



A Reputable & Leading of Pile Driving Equipment



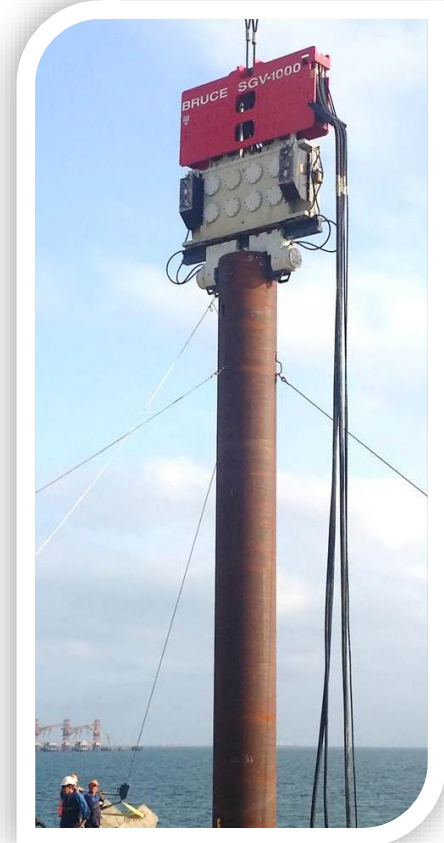
BRUCE VIBRO HAMMER APPLICATION

01

- Fast driving and extracting casing piles by Vibratory Hammer
- Fixed construction combination with Sheet & Casing piles



