

# POWERTEX

GB Instruction for use  
DK Brugsanvisning

# POWERTEX

## Permanent Lifting Magnet PLM

User Manual



# POWERTEX Permanent Lifting Magnet PLM 100 kg – 2 ton

## Instruction for use (GB) (Original instructions)

These instructions contains all the information required for safe and optimum use of the lifting magnet. Read the instructions carefully and follow the directions. Keep the instruction in a safe place close to the workplace.

On delivery check that the magnet is undamaged and complete. If the equipment is damaged or incomplete, contact your supplier immediately.

The complete delivery consists of:

- POWERTEX Magnet 100 kg, 300 kg, 600 kg, 1 t or 2 t.
- Test certificate
- Operating and maintenance instructions incl. EC Declaration of Conformity

Never use a damaged or incomplete magnet!

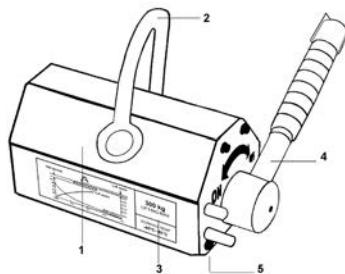
The guarantee is not applicable to shortcomings that can be wholly or partially attributed to:

- Failure to comply with the operating and maintenance instructions or use considered as being other than normal user.
- Normal wear.
- Modifications or repairs not performed by us.

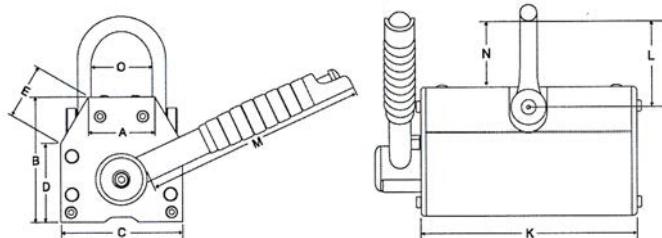
In all correspondence regarding your lifting magnet always state the information displayed on the type plate.

Names of the most important parts of the lifting magnet

- 1 Magnet
- 2 Lifting eye
- 3 Type- and instruction plate
- 4 Handle
- 5 Pole shoes



Technical specifications and dimensions



Rated output flat steel	100 kg	300 kg	600 kg	1 ton	2 ton
A mm	29	39	51	64	92
B mm	71	96	118	140	188
C mm	64	88	118	148	188
D mm	47	63	74	90	122
E mm	29	41	57	66	82
K mm	92	165	216	286	397
L mm	54	78	114	126	150
M mm	130	158	199	246	375
N mm	45	63	94	106	120
O mm	31	45	57	73	100
Max. handle turning force kgf	< 4	< 8	< 8	< 16	< 16
Net weight kg.	3	10	20	40	95



### Safety

Warning for incorrect operation or action that could have physical injury or damage to the equipment as a result.

### Safety instructions

1. Never use this magnet before these instructions have been read and understood.
2. Persons fitted with a pacemaker or other medical equipment should never use the magnet without first consulting a medical specialist.
3. Never remove warning or instruction plates from the magnet.
4. Do always wear safety glasses, gloves, protective footwear and a helmet.
5. Never stand or move under the load.
6. Never transport over or close to people.
7. Never use the magnet as an aid to lifting, supporting or transporting persons.
8. Warn bystanders when beginning to lift and load.
9. To prevent the hook from slipping out of the eye hook we recommend the use of a lifting hook equipped with a safety latch.
10. Ensure that the weight and dimensions of the load to be lifted do not exceed the maximum permitted values.
11. Never use a damaged or poorly operating magnet.
12. Only switch the magnet on when it has been placed on the load.
13. Only switch the magnet off when the load has been placed on a stable surface.
14. Never lift more than one work piece at a time with this magnet.
15. Never leave a hoisted load unattended.
16. The temperature of the load or the surroundings must never exceed 80°C.



### Determining the workload limit (WLL)

The workload limit of type 100 = 100 kg.

The workload limit of type 300 = 300 kg.

The workload limit of type 600 = 600 kg.

The workload limit of type 1000 = 1000 kg.

The workload limit of type 2000 = 2000 kg.

