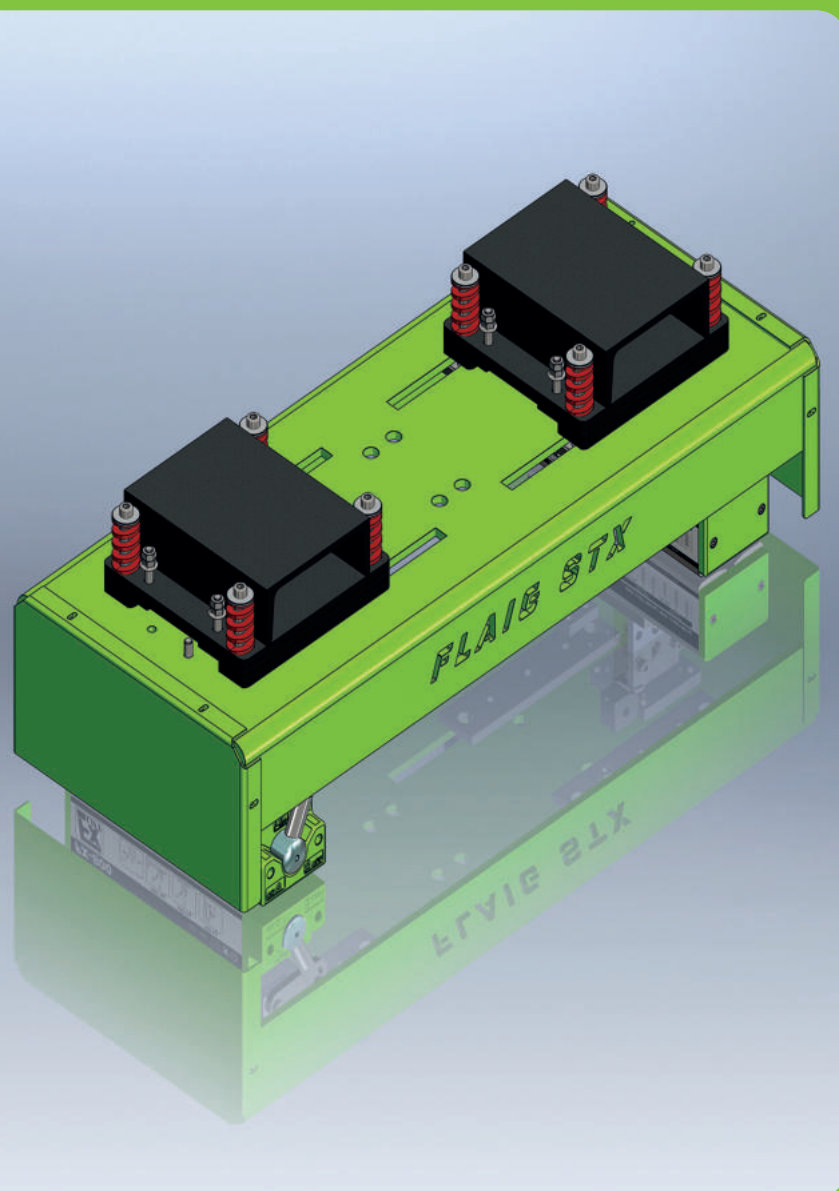
If you were unable to visit one of our trade fair stands, you can experience our magnets live at our in-house facility. Here you can experience and comprehensively test our FX and FXE Lift series, lightweight trusses, and HV systems, as well as the electro-permanent magnetic clamping systems from our FXL series. Demonstrated by our experts, you will gain valuable insight into the green world of magnetic load handling.



# ce quality

# 2026

# We'll keep at it



The market environment is not easy; we are facing challenges not only from the economic downturn in the domestic market, but also from material procurement. Since the Chinese government imposed export restrictions on rare earths and thus also on magnets in April 2025 as part of the global trade turmoil, it has become extremely difficult and costly to procure these critical materials, which unfortunately we can only obtain from China. As was to be expected from this development, the prices for these materials have also risen dramatically and considerable costs are incurred for testing and documentation. At this time, we are greatly benefiting from the fact that we have built up very good relationships with manufacturers of RE magnets over the last 25 years and that we are represented in the world capital of magnets with our subsidiary NFMS. Despite all the signs, we are looking forward to 2026 with positive expectations. We will introduce new products, fight against bureaucracy, and trust that our country will regain its footing, because Germany is still lovable and its people are hard-working and reliable.