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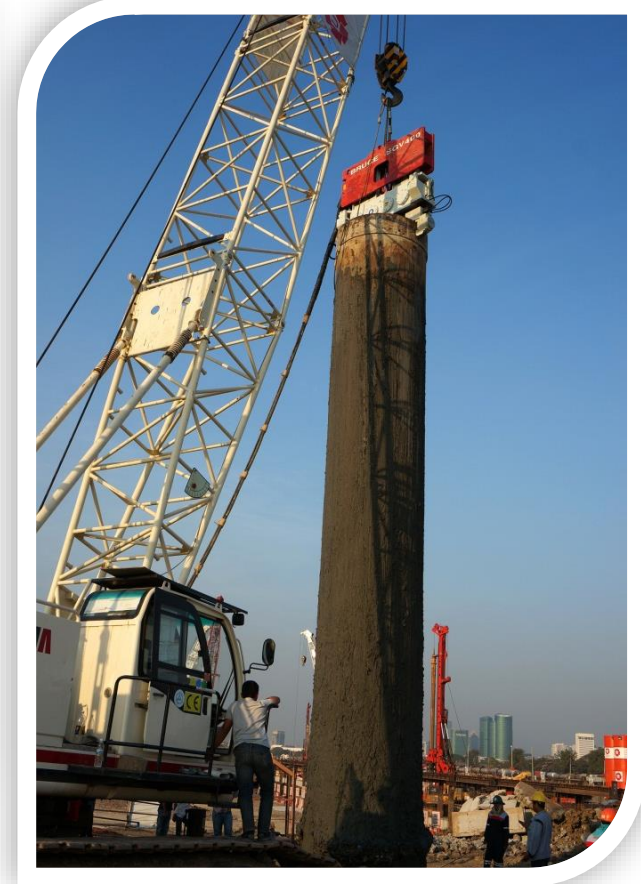
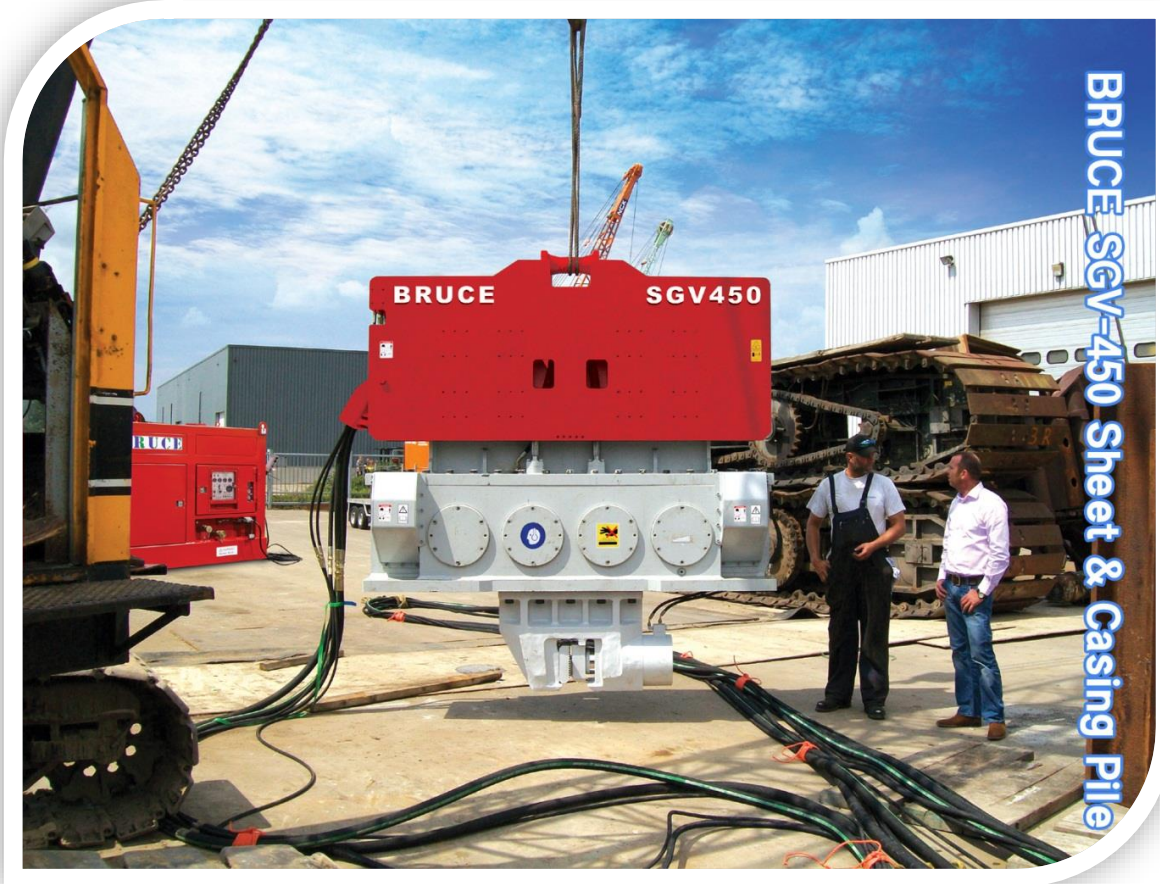
A simple black bar chart icon with three vertical bars of increasing height from left to right.

02

- Fast driving and extracting for sheet pile & casing pile by Vibratory Hammer
- Fixed construction combination with Sheet & Casing piles



BRUCE
VIBRO HAMMER
APPLICATION




03

- Fast driving and extracting for sheet pile & casing pile by Vibratory Hammer
- Fixed construction combination with Sheet & Casing piles



