

HEAVY EQUIPMENT PRODUCT SPECIFICATION

EARTH WORKS, CONCRETE WORK, LIFTING,
LAUNCHER GANTRY & FORM TRAVELER, BORRING & TUNNER

EARTH WORKS

EXCAVATOR

CAPACITY 20 TON	
TIPE PC200-8	
Capacity	0.93 M3
Dimensions (P x l x t)	9480 mm x 2800 mm x 3040
Power Installed	110 KW/148 HP/ 2000 RPM
TIPE SH210-6	
Capacity	0,8 m3
Dimensions (P x l x t)	9460 mm x 2800 mm x 3200 mm
Power Installed	117.3KW/1800MIN-1
TIPE SK200-10	
Capacity	0,8 m3 (Bucket STD)
Dimensions (P x l x t)	9600 mm x 2800 mm x 3030 mm
Power Installed	118 kW / 2000 Rpm
TIPE SH210A5	
Capacity	0.90 M3
Dimensions (P x l x t)	9400 mm x 2800 mm x 2970 mm
Power Installed	117.3KW/1800MIN-1
CAPACITY 30 TON	
TIPE PC300-8 MO	
Capacity	1,4 m3 (Bucket STD)
Dimensions (P x l x t)	11300 mm x 3190 mm x 3480 mm
Power Installed	187 kW / 250HP / 1950 RPM
TIPE SK330	
Capacity	1.4 M3
Dimensions (P x l x t)	11200mm x 3200 mm x 3160 mm
Power Installed	197/2100 Kw/MIN-1
TIPE SH350HD-5	
Capacity	1.6 m³ (Bukcet STD)
Dimensions (P x l x t)	11130 mm x 3200 mm x 3500 mm
Power Installed	202 kW 274 PS / 2000 min-1

DUMP TRUCK

CAPACITY 26 TON	
TIPE Giga FVZ 34P 6x4	
Capacity	26 Ton
Dimensions (P x l x t)	8365 mm x 2450 mm x 2860 mm
Power Installed	285 HP / 2400 Rpm
TIPE CWE 280PS MT 6X4	
Capacity	26 TON
Dimensions (P x l x t)	7375mm x 2500mm x 3348mm
Power Installed	280PS/2200 RPM
CAPACITY 10 TON	
TIPE FE SHDX 136 PS	
Capacity	10 Ton
Dimensions (P x l x t)	5910 mm x 1970 mm x 2120 mm
Power Installed	136 HP / 2900 Rpm

MOTOR GRADER

CAPACITY 26 TON	
TIPE MG330	
Capacity	3.71 m
Dimensions (P x l x t)	7820 mm x 2380 mm x 2800 mm
Power Installed	100.7kW / 135 HP / 2200Rpm

BULLDOZER

CAPACITY 16 TON	
TIPE D68ESS-12EO	
Capacity	3.0 m³ (Blade Capacity- Straight Tilt Dozer)
Dimensions (P x l x t)	5460 mm x 3150 mm x 3970 mm
Power Installed	116 kW (115 PS) / 1800 Rpm
TIPE D85E-SS-2A	
Capacity	4.4 m³ (Blade Capacity- Straight Tilt Dozer)
Dimensions (P x l x t)	5615 mm x 3620 mm x 3160 mm
Power Installed	149 kW 200 HP @ 1950 Rpm
TIPE CAT 1XD6RXL	
Capacity	5.61 m³ (Blade Capacity- Straight Tilt Dozer)
Dimensions (P x l x t)	6735 mm x 2640 mm x 3195 mm
Power Installed	145 kW 195 HP
TIPE D5RXL	
Capacity	3.18 M3 (Blade Capacity- Straight Tilt Dozer)
Dimensions (P x l x t)	4930 mm x 2490 mm x 3095 mm
Power Installed	129 kW 173 HP
TIPE D3K2	
Capacity	1.66 m³ (Blade Capacity- Straight Tilt Dozer)
Dimensions (P x l x t)	4266 mm x 3149 mm x 2763 mm
Power Installed	59.7 kW 173 HP