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# More

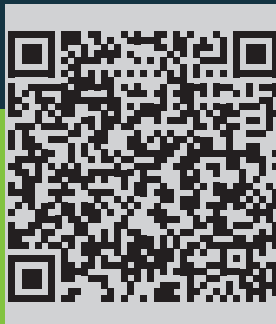
**Visit us  
Online**

You can always stay up to date on our website  
and social media channels.



## Magnetic Lifting Catalog

In our current Magnetic Lifting catalog, you will find all products related to permanent and electro-permanent magnetic load handling. In addition to magnets, you will also find trusses, HV systems, and magnetic clamping blocks.



## Magnetic Clamping Catalog

In our current Magnetic Clamping catalog, you will find all products related to permanent and electro-permanent magnetic clamping systems. In addition to magnets, you will also find controllers, sine tables, and lamella plates.

## FXE-T Electro-Permanent Magnetic Trusses

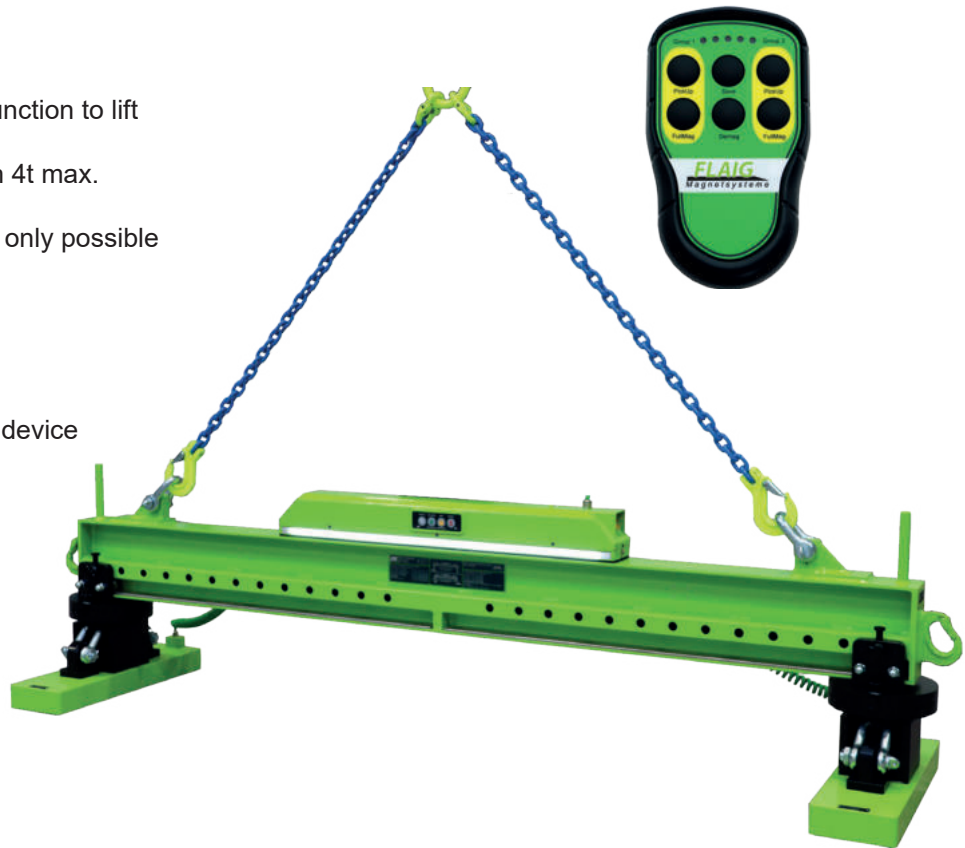
The FXE-T electric permanent lifting magnet truss is a fully equipped standard device with all options. The truss with a maximum load capacity of up to 9600 kg is equipped with movable magnet modules and can therefore safely move sheet metal formats from a minimum length of 1200mm to a maximum length of 6000mm.

