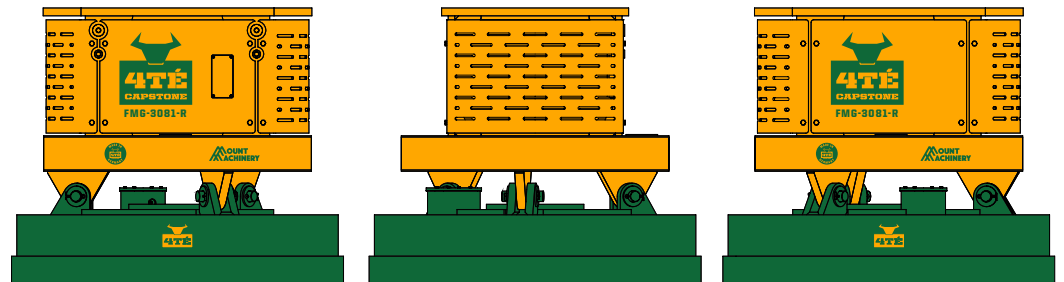




Magnet



Simple installation:

- No complex installation on excavator required
- Remote control
- Plug & play: pluggable connections for easy commissioning and service

Performance:

- Maximum efficiency
- Up 25% shorter cycle time
- Magnet pendulum with parking device
- Multi-functional status display
- Compatibility to various magnetic disk sizes automatically self-adjusting
- Capable of extensive diagnostics

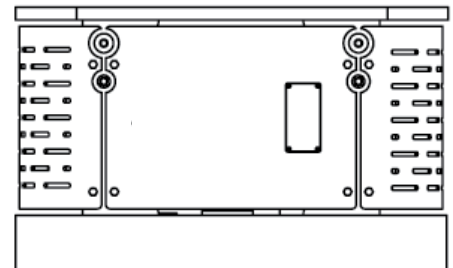
Reliability:

- Compact construction with integrated power supply
- Brushless, robust synchronous generator, electronically controlled
- Wear free electronics
- Pressure is automatically regulated with the intelligent valve unit making the hydraulics drive stable and vibration free

Longevity:

- Housing made of corrosion-resistant alloy
- Belt slippage is prevented due to the stability and vibration-free hydraulic belt drive

Louvres for better cooling



Stiffening tube for greater stability



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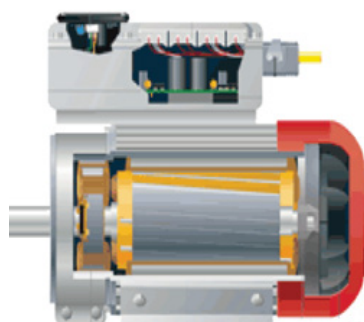




Magnet

Easy Maintenance:

- Dirt resistant housing due to special profile
- Maintenance free components
- Four-fold protection against short-circuit & overload



- Shake-proof & vibration resistance
- Parametrised digital generator governor
- Clear and fast on-board diagnosis
- Fast & precise localisation in the event of disturbances
- Flash code for remote diagnosis

Safety:

- Self-protective electronics; protection against: Short circuit, Loose contact, Interruption, Overload, Insulation fault, Over-temperature, Lower and over-speed, Weather; prevents water ingress. Generator IP54 rated.

Regulation of hydraulic oil, flow & pressure settings:

- No precise hydraulic oil flow & pressure commissioning required
- Automatic intelligent valve parameters: Flow 90-250 litres, Operating pressure 120-350 bar, Maximum backpressure 30 bar, Maximum oil leakage 10 bar
- Automatic intelligent valve recommended settings: Flow 140 litres, Operating pressure 300 bar, Back pressure 20 bar, Oil leakage 10 bar

	FMG-581	FMG-1081
Technical details		
Excavator Weight Range (T)	1.5-5.0	5-10
Self Weight excluding saddle (kg)	195	250
Load Capacity (kg)	1000	2000
Diameter of Magnet (mm)	660	720
Height	390	430
Operating Pressure (bar)	80-270	
Required Flow (L/min)	60-120	

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Magnet

Advantages of magnet plates:

- Closed steel housing is wear resistant & vibration free
- Magnetic circuit is protected from the outdoor elements such as moisture
- Guaranteed easy handling due to optimal weight performance ratio
- Steel surface allows temperatures to be controlled
- Double connection housing

