



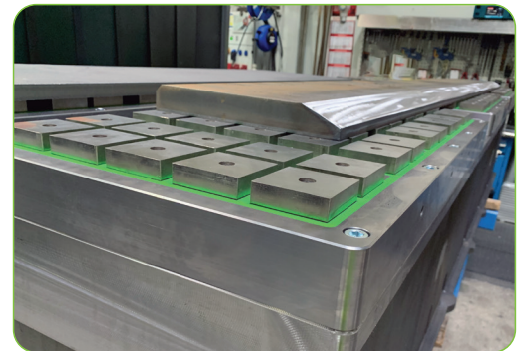
WORKHOLDING CHUCKS

ELECTRO-PERMANENT MAGNETIC CHUCKS

FXL Electro-Permanent Magnetic Clamping Systems

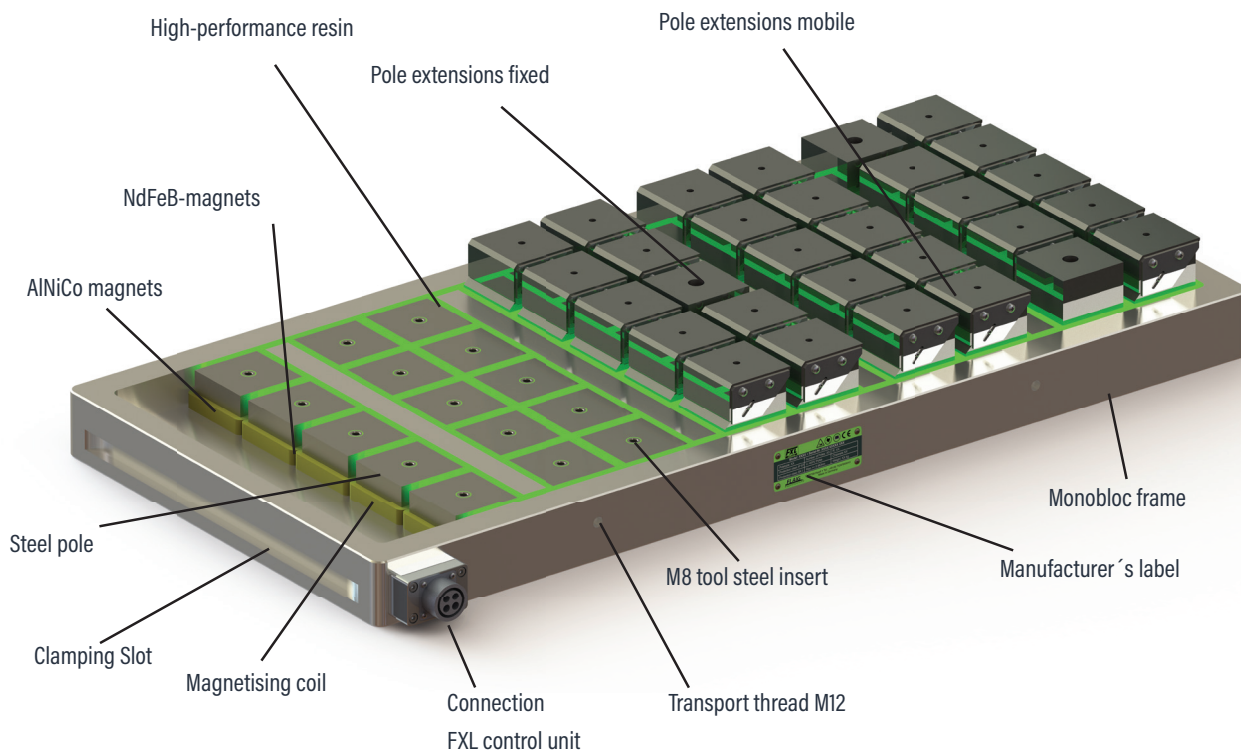
Place the workpiece on the table, activate the clamping system, start machining. Sounds like it's too good to be true, but in fact it is a feasible reality for many workpieces. The simplicity of the application is one of many features of this magnetic clamping technology:

- » Low-vibration machining and clamping of workpieces
- » Fast and safe clamping of uneven parts
- » Uniform clamping force over the entire surface without distorting or crushing the workpiece
- » Five-sided machining in only one setup
- » Full usability of the traverse paths
- » Minimal set-up times
- » Fast and accurate plane-parallel milling
- » Clamping of warped welded constructions in the shortest possible time
- » Fast assembly of individual, magnetic clamping devices
- » Same holding force in all directions due to square pole technology



Weld edge preparation in large part manufacturing

Depending on the machining and workpiece geometry, plates in rectangular or round design, with square or radial poles, are used.



