JACK-IN PILE (M) SDN BHD

捷進地基（馬）有限公司

Environmental Friendly And Efficient Piling System

800T JACK-IN PILE (M) SDN BHD

GOLDEN BULL AWARD 2009 金牛奖
GOLDEN BULL AWARD 2010 金牛奖

QUALITY SYSTEM
STANDARDS MALAYSIA
SIRIM
MS ISO/IEC 17021:2006 QS 02121999 CB 01

QUALITY SYSTEM
SIRIM
UKAS QUALITY MANAGEMENT
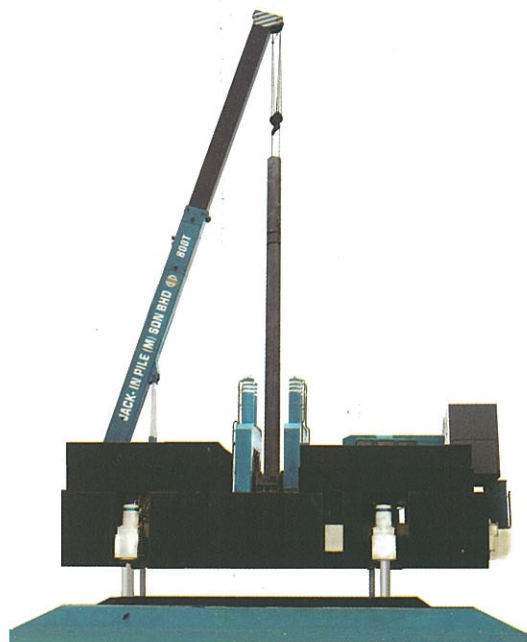074

www.jackinpile.com.my

our range of
PILING MACHINES

1000 Tons Hydraulic
Jack-in machines with crane

800 Tons Hydraulic
Jack-in machines with crane

380 Tons Hydraulic
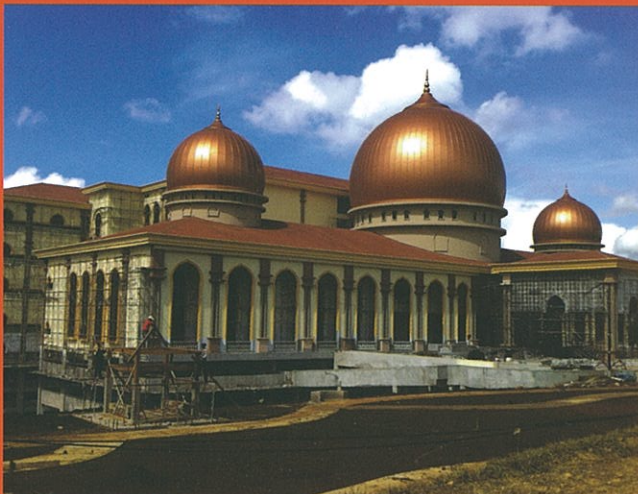Jack-in machines with crane

600 Tons Hydraulic

250 Tons Hydraulic
Jack-in machines with crane

...onas Refinery, Sungai Udang (Melaka)

...E Highway, Setapak (Kuala Lumpur)

Mahkamah Kuantan (Pahang)

Ground Breaking Ceremony of Penang Airport Extension by Prime Minister of Malaysia (Penang)

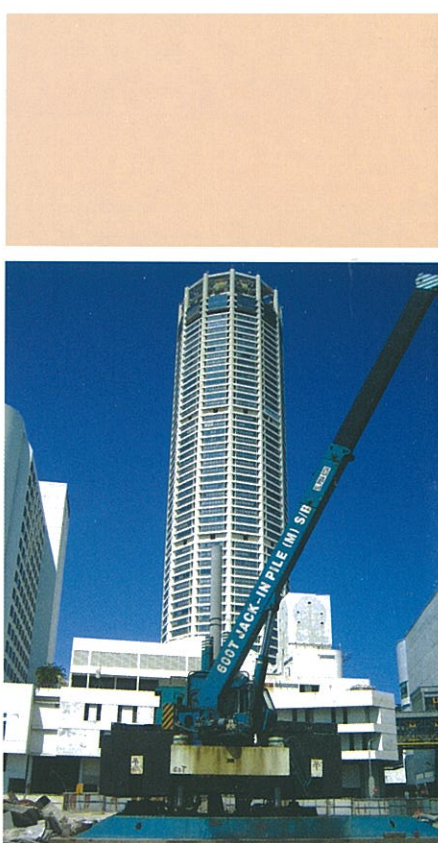...en Triangle (Penang)

Hatten City (Melaka)

Kuchai Highway (Kuala Lumpur)

Gasoil Project, Shell Refinerey (Port Dickson)

Komtar Penang

harf- BizWalk Puchong (Selangor)

Seal Bayan-Bayan City (Penang)