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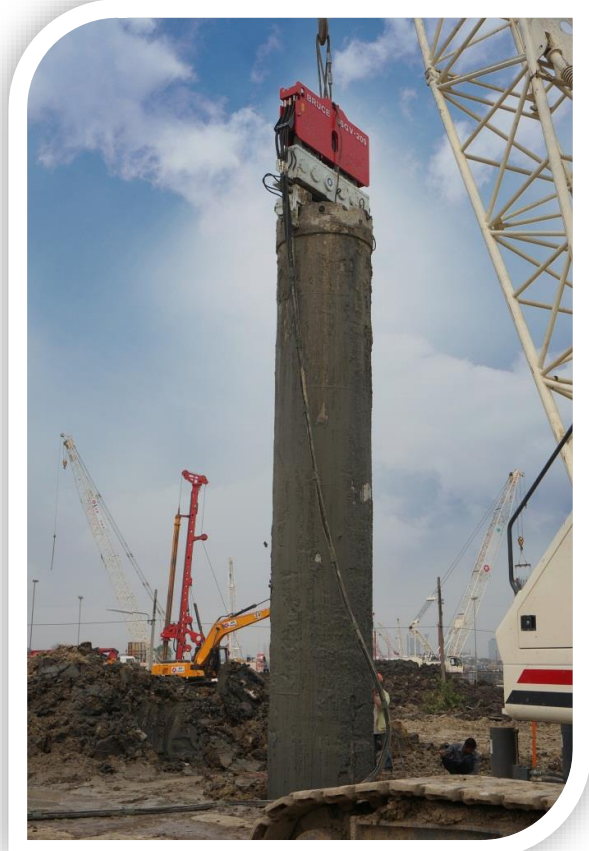
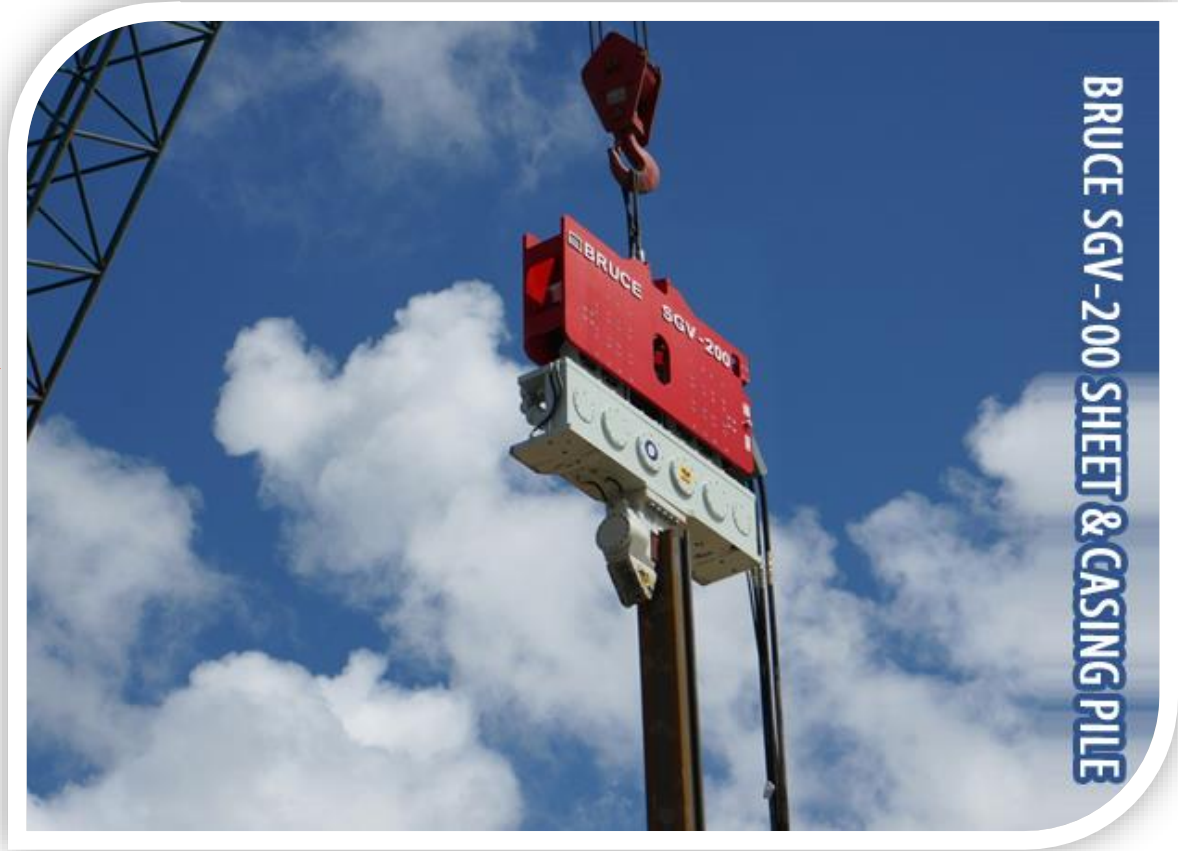


