



From the **INNOVATOR** of the 1st generation Side-Grip Piler, now **the 2nd generation available**

The most **advanced** and **productive** Piler on the market: More info, see: www.ramec.fi/1



Anchoring at 45°



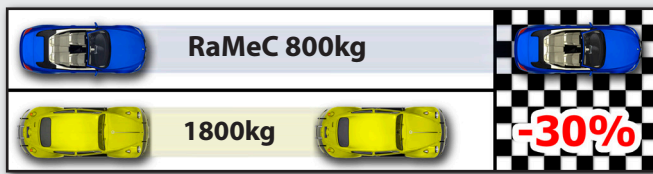
Pipe diameter 50-800 mm

RaMeC SGV from 53hp to 200hp Side-Grip-Vibrator

ONLY RaMeC HAS "THE CENTRIC HIT" SYSTEM

- Two reasons, why the RaMeC 50/30/10 "centric hit" always 50% stronger than any Side-Grip competitor in the same excavator

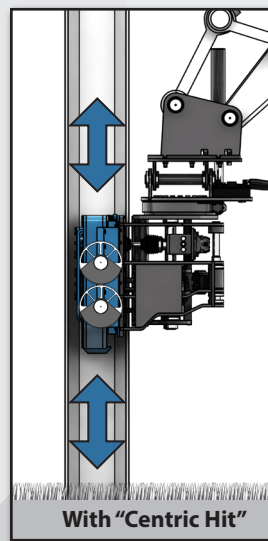
- The "dead weight" in RaMeC is 800kg, in other Side-Grips it is 1,500-2,500kg
The "dead weight" is the weight which the hydraulic motors are accelerating 50 times per second **UP/DOWN**



A Similar example of cars with the same horse power

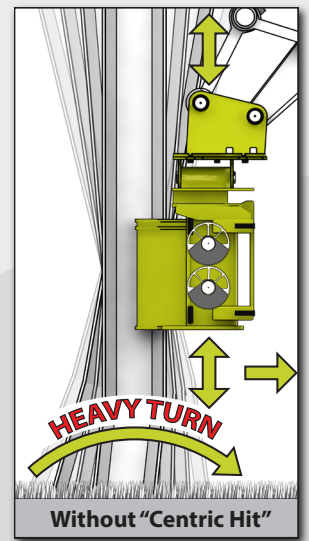
- The **vibration force** in the RaMeC-system, is **INSIDE** the pile.
In all competitive system it is 80-90cm (2 feet) outside of the pile
(see more info: www.ramec.fi/2)

2nd generation



With "Centric Hit"

1st generation



Without "Centric Hit"

- Only RaMeC vibrator has following **benefits**

- Less **ground vibration** (see more info: www.ramec.fi/3)

Very hard ground

- 7m from the building
- measured **ground vibration**: 4-7 mm/s

Note: Max value near historic building = 6 mm/s

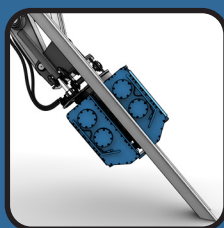
Middle hard clay

- 7m from the pile
- measured **ground vibration**: 1-3 mm/s

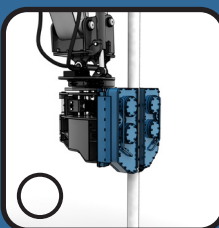
Note: Max value in city area = 12 mm/s



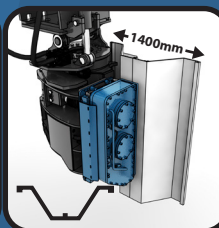
- Very **low noise** level: measured even 90db -> "centric hit" is not shaking the pile



