



ABI TM 14/17 Telescopic Leader Rig

Rig Weight	56.7 Tonnes (with MRZV 18 VV Vibratory Hammer)
Carrier	SR35T-C
Width of Track (Retracted)	3.0 Metres (Transport Mode)
Width of Track (Extended)	4.0 Metres
Transport Height (from underside of tracks)	3.4 Metres
Length of Tracks	5.1 Metres
Tail Swing	3.71 Metres

Working Limits

Maximum Pile Length (with MRZV 18VV Vibratory Hammer)	17.0 Metres
Maximum Auger Length (with MDBA 3000 Auger Drive Attachment)	17.2 Metres
Maximum Driven Pile Length (with HPH 2400 Impact Hammer Attachment)	15.0 Metres
Maximum Winch Capacity	5.0 Tonnes
Maximum Pile Weight (Using pitching chain)	3.0 Tonnes





Optional Attachments

- HPH 2400 2.0 Tonne Hydraulic Impact Hammer (5.9 Tonne)
- MDBA 3000 3.0 Tonnes / Metres Auger Drive (2.1 Tonnes)
- MDBA 6000 6.0 Tonnes / Metres Auger Drive (2.0 Tonnes)
- HPU / HPZ Hydropress

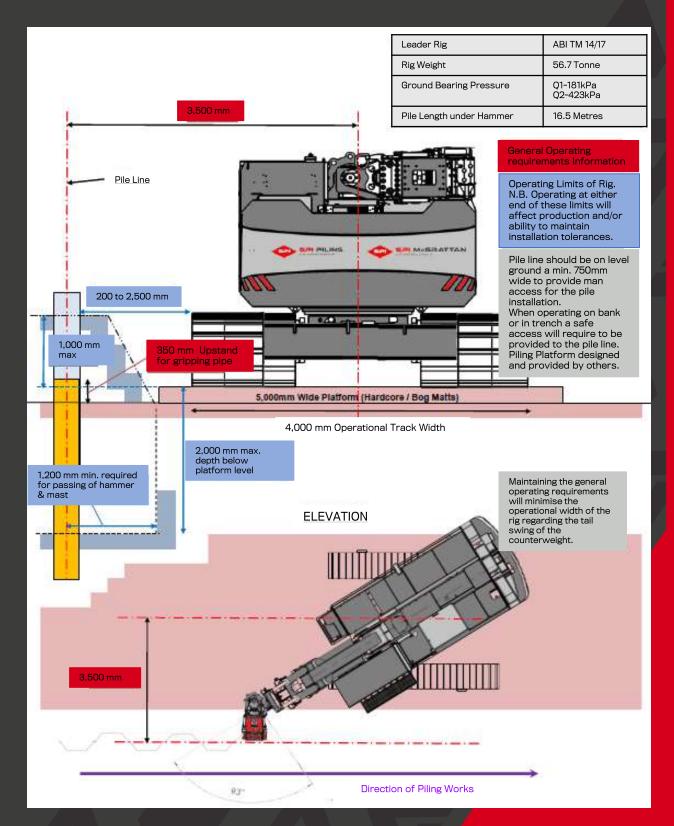
Suitable Applications

- Driving / Extracting Sheet Piles up to 17 Metres in length (as singles or in pairs
- Pre-Augering
- Impact Driving
- Driving Steel Bearing / Tubular Piles / H-Piles

FOR FURTHER INFORMATION OR TO HIRE ANY OF OUR EQUIPMENT PLEASE CALL 0845 450 7475





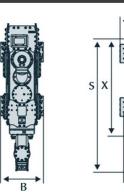


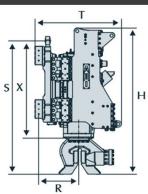


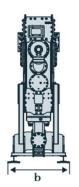
571 PILING

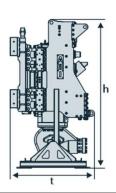
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Vibrators MRZV-18V









Technical Data MRZV 18V

Static Moment	kgm	0-18
Dynamic mass	kg	2730
Amplitude x2	mm	13
Nominal resolutions	Min-1	2160
Centrifugal Force at normal frequency	kN	925
Static Extraction force max.	kN	200
Nominal oil pressure	MPa	32
Hydraulic flow rate max.	l/min	693
Require hydraulic Power at vibrator	kW	360
Total weight* / transport weight*	kg	4120 / 4335
Weight of pile elements max.**	kg	2750

Dimensions*

Н	Height	mm	2720
В	Width	mm	690
Т	Depth	mm	1405
R	Guild to driving axle	mm	650
S	Locking to bottom	mm	2530
X	Locking to vibrator bottom	mm	1880

Transport Dimensions

Height (h) / Width (b) / Depth (t) mm 2800 / 1030 / 1405





ASSESSMENT FOR TRANSFER OF VIBRATION DURING PILE DRIVING & EXTRACTION

INPUT INFORMATION

Hammer Model: Hammer Type: Soils Information: 10000 J/cycle Maximum Power Energy:

Lower Power Energy: J/cycle

Table 1: Soils Information

Method	Ground Conditions	С		
Impact	Very stiff cohesive, dense granular, rock, fill with large obstructions	1.00		
	Stiff cohesive, medium dense granular, compact fill			
	Soft cohesive, loose granular, loose fill, organic soil	0.50		
Vibro	All soils	0.70		

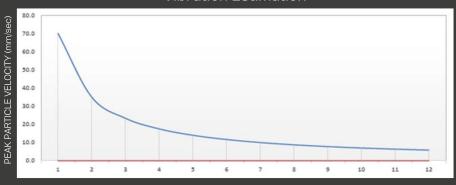
OUTPUT INFORMATION

Based on the following equation the theoretical PPV levels has been calculated to demonstrate the required safe working distances to work within the stated limits.

 $v = C\sqrt{(W)/r}$.

Where: V = ppv, C = Soil/hammer parameter, W = hammer energy per blow/cycle, r = distance to point of interest.

Vibration Estimation



DISTANCE TO POINT OF INTEREST (M)

Max power ppv (V): [mm/s]

Lower power ppv (V):[mm/s]

ASSESSMENT OF SAFE WORKING DISTANCES BASED ON STANDARDS TRIGGER LEVELS

Hazard Classification	ppv	Radius	Radius	Hazard Classification	ppv	Radius	Radius
	mm/s	m	m		mm/s	m	m
Ruins, Buildings of architectural merit	2	35.0	0.0	Heavy Industrial	15	4.7	0.0
Residential	5	14.0	0.0	Buried Services (general)	25	2.8	0.0
Light Commercial	10	7.0	0.0	Buried Services (old brick sewers)	12.5	5.6	0.0

Tolerance of building (not occupants)
Values from EC3:5 FOR COSMETIC DAMAGE – DEPENDENT ON HAMMER TYPE



