

**FEATURES:**

- Made by "Rare Earth" magnet with technology of improvement.
- All new models with "light weight" * "less dimension" and "lower price".
- Made by permanent magnet, require no power supply, thus eliminating hazards due to failure wiring system as electric type.
- It features powerful magnetic force, with 3.5 times safety coefficient makes more safety in use.

APPLICATIONS:

- Suitable for move plate steel, block steel and round steel, such as machine parts, press molds, plastic molds and iron material.....etc.

LOAD OF HOLDING POWER:

The load of holding power will changes depending on the thickness, attractive face roughness and quality of material and quality of material and clearance between the workpiece with magnet. (See as the graphs as below)

Chart of difference in holding power by thickness:

THICKNESS	PERCENTAGE OF LIFTING CAPACITY	PERCENTAGE OF LIFTING CAPACITY	PERCENTAGE OF LIFTING CAPACITY	PERCENTAGE OF LIFTING CAPACITY	PERCENTAGE OF LIFTING CAPACITY
F1 60kg	100%				
F2 55	100%				
F3 50	80%	100%			
F4 45	60%	80%	100%		
F5 40	40%	60%	80%	100%	
F6 35	20%	40%	60%	80%	100%
F7 30	10%	20%	40%	60%	80%
F8 25	5%	10%	20%	40%	60%
F9 20	3%	5%	10%	20%	40%
F10 15	2%	3%	5%	10%	20%
F11 10	1%	2%	3%	5%	10%
F12 5	0%	1%	2%	3%	5%

Chart of difference in holding power by attractive face roughness:

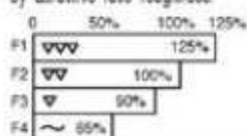
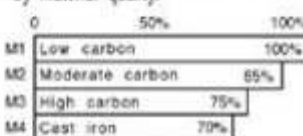


Chart of difference in holding power by material quality:

**EXAMPLE:**

Terms of workpiece: T8, F1 and M2
 90% X 125% X 85% X 600kg (PTL-600) = 573kg

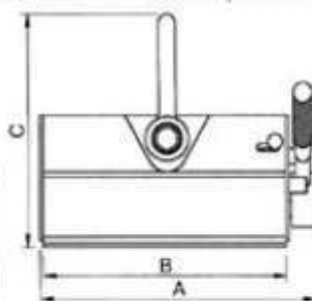
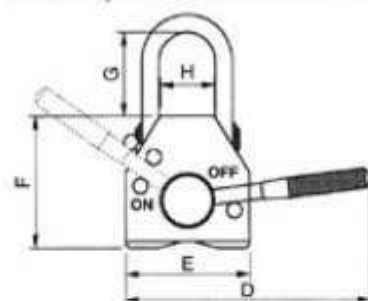
CALCULATING FORMULA FOR RANGE OF LIFTING CAPACITY:
 $T \times F \times M \times \text{CAPACITY OF LIFTER}$

MAXIMUM LIFTING RANGE:

Unit:mm

FROM OF MATERIAL		STEEL PLATE			ROUND STEEL		
Order No.	Model	MAX. LIFTING CAPACITY	MIN. THICKNESS REQUIRED	MAXIMUM LENGTH	MAX. LIFTING CAPACITY	MAX. DIAMETER	MAXIMUM LENGTH
34169-01	PTL-100	100 kg	15	1000	45 kg	150	1000
34169-03	PTL-300	300 kg	25	1500	135 kg	250	1500
34169-06	PTL-600	600 kg	30	2000	270 kg	350	2000
34169-10	PTL-1000	1000 kg	40	2500	450 kg	450	2500
34169-20	PTL-2000	2000 kg	55	3000	900 kg	550	3000

The above diagrams is only for reference. The operator should be test and check if it is in safe range before lift away the workpiece of steel. Other wise, it will be not responsibility by producer for any accidents.

**EXAMPLE:**

⚠ Never moves the handle to "ON" side, except on an iron object of holding.

Unit:mm

Order No.	MODEL	CAPACITY	A	B	C	D	E	F	G	H	SAFETY COEFFICIENT	WEIGHT (kg)
34169-01	PTL-100	100 kg	107	84	120	125	60	71	41	30	×3.5 times	2.5
34169-03	PTL-300	300 kg	180	155	156	185	90	93	51	41		8.6
34169-06	PTL-600	600 kg	255	224	212	260	115	120	77	52		21
34169-10	PTL-1000	1000 kg	280	245	286	371	165	169	97	87		46
34169-20	PTL-2000	2000 kg	422	380	348	512	216	215	105	121		118