



# H35S

## Short Reach High Frequency Integrated Concrete Vibrators

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Internal & Confidential

**AGP** | H35S Short Reach High Frequency Integrated Concrete Vibrator

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# Introduction

## Target group & Applications

### H35S Introduction

The H35S is a high frequency electric internal concrete vibrator with integrated power converter. With its 85 centimeter hose, it offers convenience and ease of use for common vibrating tasks, such as slabs. Its high frequency motor offers high efficiency and light weight. There are many different types of concrete vibrators, and these high frequency electric types with the motor directly in the poker head offer the best performance available. Since the motor is located directly in the poker head, there is no energy loss from a drive cable system. This results in the most efficient possible concrete compaction, saving time and money as well as ensuring the best results. Choose the H35S for structures with restricted space between the rebar and for general vibrating tasks.

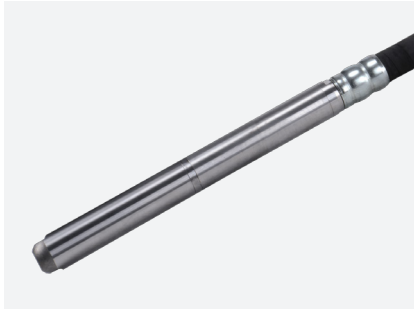
### Target Groups and Applications

This is a potent tool specifically designed for quickly vibrating out all of the air pockets and voids in freshly poured concrete. This ensures that the concrete fully settles around the supporting rebar and into all corners of the forms. If the settling of the concrete were left to gravity alone, especially with thick, low- slump mixes, there would be many voids which would severely weaken the resulting structure. Concrete vibrators solve this problem and ensure the best possible quality and integrity of the resultant concrete structure. The added benefit is that the concrete will be denser and less porous, meaning it will be more watertight as well as less likely to crack in the future.

This tool is essential for the pouring of concrete, especially on important structures with critical strength specifications. It will be used by any construction professionals who perform the pouring of concrete for all types of structures, including slabs, buildings, bridges and others.



# Sales Arguments



## High Frequency Motor

The 400 Hz motor, mounted directly in the hardened steel poker head, gives superior efficiency to competitors' 200 Hz motors for more effective vibration action.



## No Driveshaft in the Hose

This design gives much higher vibrating efficiency than drive cable type vibrators, since the hose only carries the electrical wires, meaning that there are no friction problems and power losses from a drive cable.



## Integrated Power Converter with Large Heat Sink

More convenience with the entire vibrator self contained in one unit. There is no need for a separate converter - just plug directly into the outlet. Large, finned, external heat sink ensures good cooling and easy cleaning.



## Smart Electronic Design

Sophisticated converter electronics protect the motor from overload and protect from over or under voltage. Special electronics allow the same unit to be used with either 110 or 230 V single phase supply.



## Extra Protection for the Cable

The heavy-duty strain relief gives exceptional protection from damage to the power supply cable.



## Long Power Supply Cable

The 7 meter power supply cable gives more freedom of movement around the jobsite. The inline PRCD interrupter provides current leakage protection.



