

JUNTTAN RAPID IMPACT COMPACTION SOLUTION



Junttan

Junttan Rapid Impact Compaction (RIC)

The fast, efficient solution for ground compaction

RIC is a high frequency, controlled energy, compaction technique used to densify surface layers, mitigate liquefaction risks or improve bearing capacity of specific soils types up to 9 meters with minimum impact on the jobsite environment.

RIC is used to densify loose granular soils as well as loam fill and industrial brownfield sites for surface compaction, foundations, liquefaction mitigation and waste stabilization. The solution is in high demand to improve the bearing and settlement characteristics of the top layers as the depth of influence coincides perfectly with a 3 by 3 footing.

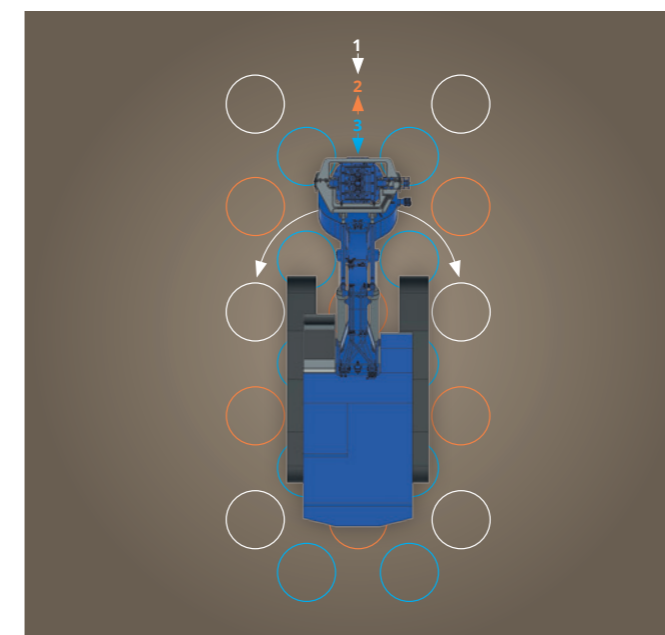
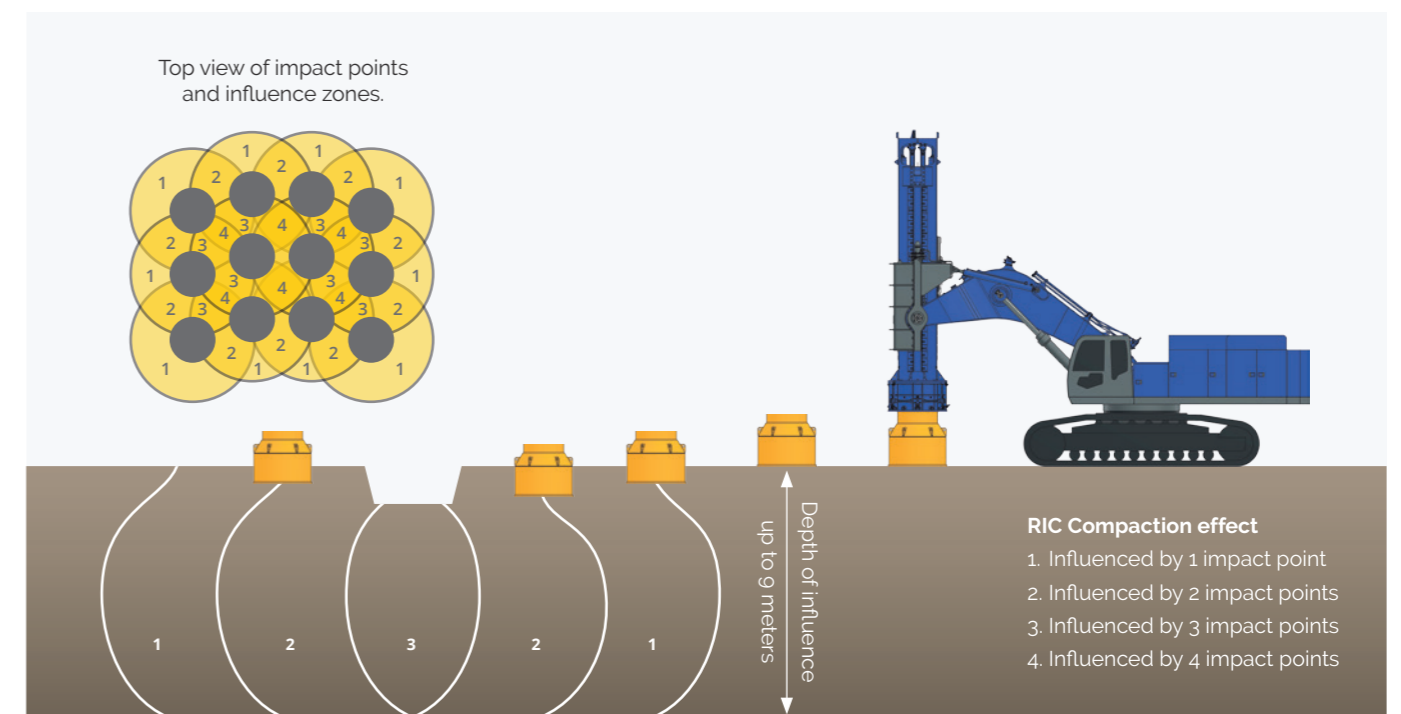