05

- Fast driving and extracting for temporary construction
- Fixed construction combination with Sheet & Casing piles



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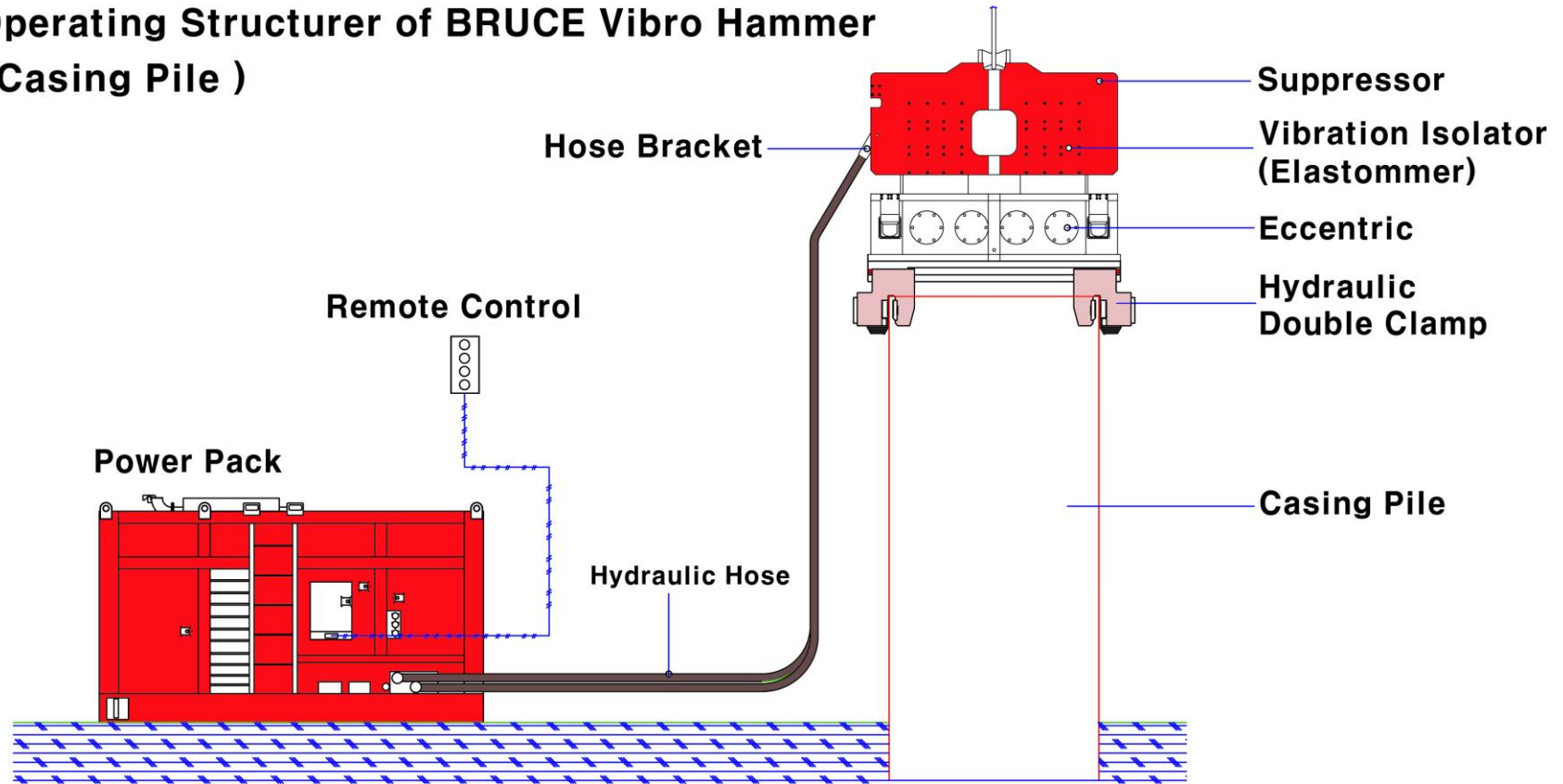
02

