



FX MBX 永磁式吊重工具

PERMANENT MAGNETIC LIFTER (ON/OFF TYPE)

用途：永磁式吊重適用於固定與搬運機械部品、板材、柱狀

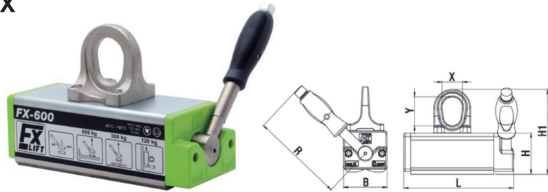
- 特性：
1. 體積小、磁力強、操作輕巧更安全
 2. 滾珠軸承和半環狀結構鉤鐵棚磁石，開關僅90度可達滿載磁力
 3. 無反衝力手動操作，工作時保持自鎖狀態不回彈
 4. 工件溫度不可超過80度
 5. 安全係數3.5

Application: Suitable for holding and moving flat and round materials.

Features:

1. Small size, strong magnetic force, and easy to operate.
2. Massive shift shaft with half-shell NdFeB magnets, ON/OFF switching only 90°
3. Recoilless hand operation.
4. Workpiece temperature should be under 80°C
5. Safety Factor 3.5

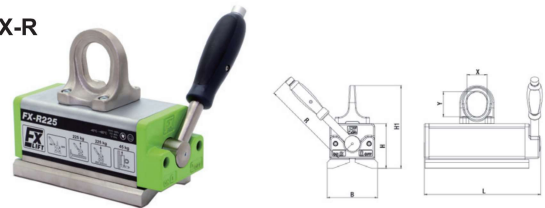
FX



型號 Model	最大負載量(kg) Max Load Capacity		最小厚度要求 Min Thickness required (mm)	尺寸 Dimension (mm)						重量 Weight (kg)
	板材 Flat	柱材 Round		L	B	H	H1	R	X/Y	
FX-150	150 kg	Ø50-200 mm 75 kg	8	161	64	80	124	136	30/42	3.6
FX-300	300 kg	Ø50-300 mm 150 kg	15	205	87	78	158	190	42/53	8.4
FX-600	600 kg	Ø80-400 mm 300 kg	20	288	112	94	189	228	51/62	19
FX-1000	1000 kg	Ø100-450 mm 500 kg	25	361	152	120	240	261	60/76	42
FX-2000	2000 kg	Ø120-600 mm 1000 kg	50	472	228	169	313	409	68/89	115
FX-3000	3000 kg	Ø250-600 mm 1500 kg	50	648	228	169	313	534	68/89	166

安全係數 3.5 / 測試方法按EN13155 ;
最高工作溫度80°C，負荷曲線圖和安全性能詳見第14頁。

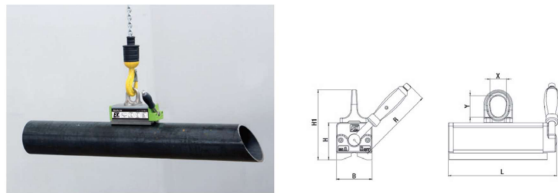
FX-R



型號 Model	最大負載量(kg) Max Load Capacity		最小厚度要求 Min Thickness required (mm)	尺寸 Dimension (mm)						重量 Weight (kg)
	板材 Flat	柱材 Round		L	B	H	H1	R	X/Y	
FX-R100	100	Ø 25-150 mm 100 kg	8	161	70	68	132	136	30/42	3.4
FX-R225	225	Ø 50-205 mm 225 kg	10	205	98	90	170	190	42/53	9.5
FX-R450	450	Ø 50-270 mm 450 kg	20	288	126	112	207	228	51/62	22
FX-R750	750	Ø 70-370 mm 750 kg	20	361	170	142	262	261	60/76	49
FX-R1200	1200	Ø 120-560 mm 1200 kg	40	472	248	190	334	409	68/89	127
FX-R1800	1800	Ø 120-560 mm 1800 kg	40	648	248	190	334	534	68/89	182

