

RaMeC

Side-Grip Sheet-Pile-driver

The most **advanced** and **productive** Piler on the market

(REASONS: please see especially points 1, 2 and 3)



Plastic Piles Sheet Piles

= until 16 m long
= weight >3 ton



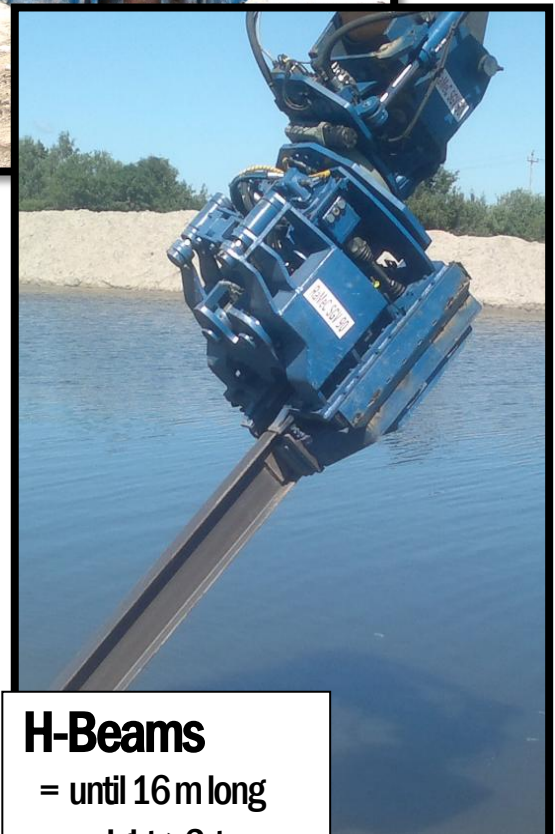
Steel Pipes

= Ø 60 -
= weight > 3 ton



Double-Piles

= 8 - 12 m long
= weight >3 ton



H-Beams

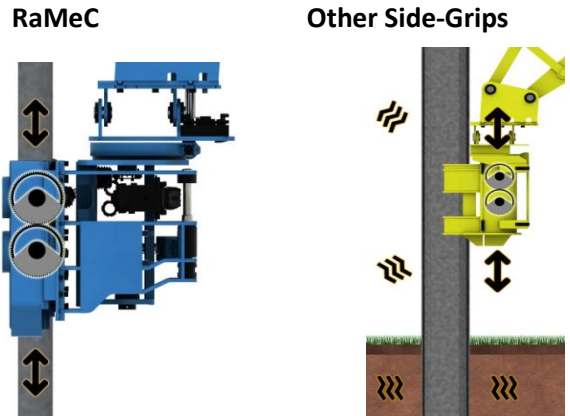
= until 16 m long
= weight >3 ton

RaMeC SGV 30 -110 ton Sheet – Pile - drivers

(S= Side, G = Grip, V= Vibra. **IF** RaMeC is for example 80 ton vibrator **all** competitors have to be almost 100 ton vibrators. See the reasons in points 1-3)

1. ONLY RaMeC HAS “CENTRIC” HIT SYSTEM
BENEFITS:

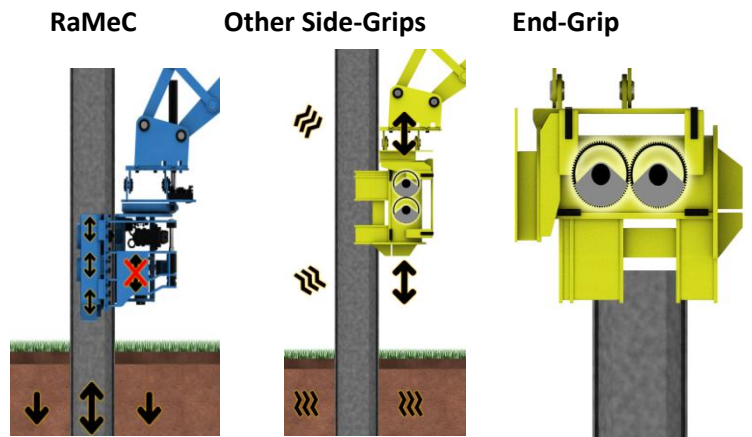
- 1.1. -> 20 % **stronger** vibraforce
 - > 20 % RaMeC needs one **size** smaller excavator
 - > less investment, less fuel cost etc
- 1.2. very little ground vibration:
 - only measured 1,7-7,7mm/s
 - vibration **free** START/STOP **NOT NEEDED**
- 1.3. Low noise-level < 85 dbA.



