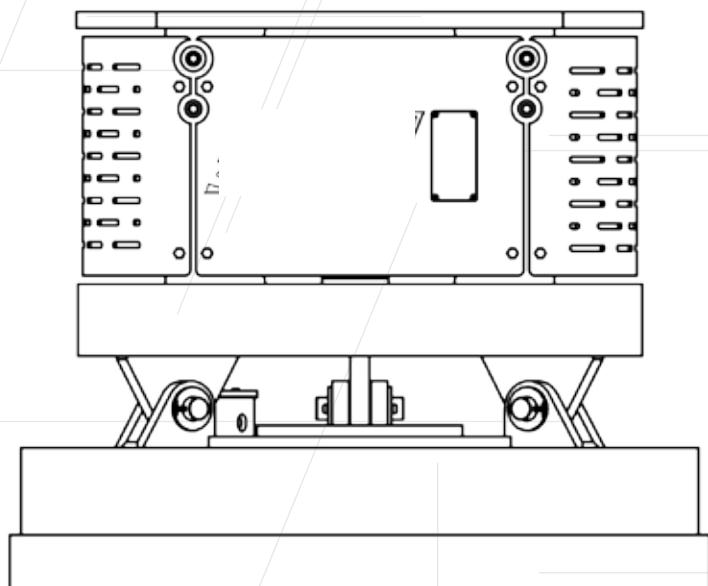
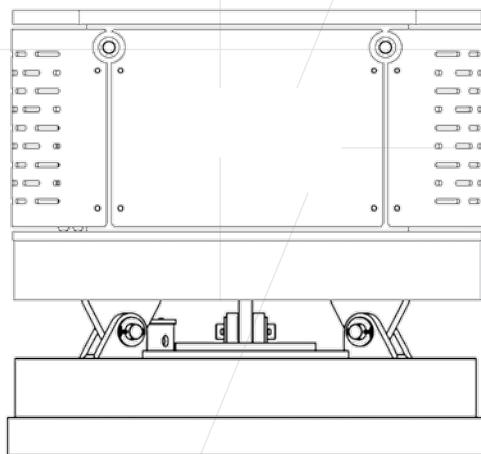


english

Lifting magnets



Lifting magnets

Overview of the differences

	Standard	Premium
warranty	24 months	36 months
Drive motor (axial piston motor up to 400bar)	12 ccm	25 ccm
Generator	9 kW	13 kW
M8	✗	✓
M14	✓	✓
M15	✓	✓
M16	✓	✓
M19	✗	✓

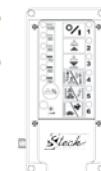
Environmentally friendly

- internal leakage oil return



Easy handling:

- compact construction, integrated power supply
- no additional installation on excavator needed
- magnet pendulum with parking device
- remote control
- multifunctional status display



Easy maintenance:

- maintenance- free components
- fourfold protection against short- circuit and overload
- vibration resistant and shakeproof
- parametrized digital generator governor
- plug & play: pluggable connections for easy commissioning and service



Generator :

- brushless, robust synchronous generator
- housing made of corrosion- free alloys
- dirty resistant housing/ special profile
- up to 25% shorter cycle times in
- maximum efficiency.
- protection class IP 65
- wear-free electronics



	Standard	Premium
Hydraulic		
Automatic regulation of pressure in the system due to intelligent valve unit.		
<ul style="list-style-type: none"> • vibration free and stable hydraulic drive. • Emergency running properties (in the event of an abrupt oil cut-off) • hydraulic motor (axial piston motor up to 400bar) • high speed range • smooth operation across the entire speed range • High efficiency • suitable for applications with high angular accelerations due to its high torsional strength 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
chassis:		
<ul style="list-style-type: none"> • louvers for better cooling • reinforcement for more stability • stiffening tube for more stability 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Elektronics :		
Safely through self-protective electronics :		
<ul style="list-style-type: none"> • Protection against short circuit , loose contact and interruption • overload • overtemperature • lower and overspeed • waterproof protected against weather 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Easy and efficient control:		
<ul style="list-style-type: none"> • simple hydraulic connection (hammer hydraulics) • Thourgh clamshell angular momentum or due to remote control • Clear and fast on- board- diagnosis. • Fast and precise localization in case of disturbances. • Flash code for remote diagnosis. 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Intelligent control:		
<ul style="list-style-type: none"> • automatic self-adjustment to various magnetic disk sizes • extensive diagnostic capability • vibration-free and stable hydraulic 	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

