重日本車両





NIPPON SHARYO





CHUNJO Corporation

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DH718K-145M

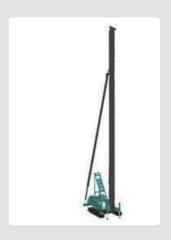
MANUFACTURER:
NIPPON SHARYO,LTD.
SALES&MANUFACTURER
SHINUI PETRA CO.,LTD.



NIPPON SHARYO PHOENIX SERIES DH718K-145M

Features

- 1. One-touch system for easy operation
- Excellent swing operation with moderate weight
 (Stable swing speed with a long leader, smooth operation, and outstanding safety)
- 3. High durability by high-strength turntable and main body
- 4. Easy and convenient purchase and replacement of parts







ECO-FRIENDLY ENGINES



Satisfying the Tier 3 Standards

Powerful low-pollution engines

Low-noise type

Satisfying the low-noise standards of the Japanese Ministry of Land, Infrastructure, Transport and Tourism





Parts made by Shinui Petra Co.,Ltd.

Leader





- Reduced strain rates and damage rates with Shinui Petra's patented technology
- 2 Improved stability with durable processing and precise welding
- 3 Outstanding compatibility with a backtension top sheave
- 4 Improves leader strength and torque with integral flange
- 5 Inosculates annular plate inside the leader pipe, effectively dealing with the external force applied on the leader when piledriver is running

Bolt

Improved bolt durability with high-strength heat treatment





- 2 Improved inconvenience of reassembly by lowering strain and damage rates of bolts for disassembly
- 3 Plate washers' more durable clamping force than existing spring washers

WATCH AND OPERATE THE VEHICLE IN THE OPERATION ROOM EASILY



We reduced the number of winch levers by introducing the one-drum-one-motor individual lever system to a multi-drum pile driver.

In addition, we simplified the operator's seat by moving all levers from the operator's seat to the side stand except the stay cylinder lever in order to secure a wider view for operators. The operation room was designed to have a pleasant environment so that operators experience less stress from fatigue.

▲ Airconditioning duct

Air-conditioning system using alternative Freon

MORE WIDELY APPLICABLE FOR THE WALL FOUNDATION AND SOIL IMPROVING METHODS IN ADDITION TO THE PILE DRIVING METHODS

Standardized slow speed control

The control scope of the rope speed increased to maximum 13 level (from 1 to 13 level) so that it is applicable for various auger methods, which improved pile driving quality and lifespan. (The rope speed varies depending on loads.)

Various kinds of hydraulic discharge (Option)

You can obtain required pressure or a flow rate with standard pumps for hydraulic discharge for NH-70 or forcers or with exclusive pumps for excavating forcers such as NH-100.



REDUCED STRESS WITH OUTSTANDING LAYOUT AND OPERATION FUNCTIONS

Standardized negative brakes and drum locks (Patented)

Automatic brakes are available for each drum when the one-drum-one-motor individual lever system is selected and a winch is easy to operate. As drum locks are automated with lever arrangement, it is easier to check A Main, Sub, Third the drum lock conversion status.



drum lock

▲ Fourth drum lock (option)

Load cell with inclinometer functions

In order to prevent the risk of tumble, the load cell measures an angle of inclination of the main body and leader and rings the alarm. In addition, it measures a pull-out load of the auger and informs the allowable pull-out load with an alarm. Its anti-sagging function prevents a tangle by automatically stopping lowering when wire tension reduces during extrusion.

* Auto stop is available for the main drum only.



