

LAMPIRAN

Lampiran 1. Spesifikasi *Crawler Crane*

■ Main Specifications (Model: CKE1800-1F)

Heavy Duty Crane Boom		Power Plant	
Max. Lifting Capacity	180 t/3.75 m	Model	Hino P11C-UN
Max. Length	12.2 m	Engine Output	247 kW/2,000 min ⁻¹ [rpm]
Crane Boom		Fuel Tank Capacity	
Max. Lifting Capacity	160 t/4.4 m	400 liters	
Max. Length	85.3 m		
Luffing Boom		Main & Aux. Winch	
Max. Lifting Capacity	110 t/5.2 m	Max. Line Speed	100 m/min (1st layer)
Max. Length	54.9 m	Rated Line Pull (Single line)	132 kN (13.5 t)
Long Boom		Wire Rope Diameter	25 mm
Max. Lifting Capacity	40.1 t/12.0 m	Wire Rope Length	430 m (main), 335 m (aux.)
Max. Length	85.3 m	Brake Type	Spring set hydraulically released (Negative)
Fixed Jib		Free Fall Brake Type	Wet-type multiple disc brake (Optional)
Max. Lifting Capacity	26.8 t/15.2 m	Hydraulic System	
Max. Length	30.5 m	Pumps	4 variable displacement
Max. Combination	73.2 m + 30.5 m	Max. Pressure	31.9 MPa (325 kgf/cm ²)
Luffing Jib		Hydraulic Tank Capacity	550 liters
Max. Lifting Capacity	48.6 t/9.14 m	Self Erection Device	
Jib Length	21.3 m ~ 51.8 m	Standard	
Max. Combination	54.9 m + 51.8 m	Weight	
Luffing Angle	60°~ 88°	Operating Weight*	Approx. 164 t
Working Speed		Ground Pressure*	103 kPa (1.06 kgf/cm ²)
Swing Speed	2.6 min ⁻¹ [rpm]	Counterweight	60.0 t (upper), 20.0 t (lower)
Travel Speed	1.1/0.7 km/h	Transportation Weight**	Approx. 44.0 t

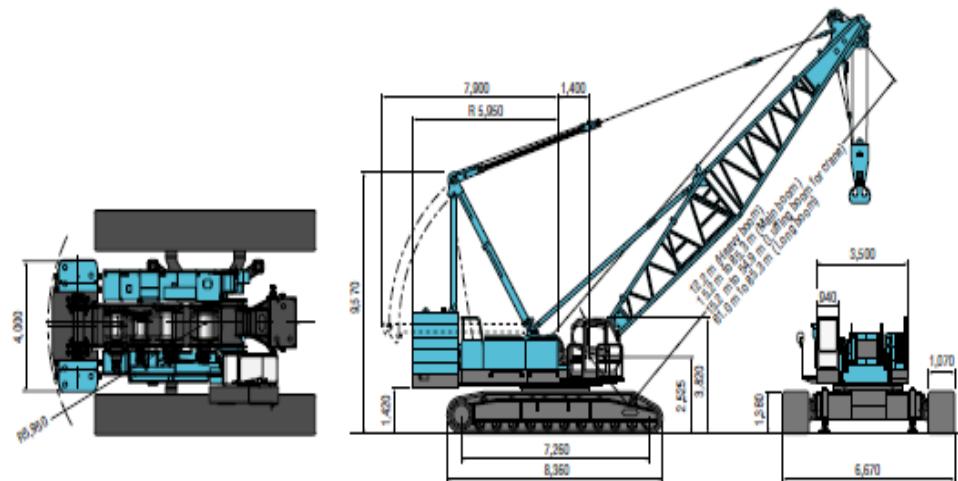
Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