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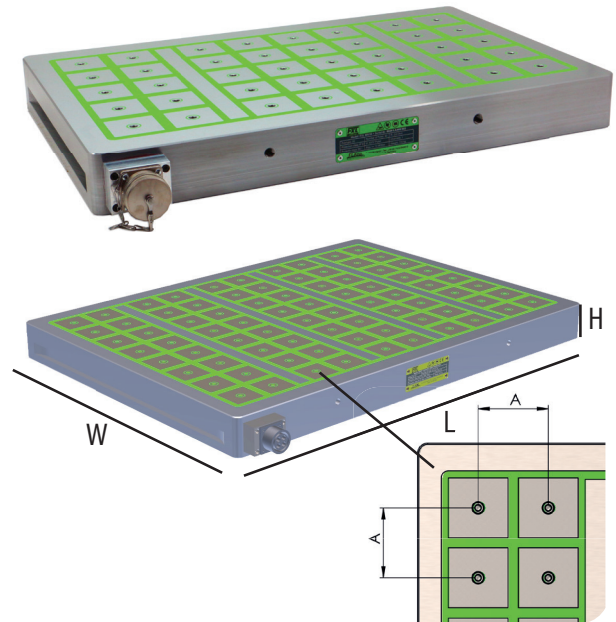
FXL-50 Electro-Permanent Magnetic Clamping Plates

FXL magnetic chucks with pole type 50 are used to securely clamp workpieces from approximately 4"x4" with thinner material thickness. Poles of size .75"x.75" generate a magnetic field that penetrates approximately 1/2" into the workpiece, which is why they are particularly suitable for thinner and smaller workpieces. Another advantage of working with smaller workpieces is more pole transitions are occupied, which ensures optimum clamping. The nominal holding force is a very strong 232 lb/in² for a total of 899 lbs (4kn) per pole.

- » Low-vibration machining and clamping of workpieces
- » Fast, uniform, and safe clamping of uneven parts
- » Five-sided machining in only one setup
- » Fast and accurate plane-parallel milling
- » Clamping of warped welded constructions in the shortest possible time
- » Fast assembly of individual, magnetic clamping devices
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Model	Dimensions (in/mm)					Quantity Pole° N	Weight (lb/kg)	Kit Part Numbers				
	L (in/mm)	W (in/mm)	H (in/mm)	A (in/mm)								
FXL1308P5	12.60	320	7.80	198	2.60	66	2.53	64.2	8	66	30	
FXL1708P5	17.32	440	7.80	198	2.60	66	2.53	64.2	12	93	42	
FXL2608P5	25.59	650	7.80	198	2.60	66	2.53	64.2	18	137	62	
FXL1313P5*	12.60	320	12.60	320	2.60	66	2.53	64.2	16	106	48	FXL1313P5CT401
FXL1713P5	16.93	430	12.60	320	2.60	66	2.53	64.2	24	132	60	
FXL2013P5	19.69	500	12.60	320	2.60	66	2.53	64.2	24	165	75	
FXL2513P5	24.80	630	12.60	320	2.60	66	2.53	64.2	32	212	96	
FXL3113P5	31.50	800	12.60	320	2.60	66	2.53	64.2	40	267	121	
FXL1515P5*	15.43	392	15.43	392	2.60	66	2.53	64.2	25	161	73	FXL1515P5CT401
FXL2415P5*	24.41	620	15.43	392	2.60	66	2.53	64.2	40	254	115	FXL2415P5CT401
FXL3215P5	31.89	810	15.43	392	2.60	66	2.53	64.2	50	331	150	
FXL4415P5	44.09	1120	15.43	392	2.60	66	2.53	64.2	70	463	210	
FXL2018P5	19.69	500	18.11	460	2.60	66	2.53	64.2	36	243	110	
FXL2618P5	25.59	650	18.11	460	2.60	66	2.53	64.2	48	331	150	
FXL3218P5*	31.89	810	18.11	460	2.60	66	2.53	64.2	60	388	176	FXL3218P5CT401
FXL4418P5	44.09	1120	18.11	460	2.60	66	2.53	64.2	84	551	250	
FXL2623P5	25.59	650	22.83	580	2.60	66	2.53	64.2	64	386	175	
FXL3123P5	31.50	800	22.83	580	2.60	66	2.53	64.2	80	485	220	
FXL4423P5	44.09	1120	22.83	580	2.60	66	2.53	64.2	112	683	310	
FXL5023P5	49.53	1258	22.83	580	2.60	66	2.53	64.2	128	772	350	