I oad cell with inclinometer functions

OK monitor display

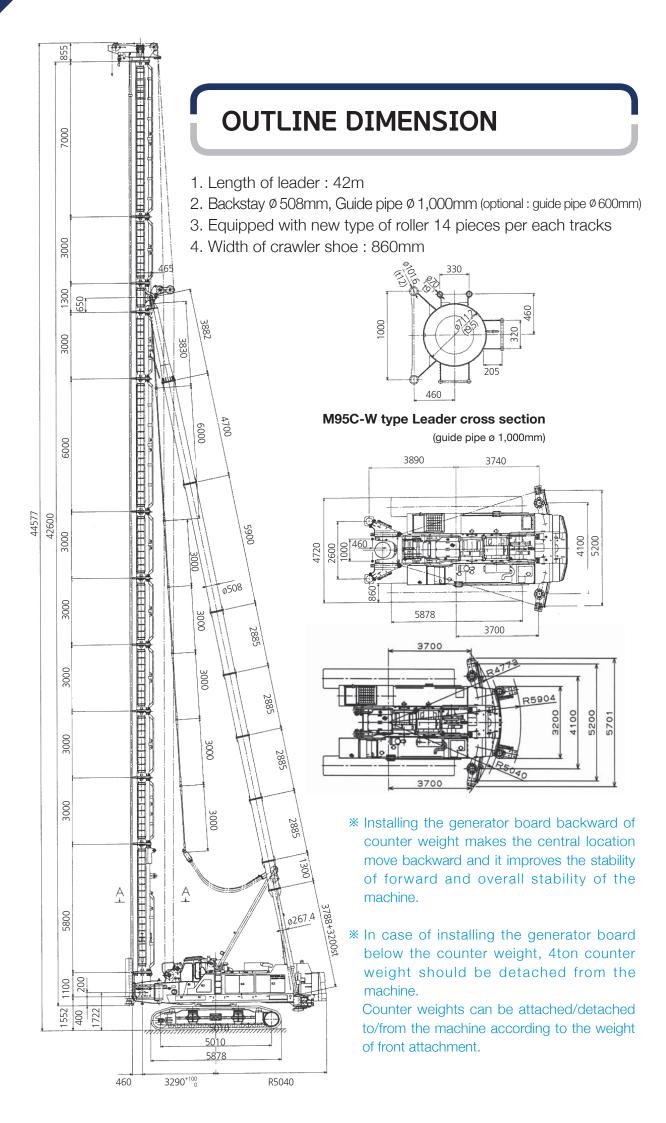
It displays air filter clogging, water volume of the radiator, liquid measure of batteries, engine oil filter clogging, engine pressure, fuel gauge and battery charging status, and engine water temperatures.



External display of drum locks (Option)

You can check the status of drum locks with an external display, which improves operational safety.