Lifting magnets

Standard Premium

Advantages of magnet plates:

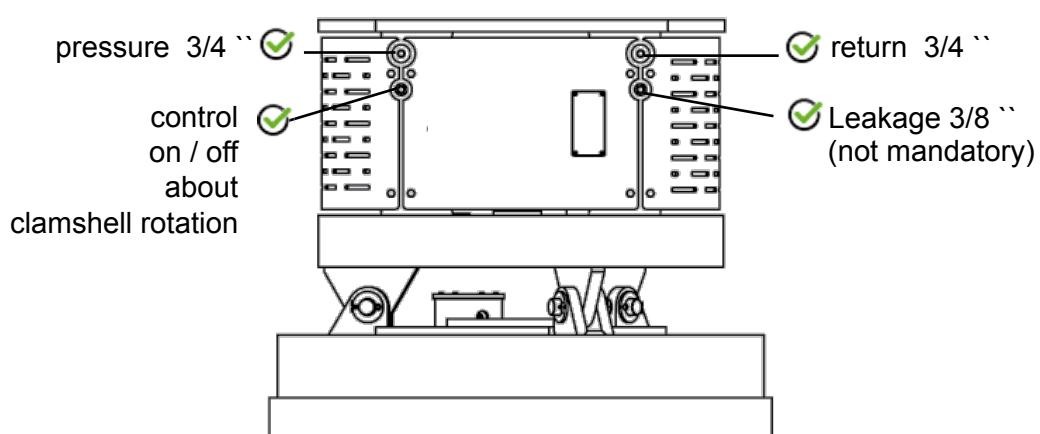
- Hermetically closed steel housing shakeproof and wear-resistant
- vibrations and abrasion
- Magnetic circuit protected against external influences and moisture.
- optimal weight- performance ratio guarantees maximum handling easy.
- Temperature equalization due to steel surface.
- cable protection



Operation of magnet plates:

No special maintenance needed except from periodic checking of electric connections, suspension connections and housing.

Connection for hydraulic comonents - Premium



Setting/ regulation of hydraulic:

Therefore no precise hydraulic setting needed

Setting details M3 - M4

Oil flow	60 - 120 litres
Operating pressure	80 - 270 bar

Setting details M8 - M22

Oil flow	90 - 250 litres
Operating pressure	200 - 350 bar
Return pressure max.	> 30 bar
Leakage oil max.	> 10 bar

recommended setting

Oil flow	140 litres
Operating pressure	> 250 bar
Return pressure	> 20 bar
Leakage oil	> 10 bar