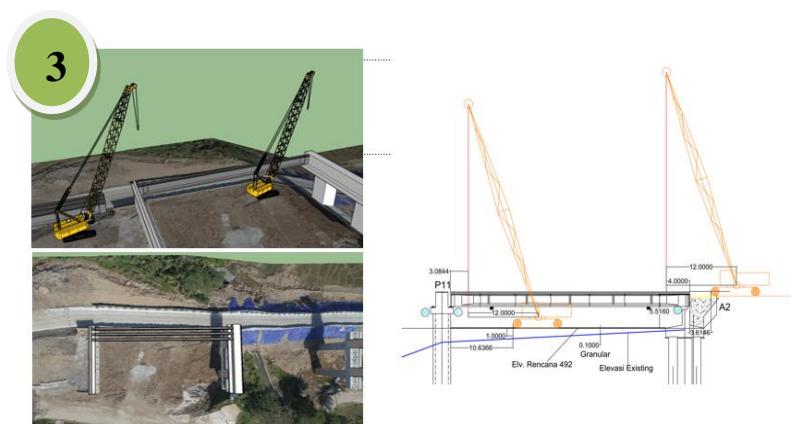
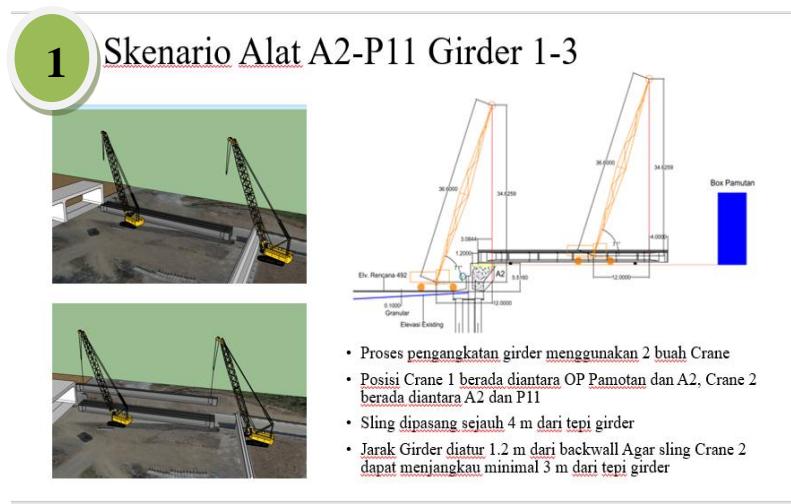
* Including upper and lower machine, 60.0 ton counterweight, 20.0 ton carbody weight, basic boom, hook, and other accessories.

** Base machine with boom base, trans-litter, main and aux. winches including wire rope, and self-removal device.

■ General Dimensions (Unit: mm)



Lampiran 2. Langkah-langkah *erection girder* menggunakan *crawler crane*



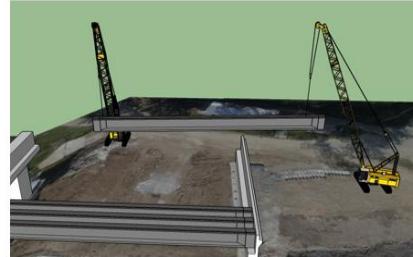
1. Girder pada area stock yard diangkat ke boogie menggunakan crane service, kemudian diantar ke sebelah timur P11-A2

Lampiran 2. Langkah-langkah *erection girder* menggunakan *crawler crane* (Lanjutan)



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2. Kemudian Girder diangkat dari Boogie