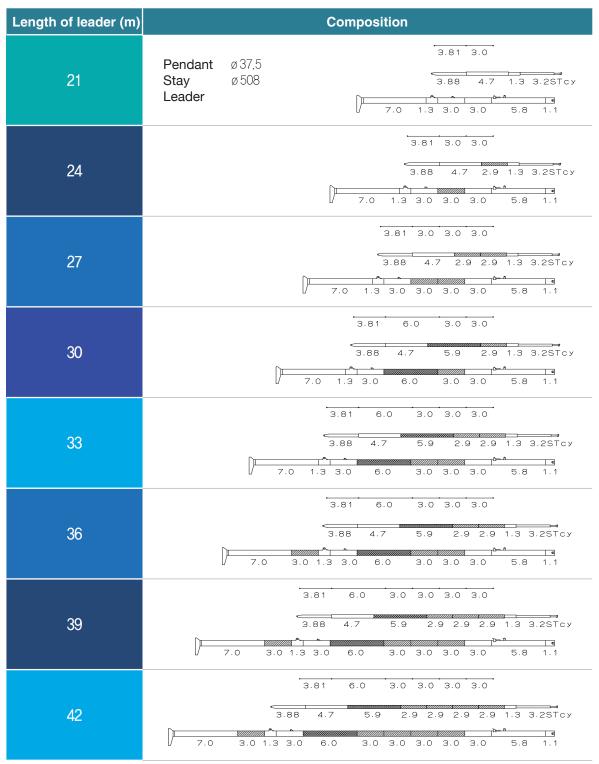




SPECIFICATIONS

	MODEL	DH718K-145M			
	Type of Lead	M95C-W			
	Length of lea	Standard 21m (Maximum 42m)			
	Weight of base m	achine	49,000kg (480.2kN)		
	Operating we	145,000kg (1,421kN)			
	Counter weig	18.5t (5.5t+2.7t×2+3.6t+4t)			
	Average ground p	1.68kgf/cm²			
General	Crawler overall width	Working	4,720 mm		
dimensions	Grawler overall width	Transportation	3,420 mm		
	Crawler center to center	Working	3,860 mm		
	distance	Transportation	2,560 mm		
	Crawler shoe v	860 mm			
	Crawler overall I	5,878 mm			
	Tumblers center to cer	5,010 mm			
	Gantry height	Working	7,368 mm		
	Gantry neight	Transportation	3,322 mm		
	ain drum width (Ø20 x tota	541mm (565m)			
	Main drum width (Ø20 x tot	374mm (390m)			
Drum	Auxiliary drum width (Ø2 capacity)	146mm (145m)			
	Fourth drum width (Ø20 x to	200mm (120m)			
	Main drum winding spe	66/33m/min			
	Third drum winding spe	66/33m/min			
	Auxiliary drum winding sp	66/33m/min			
Operation speed	Fourth drum windir	39m/min			
эрсса	Leader hoist drum wir	47m/min			
	Swing spee	2.4min ⁻¹			
	Travel spee	0.8km/H			
	Manufacture	Hino motors,Ltd.			
	Model	J08E-TM			
	Rated outpu	159kW/2000min ⁻¹ (216 PS/2000rpm)			
Engine	Maximum tore	797N·m/1600min ⁻¹ (81.3 kgf·m/1600rpm)			
	Fuel consumption	208g/Kw · h (153g/PS · h)			
	Battery	24V-120A · h×2			

M95C-W LEADER COMPOSITION - STANDARD



- ** The table above is an example to show the composition of leader, it's not compulsory. The length and composition of leader can be chagned depending on the weight of attachment and the distance of center distance.
- ** The maximum leader length should be applied in accordance with the model recognition of construction equipment approved by Korean Construction Equipment Safety Institute and working capacity table.
- * The above composition of leader changeable by manufacturer.

M95C-W LEADER COMPOSITION - EXAMPLE

Length of leader (m)	Composition							
21	Pendant Ø 37.5 Stay Ø 508 Leader 3.81 3.0 3.81 3.0 3.88 4.7 1.3 3.25Tcy 7.0 1.3 3.0 3.0 5.8 1.1							
24	3.81 3.0 3.0 3.88 4.7 2.9 1.3 3.2STcy 7.0 1.3 3.0 3.0 3.0 5.8 1.1							
27	3.81 3.0 3.0 3.0 3.88 4.7 2.9 2.9 1.3 3.2STcy							
30	3.81 6.0 3.0 3.0 3.88 4.7 5.9 2.9 1.3 3.2STcy 7.0 1.3 3.0 6.0 3.0 3.0 5.8 1.1							
33	3.81 6.0 3.0 3.0 3.0 3.88 4.7 5.9 2.9 2.9 1.3 3.2STcy 7.0 1.3 3.0 6.0 3.0 3.0 5.8 1.1							
36	3.81 6.0 3.0 3.0 3.0 3.0 3.88 4.7 5.9 2.9 2.9 1.3 3.2STcy 7.0 1.3 3.0 3.0 6.0 3.0 3.0 5.8 1.1							
39	3.81 6.0 3.0 3.0 3.0 3.0 3.0 3.88 4.7 5.9 2.9 2.9 2.9 2.9 1.3 3.2STcy 7.0 1.33.0 3.0 6.0 3.0 3.0 3.0 3.0 5.8 1.1							
42	3.81 6.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3							

^{*} The table above is an example to show the composition of leader, it's not compulsory. The length and composition of leader can be chagned depending on the weight of attachment and the distance of center distance.

^{*} The composition of leader can be adjusted by the user's working condition.

WORKING CAPACITY TABLE

Safety is measured according to the structural standards of construction machinery vehicles notified by the Japanese Ministry of Health, Labor and Welfare. According to the standards, a vehicle should have a 5 or higher degree of front-rear stability and bilateral stability on flat and durable ground. Our products meet these standards.

