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Netter Mass Concrete Compacting Unit Series NVI



- Compaction of mass concrete of biggest granulometry
- Variable mounting
- Driven by the hydraulic system of the carrier, independently of external power supplies





Netter Mass Concrete Compacting Unit Series NVI

| Mass concrete compacting equipment | Number of vibrators NHR 150 | Theoretical concrete compacting capacity* [m³/h] | Required raising force of the excavator** [kN] | Required oil volume at 180 bar [l/min] | Total weight [kg] |
|------------------------------------|-----------------------------|--|--|--|-------------------|
| NVI 2 | 2 | 70 – 100 | 7,5 | 32 | 660 |
| NVI 3 | 3 | 105 – 150 | 8,6 | 48 | 730 |
| NVI 4 | 4 | 140 – 200 | 10,3 | 64 | 850 |
| NVI 6 | 6 | 210 – 300 | 12,8 | 96 | 1.000 |
| NVI 8 | 8 | 240 – 400 | 16,7 | 128 | 1.300 |

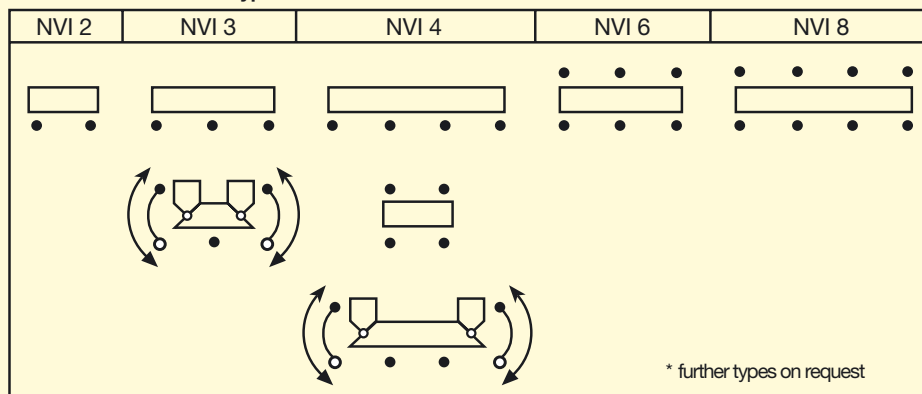
* depends on concrete characteristics and on-site conditions.

Only the time of compacting is considered (without moving or reposition of the excavator).

** Beside this, the hydraulic system of the excavator must have enough reserve capacity for the necessary movements of the boom.

| Vibrator | Head diameter [mm] | Total length [mm] | Head length [mm] | Working speed [min⁻¹] | Centrifugal force [N] |
|----------|--------------------|-------------------|------------------|-----------------------|-----------------------|
| NHR 150 | 150 | 1.190 | 550 | 7.500 | 21.468 |

Schematic view of NVI-Types:*



* further types on request



An extract from the Netter reference list

| Construction project | Number of NHR 150 | Type NVI | Carrier |
|---|-------------------|----------|----------------------|
| Harbour of Valencia (Spain) | 1 x 4 | NVI – 4 | CAT 224 B |
| Donaukraftwerk Freudenau (Austria) | 1 x 2 | NVI – 2 | Hitachi Airman AX 45 |
| Yichang Three Gorges (China) | 1 x 6 | NVI – 6 | Sumitomo SH 100 |
| Baglihar Dam (India) | 6 x 3 | NVI – 3 | CAT 307 |
| Leibis Lichte Damm (Germany) | 2 x 3 | NVI – 3 | CAT 307 |
| Marsyangdi Hydro-Electric Project (Nepal) | 1 x 3 | NVI – 3 | CAT 307 |
| Tsankov Kamak Dam (Bulgaria) | 1 x 4 | NVI – 4 | Liebherr R 308 - 375 |

Applications

Netter hydraulic internal vibrators series NHR 150 are particularly suitable for the compaction of concrete of biggest granularity (up to 250 mm grain diameter).

Design and function

The vibrators are suspended on a mounting beam by cardans. Various designs of mounting beams are available, also variable ones (see diagram). Hydraulic excavators, loaders and dozers come into question for use as carrier vehicles. For example, the existing bucket of a hydraulic excavator can be removed and replaced by a Netter mass concrete compaction unit series NVI.

The complete controls for the NHR 150 vibrators are integrated in the mounting beam.

The existing supplementary hammer-/scissors operation equipment can generally be used for hydraulic supply and operation. Thus no further modifications to the carrier vehicle are required.

NetterVibration offers the accessories required for mounting, installation and control of vibrators and interval impactors.

Netter provides solutions. Consult our experienced application technicians.

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