

Permanent Lifting Magnet - WARNING AND APPLICATION



Prior to operation, you should clear away the components surface from such things as rust and debris. The centerline of lifter must overlap with centerline of component then place the magnetic lifting hoist on the face of component, turn the handle from "OFF" to "ON" and confirm unit is holding. Make sure the security key on the handle is automatically locked, and then start to hoist for trial lift.

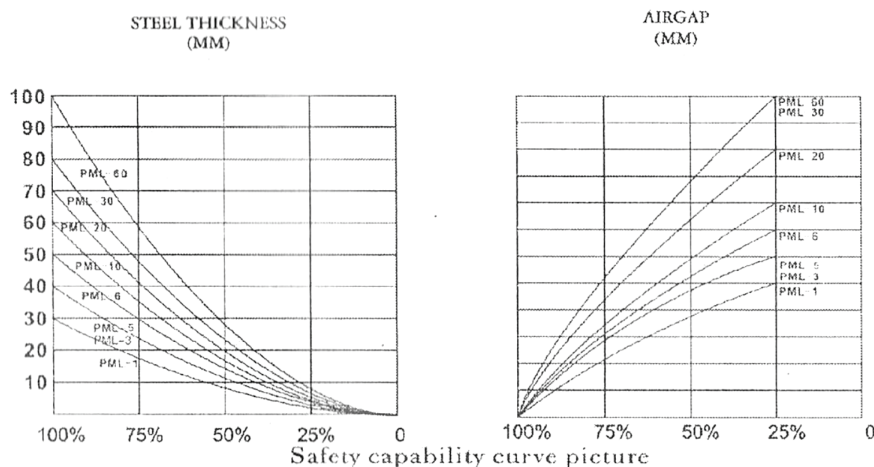
Air Gap – These lifting magnets create high magnetic forces which permit the magnet to clamp materials through the air gap but these air gaps do however decrease the magnetic performance due to the fact that they provide a barrier between the contact surfaces. Air gaps can happen in a variety of ways, such as dust, paint, and mill scale. Inadequately machined surfaces will also make up an air gap. The lifting magnet will need to be down rated in capacity according to the adhesive force / air gap as shown in the diagram below.

Material Thickness – When lifting magnets are used to lift materials which are thinner than the recommended minimum thickness, the clamping force of the magnet will be considerably lower. See below diagram for detailed information.

Full lifting capacity is only achieved when the lifting magnet has complete contact with the item being lifted. Performance will be affected if the surface of the materials to be lifted contains holes or is uneven. A trial lift must be carried out in these situations to establish correct lifting prior to transporting the load. Some materials will have differing abilities to carry magnetism. Apart from mild steel, a reduction factor needs to be applied so that the clamping force can be effectively calculated.

Model	Flat Material			Round Material			Tear off Force Kg
	Maximum Capacity SWL	Minimum Thickness to obtain Max. SWL	Maximum Length of Material	Maximum Capacity SWL	Diameter	Maximum Length of Material	
	Kg	mm	mm	Kg	mm	mm	
PML-100	100	30	2000	30	200-300	2000	300
PML-300	300	40	2500	100	200-300	2500	900
PML-600	600	50	3000	200	200-400	3000	1800
PML-1000	1000	60	3500	300	200-400	3500	3000
PML-2000	2000	70	3500	600	200-400	3500	6000

***** Read and understand Operating Instructions (supplied with every unit) before using this product *****



Reduction of capacity for material type	% of capacity
Temperature ≤ 80°C	100%
Humidity ≤ 80%	100%
Low Carbon Steel	100%
St 52	95%
Alloy Steel	80%
High Carbon Steel	70%
Cast Iron	45%
Nickel	45%
Austenitic Stainless Steel	0%
Brass	0%
Aluminum	0%



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