The workload limit may become less as a result of:

1. Air gaps between the load and the magnet, caused by paper, dirt, paint, burrs, damage, surface roughness etc. either on the load or the magnet.
2. Thin loads. The thinner the load, the less the lifting capacity.
3. Length and width of the load. Long, wide parts that hang outside the magnet protrusions, resulting in an air gap. This is called the peeling effect.



Never exceed the maximum weight and/or dimensions for the material thickness stated in the table.

Never place the magnet over a large hole or bore.

4. The load material type. In general it applies that: high alloy percentage = low lifting capacity.  
Some alloys are non-magnetic (e.g. stainless steel 304).
5. A small contact surface between pole shoes and load. In case the load does not fully cover the pole shoes, the lifting capacity will be reduced by the same percentage.



A workpiece should ideally cover both pole shoes, but if this is not possible always to an equal amount.

6. The magnet must remain fully horizontal during transport.

**Unsafe applications:**


Never lift several workpieces simultaneously  
(e.g. thin sheets)



Never lift a load on the smallest side.

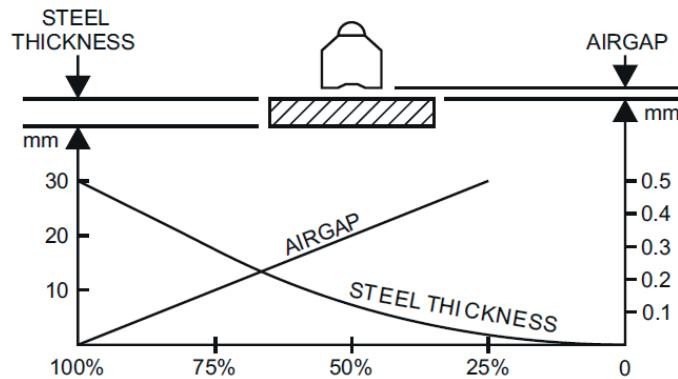
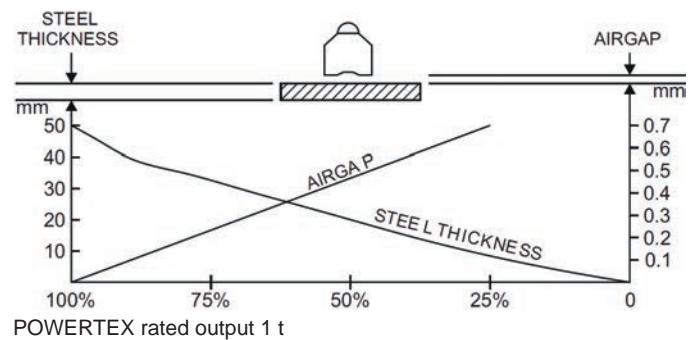
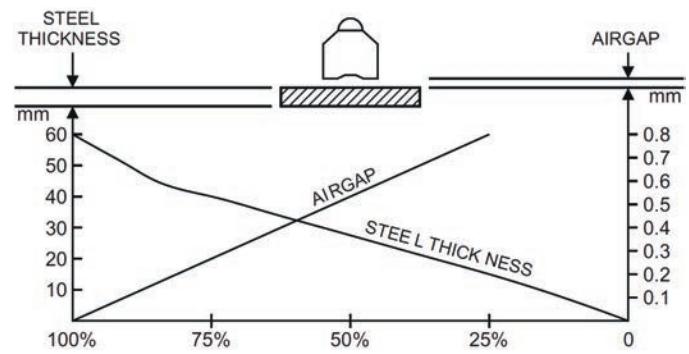
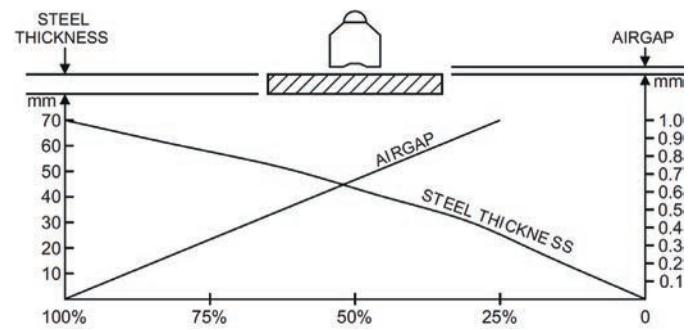
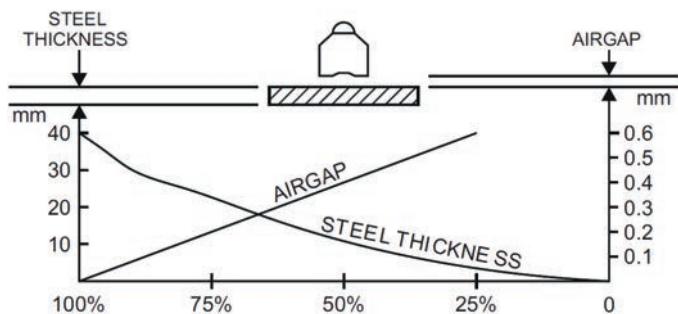