We provide environmental friendly and efficient piling as our machines are:

at Precint 11 Putrajaya

SILENT - piling without noise pollution

VIBRATION FREE - eliminates the risk of damage to adjacent buildings

VERSATILE - side-jacking allows for piling at confined areas

MULTI PURPOSE - the machine itself acts as kentledge for load test

SPEEDY - jacking speed of up to 5.6 metres per minute

PRACTICAL - on board crane allows for self hoisting of piles

MOBILE - generator attached to machine allows for mobility on site

EXPEDIENT - customized pile-cutter and CO2 welding provides speed & safety

JACK-IN PILE (M) SDN BHD

Hydraulic Jack-In Machines Technical Data

MODEL	YZY 250 T	YZY 380 T	YZY 600 T	YZY 800 T	YZY 1000 T
Maximum Jacking Force (kN)	2500	3800	6000	8000	10000
Applicable RC Square Pile (mm)	150, 175, 200, 230, 250, 300, 350	150, 175, 200, 230, 250, 300, 350, 400, 450		200, 230, 250, 300, 350, 400, 450	250, 300, 350, 400, 450, 500
Applicable Spun Pile (mm dia)	250, 300, 350, 400	250, 300, 350, 400, 450, 500, 600			250, 300, 350, 400, 450, 500, 600, 700, 800
Jacking Speed (m/min): Accelerated/Normal Speed	3.5/1.6	5.6/1.5	5.6/1.1	4.5/2.16	6.1/1.33
Single Stroke Distance (m)	1.7/1.6	1.8		2.0	2.5
Bearing Pressure (MPa) : Long Slipper	0.093	0.105	0.125	0.13	0.16
Bearing Pressure (MPa) : Short Slipper	0.118	0.107	0.126	0.17	0.21
Long Slipper Movement (m/min)	3.70	5.60	9.30	7.0	2.05
Short Slipper Movement (m/min)	3.70	2.80	2.33	4.1	2.23
Clearance For Piling (mm) from edge of: Long Slipper/Short Slipper/Side-Jack	3000 / 5000 / 1200	4000 / 6000 / 1500	5000 / 7500 / 1800	6000 / 8000 / 2000	5000 / 8000 / 2400
Swing Back Angle (°/swing)	12	15	12	10	12
Overall Output Power (kW)	76.8	96.0	122.0	150.0	225.0
Overall Dimension (m) Length x Width x Height	10.4 x 5.1 x 6.5	12.0 x 9.5 x 6.9	13.6 x 12.0 x 7.5	13.9 x 13.0 x 7.9	15.2 x 9.4 x 8.3
Machine Overall Self Height (Tons)	80	120	180	190	215

About Us

Jack-In Pile (M) Sdn Bhd was formed in 2006 to provide environmentally friendly and efficient piling system. We are specialize in hydraulic jack-in system which is practically free from noise, vibration and pollution.

Currently, we owned more than 30 units jack-in machine with various capacity ranging from 250T to 1000T and a team of professional and high qualification technical personnel to undertake piling project. We have completed more than 500 projects from the year of 2006.

