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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

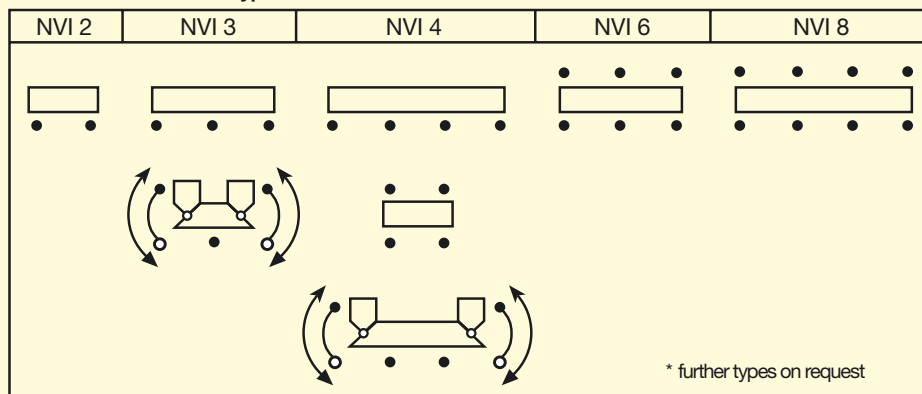
* depends on concrete characteristics and on-site conditions.

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:*



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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