

FX SERIES LIFTING MAGNETS

FX UNIVERSAL PERMANENT LIFTING MAGNETS FOR FLATS AND ROUND



The FX universal, On/Off permanent lift magnets are ideal for a variety of manufacturing applications where you're mostly lifting flat material, but occasionally need to lift rounds.

- » On/off, Rare-Earth Permanent Magnet
- » On/off handle only requires 90° rotation and locks at both on/off positions
- » Durable, recessed metal name plates, not stickers
- » Corrosion resistant, plated-magnet surface
- » Heat resistant up to 180°F (82°C)
- » 3:1 Design Factor
- » 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3

Vertical Lift Lug
Optional



	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FX0330	330	150	4.9	6.3	2.3	2.5	4.75	5.3	0.4	1.6	1	8
FX0660	660	300	6.2	8	3	3.4	6.2	7.5	0.5	2	1.6	19
FX1320	1320	600	7.4	11.3	3.7	4.4	9.4	9	0.6	2.4	2	42
FX2200	2200	1000	9.4	14.2	4.7	6	12	10.2	0.8	3	2.3	93
FX4400	4400	2000	12.3	18.5	6.6	9	15.7	16.1	1	3.5	2.6	254
FX6600	6600	3000	12.3	25.5	6.6	9	22.7	21	1	3.5	2.6	366

Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness									Round Lifting Applications		Vertical
For Single Magnet Use											Part Flat
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	2 (10')	3 (10')	WLL RD	Min/Max Dia	Min Thk	WLL
FX0330	142 (65)	330 (150)	330 (150)	330 (150)	330 (150)	330 (150)	330 (150)	165 (75)	2 - 8	5/16	66 (30)
FX0660	355 (152)	507 (230)	580 (263)	660 (300)	660 (300)	660 (300)	660 (300)	330 (150)	2 - 12	1/2	132 (60)
FX1320	331(150)	661 (300)	965 (438)	1320 (599)	1320 (599)	1320 (599)	1320 (599)	660 (300)	4 - 16	5/8	264 (120)
FX2200	NA	772 (350)	1160 (526)	1984 (900)	2200 (998)	2200 (998)	2200 (998)	1100 (500)	4 - 18	3/4	440 (200)
FX4400	NA	NA	965 (438)	2200 (998)	2646 (1200)	4400 (1996)	4400 (1996)	2200 (998)	6 - 24	1-1/2	NA
FX6600	NA	NA	NA	3850 (1746)	3968 (1800)	6600 (2994)	6600 (2994)	3300 (1497)	6 - 24	1-1/2	NA

FXP PERMANENT LIFTING MAGNETS FOR THIN SHEETS AND PIPE



Ideal for thin sheets or parts, tanks/containers and thin-walled pipe that normally can't be lifted with a permanent, On/Off magnet. The magnetic field on the FXP is concentrated and shallow to drive the strength into thin material.

- » On/off Rare Earth Permanent Magnet
- » On/off handle only requires 90° rotation and locks at both on/off positions
- » Recessed metal name plates, not stickers
- » Corrosion resistant, plated-magnet surface
- » Heat resistant up to 180°F (82°C)
- » 3:1 Design Factor
- » 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3



	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht.(in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FXP0375	375	170	5.3	7.7	2.7	2.5	6.8	5.3	0.4	1.6	1	12
FXP0725	725	330	6.7	10.4	3.5	3.4	9.4	7.5	0.5	2	1.6	28
FXP1450	1450	650	8	13.8	4.2	4.4	12.6	9	0.6	2.4	2	58

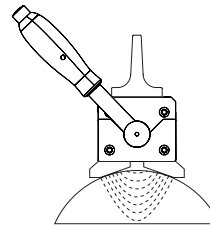
Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness									Round Lifting Applications		
For Single Magnet Use											
Model No.	9 ga (6')	3/16 (6')	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	WLL RD	Min/Max Dia	Min Thk	
FXP0375	176 (80)	200 (91)	265 (120)	375 (170)	375 (170)	375 (170)	375 (170)	330 (150)	1 - 4	5/16	
FXP0725	220 (100)	275 (125)	353 (160)	725 (329)	725 (329)	725 (329)	725 (329)	660 (300)	2 - 6.5	1/2	
FXP1450	353 (160)	375 (170)	441 (200)	1060 (481)	1125 (510)	1450 (658)	1450 (658)	1210 (550)	3 - 9	5/8	