Never place the magnet with the long side lengthwise on a  
flexible workpiece (peeling effect).



Not approved for vertical side lifting.

Size		
100	100 kg	40 kg
300	300 kg	125 kg
600	600 kg	250 kg
1000	1 t	400 kg
2000	2 t	800 kg

**POWERTEX rated output 100 kg**

**POWERTEX rated output 600 kg**

**POWERTEX rated output 1 t**

**POWERTEX rated output 2 t**

**POWERTEX rated output 300 kg**


## Operation

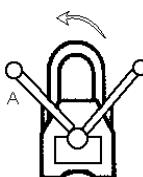
### Read the safety instructions before operating the magnet.

1. Check the condition of the magnet each time before use. Wipe the pole shoes on the magnet and the contact surface of the workpiece clean. If necessary file off any burrs or irregularities.
2. Place the magnet on the workpiece and position the magnet in such a manner that it remains horizontal during lifting (determine the centre of gravity of the workpiece as accurately as possible).
3. Grasp the handle and switch the magnet on by placing the handle in position A. Allow the spring pressure to pull the handle back into the locked position.

Check this! Only now the handle can be released.



Never try to switch the magnet ON or OFF while it is sitting on very thin, on non-magnetic material, or in the air.



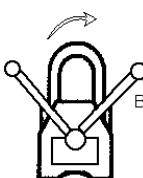
4. Lift the load several centimeters and give the load a firm push to ensure that it is well gripped.

Never stand under the load!

5. Guide the load by holding the corners. Avoid collisions, swinging and shocks.

Never stand under the load and keep the load horizontal!  
Lower the load onto a stable surface.

6. Grasp the handle bar and pull the handle out of its locked position.  
Switch the magnet off by placing the handle in position B.  
Allow the spring pressure to pull the handle back into the locked position.



Check this! Only now the handle can be released.



**Caution:** light workpieces may stick to the magnet after it has been switched off!

Never release the handle before same is fully locked.

## Inspection and maintenance of the lifting magnet

### 1. Before use

Check the entire magnet visually. Brush the pole shoes of the magnet and the contact surface of the workpiece clean. If necessary file off any burrs or irregularities. Do not use the magnet if you have discovered any defects. Check the operation of the handle and locking plate.

### 2. Weekly

Check the entire magnet, including the hook eye, lifting cover and bolts for deformities, cracks or other defects. If the lifting eye is deformed or more than 10% worn off, it should be replaced. Check the presence and legibility of the type plate and instruction plate. Check the pole shoes. If they are more than 10% damaged (pits, burrs etc.) the magnet should be returned to your supplier or an authorised agent for regrinding. Lifting capacity is checked following this operation.

### 3. Annually

Have the lifting capacity of your magnet checked by your supplier or an authorised agent at least once a year.

### End of use treatment and disposal:

Disassemble product, separating the magnetic material from other components.

Contact your local metal/industrial recycling collector.  
For further assistance please contact us.

### Disclaimer

We reserve the right to modify product design, materials, specifications or instructions without prior notice and without obligation to others.

If the product is modified in any way, or if it is combined with a non-compatible product/component, we take no responsibility for the consequences in regard to the safety of the product.

### EC Declaration of conformity

SCM Citra OY  
Asessorinkatu 3-7  
20780 Kaarina, Finland  
[www.powertex-products.com](http://www.powertex-products.com)  
hereby declares that the POWERTEX product as described above is in compliance with EC Machinery Directive 2006/42/EC & EN 13155.