COMPACTOR

CAPACITY 10 TON	
TIPE 3410	
Capacity	10 Ton
Dimensions (P x l x t)	5695 mm x 2250 mm x 3020 mm
Power Installed	98.0 kW / 2300 Rpm
TIPE 311D	
Capacity	10 Ton (Roller-with/without Padfoot)
Dimensions (P x l x t)	5633 mm x 2262 mm x 3126 mm
Power Installed	73 kW, 2200 Rpm
TIPE BW 211D-40 10T-P	
Capacity	10 TON
Dimensions (P x l x t)	5840 mm x 2270 mm x 39572 mm
Power Installed	83.3kW / 111.7HP / 2100Rpm
TIPE SV 525DF	
Capacity	31.4 ton
Dimensions (P x l x t)	5840 mm x 2295 mm x 2945 mm
Power Installed	83.3kW / 111.7HP / 2100Rpm

CONCRETE WORK

BATCHING PLANT

TYPE : DKX 1.25
CAPACITY : 1.25 M3

DATA PROCESS

No	Data	Remarks	Value	Unit
1	Batch Volume	compacted concrete	1.25	m3
		dry charge	1.88	m3
2	Batch Weight	max.	3000	kg
3	Truck Mixer Discharge	mixing cycle per hour	55	-
		compact concrete	69	m3/h
4	Open truck discharge	mixing cycle per hour	55	-
		compact concrete	69	m3/h
5	Mixture	ready-mixed concrete, RRC, wet mortar	-	-
6	Aggregate Size	from to	0-80	mm

TECHNICAL DATA

No	Data	Remarks	Value	Unit
1	Mixer motor	number x drive power	1x55	-
2	Discharge Door Operation	kind	pneumatic	-
		number of cylinders	2	-
		number of selenoid valve	1	-
		number of limit switch	3	-
3	Machine Weight	-	4600	kg

MIXER TRUCK

CAPACITY 7M3

TYPE ISUZU / Giga FVZ 34P MX

Capacity	7 M ³
Dimensions (P x l x t)	8365 mm x 2450 mm x 2860 mm
Power Installed	285 HP / 2400 Rpm

BATCHING PLANT

TYPE : MEO 1500/1000 SDYH
CAPACITY : 1.25 M3

DATA PROCESS

No	Data	Remarks	Value	Unit
1	Batch Volume	compacted concrete	1	m3
		dry charge	1.5	m3
2	Batch Weight	max.	2000	kg
3	Truck Mixer Discharge	mixing cycle per hour	40	-
		compact concrete	60	m3/h
4	Open truck discharge	mixing cycle per hour	40	-
		compact concrete	60	m3/h
5	Mixture	ready-mixed concrete, RRC, wet mortar	-	-
6	Aggregate Size	volume	3.5	m3

TECHNICAL DATA

No	Data	Remarks	Value	Unit
1	Mixer motor	number x drive power	2x22	kW
2	Discharge Door Operation	kind	pneumatic	-
3	Total Power	-	89.09	kW

CONCRETE PUMP

CAPACITY 37m Boom

TYPE CITIPUMP CT37R4U

Capacity	70/120 M3/H V36.8M H32.8M
Dimensions (P x l x t)	8365 mm x 2450 mm x 2860 mm
Power Installed	285 HP / 2400 Rpm

CAPACITY 32m Boom

TYPE ECP32.13RS

Capacity	140 M3/H 70 BAR
Dimensions (P x l x t)	-
Power Installed	336HP/2200 RPM

SLIPFORM PAVER

CAPACITY 40cm

TYPE SP500 inc DBI

Capacity	5,95 M/ 40cmv
Dimensions (P x l x t)	9500 mm x 2500 mm x 3100
Power Installed	129.4 kW / 173.5 HP / 176 PS

TYPE SP 64 - icl DBI

Capacity	Up to 6 m / 40cm
Dimensions (P x l x t)	11500 mm x 3000 mm x 3100 mm
Power Installed	155 kW / 211 PS / 208 HP