Typical design of operating composition of Vibro Hammer operation (casing pile driving)



Operating Structure of BRUCE Vibro Hammer (Casing Pile)

OPERATING CONNECTIONS



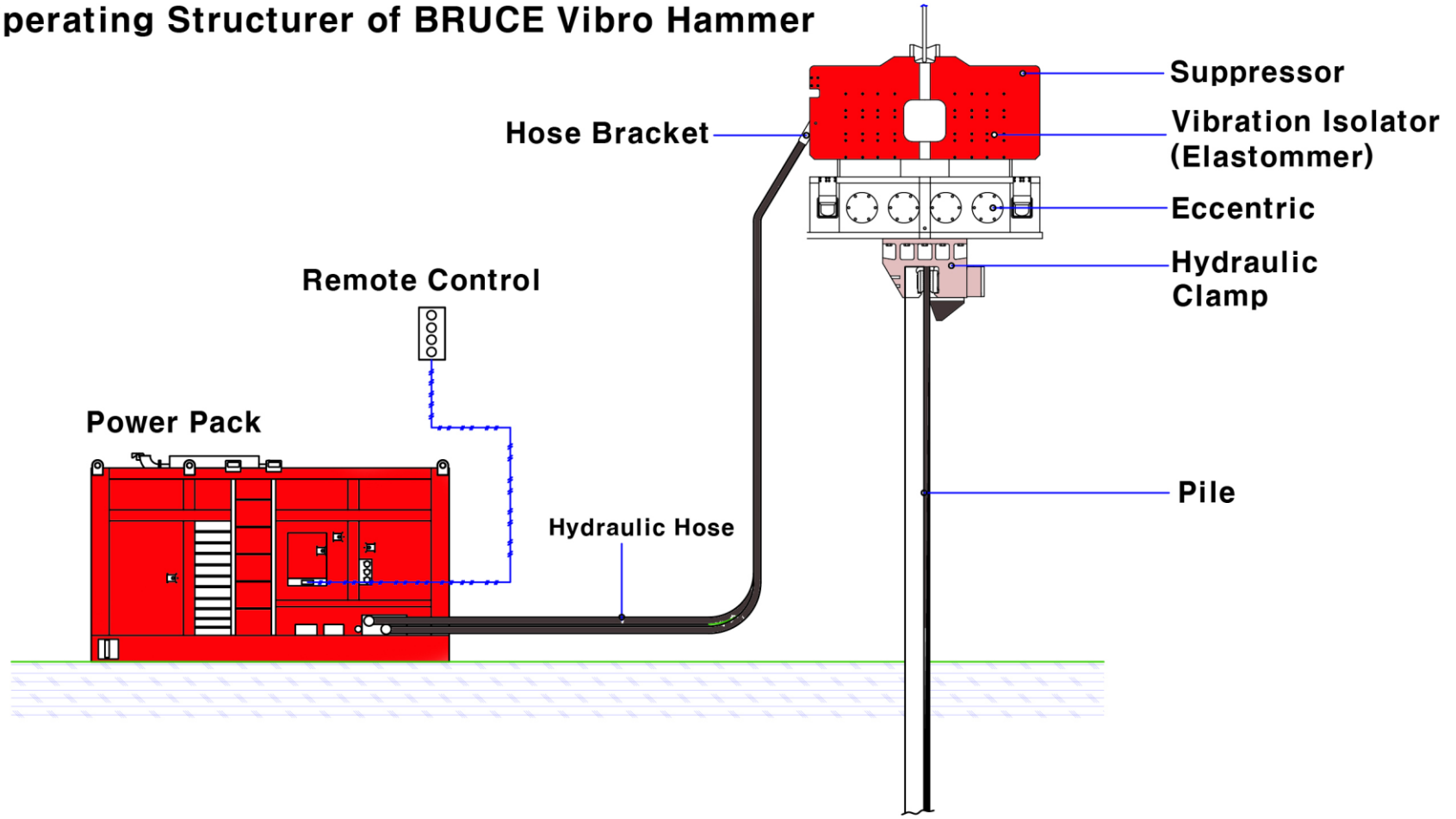
02

Typical design of operating composition of Vibro Hammer operation (sheet pile driving)