We had achieved the ISO 9001:2008 certification in July, 2009 for Quality Management System and also registered with CIDB Malaysia as G7 contractor. In addition, we were awarded as the Malaysia's Top 100 Outstanding SMEs Golden Bull Awarded Year 2009 and 2010.
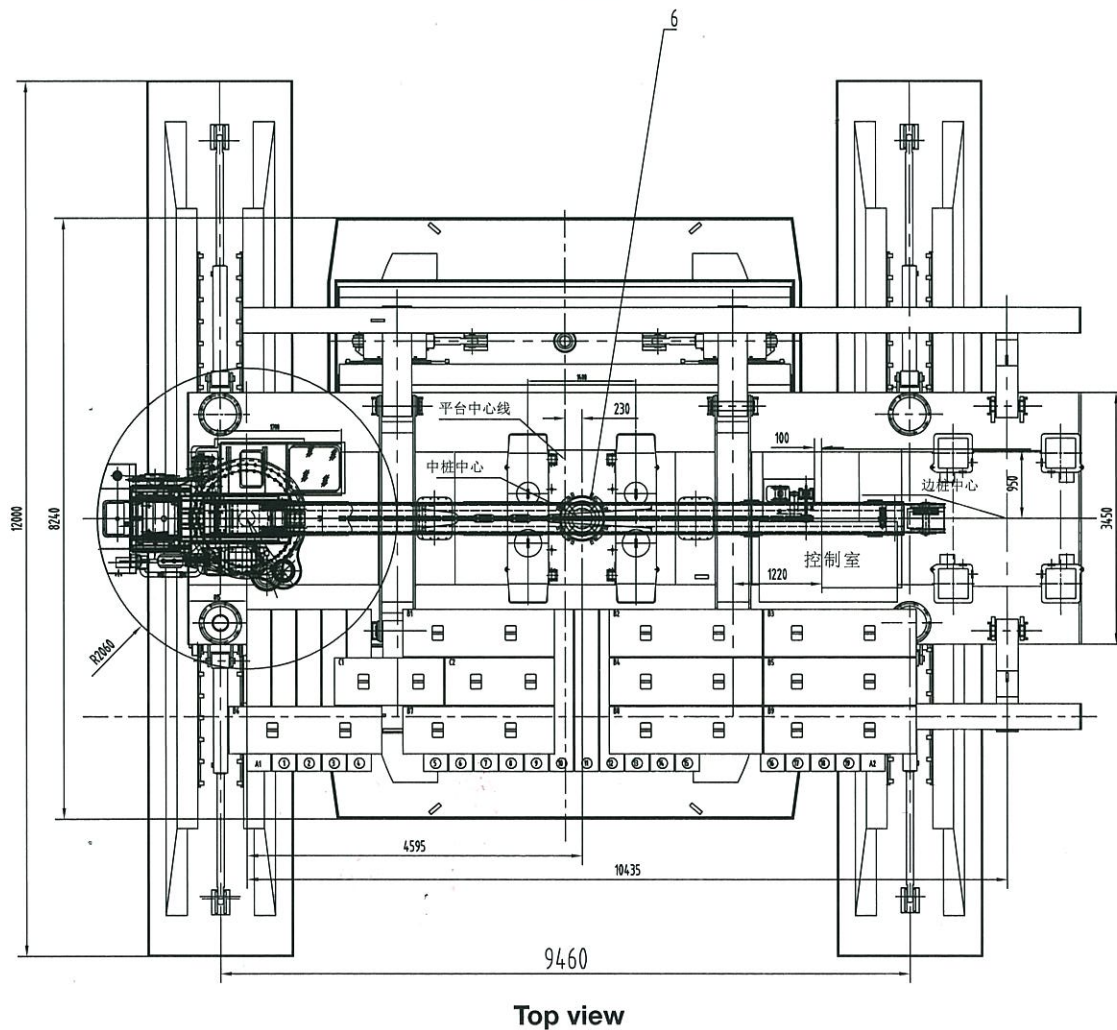
Objectives
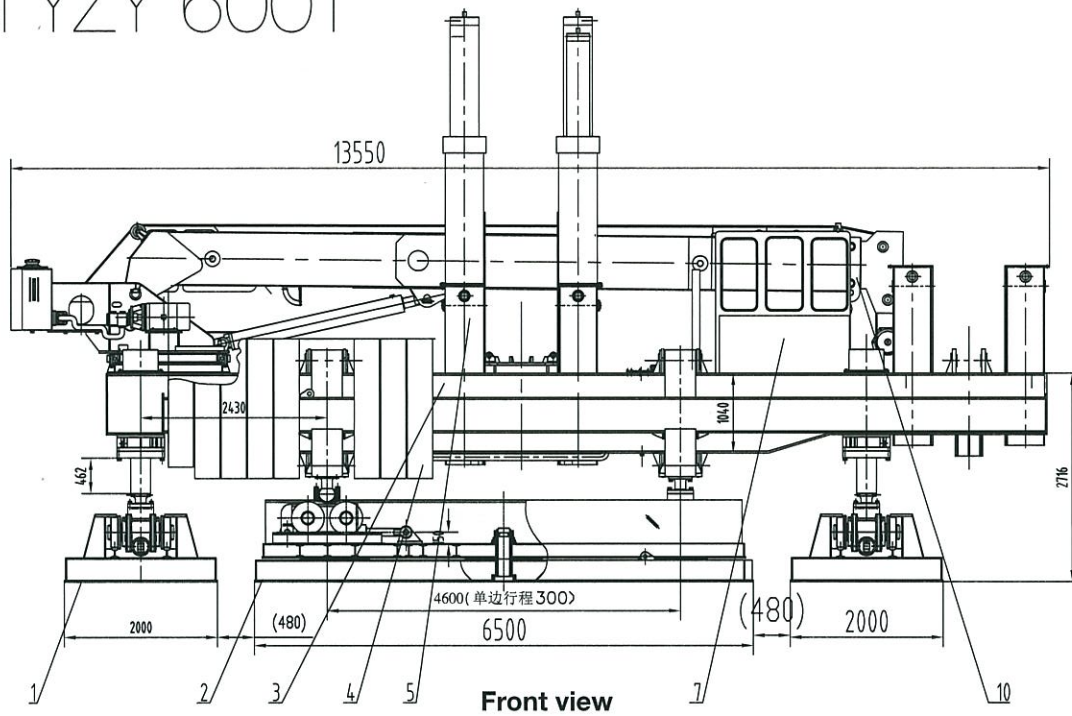
- **Total Customer Satisfaction**
- **Maximization Of Resource**
- **Minimization Of Wastage**
- **Completion On Schedule**
- **Continuous Quality Management**

With our dedicated workforce and our highly experienced management and technical support, we are well prepared to meet our objectives and the industry's requirements for innovative, costs effective and environmentally friendly piling.

Model YZY 600T

13550

2430

462

2000 (480) 4600(单边行程300) (480) 2000

6500

1040

2716

1 2 3 4 5 **Front view** 7 10

6

平台中心线 230

中桩中心 100

边桩中心

控制室

12000 8240 950

3450

R2060 1220

4595

10435

9460

Top view

Contents

METHOD OF STATEMENT FOR JACK-IN PILE:
PILING MACHINE MODEL : YZT 1000T, YZY 800T, YZY 600T, YZY380T, YZY250T

1.0 GENERAL

1.1 The purpose of this method of statement is to outline the method and construction procedures required to carry out Jack-In pile works, including material and equipment required for the installation of pile.