### UK Declaration of conformity

SCM Citra OY  
Asessorinkatu 3-7  
20780 Kaarina, Finland  
[www.powertex-products.com](http://www.powertex-products.com)  
hereby declares that the POWERTEX product as described above is in compliance with the Supply of Machinery (Safety) Regulations 2008 & BS EN 13155.

# POWERTEX Permanent løftemagnet PLM 100 kg – 2 ton

## Brugsanvisning (DK)

Denne vejledning indeholder alle nødvendige oplysninger for at kunne betjene og udnytte løftemagneten optimalt og sikkert. Læs vejledningen og følg anvisningerne. Gem vejledningen og opbevar den på arbejdspladsen.

Ved leveringen skal du kontrollere, at løftemagneten er i god stand og komplet. Hvis du konstaterer fejl eller mangler ved apparatet, skal du øjeblikkelig kontakte din leverandør.

Leveringen omfatter følgende dele:

- POWERTEX løftemagnet 100 kg, 300 kg, 600 kg, 1 t eller 2 t.
- Test certifikat
- Betjenings- og vedligeholdelsesforskrifter inkl. EU-overensstemmelseserklæring

Anvend aldrig en beskadiget og/eller mangelfuld løftemagnet!

Garantien dækker ikke fejl, der helt eller delvis skyldes:

- At betjenings- og vedligeholdelsesforskrifterne ikke overholdes, eller at apparatet anvendes på anden måde end det er beregnet til.
- Normalt slid.
- Ændringer eller reparationer, der ikke er udført af os eller et autoriseret værksted.

Al korrespondance om din løftemagnet bedes påført magnetens data, der findes på typeskiltet.

Løftemagnetens vigtigste dele

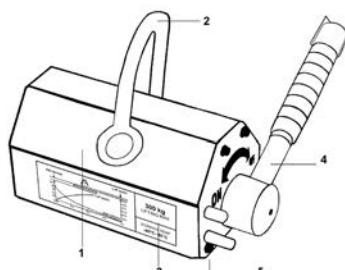
1 Magnet

2 Løfteøje

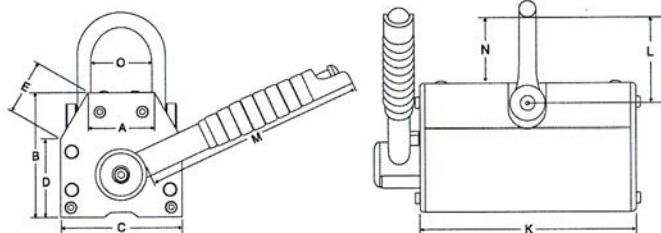
3 Type- og instruktionsskilt

4 Håndtag

5 Polsko



Tekniske data og dimensioner



Nom. ydelse fladt stål	100 kg	300 kg	600 kg	1 ton	2 ton
A mm	29	39	51	64	92
B mm	71	96	118	140	188
C mm	64	88	118	148	188
D mm	47	63	74	90	122
E mm	29	41	57	66	82
K mm	92	165	216	286	397
L mm	54	78	114	126	150
M mm	130	158	199	246	375
N mm	45	63	94	106	120
O mm	31	45	57	73	100
Max. handle turning force kgf	< 4	< 8	< 8	< 16	< 16
Nettovægt kg.	3	10	20	40	95

### Sikkerhed

Advarsel om forkert betjening eller håndtering, der kan medføre legemsbeskadigelse eller beskadigelse af apparatet.

### Sikkerhedsinstruktioner

- Denne magnet må ikke anvendes, før nærværende vejledning er læst igennem og forstået.
- Mennesker, der anvender en pacemaker eller andre medicinske apparater, må kun anvende magneten efter samråd med en specialist.
- Fjern aldrig advarsels – og/eller instruktionsskiltene fra magneten.
- Anvend altid beskyttelsesbriller, -handsker, -sko og -hjelm.
- Ophold dig aldrig under lasten.
- Transport over eller i nærheden af personer er ikke tilladt.
- Magneten må ikke anvendes som hjælpemiddel til løft, understøttelse eller transport af personer.
- Advar andre personer i nærheden om, at løftet påbegyndes.
- Anvend altid en løftekrog med sikkerhedsanordning, så løfteøjet ikke kan frigøre sig fra krogen.
- Kontroller, at vægt og mål ikke overstiger det maksimalt tilladte.
- Anvend aldrig beskadigede eller dårligt virkende magneter.
- Magneten må ikke kobles til, før den er anbragt på lasten.
- Magneten må ikke kobles fra, før lasten er sænket ned på et stabilt underlag.
- Løft aldrig mere end et emne ad gangen med denne magnet.
- Efterlad aldrig en løftet last ubevogtet.
- Lastens eller omgivelsernes temperatur må ikke overstige 80°C.