Lifting magnets advantage

① Efficient lifting with voltage surge

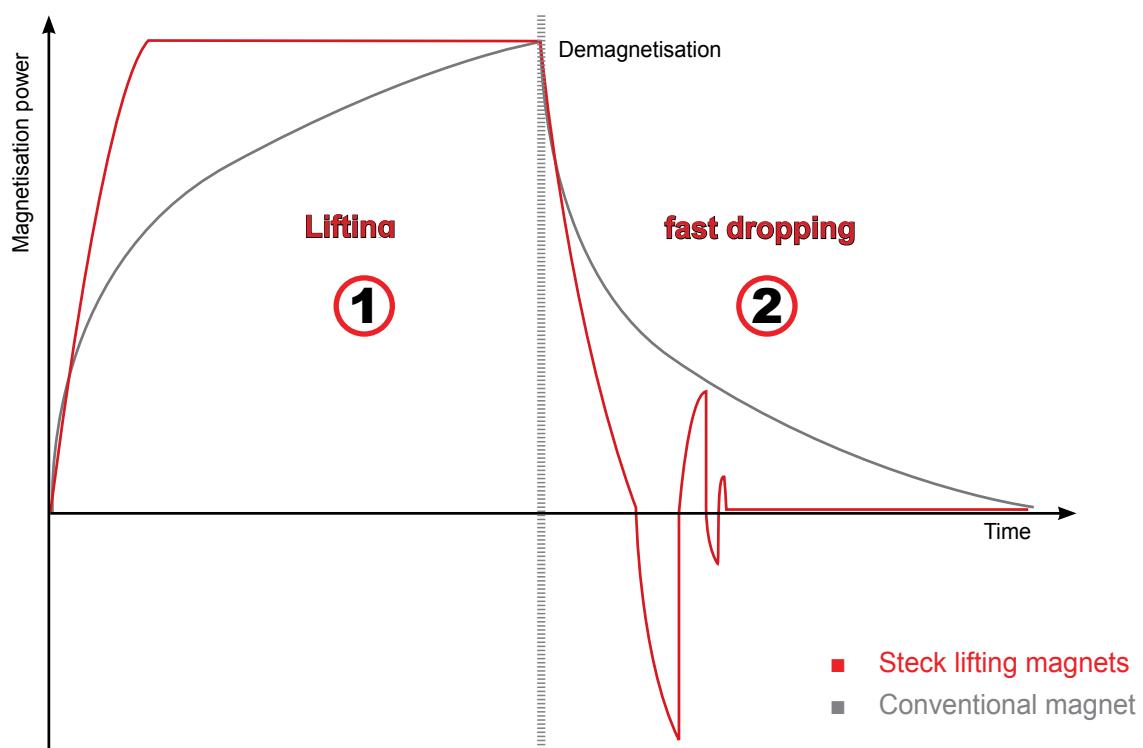
To work even more efficient, Steck generator use a special technique.

Due to a higher cut- in voltage the magnet picks up more material, before holding voltage is adjusted automatically. Therefore more material is loaded faster and safer. As a consequence this technology saves working time, wearing and fuel.

② Variable demagnetization phase optimizes dropping

Time and strength of demagnetization determine the dropping of the magnet.

Steck generators adjust these factors perfectly to the performance of the magnet. Therby a faster turn on is possible too. After demagnetization the magnet is completely clean (no chips, pipes, plates or mixed scrap).





M16 up - down pendular



M16 up rigid, down pendular



M16S Premium up - down rigid



M16 up - down rigid



M16 with rotation 360°

Lifting magnets

M3S to M4S Rigid version (S) Premium

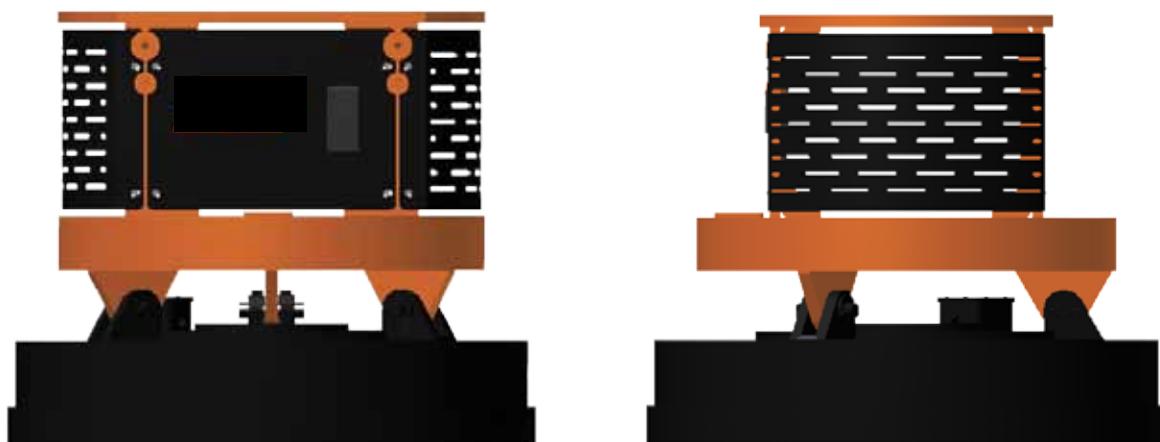


Technical details

	M3S	M4S
operating weight (t)	5 - 10	6 - 12
weight without adapter (kg)	250	420
load capacity (kg)	2.000	2.700
Ø in mm	720	720
height	430	620
quick hitch	MS03	MS08