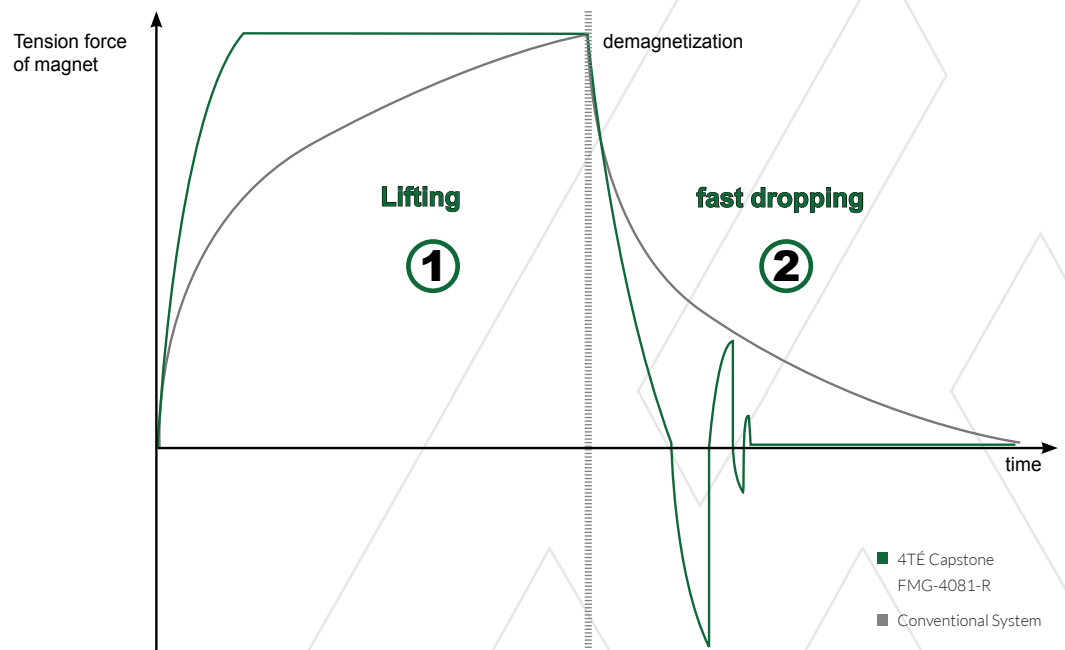
Operation of magnet plates:

- No extra maintenance required although a periodic check of electric connections, suspension connections & housing is recommended

Intelligent Control:

1. Efficient lifting with voltage surge:
 - a. Using a special technique, created to work more efficiently, the magnet has a higher cut in voltage allowing it to pick up more material, then the voltage is adjusted automatically. It saves working hours, wear & tear and is fuel efficient.
2. Variable demagnetisation phase optimizes dropping:
 - a. Conventional magnets require time & gravity to release their load. The 4TÉ Capstone generators use an advanced demagnetisation method enabling the magnet to repel its load rather than just release its magnetisation, therefore leaving a cleaner discharge of its load.

The diagram below shows comparison between the 4TÉ Capstone & a conventionally designed magnet.



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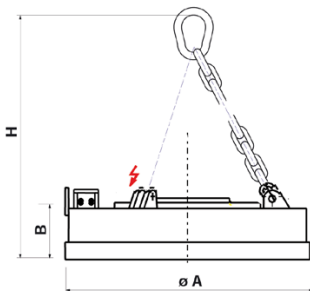
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Magnet

	FMG-1481	FMG-2581	FMG-3581	FMG-4081	FMG-5081
Excavator Weight Range (T)	8-14	13-25	15-35	16-40	22-50
Self Weight excluding saddle (kg)	800	1360	1480	1600	1960
Compatible Magnet Plate (kW)	FMP5 (4.8)	FMP7 (5.8)	FMP8 (7.5)	FMP10 (10)	FMP13 (11)
Generator Power (kW)	8	11	11	11	11



Due to special construction of magnet plate, a better depth effect is achieved. This magnet plate is made of wear-resistant material which leads to greater longevity.

Technical details

	FMP5	FMP7	FMP8	FMP10	FMP13
Self Weight - plate only (kg)	550	780	890	1100	1400
Dimension A (mm)	800	950	1050	1200	1380
Dimension B (mm)	300	305	305	325	325
Dimension H (mm)	900	900	900	1100	1100
Diameter of Magnet (mm)	800	950	1050	1200	1400
Mains voltage (vgs)	220	220	220	220	220
Magnet power (kw)	4.8	5.8	7.5	10	11
With air gap $\varnothing / 300$ ¹ Tensile strength (Kg)	8400	11700	13500	16000	19000
Load capacity ¹ slab blocks (kg)	4200	5900	6700	7800	9200
Load capacity ¹ bullets capacity (kg)	1750	2800	3100	3700	4300
Load capacity ¹ iron pig (kg)	220	300	340	420	600
Load capacity ¹ Scrap 3A 2,2÷2,5 T/m3 (kg)	180	270	300	390	550
Load capacity ¹ Scrap 24 1,9÷2,0 T/m3 (kg)	170	250	300	390	540
Load capacity ¹ Scrap 40 0,8÷1,0 T/m3 (kg)	90	130	150	200	250
Compatible Lifting Magnet	FMG-1481	FMG-2581	FMG-3581	FMG-4081	FMG-5081

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

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