### Fastsættelse af den maksimale løfteevne (WLL)

Anbefalet maks. løfteevne for type 100 = 100 kg.

Anbefalet maks. løfteevne for type 300 = 300 kg.

Anbefalet maks. løfteevne for type 600 = 600 kg.

Anbefalet maks. løfteevne for type 1000 = 1000 kg.

Anbefalet maks. løfteevne for type 2000 = 2000 kg.

Løfteevnen kan imidlertid være mindre på grund af:

- Luft mellem lasten og magneten, der skyldes papir, snavs, maling, blærer, beskadigelser, ujævnheder på overfladen m.m. både på lasten og på magnetpolerne.

1. Lille tykkelse. Jo tyndere last, desto mindre er løfteevnen.

3. Lastens længde og bredde. Lange og brede emner, der stikker uden for magneten, hænger nedad, hvorfed der opstår et luftmellemrum. Dette kaldes for afskalningseffekten.

Overskrid aldrig de maksimale vægt og/eller dimensionsgrænser for de forskellige materialetyper i tabellen.

Magneten må aldrig anbringes over et stort hul eller en udsparing i arbejdsemnet.

- Lastens materialetype. Generelt gælder følgende:

Høj legeringsprocent, lav løfteevne.

Nogle legeringer er ikke magnetiske (f.eks. rustfrit stål 304).

- Lille kontaktflade mellem polsko og lasten. (Maks. vægt i tabellen) Hvis lasten ikke dækker alle polskoene helt, aftager løfteevnen med samme procent.



Løftemnet skal så vidt muligt dække alle polsko og i hvert fald i samme omfang.

- Under transport skal magneten holdes helt vandret.

## Usikker anvendelse:



Løft aldrig flere emner samtidigt  
(f. eks. tynde plader)



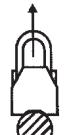
Løft aldrig et emne på den smalleste kant.



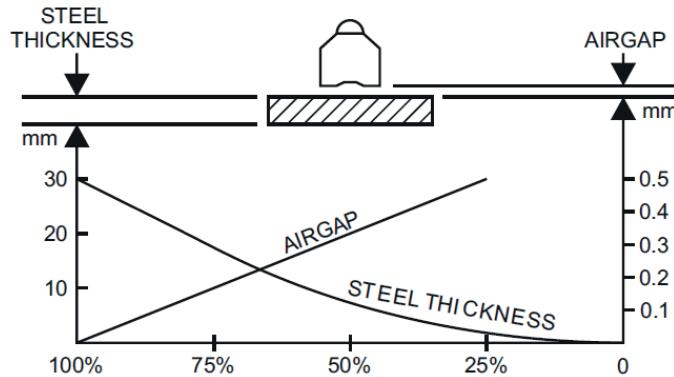
Sæt aldrig løftemagneten med den lange kant  
i løfteemnets længderetning (afskalningseffekt).



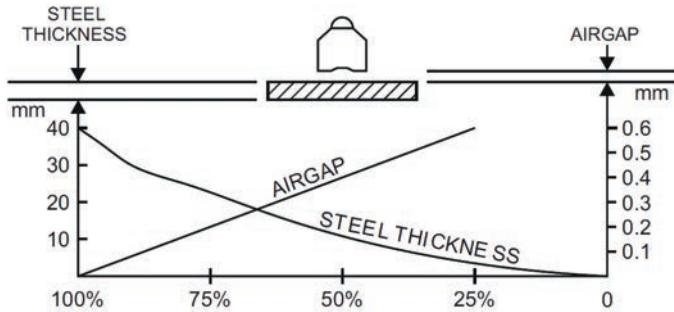
Ikke godkendt til vertikal løft.