3. Selanjutnya Girder diputar ke arah A2-P11

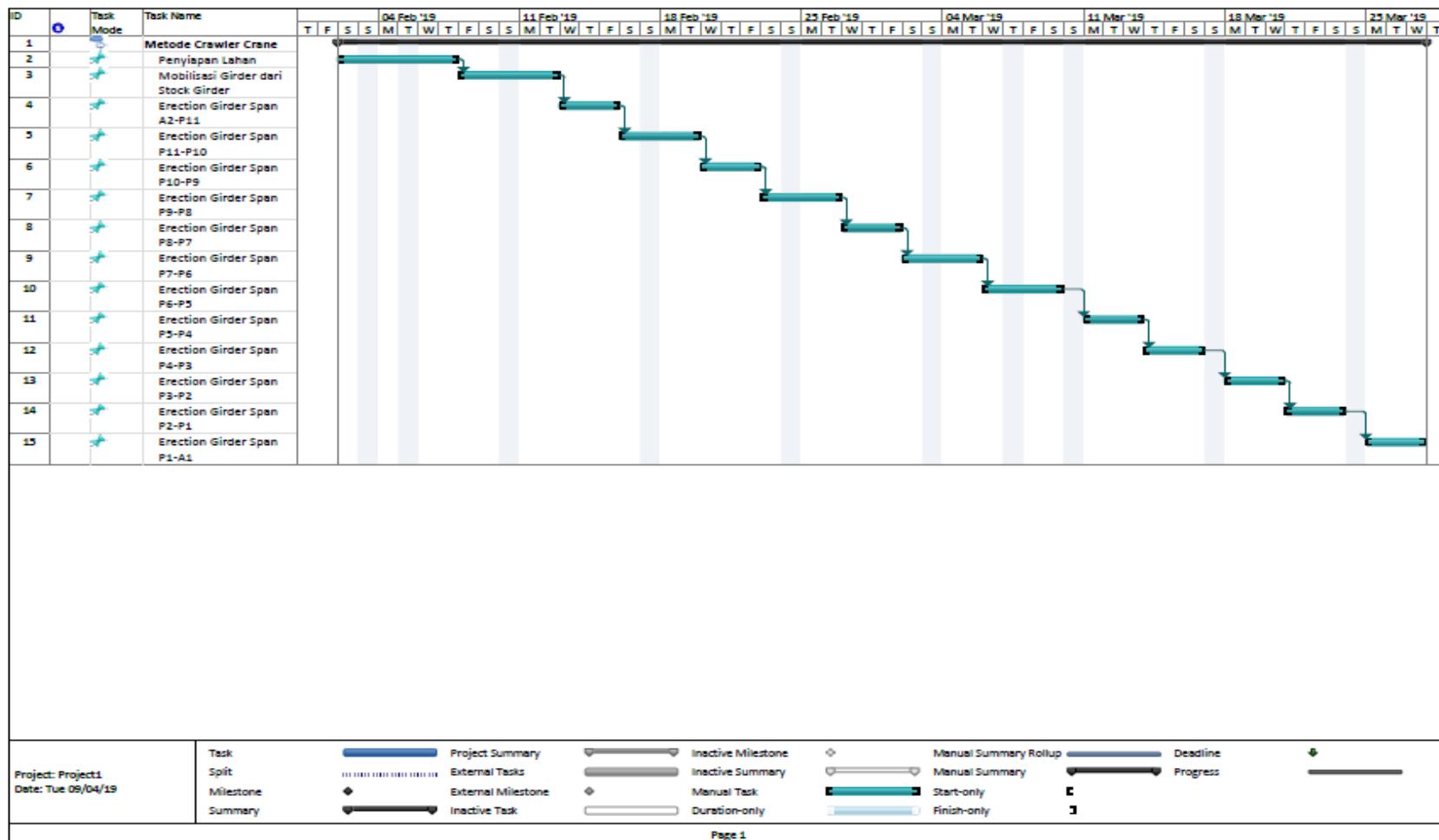


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4. Selanjutnya girder dibawa dan diletakan diatas mortarpad, untuk langkah selanjutnya girder 5-12 menggunakan cara yang sama

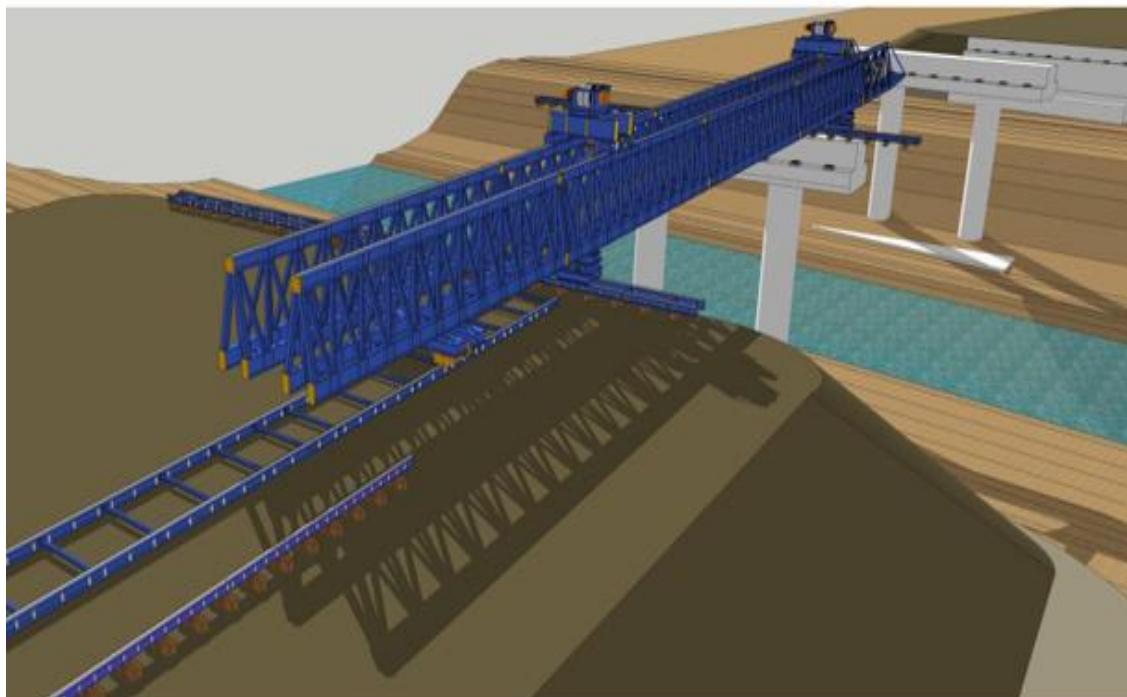
Lampiran 3. Barchart metode crawler crane