Operating Structure of BRUCE Vibro Hammer

OPERATING CONNECTIONS

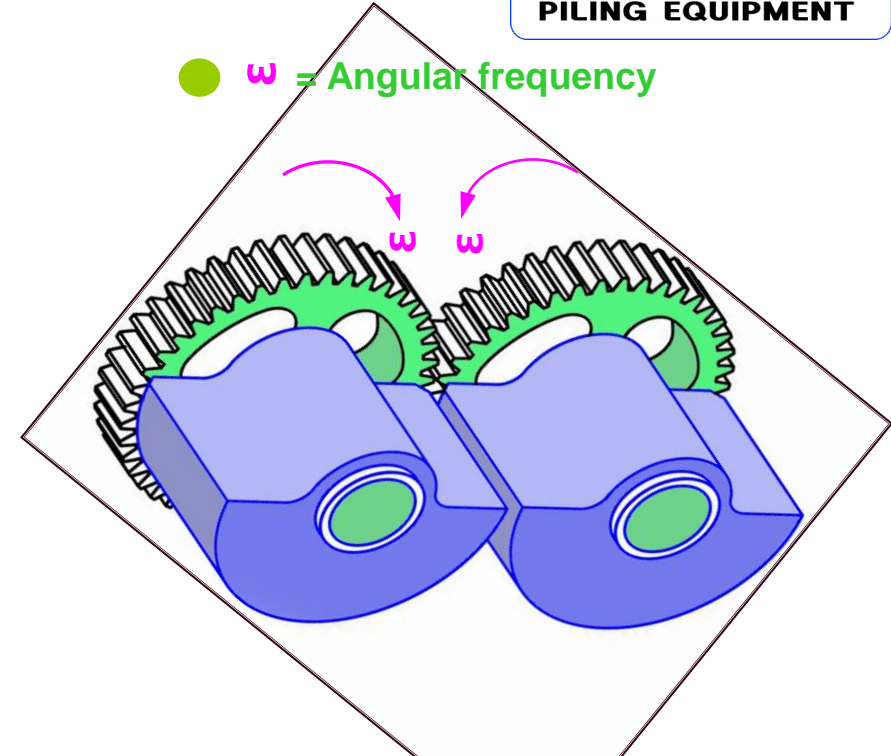
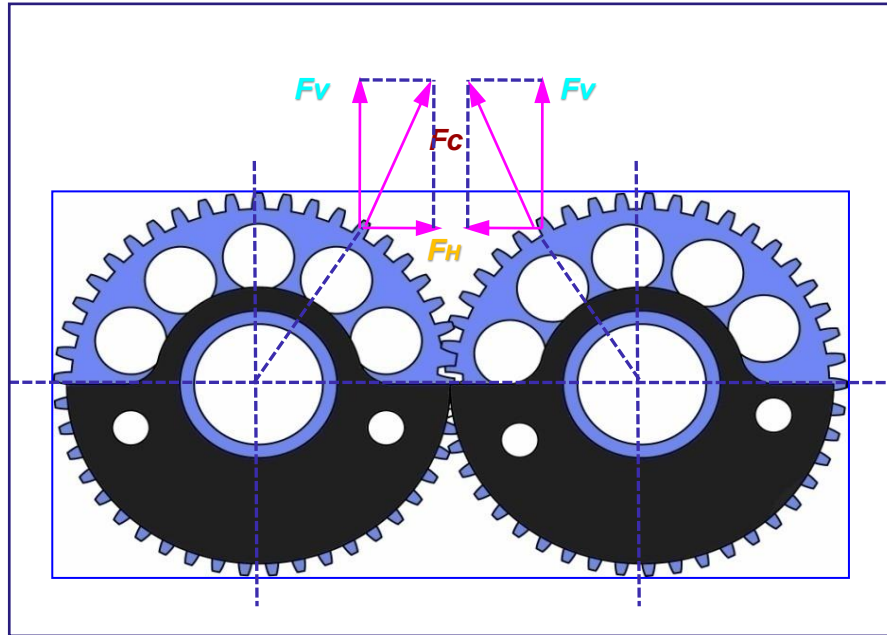


02

The principle of vibration start-up through centrifugal force adjustment with swiveling of the eccentrics.