Størrelse			
100	100 kg		
300	300 kg		
600	600 kg		
1000	1 t		
2000	2 t		
	40 kg		
	125 kg		
	250 kg		
	400 kg		
	800 kg		

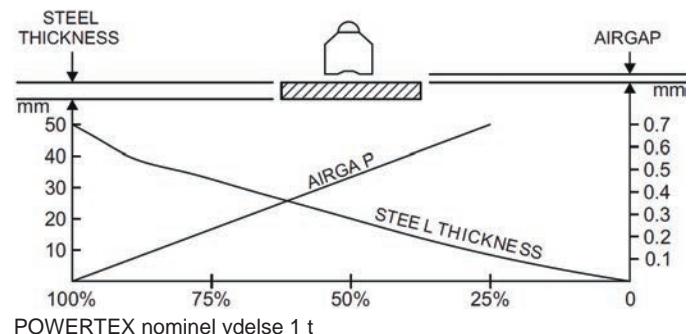
## POWERTEX nominel ydelse 100 kg



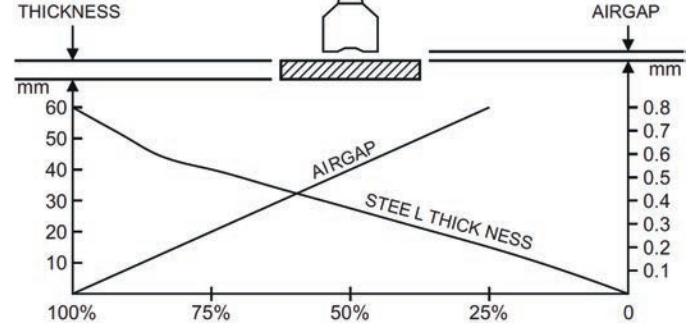
## POWERTEX nominel ydelse 300 kg



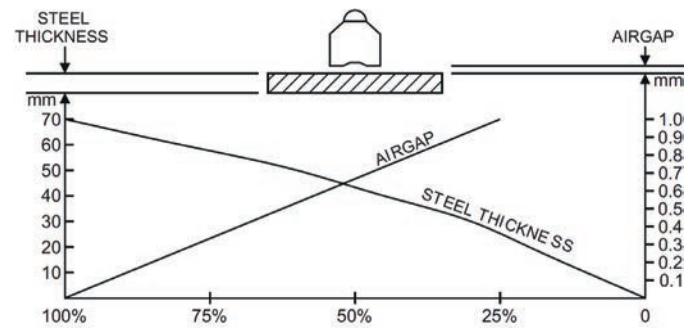
## POWERTEX nominel ydelse 600 kg



## POWERTEX nominel ydelse 1 t



## POWERTEX nominel ydelse 2 t



**Betjening**

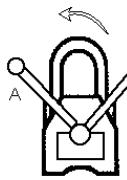
**Læs først sikkerhedsforskrifterne, før løftemagneten betjenes.**

1. Kontroller magnetens tilstand, hver gang den tages i brug. Børst magnetens polsko og arbejdsemnets kontaktfte godt ren. Fil evt. blærer og ujævnheder væk.

2. Anbring magneten på emnet, så emnet holdes vandret under løftet (fastsæt emnets tyngdepunkt så godt som muligt).

3. Tænd for magneten ved at sætte håndtaget i stilling A. Lad fjedertrykket trykke håndtaget i låsetilling.

Kontrollér dette! Slip derefter håndtaget.



**!** Tænd eller sluk aldrig for magneten, hvis denne står på meget tyndt eller ikke-magnetisk materiale eller hænger i luften.

4. Løft emnet nogle få centimeter og giv det et kraftigt skub for at sikre, at det holdes godt fast af magneten.

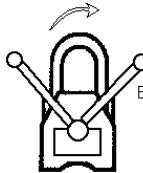
Ophold dig ikke under lasten.

5. Før det løftede emne frem ved at holde fast i hjørnerne. Undgå stød, slingren og stødvis kørsel.

Hold lasten vandret og gå ikke ind under den!

6. Tag fat i håndtaget og træk håndtaget mod fjedertrykket ud af låsetillingen. Sluk for magneten ved at sætte håndtaget i stilling B.

Lad fjedertrykket trykke håndtaget i låsetilling.



Kontrollér dette! Slip derefter håndtaget.

**!** Vær opmærksom på, at lettere emner kan klistre sig til magneten, efter at den er slået fra!  
Slip ikke grebet før det er forskriftsmæssigt låst.