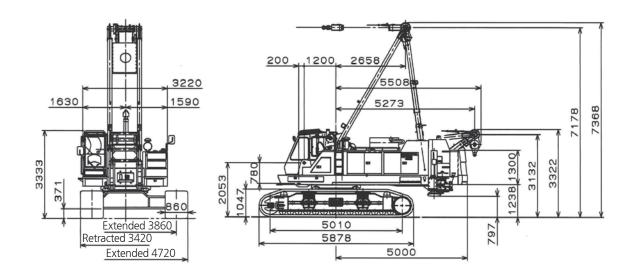
Rated power	159kW(216PS)/2000min ⁻¹	Leader type	M95C-W	Counter weight	18.5t
Travle speed (Max.)	0.8km/h	Leder bracket type	3.0M	Base mahine weight	49.0t

Auger								Vertical drive		Total operating	Average			
Up _l aug	per ger	Lower auger		Screw Casing		sing	Hammer	Lead- er	stability without pile (working)		weight without pile	ground pressure with pile		
Type (Class)	Weight (t)	Type (Class)	Weight (t)	Length (m)	Weight (t)	Length (m)	Weight (t)	Weight (t)	Length (m)	Front & rear	Left & right	t	kPa	kgf/cm²
120PS	5.8	150PS	6.7	30	5.0	22	10.5	4	36	7.0° (***)	12.0	137	155.8	1.59
120P	5.8	-	-	35	8.8	-	-	5.8	39	9.0	11.8	127.5	145.0	1.48
SW- 120PW	6.5	SW- 150PW	8.5	38	5.0	34.0	2.0	7.0	42	77° (* *)	10.0	145	164.9	1.68

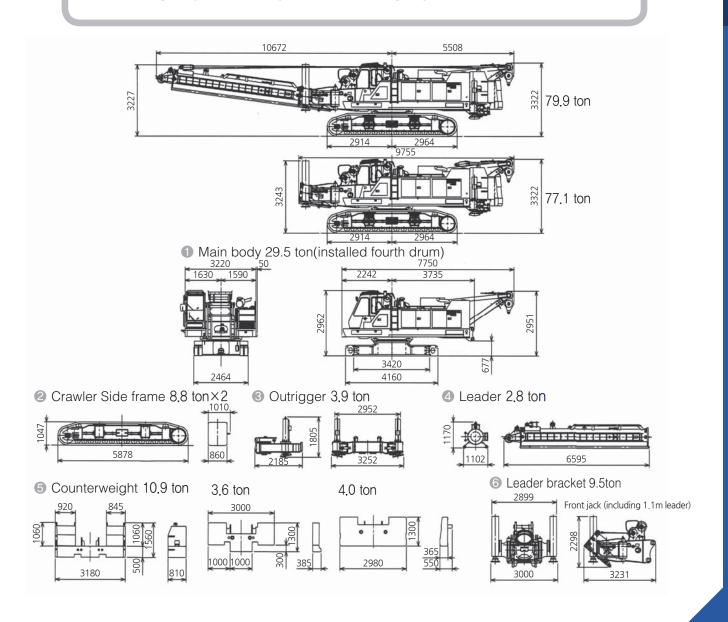
Note

- 1. The table shown above is based on NIPPON SHARYO standard specification. Consult us when special specifications are required.
- 2. The maximum leader length of self-erection is 27m with front jacks being installed. An assistant crane is required for erecting longer leader than 27m.
- 3. Take the safety factor of 5 or more for the auger suspension rope and other winch ropes.
- 4. The maximum operating weight is 145t.
- 5. The permissible torque of the auger drive to be installed is 245kN-m (25ton-m).
- 6. The maximum extraction force applied to the leader is 637kN(65t). 27m leader and the distance between auger center and guide pipe is 800mm.
- 7. Apply front jacks when the suspension load of the auger exceeds 510kN (52t)
- 8. When installing 33m or 36m leader, generator board can be put on the counter weight. In case the length of leader is higher that 36m, make sure that the generator board is installed below the counter weight for stability.
- 9. Maximum length of leader should be under 42m working while working on the weak ground. In case of installing leaders higher than 42m, calculation of ground contract pressure and ground reinforcement are necessary. In addition, operators should pay particular attention for traveling in this situation.
- 10. The above working can be changed depending on the attachment, leader length and the position of generator. etc.

GENERAL VIEW



TRANSPORTATION DIMENSION AND WEIGHT





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