FX SERIES LIFTING MAGNETS

FXR PERMANENT LIFTING MAGNETS FOR ROUND MATERIAL

The FXR is recommended for when lifting round/curved surfaces such as shafts, thick walled pipe, or billet, but occasionally need to lift flat material. Specially designed pole shoes provide a deep penetrating magnetic field and part stability.

- » On/off, Rare-Earth Permanent Magnet
- » On/off handle only requires 90° rotation and locks at both on/off positions
- » Durable, recessed metal name plates, not stickers
- » Corrosion resistant, plated-magnet surface
- » Heat resistant up to 180°F (82°C)
- » 3:1 Design Factor
- » 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3



	WLL		Overall		Magnet			Handle	Bail			
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt.(lbs)
FXR0220	220	100	5.2	6.3	2.7	2.7	5.4	5.3	0.4	1.6	1	9
FXR0500	500	225	6.7	8	3.5	3.8	7.2	7.5	0.5	2	1.6	21
FXR1000	1000	450	8.1	11.3	4.4	4.9	10.2	9	0.6	2.4	2	49
FXR1650	1650	750	10.3	14.2	5.6	6.7	13	10.2	0.8	3	2.3	108
FXR2650	2650	1200	13.1	18.5	7.5	9.7	18.2	16.1	1	3.5	2.6	280
FXR4000	4000	1800	13.1	25.5	7.5	9.7	24.1	21	1	3.5	2.6	402
Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due To Sag For Material Thickness									Round Lifting Applications			
For Single Magnet Use												
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	2 (10')	3 (10')	WLL RD	Min/Max Dia	Min Thk		
FXR0220	154 (70)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	220 (100)	1 - 6	5/16		
FXR0500	310 (141)	500 (227)	500 (227)	500 (227)	500 (227)	500 (227)	500 (227)	500 (225)	2 - 8	3/8		
FXR1000	331 (150)	661 (300)	780 (354)	1000 (454)	1000 (454)	1000 (454)	1000 (454)	1000 (450)	2 - 11	3/4		
FXR1650	NA	882 (400)	1200 (544)	1650 (748)	1650 (748)	1650 (748)	1650 (748)	1650 (750)	3 - 15	3/4		
FXR2650	NA	450 (204)	900 (408)	1764 (800)	2205 (1000)	2650 (1202)	2650 (1202)	2650 (1200)	5 - 22	1-1/2		
FXR4000	NA	NA	1250 (567)	2646 (1200)	3307 (1500)	4000 (1814)	4000 (1814)	4000 (1800)	5 - 22	1-1/2		

FXV PERMANENT LIFTING MAGNETS FOR BEAMS, ANGLE IRON (90°) AND HOT PARTS

The FXV On/Off permanent lift magnets are ideal for handling 90° shapes like angle iron, square tubing, and hot parts. Also works extremely well for inside webbing of I-beams where you need higher handle rotation. The on/off handle only requires 90° rotation and locks at both on/off positions. Durable construction with recessed metal name plates and corrosion-resistant plated magnet surface. Features a 3:1 design factor and meets 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3.

Hot part Handling: contact time and cooling times

302°F (150°C) = 100%

392°F (200°C) = 50%, Max. 4 minutes contact, 4 minutes cooling time

482°F (250°C) = 33%, Max. 4 minutes contact, 8 minutes cooling time

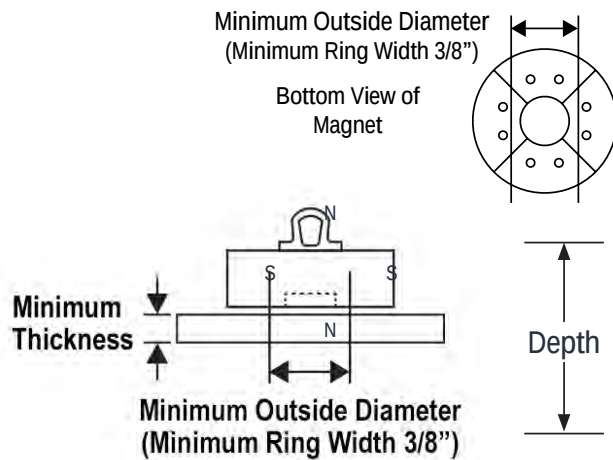
(Note: WLL reduces as temperature raises)