How it is applied

The compaction foot installed to the Junttan hammer is placed on the marked location. After positioning the hammer, operated from the excavator cabin, is activated. Inside the frame a drop weight is lifted to the predetermined height and dropped onto the compaction foot. The foot remains in contact with the ground whilst the drop weight repeats its sequence up to 100 blows/min. This process is repeated until the compaction criteria is met. The operator positions the hammer to the next marked location and repeats the process.

Junttan RIC solution advantages

- ✓ Purpose built hammer with long proven track record.
- ✓ Less noise pollution due to Junttan design standards.
- ✓ Noise suppression rubber fitted inside.
- ✓ Purpose built RIC-kit for optimized efficiency and minimum wear and tear.
- ✓ Highly experienced and strong presence of service capabilities.
- ✓ Depth measurement and GPS systems available.



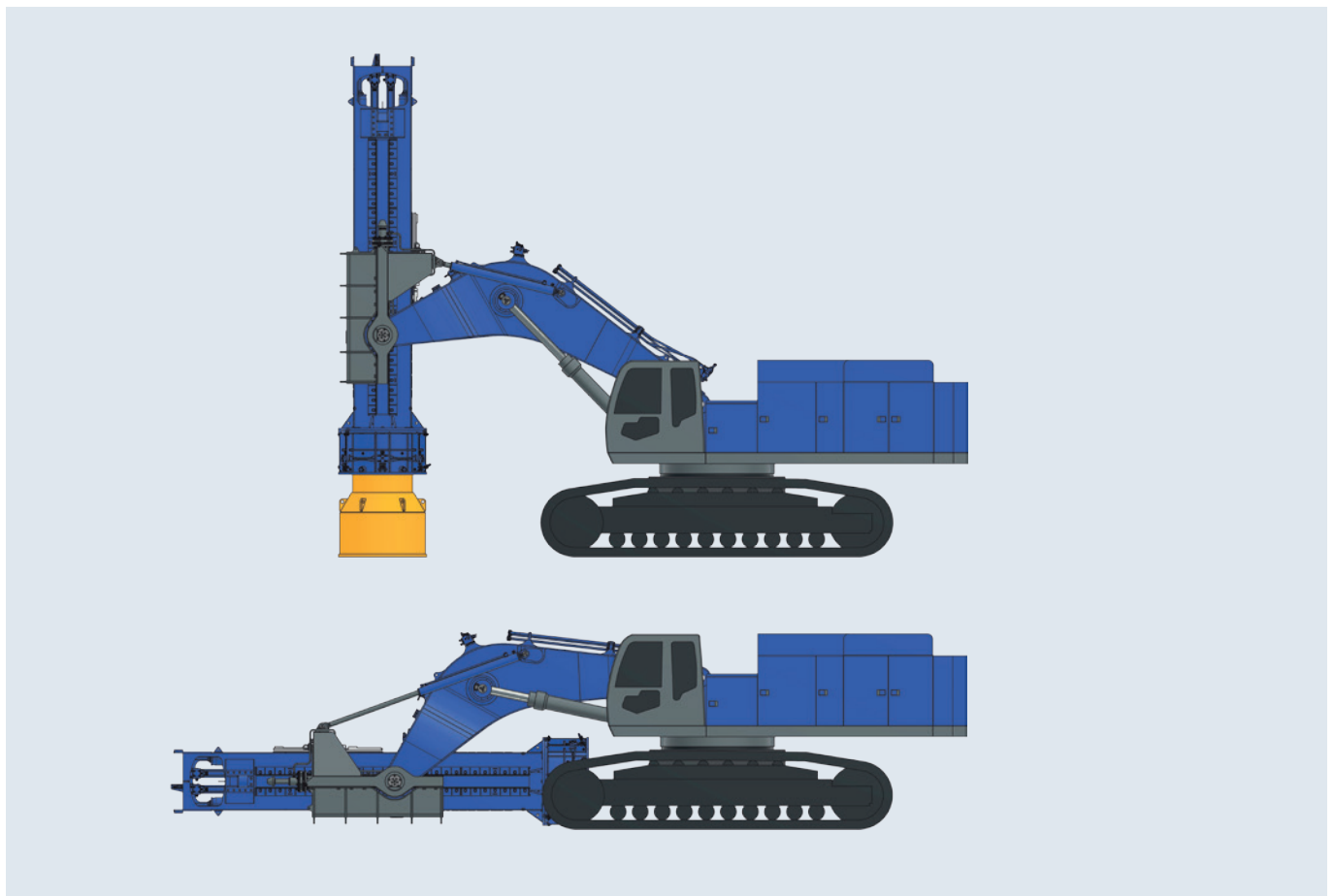
How the best depth of influence is achieved