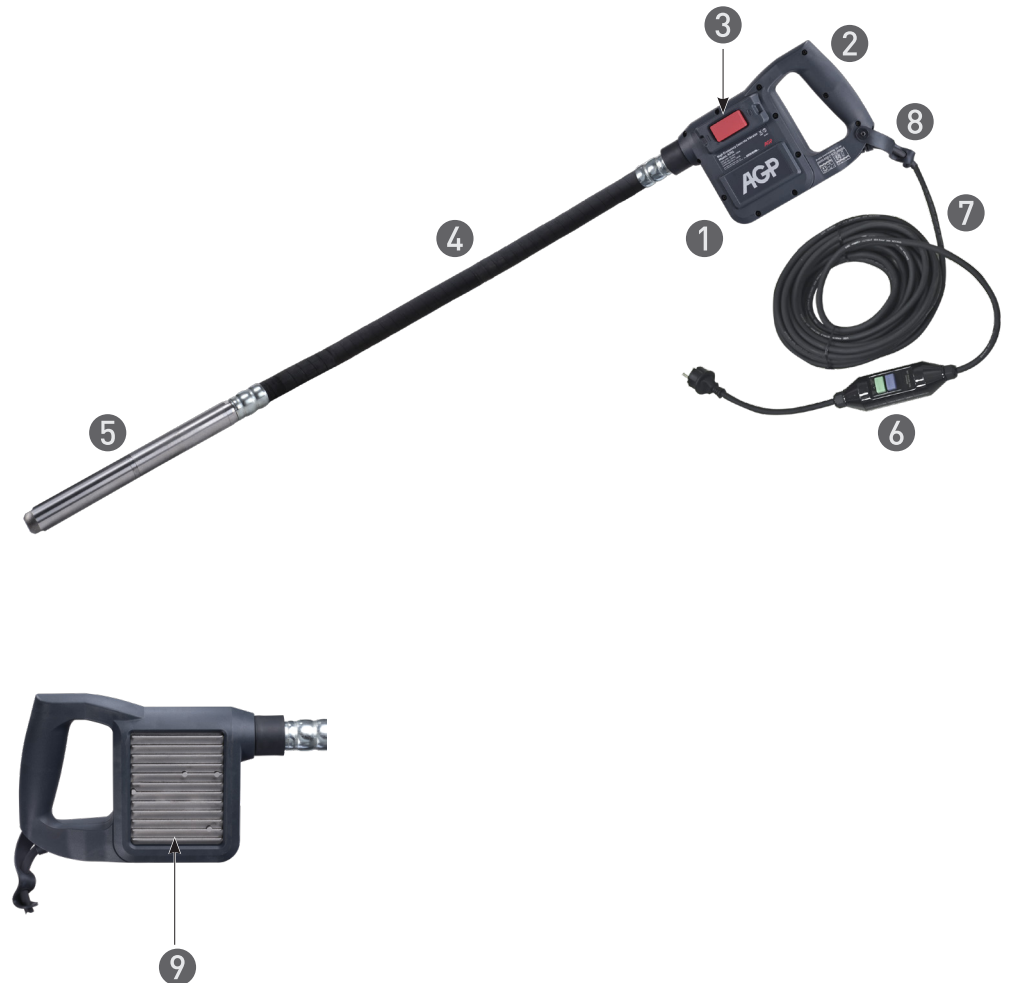
## Manageable Dimensions

Best-in-class weight and the 85 centimeter hose results in a very convenient self-contained package for ease of use and fatigue free operation.

# Technical Specification

|                              |                       |
|------------------------------|-----------------------|
| Model                        | H35S                  |
| Power Input                  | 1000 W                |
| Input Voltage, Frequency     | 100-240 V ~ 50-60 Hz  |
| Motor Frequency              | 400 Hz                |
| Vibration Rate               | 13,500 v/min (225 Hz) |
| Centrifugal Force            | 1301 N                |
| Vibrator Head Size           | Ø 35 mm x 314 mm      |
| Hose Size                    | Ø 30 mm x 0.85 m      |
| Power Supply Cable Length    | 7 m                   |
| Ingress Protection           | IPX7                  |
| Insulation Class             | Class I with PRCD     |
| Converter Dimensions (LxWxH) | 250 x 60 x 170 mm     |
| Weight                       | 4.1 kg (9.0 lb)       |

- 1 Integrated Power Converter
- 2 Main Handle
- 3 On/Off Switch
- 4 Hose
- 5 Poker Head  
(Containing High Frequency Motor)
- 6 PRCD Interrupter
- 7 Power Supply Cable
- 8 Strain Relief
- 9 Heat Sink



# Offer Content

## Standard Accessories

- ① Integrated High Frequency Concrete Vibrator Unit
- ② Inline PRCD Interrupter

## Optional Accessories

- ③ Band Clamp Type Hose Attachment (Press fit type is standard)
- ④ Different Length of Hose



# Comparison Table

Brand



High Frequency Electric Concrete Vibrators with Integrated Converter



| Model                 | H35S            | IRSE-FU 45   | Smart E40    | Spyder Pro 230V 38-P | HS-E 36      |
|-----------------------|-----------------|--------------|--------------|----------------------|--------------|
| Input Voltage         | 100-250 V       | 220-240 V    | 220-240 V    | 220-240 V            | 220-240 V    |
| Converter Power Input | 1000 W          | 1100 W       | 400 W        | 1500 W               | 920 W        |
| Motor Frequency       | 400 Hz          | 200 Hz       | 200 Hz       | 200 Hz               | 200 Hz       |
| Vibrations per Minute | 13 500 /min     | 12 000 /min  | 12 300 /min  | 12 000 /min          | 12 000 /min  |
| Amplitude             | 1.6 mm          | 2.3 mm       | 2.8 mm       | (not listed)         | (not listed) |
| Centrifugal Force     | 1301 N          | (not listed) | 1600 N       | 1471 N               | (not listed) |
| Ingress Protection    | IP X7           | IP 67        | IP X4        | IP 67                | IP 58        |
| Head Diameter x (L)   | ø35 x 314 mm    | ø45 x 382 mm | ø40 x 320 mm | ø38 x 350 mm         | ø36 mm       |
| Hose Size & Length    | ø30 mm x 0.85 m | 0.8 m        | 0.5 m        | 5 m                  | 0.85 m       |
| Weight                | 4.1 kg          | 15 kg        | 14.1 kg      | 14.6 kg              | 8 kg         |
| Street Price, w/o Tax |                 | 1 462,50 €   | 1 410,92 €   | 965,70 €             | 1 550,00 €   |

Conclusion

1. The **AGP** converter system is unique in the industry in having a large, exposed heat sink with cooling fins, which avoids the most common reliability issue with this type of tool: converter overheating.
2. **AGP** H43S has the best-in-class centrifugal force, for the most efficient possible compaction.
3. The handle is also ergonomically designed for operator comfort.
4. Being the lightest in weight, the **AGP** units minimize operator fatigue.
5. With **AGP**, you can use the same unit for both 110 V and 230 V input, all others require you to buy a different unit for use with 110 V vs. 230 V.

# Tool Dimensions (mm)