	WLL		Overall		Magnet			Handle	Bail							
Model No.	LBS	KG	Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)				
FXV0440	440	220	5.5	7.7	3	2.5	6.8	5.3	0.4	1.6	1	12				
FXV0880	880	440	6.9	10.4	3.8	3.4	9.4	7.5	0.5	2	1.6	29				
FXV1775	1775	800	8.3	13.5	4.5	4.4	12.6	9	0.6	2.4	2	62				
FLAT SURFACES					ANGLE IRON LEGS DOWN (Λ) ANGLE LEGS UP (V)											
Working Load Limit (WLL) in lbs (kg) & *Max sheet Length Due																
To Sag For Material Thickness For Single Magnet Use																
							Λ	V	Λ	V	Λ	V	Λ	V		
Model No.	1/4 (6')	3/8 (8')	1/2 (8')	3/4 (8')	1 (10')	Model No.	1/4 (6')	1/4 (6')	3/8 (8')	3/8 (8')	1/2 (8')	1/2 (8')	3/4 (8')	3/4 (8')	1 (14')	1 (14')
FXV0440	270	415	440	440	440	FXV0440	260	100	260	175	260	220	260	220	260	220
	(125)	(190)	(200)	(200)	(200)		(120)	(50)	(120)	(80)	(120)	(100)	(120)	(100)	(120)	(100)
FXV0880	440	695	810	880	880	FXV0880	440	270	495	275	550	385	550	440	550	440
	(200)	(320)	(370)	(400)	(400)		(200)	(125)	(225)	(125)	(250)	(175)	(250)	(200)	(250)	(200)
FXV1775	440	935	1150	1775	1775	FXV1775	485	300	650	325	815	500	870	650	870	650
	(200)	(450)	(550)	(800)	(800)		(220)	(140)	(300)	(150)	(375)	(230)	(400)	(300)	(400)	(300)

FXC PERMANENT LIFTING MAGNETS FOR FLAT, CIRCULAR PARTS

The FXC lift magnets have a round, multi-pole magnetic field designed for lifting flat, circular-shaped parts such as rings, sleeves, bearing housings, flange plates and end of billet/pipe/shaft pieces. The on/off handle only requires 90° rotation and locks at both on/off positions. Durable construction with metal name plates and corrosion-resistant plated magnet surface. Features a 3:1 design factor and meets 2018 ASME B30.20 BTH-1 Design Category B, Service Class 3.



	WLL		WLL	WLL	Overall		Depth	Magnet		Handle	Bail			
Model No.	LBS	KG	Min Thk (in)	Min Dia (in)	Ht. (in)	Dia. (in)	Ht. (in)	Ht. (in)	Dia. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	Wt. (lbs)
FXC0385	385	175	0.39	2.4	8.3	4.7	5	5.1	4.5	7.5	0.5	2	1.6	17
FXC0550	550	250	0.47	3.3	9.5	6.3	5.8	5.7	6	7.5	0.6	2.4	2	33
FXC0990	990	450	0.59	4.7	11.2	9.4	6.5	6.1	9.3	9	0.8	3	2.3	77

CUSTOM FIXTURE WITH PERMANENT ON/OFF MAGNETS

Our factory experts will develop a unique magnetic lifting device if a standard magnetic lift doesn't work for your application. We will be there every step of the way from field sales support to design, manufacturing and final testing.

For more information on our custom lifting products, please contact us today at 888.582.0823 or go online to www.magnetics.com

- » Custom beams
- » Custom pole shoes
- » Custom lift and rotate fixtures