The method for efficiently covering the area varies between contractors. A frequently used pattern to cover uses a track in three passes (see diagram beside). The outer (white) points being compacted first, followed by the intermediate (orange) lastly the infilling (blue) positions. This has the effect of achieving the best depth of influence. The first pass effecting the ground to a deeper level than the latter. Most granular fills and some silts are compactable, the best results being achieved where the fill is well-graded particle size.

An area of 800-2 500m² can be covered in an average day (depending on the 'blow-preposition' setting.) This also allows time for routine maintenance and rotation of the cushions which are located in the drivecap assembly which transfers the energy of the blow from the hammer to the ground. RIC is potentially twice as fast and at least 40% cheaper than conventional methods.

Technical data

HAMMER	JUNTTAN RIC 9S	JUNTTAN RIC 16A	JUNTTAN RIC 16S
TYPE	HHK 9S	HHK 16A	HHK 16S
MAX. ENERGY	132 KNM	188 KNM	235 KNM
MIN. STROKE	500 MM	500 MM	500 MM
MAX. STROKE	1 500 MM	1 200 MM	1 500 MM
QTY OF CYLINDERS	1	2	2
BLOW RATE	30-100	40-100	30-100
RAM BLOCK	600×600 MM	750×750 MM	900×900 MM
OIL FLOW	280 L/MIN	795 L/MIN	565 L/MIN
TOTAL WEIGHT	16 000 KG	26 000 KG	28 000 KG
JUNTTAN DRIVECAP HOUSING (DIAMETER)	880 MM	1 080 MM	1 370 MM
JUNTTAN DRIVECAP (DIAMETER)	878 MM	1 078 MM	1 368 MM
SOUND SILENCER	AVAILABLE	AVAILABLE	AVAILABLE
COMPACTION DEPTH INFLUENCE	UP TO 5 M	UP TO 8 M	UP TO 9 M
COMPACTION FOOT(S)	1 200/1 600 MM	1 600/2 000 MM	1 600/2 000/2 400 MM
COMPATIBLE EXCAVATOR	50/55 TONS	80/85 TONS	85/90 TONS
JUNTTAN DEPTH REGISTRATION	AVAILABLE	AVAILABLE	AVAILABLE



FOR FURTHER INFORMATION, PLEASE CONTACT:

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