

Tripodal Pile Driver

SP110

■SP110 Performance Characteristics (Leader type: R70)

Model/class	Pile hammer		Earth auger				Leader length	Pile			Vertical pile driving stability (w/suspended pile)	Backward slant pile driving		Total working mass	Ground pressure
	Mass	Cap mass	Driving unit		Auger	Length		Mass	Dia.	Slant angle		Stability (w/o pile)			
			Model	Mass									Length		
	ton	ton		ton	m	ton	m	m	ton	mm	(°)	(°)	(°)	ton	kPa(kgf/cm ²)
MH80B	19.5	4.0	-	-	-	-	27.0	19.0	10.0	1500	6.0	13.0	5.3	106.1	127(1.29)
MH80B	19.5	4.0	-	-	-	-	30.0	22.0	10.0	1500	5.3	10.0	5.9	107.5	128(1.30)
#70	19.5	3.0	-	-	-	-	27.0	19.0	10.0	1500	6.1	13.0	5.4	105.1	125(1.27)
#70	19.5	3.0	-	-	-	-	30.0	22.0	10.0	1500	5.4	10.0	6.0	106.5	127(1.29)
KB60	15.0	3.0	-	-	-	-	33.0	25.0	10.0	1200	6.3	9.0	5.3	103.7	125(1.27)
#45	11.0	1.5	-	-	-	-	33.0	26.0	10.0	850	7.9	9.0	5.5	98.2	117(1.19)
-	-	-	D-150H	12.0	25.0	8.2	30.0	23.0	10.0	1400	6.5	-	-	104.3	124(1.26)
-	-	-	D-120H	9.5	29.0	6.7	33.0	27.0	10.0	1200	7.1	-	-	102.0	122(1.24)
-	-	-	D-80H	7.0	29.0	4.9	33.0	27.0	10.0	1000	8.5	-	-	97.7	116(1.18)
#45	11.0	1.5	D-120H	9.5	23.0	5.3	27.0	21.0	10.0	850	6.1	-	-	109.6	131(1.33)
#35	8.5	0.7	D-120H	9.5	29.0	6.7	33.0	26.0	10.0	750	5.2	-	-	110.8	133(1.35)
#25	5.3	0.5	D-120H	9.5	29.0	6.7	33.0	28.0	10.0	700	5.8	-	-	107.4	129(1.31)

- Notes:
1. Max. leader length which can be lifted off ground unassisted is 30m under the condition that front jack is applied. In case that leader length exceeds 33m, an assist crane is required for erection of leader.
 2. Leader guide pipe of 101.6mm dia. with 600mm pitch is available to mount pile hammer of MH80B and class #70, or earth auger of D-150H and D-120H while the other guide pipe of 70mm dia. with 330mm pitch is applicable to mount other pile hammers than MH80B and class #70, or earth auger of D-80H.
 3. Max. earth auger torque as allowable is 98kN-m<10t-m>.
 4. Max. auger extraction force as allowable is 50t that, however, includes a total mass of earth auger unit and its accessories under the conditions that (1) an independent auger operation is applied, (2) leader length is 24m or less, (3) center of gravity of earth auger unit do not exceed 655mm from center of guide pipe, and (4) front jack is applied.
 5. Total working mass excludes mass of pile.

■SP110 Performance Characteristics (Leader type: R90)

Model/class	Pile hammer		Earth auger				Leader length	Pile			Vertical pile driving stability (w/suspended pile)	Backward slant pile driving		Total working mass	Ground pressure
	Mass	Cap mass	Driving unit		Auger	Length		Mass	Dia.	Slant angle		Stability (w/o pile)			
			Model	Mass									Length		
	ton	ton		ton	m	ton	m	m	ton	mm	(°)	(°)	(°)	ton	kPa(kgf/cm ²)
MH80B	19.5	4.0	-	-	-	-	27.0	19.0	10.0	1500	5.8	13.0	5.3	107.3	128(1.30)
#70	19.5	3.0	-	-	-	-	27.0	19.0	10.0	1500	5.9	13.0	5.4	106.3	127(1.29)
KB60	15.0	3.0	-	-	-	-	33.0	25.0	10.0	1200	6.0	9.0	5.3	105.1	125(1.27)
#45	11.0	1.5	-	-	-	-	36.0	29.0	10.0	850	6.7	7.0	5.7	101.2	121(1.23)
-	-	-	D-240H	13.0	22.0	9.9	27.0	20.0	10.0	1700	6.1	-	-	106.8	128(1.30)
-	-	-	D-150H	12.0	25.0	8.2	30.0	23.0	10.0	1400	6.3	-	-	105.7	126(1.28)
-	-	-	D-120H	9.5	29.0	6.7	33.0	27.0	10.0	1200	6.8	-	-	103.4	123(1.25)
-	-	-	D-80H	7.0	32.0	5.4	36.0	30.0	10.0	1000	7.2	-	-	101.1	121(1.23)
#35	8.5	0.7	D-150H	12.0	19.0	6.3	24.0	18.0	10.0	750	6.5	-	-	109.3	131(1.33)
#45	11.0	1.5	D-120H	9.5	23.0	5.3	27.0	21.0	10.0	850	6.0	-	-	110.8	133(1.35)
#35	8.5	0.7	D-120H	9.5	26.0	6.0	30.0	23.0	10.0	750	5.8	-	-	109.8	132(1.34)

- Notes:
1. Max. leader length which can be lifted off ground unassisted is 27m under the condition that front jack is applied. In case that leader length exceeds 30m, an assist crane is required for erection of leader.
 2. Leader guide pipe of 101.6mm dia. with 600mm pitch is available to mount pile hammer of MH80B and class #70, or earth auger of D-240H, D-150H and D-120H while the other guide pipe of 70mm dia. with 330mm pitch is applicable to mount other pile hammers than MH80B and class #70, or earth auger of D-80H.
 3. Max. earth auger torque as allowable is 127kN-m<13t-m>.
 4. Max. auger extraction force as allowable is 60t that, however, includes a total mass of earth auger unit and its accessories under the conditions that (1) an independent auger operation is applied, (2) leader length is 27m or less, (3) center of gravity of earth auger unit do not exceed 800mm from center of guide pipe, and (4) front jack is applied.
 5. Total working mass excludes mass of pile.

-We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
 -Illustrations may include optional equipment and accessories, and may not include all standard equipment.
 -Units in this catalog are shown under International System of Unit; the figures in parenthesis are under Gravitational System of Units as old one.

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