安全係數 3.5 / 測試方法按EN13155 ;
最高工作溫度80°C，負荷曲線圖和安全性能詳見第15頁。

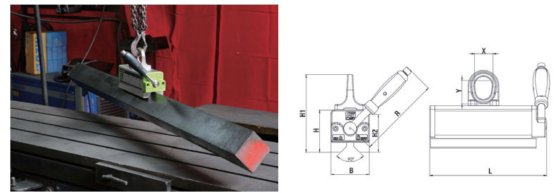
FX-P



型號 Model	最大負載量(kg) Max Load Capacity		最小厚度要求 Min Thickness required (mm)	尺寸 Dimension (mm)						重量 Weight (kg)
	板材 Flat	柱材 Round		L	B	H	H1	R	X/Y	
FX-P170	170 kg	Ø 30-105 mm 150 kg	8	195	64	70	134	136	30/42	5.1
FX-P330	330 kg	Ø 40-160 mm 300 kg	10	265	87	90	170	190	42/53	12.4
FX-P650	650 kg	Ø 60-210 mm 550 kg	20	352	112	108	203	228	51/62	26

安全係數 3.5 / 測試方法按EN13155 ;
最高工作溫度80°C，負荷曲線圖和安全性能詳見第16頁。

FX-V

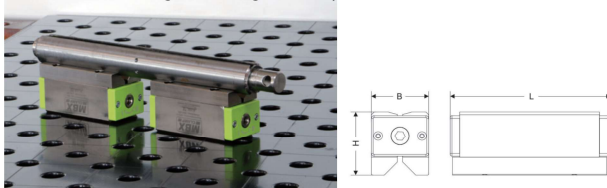


型號 Model	最大負載量(kg) Max Load Capacity		最小厚度要求 Min Thickness required (mm)	尺寸 Dimension (mm)						重量 Weight (kg)
	板材 Flat	柱材 Round		L	B	H	H1	R	X/Y	
FX-V200	200 kg	Ø 20-50 mm 100 kg	10	195	64	77	141	134	30/42	5.5
FX-V400	400 kg	Ø 25-60 mm 300 kg	15	265	87	96	176	188	42/53	13
FX-V800	800 kg	Ø 35-75 mm 300 kg	20	352	112	115	210	228	51/62	28

安全係數 3.5 / 測試方法按 EN13155
磁芯可承受最高溫度: 80度, 可承受工件最高溫度: 150°/100°C 負荷曲線圖和安全性能詳見第17頁

MBX 工件無論柱狀、板材或其他型材都可被固定，可多個串聯以便夾持較長或較大工件。

The workpiece can be fixed regardless of the column shape, sheet or other profiles, and can be connected in series to hold longer or larger workpieces.



Model	尺寸 (mm) Dimension			表面1(mm) (平面+圓弧) Surface 1 (mm) (Flat + Round)		表面2(mm) (平面+90°) Surface 2 (mm) (Flat + 90°)		系統夾持力(kN) System holding Power (kN)	重量 Weight (kg)
	L	B	H	L	B	L	B		
MBX 5	143	64	71	120 x 57	136 x 64			5	3.9
MBX 5 Pairs	143	64	71	120 x 57	136 x 64			5	2x3.9
MBX 7	179	64	71	156 x 57	172 x 64			7	4.9
MBX 7 Pairs	179	64	71	156 x 57	172 x 64			7	2x4.9
MBX 10	188	87	88	162 x 76	178 x 87			10	8.8
MBX 10 Pairs	188	87	88	162 x 76	178 x 87			10	2x8.8

選擇合適吊重需考慮之五因素

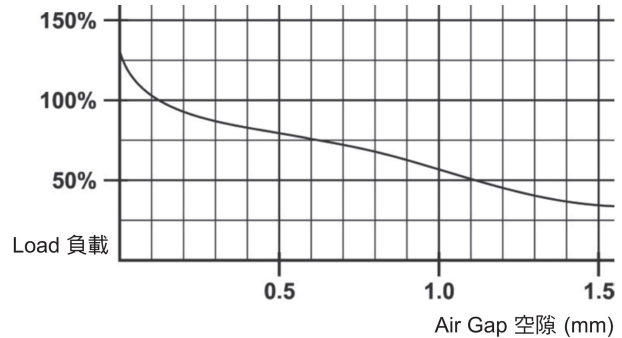
5 factors for choosing the right lifting magnet model

1. 接觸面

若吊重與工件之間有空隙（如：鐵鏽·油漆·灰塵·紙張·或粗糙的接觸面），會降低磁通量而影響負載。

The contact surface

If air gap (ex: Rust, paint, dirt, paper or rough machined surface) exists between the lifting magnet and workpieces, the magnetic flux is made more difficult and thus reduces the lifting capacity.