*Kit option available with controller included



FXL-70 Electro-Permanent Magnetic Clamping Plates

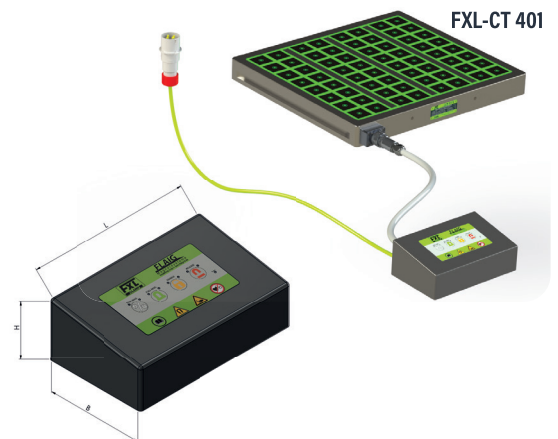
FXL magnetic chucks with pole type 70 are used to securely clamp workpieces from approximately 6"x6" for thicker workpieces approximately 5/8" and thicker. Poles of size 2.75"x2.75" generate a magnetic field that penetrates approximately 11/16" into the workpiece, which is why they are particularly suitable for larger workpieces. Deep magnetic field reach out allows uneven workpieces to be clamped securely. In addition, pole extensions with a larger stroke can be used on 70 poles for height compensation. The nominal holding force is a very strong 232 lb/in² for a total of 1,654 lbs (78kn) per pole.

Model	Dimensions (in/mm)					Quantity Pole° N	Weight (lb/kg)	Kit Part Numbers				
	L (in/mm)	W (in/mm)	H (in/mm)	A (in/mm)								
FXL2412P7	24.02	610	12.20	310	2.60	66	3.24	82.2	18	198	90	
FXL3112P7	31.50	800	12.20	310	2.60	66	3.24	82.2	24	265	120	
FXL3912P7	39.37	1000	12.20	310	2.60	66	3.24	82.2	30	220	100	
FXL1915P7	18.50	470	15.35	390	2.60	66	3.24	82.2	20	88	40	
FXL2415P7*	24.02	610	15.35	390	2.60	66	3.24	82.2	24	243	110	FXL2415P7CT401
FXL3115P7	31.50	800	15.35	390	2.60	66	3.24	82.2	32	331	150	
FXL3915P7	39.37	1000	15.35	390	2.60	66	3.24	82.2	40	408	185	
FXL2419P7	24.02	610	18.90	480	2.60	66	3.24	82.2	30	309	140	
FXL3119P7*	31.50	800	18.90	480	2.60	66	3.24	82.2	40	408	185	FXL3119P7CT401
FXL3919P7	39.37	1000	18.90	480	2.60	66	3.24	82.2	50	507	230	
FXL4719P7	47.24	1200	18.90	480	2.60	66	3.24	82.2	60	606	275	
FXL2423P7	24.02	610	22.83	580	2.60	66	3.24	82.2	36	375	170	
FXL3123P7	31.50	800	22.83	580	2.60	66	3.24	82.2	48	489	222	
FXL3923P7*	39.37	1000	22.83	580	2.60	66	3.24	82.2	60	606	275	FXL3923P7CT401
FXL4723P7	47.24	1200	22.83	580	2.60	66	3.24	82.2	72	739	335	
FXL3230P7	32.28	820	30.31	770	2.60	66	3.24	82.2	64	672	305	

*Kit option available with controller included

Model	# of Channels	L (in/mm)	B (in/mm)	H (in/mm)			
FXLCT401	1	11.02	280	6.97	177	4.53	115
FXLCT402	2	11.02	280	6.97	177	4.53	115

Also available in 230V supply voltage or as -S version for single magnet application with full demagnetization



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