Lifting magnets - Standard

M14S to M16S Rigid version (S) Standard

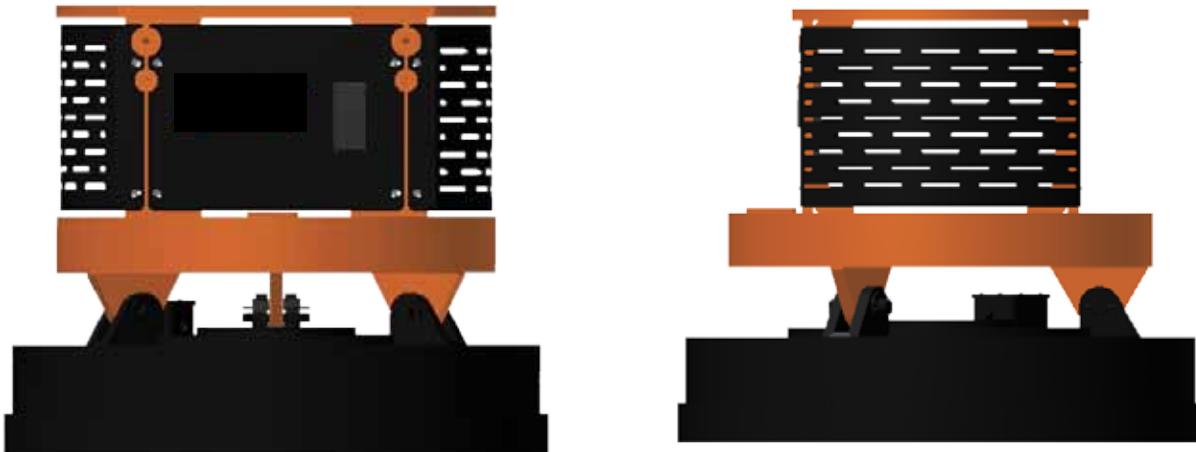


Technical details

	M 14	M 15	M 16
operating weight (t)	12 - 30	15-35	15 - 45
weight without adapter kg)	1.360	1.480	1.650
generator power(kW)	9	9	9
magnet plate power (kW) cold	6	7	8,9
magnet plate power (kW) according to VDE0580	4,4	5,5	7

Lifting magnets - Premium

M8S to M19S Rigid version (S) Premium



Technical details

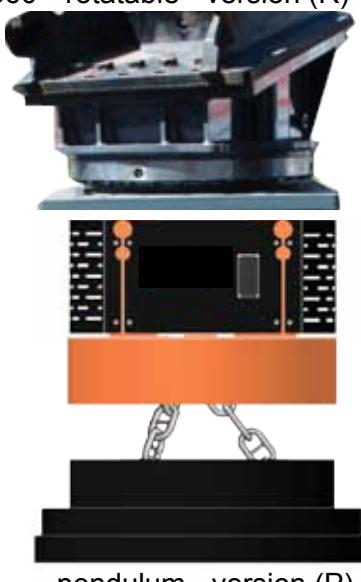
	M 8	M 14	M 15	M 16	M 19
operating weight (t)	7 - 15	12 - 30	15-35	15 - 45	24 - 55
weight without adapter (kg)	800	1.360	1.480	1.650	1.970
total height (mm)	1.000	1.017	1.017	1.042	1.022
total diameter (mm)	860	1.060	1.140	1.250	1.350
generator power(kW)	9	13	13	13	13
magnet plate power (kW) cold	6	7	8,9	10,8	12,8
magnet plate power (kW) according to VDE0580	4,4	5,5	7	9	10