2. ONLY RaMeC has “linear bearing” system

Because of linear bearings the weight of RaMeC’s vibrahouse (going 50 times/a sec up and down).
ONLY 800 kg – the equivalent weight of **all other** Side-Grip vibrators is 1600-1800kg.

Similar example: 2 cars, both ones 100 PS. WHICH ONE IS IN PRACTICE MORE POWERFUL, **STRONGER** or FASTER.



RaMeC 1000kg

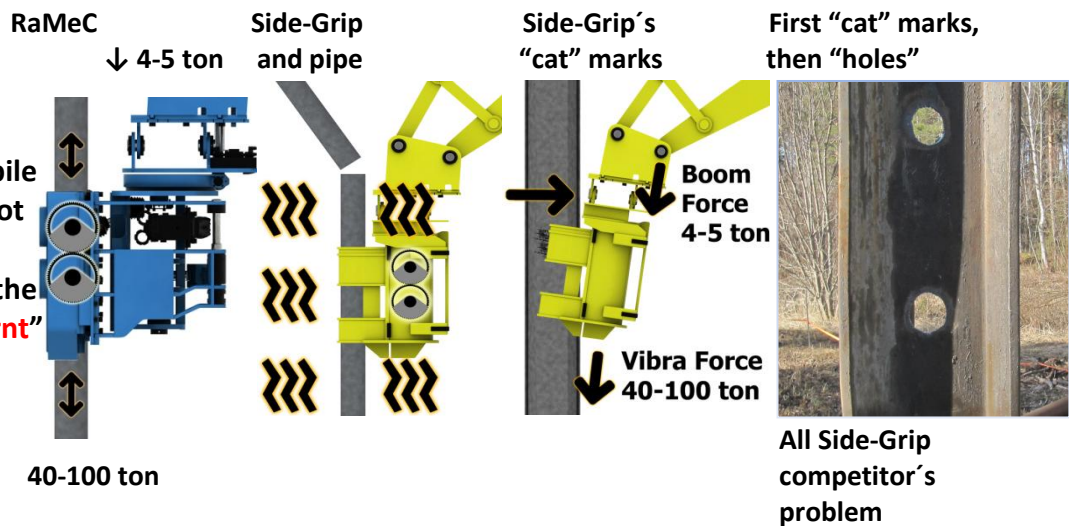


All competitors 1200-1800kg



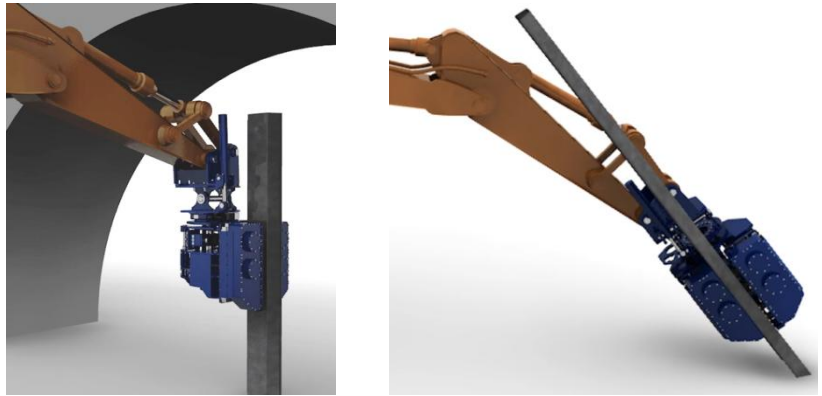
3. RaMeC “CENTRIC HIT”

