



Essen has a wide range of red painted Alnico magnets:

Alnico rod magnets / Alnico cylindrical bar magnets

This kind of magnets are supplied red painted. These alnico magnets are very popular of sensing applications and for experimental use in schools.



ITEM #	Length		Diameter		Description	Magnetization
	in	mm	in	mm		
ES0805	3/4	19.1	1/4	6.4	Cylindrical	north pole one end, south pole opposite end
ES0806	1	25.4	5/16	8.0	Cylindrical	north pole one end, south pole opposite end
ES0807	1-3/16	30.1	3/8	9.5	Cylindrical	north pole one end, south pole opposite end

Alnico rectangular bar magnets

This kind of magnets are supplied red painted. Alnico rectangular bar magnets are very popular of sensing applications and for experimental use in schools. They are made from Alnico 2 and Alnico 5 grade materials.

ITEM #	Length		Width		Height		Description	Magnetization
	in	mm	in	mm	in	mm		
ES0843	3	76.2	19/32	15.1	13/32	10.3	Rectangular	north pole one end, south pole opposite end
ES0844	3/4	19.1	13/32	10.3	3/16	4.8	Rectangular	north pole one end, south pole opposite end
ES0845	1-9/16	39.7	1/2	12.7	3/16	4.8	Rectangular	north pole one end, south pole opposite end
ES0846	2-3/8	60.3	19/32	15.1	3/16	4.8	Rectangular	north pole one end, south pole opposite end

Alnico Horseshoes magnets

The alnico horseshoe magnet is a classic alnico magnet shape. All of these horseshoes magnets are Cast Alnico, and usually go with a Zinc plated steel keeper.



Item #	Width		Height		Thickness		Gap		Pull		Description
	in	mm	in	mm	in	mm	in	mm	lbs	kg	
ES0801	7/8	22.2	7/16	11.1	5/16	7.9	1/4	6.4	3.0	1.4	Rectangular
ES0802	7/8	22.2	1	25.4	1/4	6.4	1/4	6.4	5.3	2.4	C - Horseshoe
ES0803	1-1/16	27.0	1-3/8	34.9	5/8	15.9	5/16	7.9	8.8	4.0	C - Horseshoe



Item #	Width		Height		Thickness		Gap		# of Holes	Hole Dia.		Pull		N.W. g
	in	mm	in	mm	in	mm	in	mm		in	mm	lbs	kg	
ES0811	1-3/16	30.2	3/4	19.1	3/4	19.1	19/32	15.1	1	5/32	4.0	9.9	4.5	60g
ES0812	1-9/16	39.7	1	25.4	1	25.4	3/4	19.1	1	13/64	5.2	20	9.0	120g
ES0813	1-3/4	44.5	1-3/16	30.2	1-1/8	28.6	29/32	23.0	1	13/64	5.2	26	11.8	180g
ES0814	2-1/4	57.2	1-3/8	34.9	1-3/4	44.5	1-3/32	27.8	2	5/16	7.9	52	23.5	370g
ES0815	2-3/4	69.9	1-5/8	41.3	2-1/4	57.2	1-11/32	34.1	2	5/16	7.9	82	37	710g
ES0816	3-1/8	79.4	2-1/8	54.0	3-1/4	82.6	1-1/2	38.1	2	3/8	9.5	104	47	1450g
ES0817	2-3/8	60.3	1-9/16	39.7	2-7/16	61.9	1-1/4	31.8	1	1/4	6.4	77	35	600g
ES0818	3-1/8	79.4	2-1/8	54.0	3-3/8	85.7	1-7/8	47.6	0	---	---	132	60	1530g

Alnico button magnets

The alnico button magnet is a two pole rounded horseshoe magnet usually with a hole in the centre and a slot separating the two poles



Item #	Diameter		Height		Slot		Hole Dia.		Pull		Net Weight g
	in	mm	in	mm	in	mm	in	mm	lbs	kg	
ES0821	1/2	12.7	3/8	9.5	5/32	4.0	11/64	4.4	1.5	0.7	6 g
ES0822	3/4	19.1	1/2	12.7	7/32	5.6	3/16	4.8	4.2	1.9	2 g
ES0823	1	25.4	5/8	15.9	7/32	5.6	3/16	4.8	7.5	3.4	48 g
ES0824	1-1/4	31.8	1	25.4	5/16	7.9	9/32	7.1	11	4.8	113 g
ES0825	7/8	22.2	3/4	19.1	1/4	6.4	3/16	4.8	6.6	3.0	

Shallow Pot Magnet

The shallow pot magnet is a ferromagnetic steel cup into which is inserted a countersunk ring magnet. There is a hole all the way through the countersunk mounting pot magnet. This allows a screw head to be inserted into the magnet to screw the shallow pot magnet to any material of your choice to give a good mechanical hold.

The shallow pot magnet is a very popular pot magnet, ideal for clamping and holding applications. It is designed to clamp directly onto ferromagnetic surfaces such as mild steel.



Item #	Diameter		Height		Hole Dia		Pull		Description	Magnetization
	in	mm	in	mm	in	mm	lbs	kg		
ES0826	3/4	19.1	5/16	7.9	9/64	3.6	6.6	3.0	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0827	1-1/8	28.6	11/32	8.7	3/16	4.8	11	5.0	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0828	1-1/2	38.1	27/64	10.7	3/16	4.8	29	13.0	cylindrical, round w/ hole in middle	north & south pole on same plane

Deep pot magnet

Deep Pot magnet has a threaded hole in the centre of the ferromagnetic mild steel cup and a solid disc magnet inserted inside the cup. The threaded section does not go all the way through the pot magnet - it is only within the mild steel cup section.

Deep pot magnets are very popular in clamping applications because you can simply bolt them onto your assembly.



Item #	Diameter		Height		Thread	Pull		Description	Magnetization
	in	mm	in	mm		lbs	kg		
ES0829	3/8	9.5	19/32	15.1	M3	2.2	1.0	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0830	1/2	12.7	5/8	15.9	M4	4.4	2.0	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0831	11/16	17.5	5/8	15.9	10-32	5.9	2.7	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0832	13/16	20.6	3/4	19.1	10-32	8.8	4.0	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0833	1-5/64	27.4	1	25.4	10-32	13	6.1	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0834	1-3/8	34.9	1-3/16	30.2	10-32	33	14.8	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0835		45		30	M6		30	cylindrical, round w/ hole in middle	north & south pole on same plane
ES0836		50		40	M6		41		

All above red painted alnico magnets can be offered in other dimension, and we also can supply custom made alnico magnets.