LAUNCHER GANTRY

CAPACITY 150 TON - 50M	
Launcher Type I Beam	
Dimensional Characteristic	
Main girder height	3.700 mm
Main girder width	5.200 mm
Main girder length	113.320 mm
Capacity	150 t
Capacity of lifting winch	N02 ; 75 t each
Max weight of concrete beam	150 t
Sliding capstan speed	1.0 m/min (20 Hz)
	2.0 m/min (30 Hz)
	4.0 m/min (50 Hz)
Translation under roller speed	3.0 m/min
Lifting winch speed	2.1 m/min
Power generator	120 kW ≈ 150 KVA
Self launching max	50 m
Distance of lifting points	48 m
Longitudinal slope (max)	6%
Functional Characteristic	
Self launching stage wind speed	45 km/h
Working stage wind speed	72 km/h
Out of service wind speed	126 km/h

CRAWLER CRANE

CAPACITY 55 Ton	
TYPE QUY55	
Capacity	55 Ton Max Boom Length 33 m
Dimensions (P x l x t)	7015 mm x 3610 mm x 3400 mm (In Transport Configuration)
Power Installed	187 HP
TYPE FWX55	
Capacity	55 Ton Boom Length 13-52 m
Dimensions (P x l x t)	5760 mm x 4520 mm x 3060 mm
Power Installed	142 kW / 2000 Rpm
CAPACITY 80 Ton	
TYPE ZCC800H	
Capacity	80 Ton Max Boom Length 33.8 m
Dimensions (P x l x t)	6330 mm x 5000 mm x 3200 mm
Power Installed	199 kW / 2000 Rpm

MOBILE CRANE

CAPACITY 55 Ton	
TYPE QY25V	
Capacity	25 TON Boom Length 10.3-58.5 m
Dimensions (P x l x t)	12510 mm x 2500 mm x 3455 mm
Power Installed	199KW/2200R/MIN

LOADER CRANE

CAPACITY 55 Ton	
TYPE QY25V	
Capacity	8 TON
Dimensions (P x l x t)	12510 mm x 2500 mm x 3455 mm
Power Installed	199KW/2200R/MIN

LAUNCHER GANTRY & FORM TRAVELER

No	Name & Type	Weight	Max Loading Capacity	Winch SWL	Max Length	Min. Curve Radius	Deflection	Remarks
1	LG Span by Span 1000/50	500 ton	1000 ton	50 ton	50 m	200 m	8,0 cm (1000 ton/50 m)	Can be expanded into the LG Balanced Cantilever
2	LG Span by Span 650/43	180 ton (main-truss)	650 ton	50 ton	43 m	600 m	8,0 cm (650 ton/43 m)	Can be expanded into LG Span by Span 500 ton/50 meter dan LG Balanced Cantilever
		15 ton (winch)						
		18 ton (each LCB Rail)						
3	LG Span by Span 800/50	300 ton (main-truss)	800 ton	50 ton	50 m	200 m	13,5 cm (800 ton/50 m)	Can be expanded into LG Span by Span 830 ton/45 meter dan LG Balanced Cantilever
		25 ton (winch)					10,5 cm (830 ton/45 m)	
		18 ton (each LCB Rail)					-	
4	LG Beam 150/50	135 ton (main-truss)	150 ton	2 x 75 ton	50 m	30 °	8,0 cm (static)	Can be expanded into LG Beam bentang 60 meter/100 ton dan LG Balanced Cantilever
		25 ton (winch)						
5	Form Traveler	+ 72 ton	100 ton (segment box)	-	4,5 m	-	1.66 cm (max capacity)	-