1.2 Details of the procedures contained herein may be reviewed periodically and modified based on actual requirement.

1.3 The pile to be installed will be of a specified size by jacking in through overlaying soil to the bedrock strata.

2.0 PLATFORM & CLEARANCE REQUIREMENTS

2.1 Proper access and egress to site shall be provided by employer/client.

2.2 Underground utility cable/pipe/drain on the site, if any, shall be re-positioned.

2.3 Piling works shall only commence upon satisfaction of the platform and clearance requirements.

2.4 Normal / center jack-in works shall require for minimum clearance from the edge of site boundry, wall and/or slope to the piling points as below:-

| Model	YZY1000 T	YZY800 T	YZY600 T	YZY380 T	YZY250 T
Clearance required	5000mm	6000mm	5000mm	4000mm	3000mm

2.5 Side jack-in works, if require, shall require for minimum clearance from the edge of site boundry, wall and/or slope to the piling point as below:-

Please note that maximum jacking force (kN) achievable for side-jacking of piles is 45% of the normally applicable maximum jacking force in accordance with the respective model(s) of the piling machine(s)

Model	YZY1000 T	YZY800 T	YZY600 T	YZY380 T	YZY250 T
Clearance required	2400mm	2000mm	1800mm	1500mm	1200mm

3.0 SURVEY WORKS

3.1 The Survey Control Points, typically the building / block corner pegs are determined by the employer / client's licensed surveyor. The location of these points shall be sited at a place unlikely to be disturbed and are clearly marked using timber pegs with nail head to indicate the precise position of control point.

3.2 Setting Out Pile Positions would be where every pile position is pre-surveyed by the land surveyor with reference to the grid lines. The pile position will be pegged using a mild steel bar.
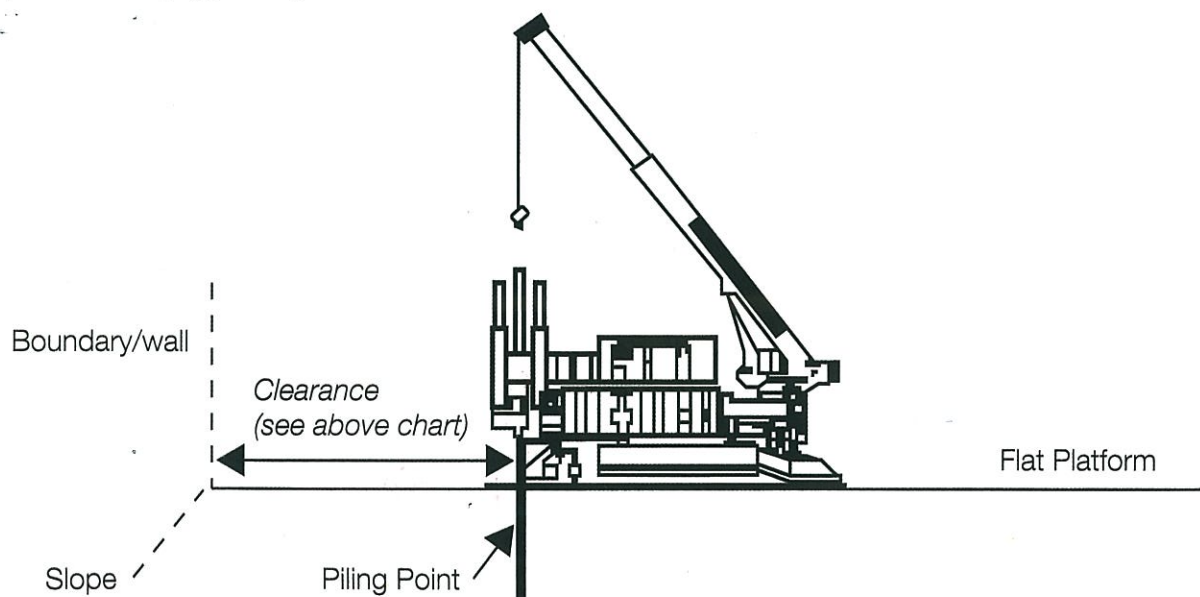
4.0 SAFETY PROCEDURE FOR PILING OPERATOR

4.1 Jack-In machines and cranes will be operated by trained and authorized operator. In the event of operating by a trainee it will be under the guidance and instruction of a trained and authorized operator.

4.2 Before operation, ensure that the machines is correcly maintained. Report all defects immediately.

4.3 Check all hydraulic jacks, wire ropes for wear at frequent intervals.

4.4 Before operation, check all rig motions. Ensure machine is on firm and level ground.

4.5 Before hosting, ensure that the pile is being lifted at the lifting hooks.

4.6 Work only with an authorized signal man and operate to his signals. Do not react to the signals from unauthorized persons, except in an emergency.

4.7 Check for obstructions and men in the vicinity of the rig before hoisting & pitching.

4.8 Before unloading from and loading to any vehicles, ensure the driver is out of the cab unless this has special protection. Also make sure that the driver of vehicles is in full view of machine operator before the load is lifted.

4.9 Prior to establishment of plant, ensure that there are no overhead obstructions and that the working surface and access are suitable for operation of our machine.