HOW DOES VIBRO WORKS



- F_c = Centrifugal Force
- F_v = Vertical Force
- F_H = Horizontal Force

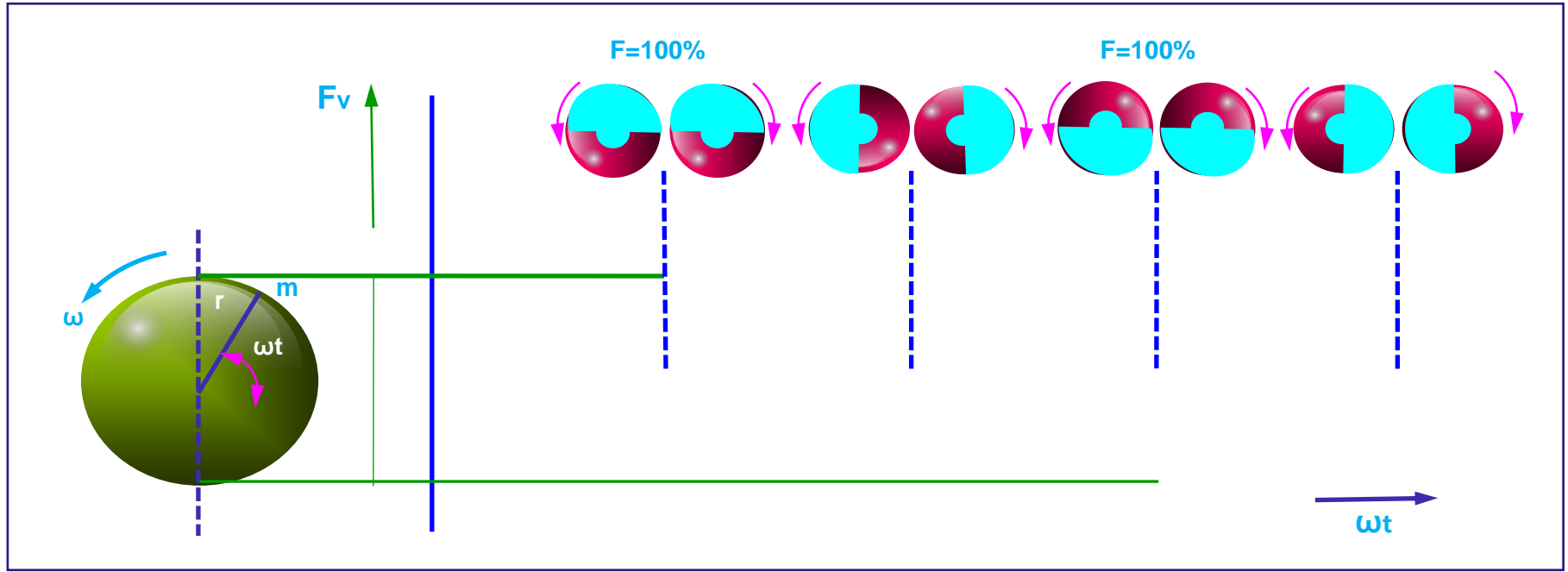
Formula of Centrifugal Force
1) Angular frequency (rad/sec) : $2 \times 3.14 \times \text{Vibro vpm} / 60$
2) Centrifugal force (kN) : Eccentric Moment \times Angular frequency 2

03

It vibrates the sheet or Casing piles to be driven or extracted.