Lifting magnets extras for all types

also available with 3 - 5 teeth

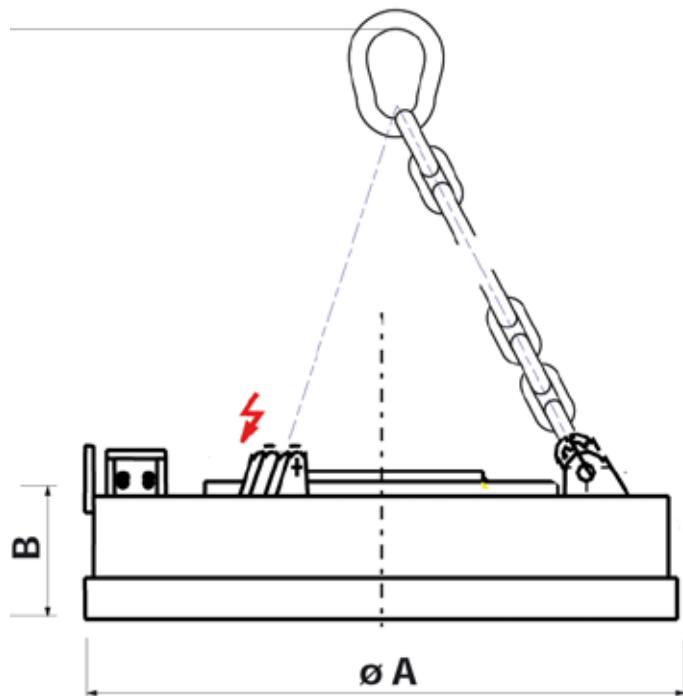


360 ° rotatable - version (R)



pendulum - version (P)

Magnet plates

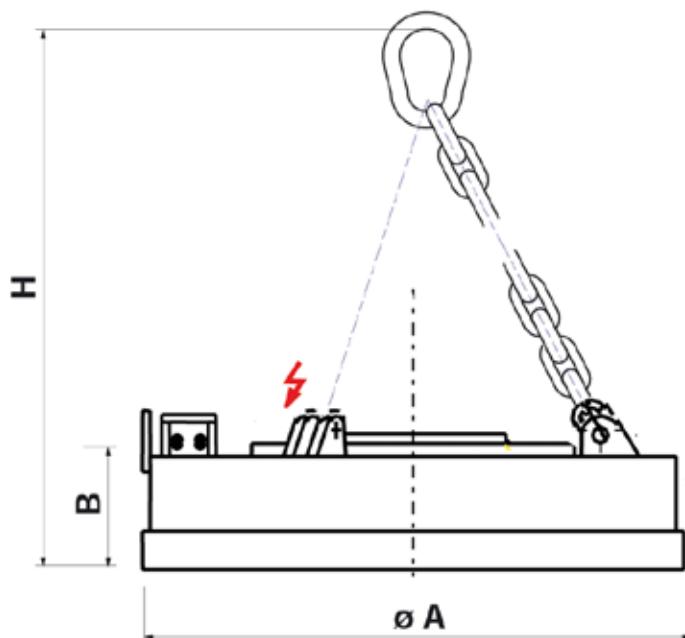


¹ According to VDE 0580. Defined in 5 hours from changing labor (50%), at ambient temperature of 20°C.