5.0 TYPE OF PILE

5.1 The applicable range and length of pile for the following piling machines are:-

| Model	YZY1000 T	YZY800 T	YZY600 T	YZY380 T	YZY250 T
Spun pile (mm diameter)	250, 300, 350, 400, 450, 500, 600, 700, 800	250, 300, 350, 400, 450, 500, 600			250, 300, 350, 400
RC square pile (mm)	250, 300, 350, 400, 450, 500	250, 300, 350, 400, 450	150, 175, 200, 230, 250, 300, 350, 400, 450		150, 175, 200, 230, 250, 300, 350

6.0 PREPARATION FOR PITCHING PILE

6.1 Piles should be stored on site within the operating radius of the Jack-In machine.

6.2 Before commencing Jack-In operations it shall be ensured that:-

    6.2.1 A pile layout drawing and specification relating to the Contract are available.

    6.2.2 The Client has been made aware of our intention to commence piling.

6.3 The Jack-In machine shall be established at the pile position.

6.4 The pile peg shall be offset by marking two pegs which are perpendicular to each other for checking the position of pile after pitching.

6.5 Hoisting and pitching of pile for the following piling machines are by way of:-

    (i) The norminated pile segment shall be drawn towards the machine using the on-board crane;

    (ii) The pile shall then be lifted by the on-board crane to facilitate the pile head to locate in the pileposition.

6.6 The correct vertically of the pile position relative to the reference pins shall be checked. Pilled inclination is checked using a spirit level.

7.0 JACKING PILE

7.1 The jacking method for the following piling machines are:-
YZT 1000T, YZY 800T, YZY 600T, YZY 380T & YZY 250T

    (i) Insert pile into the Jack-In system clamp by using the on-board crane;

    (ii) Clamped the pile and detach the crane cable;

    (iii) Final vertical check and positioning by moving in the X and Y direction;

    (iv) Commence jacking pile by applying jacking force onto the clamp device to press down the pile.

7.2 If pile jointing is necessary then the pile will be joined in accordance to conventioned method or by way of MIG / CO_2 welding.

7.3 When the jacking pile reaches certain depth and refuses penetration at the desired corresponding pressure, the pile may have set. If required, dolly may be used to jack-in excess pile length to below ground level.

7.4 The recommended jacking force for "Set" is taken as 2.2 times the pile working load and is maintained for 30 seconds with residual settlement not more than 5mm.

SAMPLE OF SET
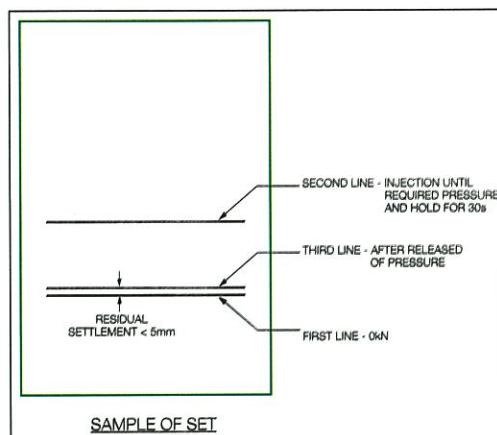
7.5 Once 'set' the extruding length of the pile shall either crushed by usage of a dolly and/or cut off by usage of a diamond cutter to facilitate movement of the machine.

8.0 RECORDING

8.1 Recording shall be done by machine operator. The recording sheet shall be approved by the S.O.

8.2 On completion of the pile installation, all necessary information shall be recorded in other pile record sheet can be completed. If the pile has not been driven as expected, has been obstructed or does not conform to the specification, this shall be recorded in the remark column.

METHOD OF STATEMENT FOR MAINTAINED LOAD TEST BY USING JACK-IN MACHINE AS KENTLEDGE

1.0 LOAD TEST EQUIPMENT

1.1 Jack-In machine (see below drawing), steel counterweight and steel beam sections makes up the whole static load test system in which the independent hydraulic jack impose vertical force on the test pile.
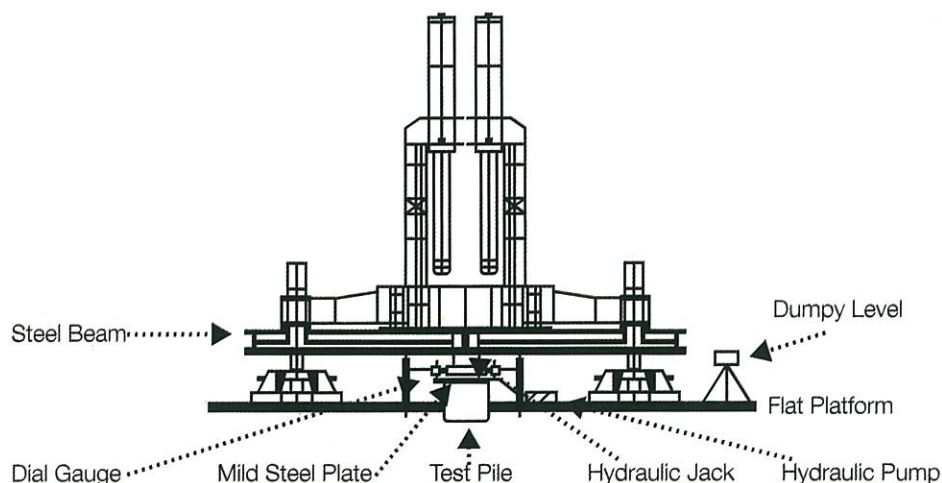
2.0 METHOD OF TESTING AND LOADING

2.1 Prior to testing, load test equipment shuold be completely setting out on firm ground.

2.2 The hydraulic jack shall be placed directly on top of the centroid of a mild steel plate which rest directly on top of the pile.