- shaking very little pile
- the grip-pads are not **sliding**
- no “cat” marks on the pile surface or “burnt” holes in thin piles



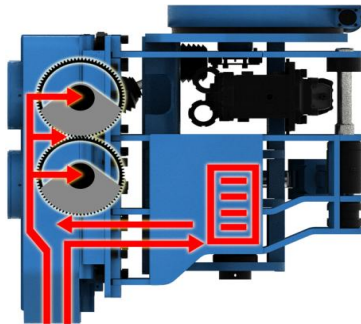
4. PILING UNDER **LOW** HEADROOM
or in any $\pm 90^\circ$ angle.
(see video, animation film,
pictures www.ramec.fi).

For example we have driven
pipes under the road
= **horizontally**



5. VIBRA-BEARING **OVER HEATING**

So far we know that **ONLY** RaMeC
is using Porsche /Ferrari type
lubrication system = dry sump system
- 2 pumps: 1 pump is lubricating and
one pump is circulating the oil to
cooling tank.



6. RaMeC's **CONTROL SYSTEM**

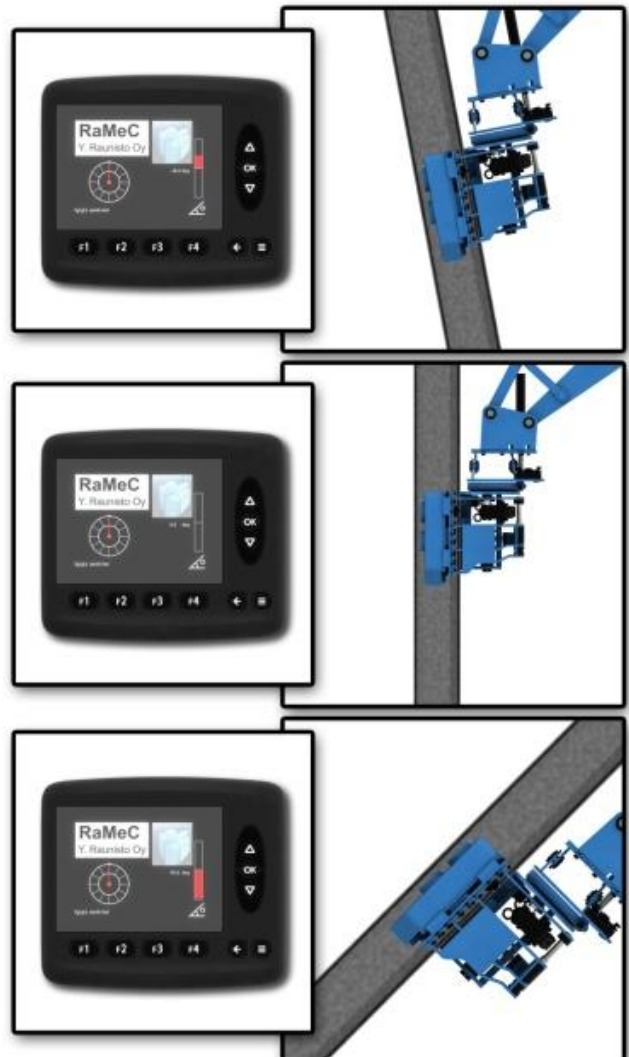
ONLY RaMeC operator knows / controls
every second the direction of the pile in
X,Ya, Z directions (Z = the "pile **falling**"
direction).