Delivery includes:

- Radio remote control with Pick Up function to lift individual plates from 6mm
- Weld-on hooks on the sides for each 4t max.
- 2-strain chains
- Lifting-eyelet sensor, demagnetizing only possible when load-free
- 360° LED signal tower
- Stainless steel guide handles
- Primary connection cable ready for 400V/25A fuse/CEE 32A plug
- Optionally available -> 360° rotating device



Application video



### FXE-T7200/80

WLL on sheets

Material/ Wall thickness	max. Load	Max. Dimensions	
		L (max.)	W (max.)
from 4 mm	500 kg	4000	2000
from 6 mm	1000 kg	6000	2500
from 8 mm	1400 kg	6000	2500
from 10 mm	2000 kg	6000	3000
from 15 mm	4000 kg	6000	3000
from 25 mm	7200 kg	6000	3000

### FXE-T9600/100

WLL on sheets

Material/ Wall thickness	max. Load	Max. Dimensions	
		L (max.)	W (max.)
from 4 mm	400 kg	4000	2000
from 6 mm	600 kg	6000	2000
from 8 mm	1400 kg	6000	3000
from 10 mm	2000 kg	6000	3000
from 15 mm	4000 kg	6000	3000
from 25 mm	6400 kg	6000	3000
from 35 mm	9600 kg	6000	3000



Model	Art.-Nr.	WLL (kg)	Dim. (mm)			Number Poles °N	Pole type	Break away (kN)	Weight (kg)	List price
			L	W	H					
FXE-T7200/80	1068 7212	7200	3150	780	1900	2x16	80	282	560	19.980,-
FXE-T9600/100	1068 9603	9600	2960	778	1440	2x12	100	329	700	24.800,-

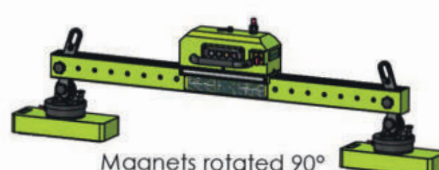
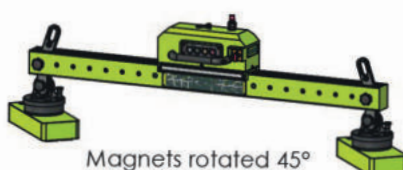
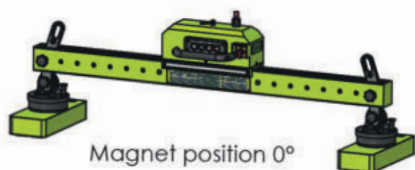
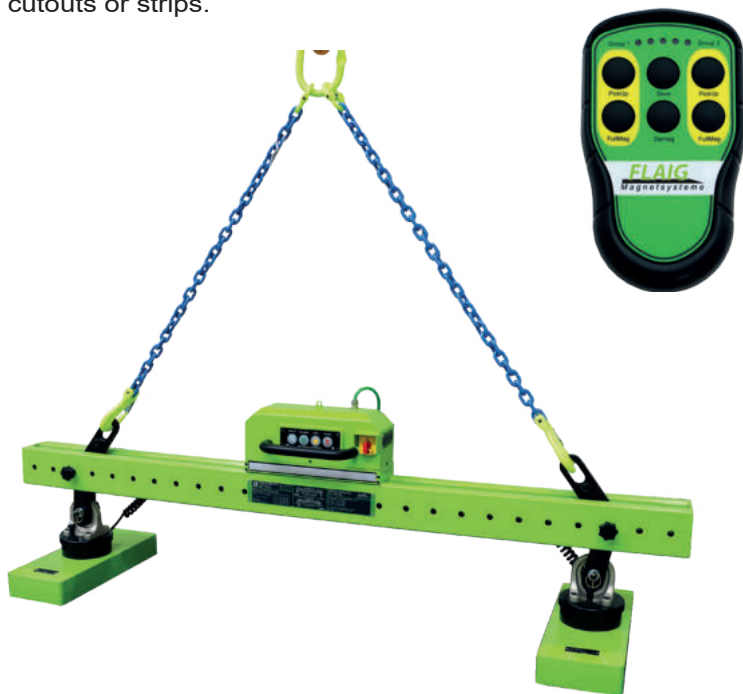
Drawings available at [www.flraig-te.de/en](http://www.flraig-te.de/en)



## FXE-LT Electro-Permanent Magnetic Trusses

FXE-LT electric permanent lifting magnet trusses in a compact design with onboard control technology are designed for the frequent handling of larger formats such as sheets with poor surfaces. Like the FXE lifting magnets, they can be operated directly from the mains voltage and are therefore very quick to install and ready for use. They are controlled directly on the device or optionally via a remote control.

The magnetic modules are adjustable to safely transport various sheet metal lengths from a minimum of 600mm to a maximum of 5000mm. The two holding modules can be rotated by 45° or 90° to also accommodate sheet metal cutouts or strips.