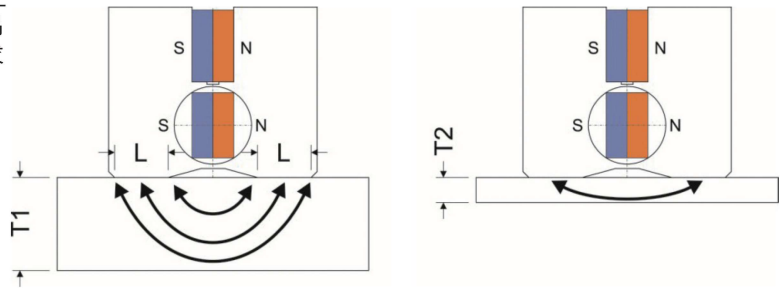


2. 工件厚度

吊重磁通量對工件厚度有一定要求，若工件未達最小厚度會降低吊重能力，為使吊重有較好的負載表現則工件需達最小要求之厚度

Material Thickness

Minimum material thickness is required, If workpiece doesn't reach this minimum thickness, the lifting force is smaller. For larger lifting benefits greater material thicknesses are required.

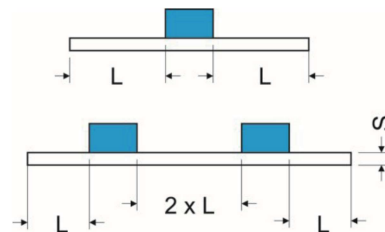
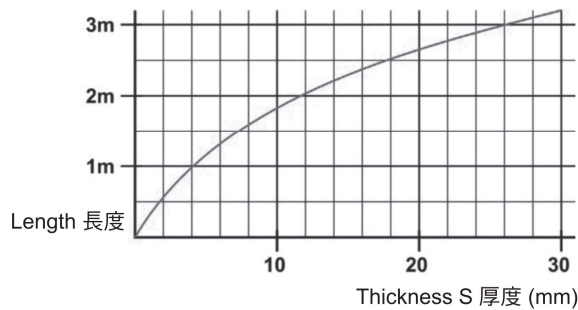


3. 工件尺寸／穩定性

若工件之長度或寬度較大時，會造成工件下垂而使吊重與工件間產生空隙，尤其是薄工件時會減少吊重的吸著力

Workpiece dimensions/ intrinsic stability

If the length or width of workpieces is larger, the workpiece sags and is formed between the lifting

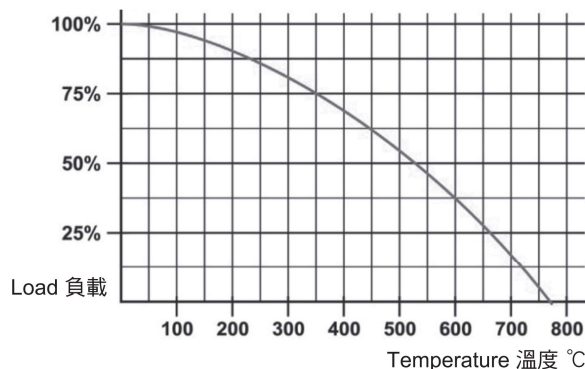


4. 工件之溫度

工件溫度會影響吊重能力表現，我們數據適用於80°C以下

Temperature of Workpieces

Temperature of Workpieces affects lifting capacity. This data applies to Max. 80°C



5. 工件材質

Workpieces material

材質 Material	吊重能力(%) Lifting Power
碳鋼 Carbon Steel (0.1-0.3%C) ST37/52	100
碳鋼 Carbon Steel (0.4-0.5%C)	90
合金鋼 Alloy Steel 2312/2379...	80-90
球墨鑄鐵 Cast iron GGG	70-80
灰口鑄鐵 Cast iron GG	45-60
合金鋼 Stainless Steel (HRC 55-60)	40-50
不銹鋼、銅、鋁 Brass, Aluminum, Copper	0