

## ► Piling and drilling

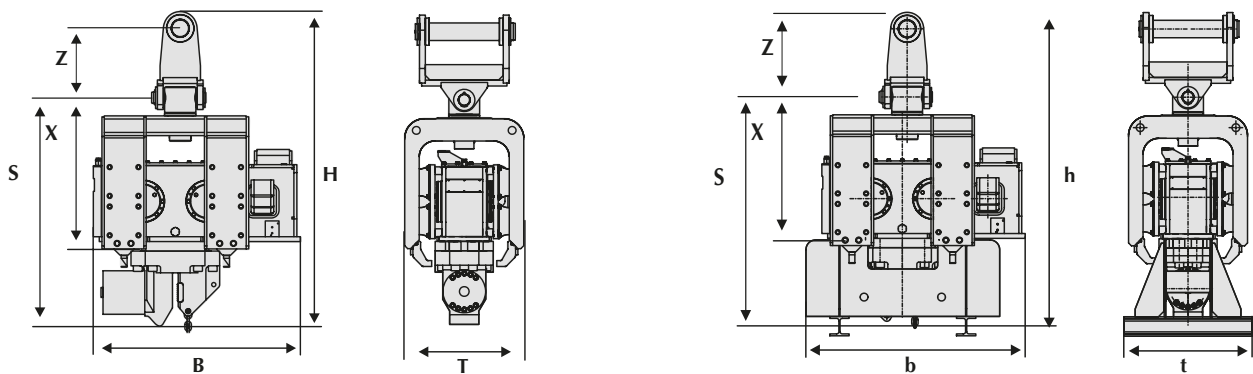
For smaller projects ABI offers attachments for hydraulic excavators. The add-on **vibrator HVR** is mounted at the dipper stick of a hydraulic excavator boom and driven by its hydraulic system.

Apart from characteristics like very short starting and stopping times, high revolutions, low noise level as well as low weight and high centrifugal forces, the HVR is characterised by a short design height. This advantage appears particularly in buildings, under bridges or power lines. Little usable length is lost due to its small design height. The add-on vibrator is used for piling and extracting sheet piles, trench sheets, steel beams and girders, pipes and casings as well as full displacement sections.



## ► ABI Add-on vibrators

### ■ HVR 30 ■ HVR 45 ■ HVR 60 ■ HVR 85 ■ HVR 100



Technical data	Unit	HVR 30	HVR 45	HVR 60	HVR 85	HVR 100
Static moment	kgm	3	4,5	6	8,5	10
Dynamic mass	kg	565	740	920	1480	1495
Nominal revolutions	min <sup>-1</sup>	3000	2460	2460	2300	2135
Centrifugal force at nominal frequency	kN	300	300	400	500	500
Static extraction force max.	kN	40	40	40	80	80
Nominal oil pressure	MPa	32	32	32	32	32
Hydraulic flow rate	l/min	90	130	196	245	312
Hydraulic power at p max.	kW	50	70	100	130	170
Total weight / transport weight	kg	890 / 975	1100 / 1185	1260 / 1345	2055 / 2275	2080 / 2300
Weight of pile elements	kg	500	800	1000	1500	1600

Dimension / mm	HVR 30	HVR 45	HVR 60	HVR 85	HVR 100
H Height	1560	1595	1635	1865	1865
B Width	1020	1050	1170	1445	1445
T Depth	610	615	615	750	750
S Locking to bottom	1120	1160	1200	1430	1430
X Locking to vibrator body	740	780	820	845	845
Z Excavator connection standard	352	352	352	352	352
Transport dimensions H / B / T	1670 / 1000 / 660	1670 / 1135 / 660	1710 / 1185 / 660	1965 / 1480 / 1030	1965 / 1480 / 1030