Overensstemmelseserklæring  
SCM Citra OY  
Asessorinkatu 3-7  
20780 Kaarina  
Finland  
[www.powertex-products.com](http://www.powertex-products.com)

**Vedligeholdelse og kontrol af løftemagneten****1. Før brug**

Foretag en visuel kontrol af hele magneten. Børst magnetens polsko godt rene og fjern evt. blærer og ujævnheder med en fil. Magneten må ikke anvendes, hvis der konstateres defekter. Kontroller at håndtaget og udløserknappen virker.

**2. Ugentligt**

Kontroller hele magneten for forvridninger, revner eller andre defekter, inklusive løfteøjjet og boltene. Hvis løfteøjjet er bøjet eller nedslidt mere end 10%, skal det udskiftes. Kontroller, at typeskiltet og instruktions-skillet er tilstede, og at de er let læselige. Kontroller polskoene. Hvis de er mere end 10% beskadigede (huller, blærer m.m.), skal de slibes af leverandøren eller et autoriseret værksted. Løfteevnens kontrolleres efter bearbejdningen.

**3. Årligt**

Løftemagneten løfteevne skal kontrolleres årligt af leverandøren eller et autoriseret værksted.

**Kassation/Bortskaffelse:**

Afmonter produktet ved at adskille det magnetiske materiale fra andre komponenter.

Kontakt din lokale skrot genanvendelsesoperatør.

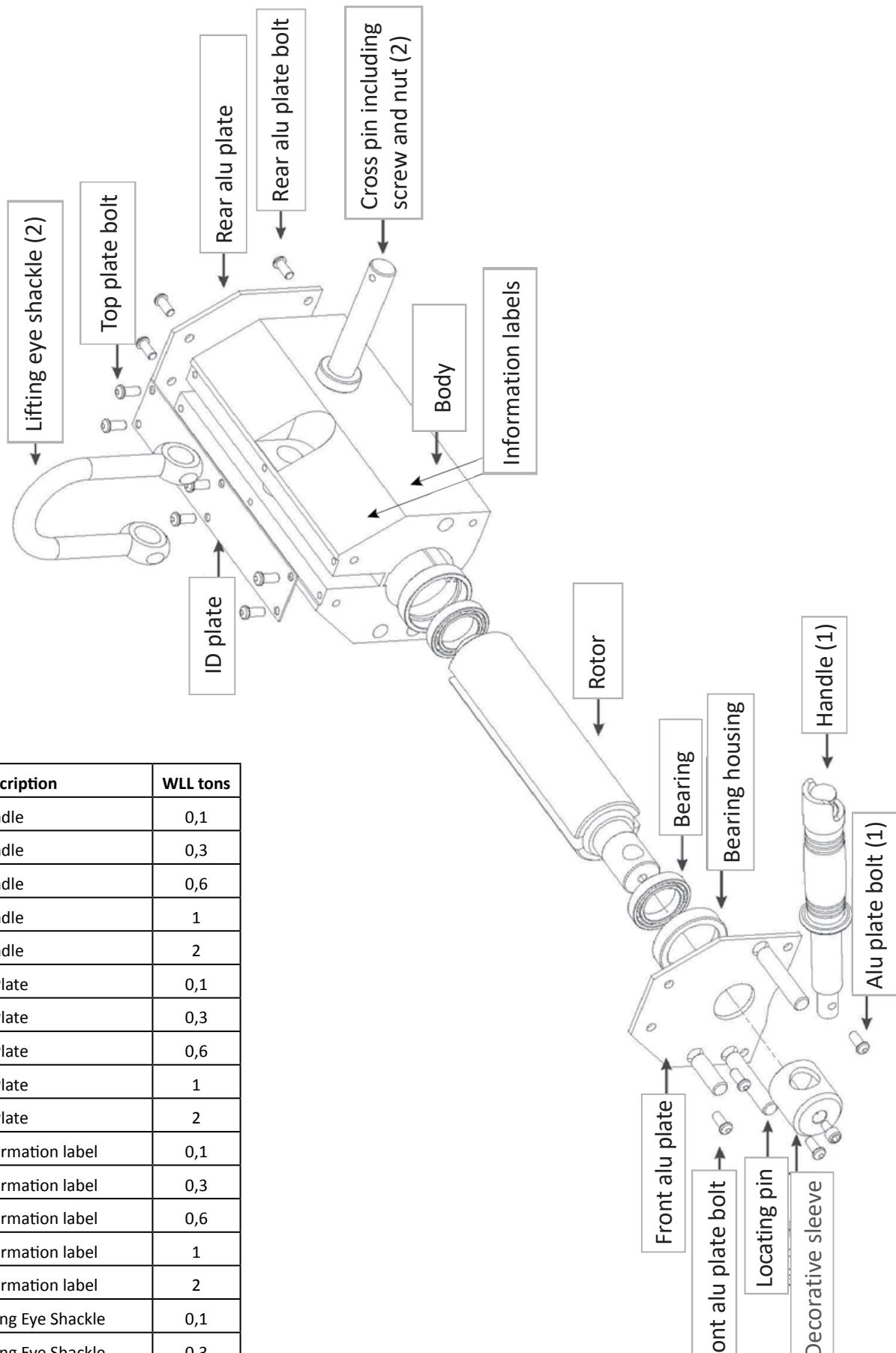
Hvis du har brug for yderligere assistance, kontakt os.