BORRING & TUNNELING

KAPASITAS 50T- 55m / CAPACITY 50T- 55m	
TIPE SR40 / TYPE SR40	
Capacity	50T-d 1500mm-55m
Dimensions (P x l x t)	12733 mm x 2930 mm x 3250 mm (In Transport Configuration)
Power Installed	250 HP (187 kW) @ 1800 Rpm
Operating Weight c/w 4x10.5 kelly bar	50700 kg
Max Pile Diameter	1500 mm
Max Pile Depth-friction kelly	61 m
Max Pile Depth-locking kelly	49 m
Extraction Force	520 kN
Crowd Force on Auger	90 kN

KAPASITAS 60T-66m / CAPACITY 60T-66m	
TIPE SR60 / TYPE SR60	
Capacity	60T-d 1800mm-66m
Dimensions (P x l x t)	14480 mm x 3000 mm x 3325 mm (In Transport Configuration)
Power Installed	350 HP (261 kW) @ 1800 Rpm
Operating Weight c/w 4x10.5 kelly bar	66300 kg
Max Pile Diameter	1800 mm
Max Pile Depth-friction kelly	71 m
Max Pile Depth-locking kelly	58.5 m
Extraction Force	560 kN
Crowd Force on Auger	90 kN

KAPASITAS 94T-77m / CAPACITY 94T-77m	
TIPE SR80 / TYPE SR80	
Capacity	94T-d 2500mm-77m
Dimensions (P x l x t)	14520 mm x 3050 mm x 3593 mm (In Transport Configuration)
Power Installed	439 HP (327 kW) @ 1800 rpm
Operating Weight c/w 4x10.5 kelly bar	79300 kg
Max Pile Diameter	2500 mm
Max Pile Depth-friction kelly	92.4 m
Max Pile Depth-locking kelly	73.4 m
Extraction Force	800 kN
Crowd Force on Auger	90 kN

Spesification Product Lenght 4300 mm (Product Specification Length 4300 mm)

1. TUNNELING MACHINE

a. Tunneling machine main body (Including short pipe)

Outer Diameter (mm)	Length (mm)	Thickness (mm)	Wall thicknes of short pipe (mm)
4070	430 (From cutter face plate to short pipe)	40	32

b. Direction correcting jackpipe)

Thrust (kN)	Stroke (mm)	Regular pressure (MPa)	Number of jack
2500	100	35	6

2. CUTTER HEAD

Cutter	Excavation outer diameter (mm)	4110
	Electric driving motor capacity	30kWx6unit=180kW
	Rotational speed (rpm)	0.7 (Regular) 2.0 (High speed)
	Torque (kN-m)	1475 (Regular) 859 (High speed)
	Rated current	58Ax6 unit Total 348A
Electric driving motor	Name	Electric motor with planetary gear speed reducer
	Type	completely closed fan: E type
	Capacity	30kWx4Px380
	Output shaft torque (kN-m)	49.7 (Regular)/28.9 (High speed)
Decelerator	Output shaft rotational speed (r.p.m.)	5.88 (Regular)/9.89 (High speed)
	Mechanism	Single step deceleration
	Deceleration ratio	1/4.95
Power source	Lubricating method	Grease dripping method
		AC 50/3φ 380V

Spesification Product Lenght 3385 mm (Product Specification Length 3385 mm)

1. DIMENSIONS

Outer Diameter (mm)	Machine Lenth (mm)	Length (mm)
4070	5020	3385

2. MASS

Total Mass (Kg)	Basic Machine Mass (Kg)	Operatio Track Mass (Kg)	Maksimum Mass of Unit (Kg)
81000	76000	5000	76000

3. PERFORMANCE

Shield Outer Diameter	Effective Thrust Direction Correcting Jack	Installation Tarque Rating (50/60Hz)
4070 mm	10080 kn	1226/1021 kn-m

4. BODY

Skin Plate Outer Diameter	Shinled Body Length	Skin Plate Thickness Hood Part	Skin Plate Thickness Ring Garter	Skin Plate Thickness Pressur Ization Ring	Hume Pipe Insertion Part Inner Diameter	Hume Pipe Insertion Part Depth	Number of Partitions
4070 mm	782 mm	32 mm	32 mm	32 mm	4031	200	12