Model	Art.-Nr.	WLL (kg)	from (mm)	L min. (mm)	L max. (mm)	W min. (mm)	W max. (mm)	Modules	Pole type	List price
FXE-LT 2000/50+	1068 2001	2000	20	600	5000	100	2000	2x FXE-1100/50+	50+	9.980,-
FXE-LT 3800/70+	1068 3804	3800	20	600	5000	100	2000	2x FXE-2000/70+	70+	11.980,-

Drawings available at [www.flraig-te.de/en](http://www.flraig-te.de/en)



## FX Universal Permanent Lifting Magnets

Standard FX lifting magnets impress with their wide range of applications. The FX achieves good results with large air gaps as well as with thin flat and round materials, thanks to its compact design and low weight. The device is characterized by its high robustness and excellent price/performance ratio.



Application video



Model	Art.-Nr.	WLL		WLL from (mm)	Dimensions (mm)		Weight (kg)	FX Refund value*	List price
		flat	round		L	W			
FX-400	1101 0400	400 kg	Ø50-300 mm 200 kg	15	263	87	11	120,-	688,-

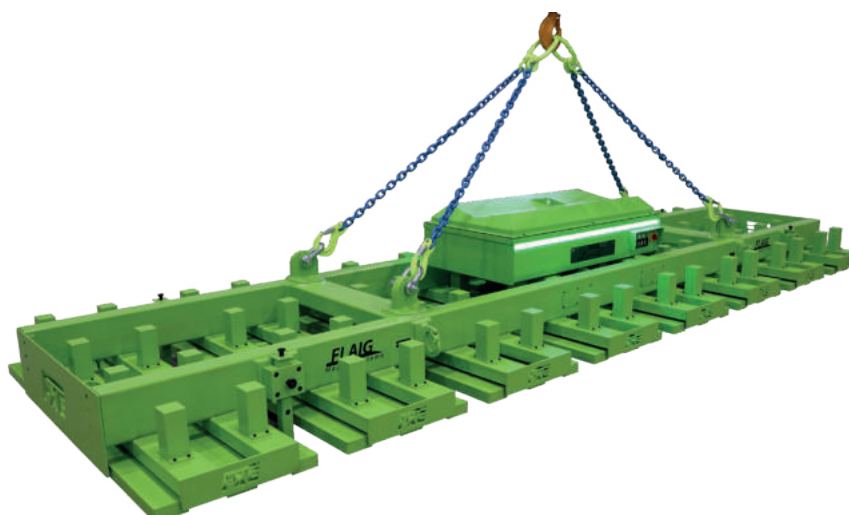
\*Material value that we refund when you send it in for recycling • Safety factor 3.5/Test method according to EN 13155:2022 max. working temperature 80°C

## FXE-TX Electro-Permanent Magnetic Trusses

FXE TX magnetic lifting trusses are used to clear large areas of laser or flame cutting tables in a single lift.

Parts measuring 100x100mm or larger are removed from the table in their entirety and moved.

Depending on the material thickness, entire sheets can also be loaded with the FXE-TX. The design of the system depends on the sheet format to be moved (uncut, LxWxH) and the dimensions of the smallest cut.



## HX Permanent Magnetic Transporter

HX magnetic transporters are the ideal tool for moving sharp, hot, and difficult-to-grip parts safely and quickly. The powerful ND magnet system can be activated and deactivated with just a 45° switch travel. Ball-bearing magnet shafts and corrosion-protected surfaces ensure a long service life.

Depending on the application, you can choose between different handle variants and lengths. A safety factor of 2.5 ensures sufficient reserves when using the HX magnetic transporter manually.

We recommend the HX for clearing cutting tables, pulling parts from saws, positioning parts in welding fixtures, guiding workpieces on cranes, lifting parts out of boxes, and many other applications.



Application video



Standard T-Grip



Palm grip for quick handling at body height



Extended handle for ergonomic picking up from boxes or the floor

Model	Art. Nr.	Dim. (mm)		WLL (kg)	Weight (kg)	List price
		H	Ø			
HX-30 Magnetic Transporter	1108 030	175	62	30	1,5	128,-
HX-60 Magnetic Transporter	1108 060	175	78	60	2	188,-
HX-120 Magnetic Transporter	1108 120	188	98	120	3,5	228,-
Palm grip for HX	1108 G02	120	-	-	-	28,-
Extended handle 400mm	1108 G03	400	-	-	-	38,-
Extended handle 600mm	1108 G04	600	-	-	-	44,-



# MAGNETIC INNOVATIONS 2025