2.3 The loading cycle, loading increment and the holding time are all subject to final confirmation from the Engineer.

2.4 Pressure conversion table, calibration certification for pressure gauge and dial gauge shall be submitted to Engineer for approval.

2.5 Movement of the pile head shall be measured by 4 dial gauges. The dial gauges shall have a travel of 50 mm and graduated on 0.01 mm per division.

2.6 Jack-in is also a piling system whereby every pile point is self tested during installation. The interpretation of result shall subject to Engineer confirmation.

CALCULATION OF SETTING PRESSURE FOR :-
MODEL YZY-1000T HYDRAULIC PILE JACKING MACHINE

Formula : $Q = A \times P \times n / 1000$

Where,
Q = Jacking Force (tons)
A = Effective cylinder surface area (cm²) $\pi D^2/4$
D = Diameter of hydraulic cylinder (cm)
P = Hydraulic Pressure Mpa (1 Mpa = 10.2 kg/cm²)
n = Nos. of hydraulic cylinder

Hydraulic Pressure (Mpa)	Jacking Force (tons)			Hydraulic Pressure (Mpa)	Jacking Force (tons)		
	2 nos x 320mm Dia. Cylinder	2 nos x 380mm Dia. Cylinder	Combine 4 nos - 320 & 380mm Dia. Cylinder		2 nos x 320mm Dia. Cylinder	2 nos x 380mm Dia. Cylinder	Combine 4 nos - 320 & 380mm Dia. Cylinder
1.0	16.41	23.14	39.55	13.5	221.52	312.38	533.89
1.5	24.61	34.71	59.32	14.0	229.72	323.95	553.67
2.0	32.82	46.28	79.10	14.5	237.93	335.51	573.44
2.5	41.02	57.85	98.87	15.0	246.13	347.08	593.22
3.0	49.23	69.42	118.64	15.5	254.34	358.65	612.99
3.5	57.43	80.99	138.42	16.0	262.54	370.22	632.76
4.0	65.64	92.56	158.19	16.5	270.74	381.79	652.54
4.5	73.84	104.13	177.96	17.0	278.95	393.36	672.31
5.0	82.04	115.69	197.74	17.5	287.15	404.93	692.09
5.5	90.25	127.26	217.51	18.0	295.36	416.50	711.86
6.0	98.45	138.83	237.29	18.5	303.56	428.07	731.63
6.5	106.66	150.40	257.06	19.0	311.77	439.64	751.41
7.0	114.86	161.97	276.83	19.5	319.97	451.21	771.18
7.5	123.07	173.54	296.61	20.0	328.18	462.78	790.95
8.0	131.27	185.11	316.38	21.0	344.58	485.92	830.50
8.5	139.47	196.68	336.16	22.0	360.99	509.06	870.05
9.0	147.68	208.25	355.93	23.0	377.40	532.20	909.60
9.5	155.88	219.82	375.70	24.0	393.81	555.33	949.15
10.0	164.09	231.39	395.48	24.5	402.02	566.90	968.92
10.5	172.29	242.96	415.25	25.0	410.22	578.47	988.69
11.0	180.50	254.53	435.02	25.5	418.42	590.04	1008.47
11.5	188.70	266.10	454.80	26.0	426.63	601.61	1028.24
12.0	196.91	277.67	474.57	26.5	434.83	613.18	1048.01
12.5	205.11	289.24	494.35	27.0	443.04	624.75	1067.79
13.0	213.31	300.81	514.12	27.5	451.24	636.32	1087.56

JACK-IN PILE (M) SDN BHD

CALCULATION OF SETTING PRESSURE FOR :-
MODEL YZY-800T HYDRAULIC PILE JACKING MACHINE

Formula : $Q = A \times P \times n / 1000$

Where,
- Q = Jacking Force (tons)
- A = Effective cylinder surface area (cm²) $\pi D^2/4$
- D = Diameter of hydraulic cylinder (cm)
- P = Hydraulic Pressure Mpa (1 Mpa = 10.2 kg/cm²)
- n = Nos. of hydraulic cylinder