HOW DOES VIBRO WORKS



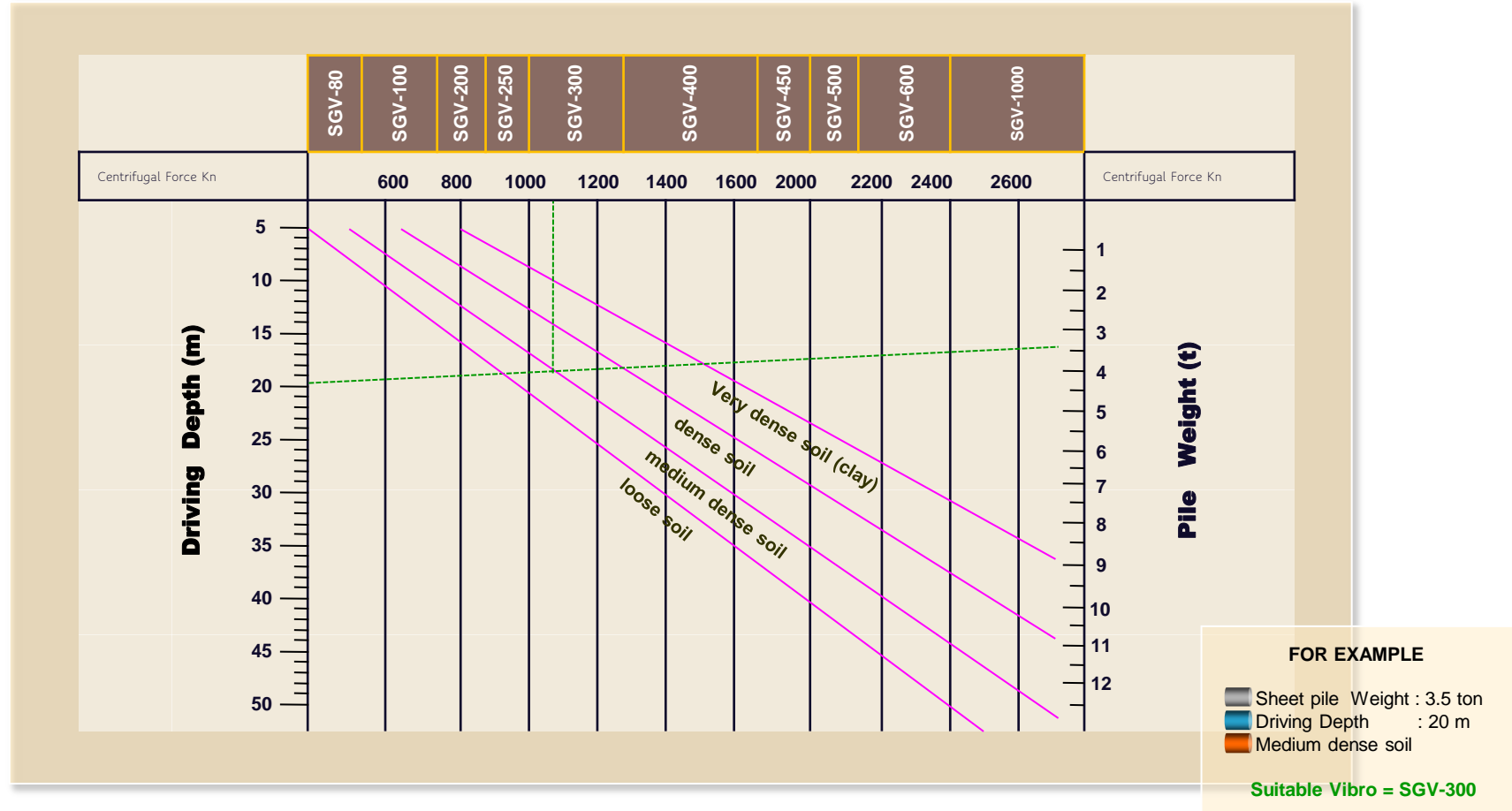
- F_v = Vertical Force
- ω = Angular frequency
- ωt = Angular frequency in m rad./s
- r = Rotations per minute
- m = Horizontal Force

04

Selecting the optimum Vibratory Hammer with selection chart



VIBRO HAMMER WORKS SELECTION



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