Lifting magnets

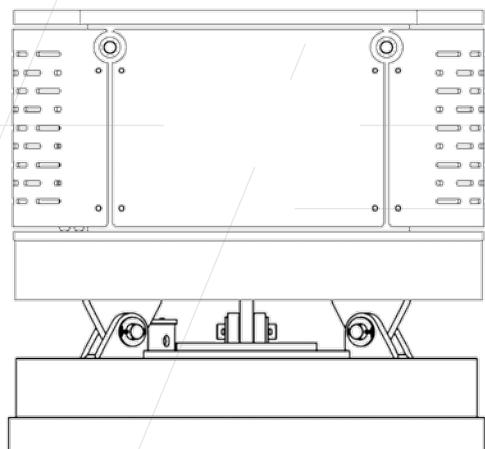
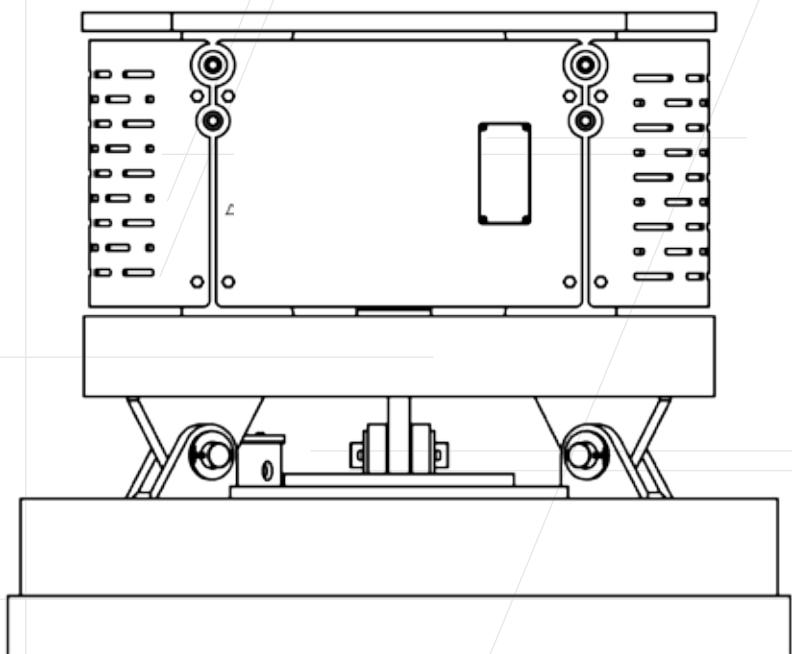
	M3	M4
weight (kg)	195	365
dimension A= Ø (mm)	550	720
dimension B (mm)	200	225
mains voltage (Vgs)	24	24
magnet power (kW)	0,6	0,6
with air gap Ø /300 ¹ Tensile strength (kg)	2.600	5.500
load capacity ¹ skelp block (kg)	1.300	2.700
load capacity ¹ iron ball (kg)	450	740
load capacity ¹ pig iron (kg)	70	85
load capacity ¹ scrap 3A 2,2÷2, 5 T/m ³ (kg)	60	65
load capacity ¹ scrap 24 1,9÷2,0 T/m ³ (kg)	50	55
load capacity ¹ scrap 40 0,8÷1, 0 T/m ³ (kg)	40	35
Magnets plate	MP2	MP4

Due to special construction of magnet plate a better depth effect is achieved. Magnet plate is made of wear- resistant material which lead to longer lifetime.



Lifting magnets	M8	M14	M15	M16	M19	M22
weight (kg)	550	780	890	1.100	1.400	1.850
dimension A= Ø (mm)	860	1.060	1.140	1.250	1.450	1.660
dimension B (mm)	280	280	280	305	285	290
dimension H (mm)	975	975	975	1.000	1.000	1.000
Ø magnet (mm)	860	1.060	1.140	1.250	1.450	1.660
mains voltage (Vgs)	220	220	220	220	220	220
magnet power (kW)	4,4	5,5	7	9	10	15
with air gap Ø /300 ¹ Tensile strength (kg)	8.200	11.500	13.000	15.000	18.000	21.000
load capacity ¹ skelp block (kg)	4.100	5.750	6.500	7.500	9.000	10.500
load capacity ¹ iron ball (kg)	1.700	2.600	3.000	3.500	4.200	5.000
load capacity ¹ pig iron (kg)	200	280	320	410	580	640
load capacity ¹ scrap 3A 2,2÷2, 5 T/m ³ (kg)	170	255	290	370	530	580
load capacity ¹ scrap 24 1,9÷2,0 T/m ³ (kg)	160	240	280	360	510	550
load capacity ¹ scrap 40 0,8÷1, 0 T/m ³ (kg)	80	120	140	190	240	270
Magnets plate	MP6	MP8	MP9	MP11	MP14	MP19

¹ According to VDE 0580. Defined in 5 hours from changing labor (50%), at ambient temperature of 20°C.



ARAG
Baumaschinen-Rent

ARAG Bau AG

Zinggen

6166 Hasle LU

www.arag-bau.ch

Tel. 058 710 00 00