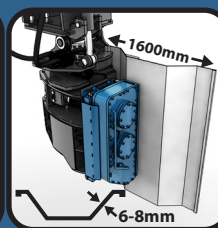
0-90° angle



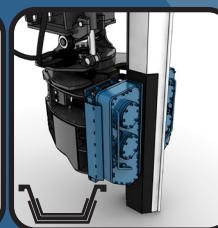
Up to 610 mm pipes



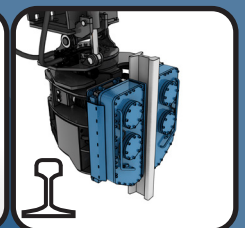
Double "Z" and "U" pile



Wide 6-8 mm piles



Plastic pile with sandwich-grip

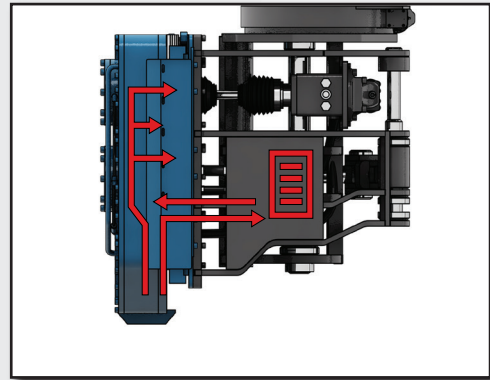
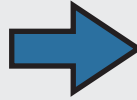


Railway rail without breaking

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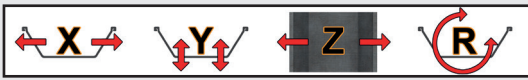
- RaMeC's **LUBRICATION** system

RaMeC is the **SOLE** one of all excavator mountable vibrators, which has full lubrication/cooling system for vibrator bearings.

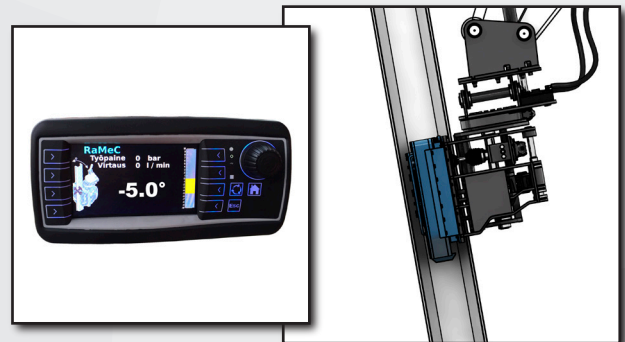
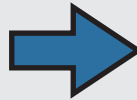


- RaMeC's **CONTROL** system

ONLY RaMeC and the piling rig (the leader rig) are getting the piles straight in all X, Y, Z and R directions.



Do you know any other sheet-pile driver, whose operator is able to drive his 1st pile straight in all X, Y, Z and R directions, and only after **4 hours of training?**

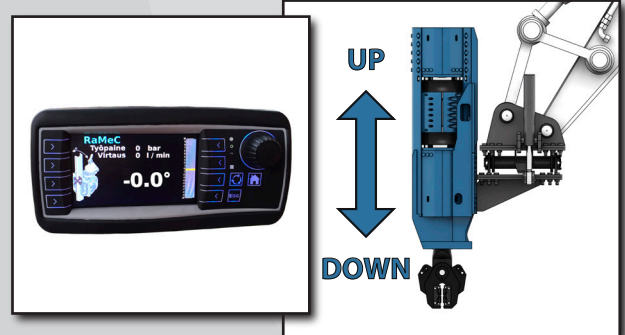
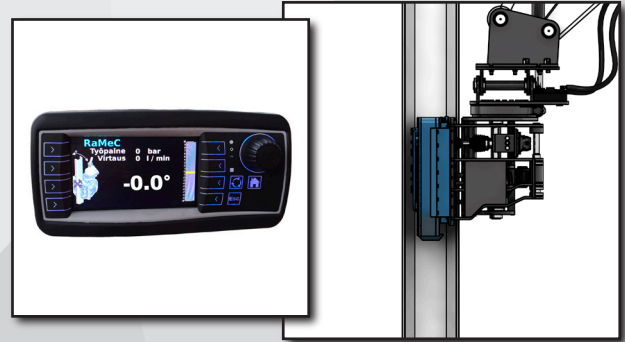
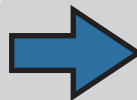


- **ONLY** RaMeC has UP/DOWN hammer

If the vibrator fails, the operator can use the hammer. In two minutes the piler has been changed to **UP/DOWN** hammer and the job can be finished.

