

## — HF Vibrating Needles

AET, TNE, PEA Series



Our high-frequency vibratory needles are designed for intensive concrete compaction applications requiring a high level of performance. They are suitable for all types of construction on building sites and in prefabrication plants.

We offer 3 types of HF vibratory needles: the AET series, which is standard, the TNE series, with thermal protection, and the PEA series, with double thermal protection.

High-frequency concrete vibrators operate at 42 V / 200 Hz with single-phase 230 V / 50 Hz and three-phase 400 V / 50 Hz electrical converters, battery power packs or thermal generators.

High-quality components such as heavy-duty ball bearings and motor components guarantee long service life.

In the Vibra France workshops, we also make custom needle assemblies, adapting hoses and cable lengths to your needs!



### Features:

- High frequency 42 V – 200 Hz – 12 000 rpm
- Standard installation with 5-metre hoses and 10-meters cable with CEE plug
- AET series version: ABS enclosure and BREMAS switch
- TNE and PEA series: NYLON housing and MARQUARDT switch
- Supplied with steel tip as standard
- reinforced tube for PEA series, suitable for prefabrication draw-in needles



### Highlights:

- AET Series – Economical and reliable
- TNE Series – Robust, thermally protected and attractively priced, this is the benchmark for the construction site!
- PEA Series – Powerful, high-performance and with dual thermal protection, a legendary needle!

**Energy :** Electric

**Sectors :** Building and construction, Prefabrication

**Applications :** Debubbling, Internal vibration of concrete



## Vibrating needle AET series

HAUTE FREQUENCY 42 V / 200 Hz – 12 000 rpm

Economic and reliable  
Switch box in ABS – BREMAS Switch

High frequency vibrating needle powered by frequency converters , delivered with steel cap (Vulkollan cap as an option), 5 m hoses and 10 m cables and CEE socket

Type	Ø (mm)	L (mm)	Centrifugal force (N)	Intensity (A)	Yield (m³/h)	Ø Infl. (cm)	Weight (Kg)
AET38	38	360	1 250	4-8	10	35	7.9
AET50	50	360	3 000	5-9	15	50	11.5
AET60	60	390	5 000	10-13	25	65	14.6
AET65	65	402	5 400	12-15	30	70	16.0

*On demand: different length hoses, Vulkollan cap, rigid rod, gun handle*



## Vibrating needle TNE series

HAUTE FREQUENCY 42 V / 200 Hz – 12 000 rpm

Reliable and robust with thermal protective system  
Nylon MARQUARDT switch case

High frequency vibrating needle powered by frequency converters , delivered with steel cap (Vulkollan cap as an option), 5 m hoses and 10 m cables and CEE socket

Type	Ø (mm)	L (mm)	Centrifugal force (N)	Intensity (A)	Yield (m³/h)	Ø Infl. (cm)	Weight (Kg)
TNE40*	38	340	1 600	6-10	15	40	8.5
TNE50	52	382	3 300	8-13	20	55	12.3
TNE60	59	410	5 300	12-15	30	70	15.0
TNE65	65	425	5 800	11-16	35	75	17.0
TNE75*	75	430	7 500	12-17	40	90	20.0

\* Only steel cap

*On demand: different length hoses, Vulkollan cap, rigid rod, gun handle*



## Vibrating needle PEA series

HAUTE FREQUENCY 42 V / 200 Hz – 12 000 rpm

Power full and high-performance with  
dual thermal protective system  
Nylon MARQUARDT switch case

High frequency vibrating needle powered by frequency converters , delivered with steel cap (Vulkollan cap as an option), 5 m hoses and 10 m cables and CEE socket

Type	Ø (mm)	L (mm)	Centrifugal force (N)	Intensity (A)	Yield (m³/h)	Ø Infl. (cm)	Weight (Kg)
PEA30*	32,0	318	1 350	4-8	12	30	8
PEA37	39,7	367	1 700	5-9	20	55	10
PEA47	51,0	390	3 800	9-15	25	65	15
PEA57	59,0	360	5 900	12-18	35	80	16
PEA65	65,0	346	6 100	12-22	40	90	18

\* Only steel cap

*On demand: different length hoses, Vulkollan cap, rigid rod, gun handle, reinforced pocket*