**Ansvarsfraskrivelse**

Vi forbeholder os retten til at modificere produktdesign, materialer, specifikationer eller anvisninger uden forudgående varsel og uden forpligtelse over for andre.

Hvis produktet modificeres på nogen måde, eller hvis det kombineres med et ikke-kompatibelt produkt/komponent, påtager vi os intet ansvar for konsekvenserne hvad angår produktets sikkerhed.

erklærer hermed, at Powertex produktet, som beskrevet herover, er i overensstemmelse med EF-maskindirektiv 2006/42/EU og senere ændringer og EN 13155.



Description	WLL tons
Handle	0,1
Handle	0,3
Handle	0,6
Handle	1
Handle	2
ID Plate	0,1
ID Plate	0,3
ID Plate	0,6
ID Plate	1
ID Plate	2
Information label	0,1
Information label	0,3
Information label	0,6
Information label	1
Information label	2
Lifting Eye Shackle	0,1
Lifting Eye Shackle	0,3
Lifting Eye Shackle	0,6
Lifting Eye Shackle	1
Lifting Eye Shackle	2

## CertMax+

The CertMax+ system is a unique leading edge certification management system which is ideal for managing a single asset or large equipment portfolio across multiple sites. Designed by the Lifting Solutions Group, to deliver optimum asset integrity, quality assurance and traceability, the system also improves safety and risk management levels.



## Marking

The POWERTEX Permanent Lifting Magnet is equipped with a RFID (Radio-Frequency Identification) tag, which is a small electronic device, that consist of a small chip and an antenna. It provides a unique identifier for the block.

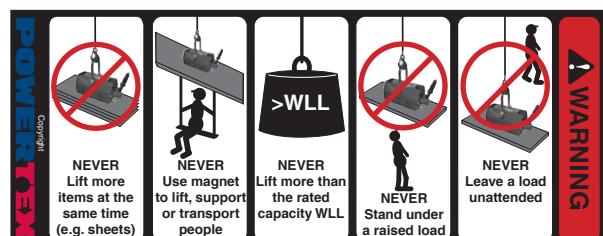


The POWERTEX Permanent Lifting Magnet is **CE** and **UKCA** marked

Standard: EN 13155

## Warning tag

The warning tag shows some specific and important situations, in which you must pay special attention, when using POWERTEX Permanent Lifting Magnet.

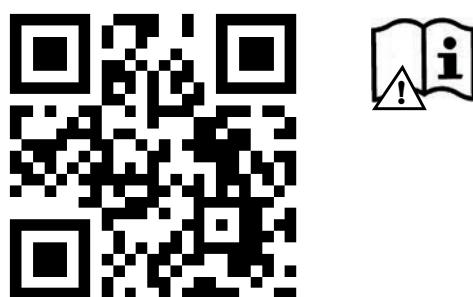


## User Manuals

You can always find the valid and updated User Manuals on the web. The manual is updated continuously and valid only in the latest version.

**NB!** The English version is the Original instruction.

The manual is available as a download under the following link:  
[www.powertex-products.com/manuals](http://www.powertex-products.com/manuals)





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[www.powertex-products.com](http://www.powertex-products.com)