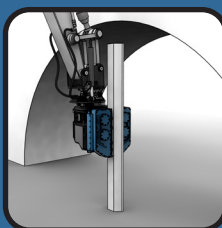
This is the most **economical** way to drive piles in to **the silt (london clay, cohesive soil)**, where even 600 to 800 hp vibrators are **failing**

Often the **only** way to extract **jammed/dried** piles

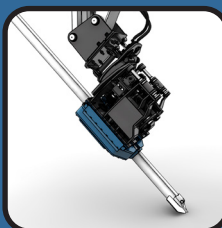


More info, see: www.ramec.fi/4

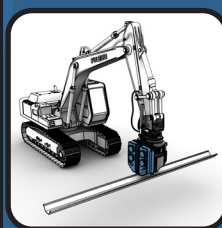
RaMeC trench piling concept



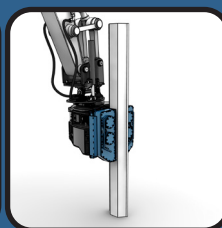
Under low headroom



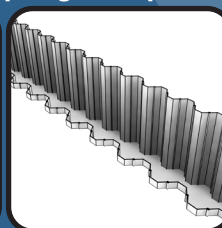
Anchoring



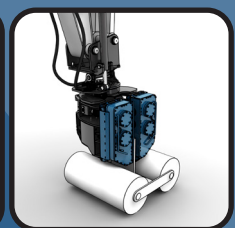
Moving piles



Piling



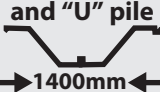

Trench piling and digging



Compacting ground

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TECHNICAL DATA OF RaMeC 50/30/10 "Centric hit"

Model in horsepower ¹⁾		RaMeC SGV 70 ¹⁾		RaMeC SGV 100 ¹⁾		RaMeC SGV 150 ¹⁾	RaMeC SGV 190 ¹⁾
Weight ²⁾		2400 kg 4800 lb		2500 kg 5000 lb		2600 kg 3200 lb	2650 kg 3300 lb
Hydraulic power		67 hp		104 hp		150 hp	190 hp
Excavator class (ton) ³⁾		16-20 ³⁾		20-25 ³⁾		30-36 ³⁾	40-43 ³⁾
Engine power		102 hp		160 hp		221 hp	277 hp
Oil-flow		120 l/min 30 gal/min		180 l/min 45 gal/min		240 l/min 60 gal/min	300 l/min 75 gal/min
Working pressure		280 bar 4200 psi		280 bar 4200 psi		280 bar 4200 psi	280 bar 4200 psi
Pressure setting		300 bar 4400 psi		300 bar 4400 psi		300 bar 4400 psi	300 bar 4400 psi
Pile length		16 m 48 ft		16 m 48 ft		16 m 48 ft	16 m 48 ft
Pile weight		4000 kg 8000 lb		4000 kg 8000 lb		4000 kg 8000 lb	4000 kg 8000 lb
Pipe diameter		800 mm 32 inch		800 mm 32 inch		800mm 32 inch	800 mm 32 inch
Double "Z" and "U" pile 		Yes		Yes		Yes	Yes
Wide profile 		Yes		Yes		Yes	Yes
Plastic piles		Yes		Yes		Yes	Yes
Standard RaMeC		Trench ⁴⁾		Trench ⁴⁾		Trench ⁴⁾	Trench ⁴⁾

1) The "intake" hydraulic power is the only correct way to compare different kind of vibrators. RaMeC "centric hit" is the ONLY vibrator also increasing vibrator's efficiency. RaMeC needs less power for same results

2) Without adapter

3) See the engine power

4) Std RaMeC's trench team needs 1 exc. , 1 quick hitch, 1 bucket, **RaMeC, RaMeC drum compactor** and 2 men