Hydraulic Pressure (Mpa)	Jacking Force (tons)			Hydraulic Pressure (Mpa)	Jacking Force (tons)		
	2 nos x 300mm Dia. Cylinder	2 nos x 320mm Dia. Cylinder	Combine 4 nos - 300 & 320mm Dia. Cylinder		2 nos x 300mm Dia. Cylinder	2 nos x 320mm Dia. Cylinder	Combine 4 nos - 300 & 320mm Dia. Cylinder
1.0	14.42	16.41	30.83	12.5	180.27	205.11	385.38
1.5	21.63	24.61	46.25	13.0	187.48	213.31	400.80
2.0	28.84	32.82	61.66	13.5	194.69	221.52	416.21
2.5	36.05	41.02	77.08	14.0	201.90	229.71	431.63
3.0	43.27	49.23	92.49	14.5	209.12	237.93	447.04
3.5	50.48	57.43	107.91	15.0	216.33	246.13	462.46
4.0	57.69	65.64	123.32	15.5	223.54	254.34	477.87
4.5	64.90	73.84	138.74	16.0	230.75	262.54	493.29
5.0	72.11	82.04	154.15	16.5	237.96	270.74	508.70
5.5	79.32	90.25	169.57	17.0	245.17	278.95	524.12
6.0	86.53	98.45	184.98	17.5	252.38	287.15	539.53
6.5	93.74	106.66	200.40	18.0	259.59	295.36	554.95
7.0	100.95	114.86	215.81	18.5	266.80	303.56	570.37
7.5	108.16	123.07	231.23	19.0	274.01	311.77	585.78
8.0	115.37	131.27	246.64	19.5	281.22	319.97	601.20
8.5	122.59	139.47	262.06	20.0	288.44	328.18	616.61
9.0	129.80	147.68	277.48	21.0	302.86	344.58	647.44
9.5	137.01	155.88	292.89	22.0	317.28	360.99	678.27
10.0	144.22	164.09	308.31	23.0	331.70	377.40	709.10
10.5	151.43	172.29	323.72	24.0	346.12	393.81	739.93
11.0	158.64	180.50	339.14	24.5	353.33	402.02	755.35
11.5	165.85	188.70	354.55	25.0	360.54	410.22	770.76
12.0	173.06	196.91	369.97	26.0	374.97	426.63	801.59

CALCULATION OF SETTING PRESSURE FOR :-
MODEL YZY-600T HYDRAULIC PILE JACKING MACHINE

Formula : $Q = A \times P \times n /1000$

Where,   Q = Jacking Force (tons)

A = Effective cylinder surface area (cm²) $\pi D^2/4$

D = Diameter of hydraulic cylinder (cm)

P = Hydraulic Pressure Mpa (1 Mpa = 10.2 kg/cm²)

n = Nos. of hydraulic cylinder

Hydraulic Pressure (Mpa)	Jacking Force (tons)			Hydraulic Pressure (Mpa)	Jacking Force (tons)		
	2 nos x 250mm Dia. Cylinder	2 nos x 320mm Dia. Cylinder	Combine 2 nos x 250mm & 2 nos x 320mm Dia. Cylinder		2 nos x 250mm Dia. Cylinder	2 nos x 320mm Dia. Cylinder	Combine 2 nos x 250mm & 2 nos x 320mm Dia. Cylinder
1.0	10.02	16.41	26.42	12.5	125.19	205.11	330.30
1.5	15.02	24.61	39.64	13.0	130.20	213.31	343.51
2.0	20.03	32.82	52.85	13.5	135.20	221.52	356.72
2.5	25.04	41.02	66.06	14.0	140.21	229.72	369.93
3.0	30.05	49.23	79.27	14.5	145.22	237.93	383.15
3.5	35.05	57.43	92.48	15.0	150.23	246.13	396.36
4.0	40.06	65.64	105.70	15.5	155.23	254.34	409.57
4.5	45.07	73.84	118.91	16.0	160.24	262.54	422.78
5.0	50.08	82.04	132.12	16.5	165.25	270.74	435.99
5.5	55.08	90.25	145.33	17.0	170.26	278.95	449.21
6.0	60.09	98.45	158.54	17.5	175.26	287.15	462.42
6.5	65.10	106.66	171.76	18.0	180.27	295.36	475.63
7.0	70.11	114.86	184.97	18.5	185.28	303.56	488.84
7.5	75.11	123.07	198.18	19.0	190.29	311.77	502.05
8.0	80.12	131.27	211.39	19.5	195.29	319.97	515.27
8.5	85.13	139.47	224.60	20.0	200.30	328.18	528.48
9.0	90.14	147.68	237.82	20.5	205.31	336.38	541.69
9.5	95.14	155.88	251.03	21.0	210.32	344.58	554.90
10.0	100.15	164.09	264.24	21.5	215.33	352.79	568.11
10.5	105.16	172.29	277.45	22.0	220.33	360.99	581.33
11.0	110.17	180.50	290.66	22.5	225.34	369.20	594.54
11.5	115.17	188.70	303.87	23.0	230.35	377.40	607.75
12.0	120.18	196.91	317.09				

CALCULATION OF SETTING PRESSURE FOR :-
MODEL YZY-380T HYDRAULIC PILE JACKING MACHINE

Formula : $Q = A \times P \times n /1000$

Where, Q = Jacking Force (tons)

A = Effective cylinder surface area (cm²) $\pi D^2/4$

D = Diameter of hydraulic cylinder (cm)