Lampiran 4. Spesifikasi *Launcher Girder*



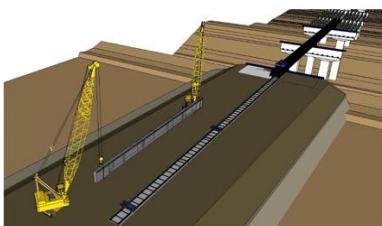
JENIS LAUNCHER



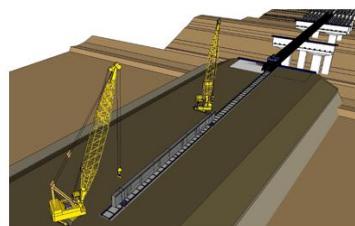
Spesifikasi		
1	Jenis Peralatan Angkat/Angkut	Launcher Crane
2	Dirakit oleh	PT. Jatra
3	Kapasitas Angkat	138 ton
4	Kecepatan Angkat	0,2 m/min
5	Tinggi Angkat	± 9 m
6	Panjang Angkat (span)	50 m
7	Kekekuatan motor penggerak angkat	4 x 2,2 kw

Lampiran 5. Langkah-langkah *erection girder* menggunakan *launcher girder*

1 Skema Alat pada Erection Metode Launcher (Jatra)

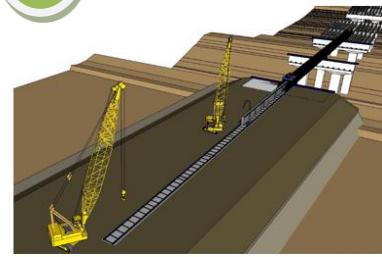


- 1. Pengambilan Girder pada Stockyard menggunakan Crane

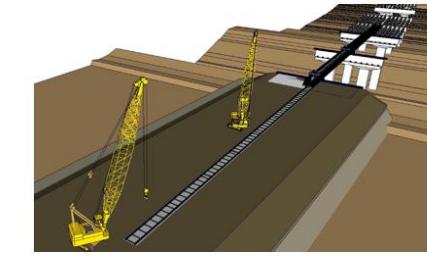


- 2. Kemudian girder diletakkan diatas rel menggunakan crane service

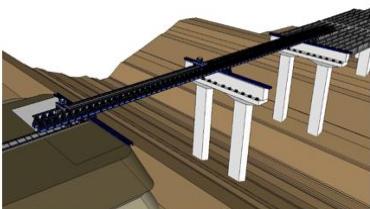
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- Langkah selanjutnya girder akan di setting dan launching dengan kedua Hoist

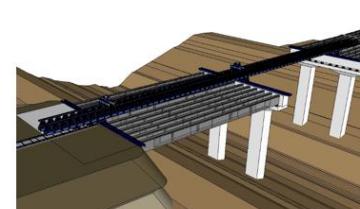


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- Kemudian Girder digeser dan diletakkan diatas Mortar pad dan dilakukan pengamanan sementara menggunakan bracing

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- Erection dilakukan dengan menggunakan metode yang sama, erection dimulai dari span A1-P1 kemudian P1-P2 dan terakhir span P4-P5

Lampiran 6. Barchart metode launcher girder