RaMeC has **NO** "pile falling" problem
Already after 1-2 hrs training RaMeC
operator will get the pile very, **very**
straight in X-Y and Z directions.
(See the animation film).

7. **PERFORMANCE**
1000meter (3000feet) a day in NOT anymore
a **dream**.

8. **TRENCH** application
RaMeC team consists of 2 x men,
1 x excavator, 1 x quick hitch, 1 bucket
and 12 meter trench a day is **also not** a
dream (see the animation film).

YOUR BENEFIT: possible to save even
50% in working costs.



TECHNICAL DATA OF RaMeC SGV:

	RaMeC SGV 30 ¹⁾	RaMeC SGV 50	RaMeC SGV 60	RaMeC SGV 80	RaMeC SGV 90	RaMeC SGV 110 ¹⁾
Weight	~ 1000 kg (2000 lb)	2100 kg (4200 lb)	2200 kg (4400 lb)	2200 kg (4400 lb)	2300 kg (4600 lb)	2600kg (5200 lb)
Vibra-force	30 ²⁾ ton	50 ²⁾ ton	60 ²⁾ ton	80 ²⁾ ton	90 ²⁾ ton	110 ²⁾ ton
Excavator class	8-12 ton ²⁾	18-20 ton ²⁾	22-25 ton	25-30 ton	25-30 ton	40 ton
Oil-flow l/min (in 260bar)	60-80 15-20 gal	120 30 gal	150 37 gal	180 45 gal	240 60 gal	300 75 gal
Max. pressure	300 4600psi	300 4600psi	300 4600psi	300 4600psi	300 4600psi	300 4600psi
Pile length (m)	8-10 m 30 ft	up to 16 m 48 ft	up to 16 m 48 ft	up to 16 m 48 ft	up to 16 m 48 ft	up to 16 m 48 ft
Max pile, H-beam, pipe weight	2000 kg 4000 lb	>3000 >6000 lb	>3000 >6000lb	>3000 >6000lb	>3000 >6000lb	>3000 >6000lb
Max. pipe dia (mm)	Ø 250 ³⁾ 10 in	457 ³⁾ 18 in	457 ³⁾ 18 in	457 ³⁾ 18 in	457 ³⁾ 18 in	559 ³⁾ 22 in
Plastic piles	yes ⁴⁾	yes ⁴⁾	yes ⁴⁾	yes ⁴⁾	yes ⁴⁾	yes ⁴⁾
RaMeC's special.	trench ⁵⁾	trench ⁵⁾	trench ⁵⁾	trench ⁵⁾	trench ⁵⁾	trench ⁵⁾

1) RaMeC 30 and 110 ton vibrators after autumn 2014

2) Because of RaMeC's over + 20 % better efficiency (m) **all** other vibrators have to mention over 20% bigger vibration force (RaMeC 80 ton is equivalent to 95-100 ton by all other vibrators).

3) IF bigger pipe dia is used – please contact your dealer

4) Ask you RaMeC dealer, **why** RaMeC can drive **plastic** pile **WITHOUT** breaking it???

5) RaMeC's trench team needs only 1 x excavator, 1 x quick hitch, 1x bucket, RaMeC and 2 men and..



RaMeC **MULTI-HAMMER**

= Breaker, Foundation Pile and **Sheet Pile** Hammer

If even the 500 kW Sheet-Piling Vibra is failing to finish the job - RaMeC **UP/DOWN** is finishing it!!

after 5 minutes change, the RaMeC Multi-Hammer can finish any piling application economically (will be introduced during autumn 2014).

THE TRADITIONS CONTINUE : After **the first Side – Grip** Sheet - Piler and technically very unique "NOX" Tilt - Rotator the MOST **ADVANCED** / PRODUCTIVE Sheet-Piler and UP/DOWN hammer on the MARKET!

Y Raunisto Oy (Ltd), Hämeenlinna Finland

www.ramec.fi

E-mail: yrjo.raunisto@ramec.fi