P = Hydraulic Pressure Mpa (1 Mpa = 10.2 kg/cm²)

n = Nos. of hydraulic cylinder

Hydraulic Pressure (Mpa)	Jacking Force (tons)			Hydraulic Pressure (Mpa)	Jacking Force (tons)		
	2 nos x 220mm Dia. Cylinder	2 nos x 220mm Dia. Cylinder	Combine 4 nos x 220mm Dia. Cylinder		2 nos x 220mm Dia. Cylinder	2 nos x 220mm Dia. Cylinder	Combine 4 nos x 220mm Dia. Cylinder
1.0	7.76	7.76	15.51	13.0	100.82	100.82	201.65
1.5	11.63	11.63	23.27	13.5	104.70	104.70	209.40
2.0	15.51	15.51	31.02	14.0	108.58	108.58	217.16
2.5	19.39	19.39	38.78	14.5	112.46	112.46	224.92
3.0	23.27	23.27	46.53	15.0	116.34	116.34	232.67
3.5	27.14	27.14	54.29	15.5	120.21	120.21	240.43
4.0	31.02	31.02	62.05	16.0	124.09	124.09	248.18
4.5	34.90	34.90	69.80	16.5	127.97	127.97	255.94
5.0	38.78	38.78	77.56	17.0	131.85	131.85	263.69
5.5	42.66	42.66	85.31	17.5	135.72	135.72	271.45
6.0	46.53	46.53	93.07	18.0	139.60	139.60	279.21
6.5	50.41	50.41	100.82	18.5	143.48	143.48	286.96
7.0	54.29	54.29	108.58	19.0	147.36	147.36	294.72
7.5	58.17	58.17	116.34	19.5	151.24	151.24	302.47
8.0	62.05	62.05	124.09	20.0	155.11	155.11	310.23
8.5	65.92	65.92	131.85	20.5	158.99	158.99	317.98
9.0	69.80	69.80	139.60	21.0	162.87	162.87	325.74
9.5	73.68	73.68	147.36	21.5	166.75	166.75	333.50
10.0	77.56	77.56	155.11	22.0	170.63	170.63	341.25
10.5	81.43	81.43	162.87	22.5	174.50	174.50	349.01
11.0	85.31	85.31	170.63	23.0	178.38	178.38	356.76
11.5	89.19	89.19	178.38	23.5	182.26	182.26	364.52
12.0	93.07	93.07	186.14	24.0	186.14	186.14	372.27
12.5	96.95	96.95	193.89	24.5	190.01	190.01	380.03

CALCULATION OF SETTING PRESSURE FOR :-
MODEL YZY-250T HYDRAULIC PILE JACKING MACHINE

Formula : $Q = A \times P \times n / 1000$

Where, Q = Jacking Force (tons)

A = Effective cylinder surface area (cm²) $\pi D^2/4$

D = Diameter of hydraulic cylinder (cm)

P = Hydraulic Pressure Mpa (1 Mpa = 10.2 kg/cm²)

n = Nos. of hydraulic cylinder

Hydraulic Pressure (Mpa)	Jacking Force (tons)			Hydraulic Pressure (Mpa)	Jacking Force (tons)		
	2 nos x 180mm Dia. Cylinder	2 nos x 180mm Dia. Cylinder	Combine 4 nos x 180mm Dia. Cylinder		2 nos x 180mm Dia. Cylinder	2 nos x 180mm Dia. Cylinder	Combine 4 nos x 180mm Dia. Cylinder
1.0	5.19	5.19	10.38	13.0	67.49	67.49	134.99
1.5	7.79	7.79	15.58	13.5	70.09	70.09	140.18
2.0	10.38	10.38	20.77	14.0	72.69	72.69	145.37
2.5	12.98	12.98	25.96	14.5	75.28	75.28	150.56
3.0	15.58	15.58	31.15	15.0	77.88	77.88	155.76
3.5	18.17	18.17	36.34	15.5	80.47	80.47	160.95
4.0	20.77	20.77	41.53	16.0	83.07	83.07	166.14
4.5	23.36	23.36	46.73	16.5	85.67	85.67	171.33
5.0	25.96	25.96	51.92	17.0	88.26	88.26	176.52
5.5	28.56	28.56	57.11	17.5	90.86	90.86	181.71
6.0	31.15	31.15	62.30	18.0	93.45	93.45	186.91
6.5	33.75	33.75	67.49	18.5	96.05	96.05	192.10
7.0	36.34	36.34	72.69	19.0	98.64	98.64	197.29
7.5	38.94	38.94	77.88	19.5	101.24	101.24	202.48
8.0	41.53	41.53	83.07	20.0	103.84	103.84	207.67
8.5	44.13	44.13	88.26	20.5	106.43	106.43	212.87
9.0	46.73	46.73	93.45	21.0	109.03	109.03	218.06
9.5	49.32	49.32	98.64	21.5	111.62	111.62	223.25
10.0	51.92	51.92	103.84	22.0	114.22	114.22	228.44
10.5	54.51	54.51	109.03	22.5	116.82	116.82	233.63
11.0	57.11	57.11	114.22	23.0	119.41	119.41	238.82
11.5	59.71	59.71	119.41	23.5	122.01	122.01	244.02
12.0	62.30	62.30	124.60	24.0	124.60	124.60	249.21
12.5	64.90	64.90	129.80	24.5	127.20	127.20	254.40

JACK-IN PILE (M) SDN BHD

捷進地基（馬）有限公司

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