

REFERENCE LIST
SEGMENT LIFTER (SL), DERRICK CRANE (DC)
GANTRY CRANE (GC) and OTHER RELATED EQUIPMENTS
For Precast and Pre fabrication Construction

Update: August 2016

Bridge Project (Contractor)	No.	Type	Lifting Capacity (tons)	Main Features	Delivery Date
TURKEY					
Third Bosphorus Bridge or or Yavuz Sultan Selim Bridge (Hyundai Engineering & Construction Co., Ltd.)	2	Derrick Crane	450Tx2 = 900T	Derrick crane for erection of prefabricated steel segment: Type of superstructure (section): Steel Segment, Max. cross fall (super elevation) : ±2.53 % Max. width of box girder : 58.514 m., Section Constant , Max. Segment Width : 58.514 m Segment Height : 5.35m . Max. Segment Length : 24 m., Steel Segment Weight : 900 tons	2013 - 2015
CHINA					
Yong Jiang River Bridge (NRS Jiangsu)	2	Segment Lifter	128	Segment Lifter Span Configuration : 61 + 134 + 468 + 134 + 61= 858 m. Max. longitudinal slope : 0.012% Max. cross fall of superstructure : 2.0 % , Max. width of superstructure : 26.65 m. , Max. width of box girder : 4.775 m., Max. height of box girder : 2.414 m., Min. height of box girder : 2.36 m., Max. length of box girder : 12.00 m., Max. weight of segment : 128 tons	2009 - 2010
LiaoHe River Bridge (CCCC China)	2	Derrick Crane	320	Type of Bridge Superstructure: Steel segment section, Max. width, 38m, Max. length 15m, Max. segment wt. 320 tons	2009
HuangHangYi River Bridge (CCCC China)	2	Derrick Crane	260	Type of Bridge Superstructure: Steel segment section, Max. width, 31m, Max. length 16m, Max. segment wt. 260 tons	2009
HuaiAn River Bridge (CCCC China)	2	Derrick Crane	250	Type of Bridge Superstructure: Steel segment section, Max. width, 40m, Max. length 12.3m, Max segment wt. 250 tons	2011
Oujiang Bridge (NRSJS)	2	Segment Lifter	800	Superstructure: Precats full span length 80m. Max segment wt. 800 tons	2013

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HONGKONG																																															
Tuen Mun Chek Lap Kok (TMCLK) Link Southern Connection Viaduct Section (Freyssinet International)	2	Fixed Lifting Frame	180	Type of superstructure (section): Precast concrete segment, Min. Horizontal Radius : 195 m., Max. Longitudinal Slope : 8%, Max. Cross Fall (Super Elevation) : 10%, Section: Var., Segment Width : 14.7 m. (max), Segment Height : 10.65 m. (max), 3.2 m. (min), Segment Length : 4 m.-max at CL, 4.2 m.-max at extremity in curve segment, 2 m. (min), Segment Weight : 180 ton \pm 2.5% Allowance	2014 - 2015																																										
Tuen Mun Chek Lap Kok (TMCLK) Link Southern Connection Viaduct Section (Freyssinet International)	2	Off-Loading Gantry, Type 3	120	Type of superstructure (section): P.S.C Box Girder Precast segment , Section: Var. Box Girder width : 17.3 m. (max), Box Girder length : 4.2 m. (max) , Box Girder height : 5.3 m. (max), Box Girder weight : 120 ton \pm 2.5% Allowance	2014																																										
Tuen Mun Chek Lap Kok (TMCLK) Link Southern Connection Viaduct Section (Freyssinet International)	2	Wide Lifting Frame	180	Total piers: 24, Total segments : 610, Maximum segment weight : 180T \pm 2.5% , Maximum segment length : 4.20 m., Minimum segment length : 2.98 m., Maximum segment height : 11.20 m., Minimum segment height : 3.20 m., Minimum radius in plan : 243 m., Maximum longitudinal slope : 5%, Maximum cross fall (superelevation): 10% Minimum height of pier head : 13m ., Maximum height of pier head : 33 m., Minimum pier head length : 21.5 m.	2014																																										
Tuen Mun Chek Lap Kok (TMCLK) Link Southern Connection Viaduct Section (Freyssinet International)	2	Adjustable Lifting Frame	180	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Characteristics</th> <th style="width: 35%;">Narrow Configuration</th> <th style="width: 35%;">Wide Configuration</th> </tr> </thead> <tbody> <tr> <td>Total Piers</td> <td>3</td> <td>24</td> </tr> <tr> <td>Total Segments</td> <td>60</td> <td>610</td> </tr> <tr> <td>Max. Seg. Wt.</td> <td>120T \pm2.5%</td> <td>180T \pm2.5%</td> </tr> <tr> <td>Max. Seg. Length</td> <td>4.03m</td> <td>4.20m</td> </tr> <tr> <td>Min. Seg. Length</td> <td>3.84m</td> <td>2.98m</td> </tr> <tr> <td>Max. Seg. Height</td> <td>3.20m</td> <td>11.20m</td> </tr> <tr> <td>Min. Seg. Height</td> <td>3.20m</td> <td>3.20m</td> </tr> <tr> <td>Min. radius in plan</td> <td>320m</td> <td>243m</td> </tr> <tr> <td>Max. slope</td> <td>4%</td> <td>5%</td> </tr> <tr> <td>Max. cross fall</td> <td>7%</td> <td>10%</td> </tr> <tr> <td>Max Ht. of Pierhead</td> <td>13m</td> <td>33m</td> </tr> <tr> <td>Min. Ht. of Pierhead</td> <td>11m</td> <td>13m</td> </tr> <tr> <td>Min. Pierhead Lt.</td> <td>12m with 1st pair</td> <td>21.5m</td> </tr> </tbody> </table>	Characteristics	Narrow Configuration	Wide Configuration	Total Piers	3	24	Total Segments	60	610	Max. Seg. Wt.	120T \pm 2.5%	180T \pm 2.5%	Max. Seg. Length	4.03m	4.20m	Min. Seg. Length	3.84m	2.98m	Max. Seg. Height	3.20m	11.20m	Min. Seg. Height	3.20m	3.20m	Min. radius in plan	320m	243m	Max. slope	4%	5%	Max. cross fall	7%	10%	Max Ht. of Pierhead	13m	33m	Min. Ht. of Pierhead	11m	13m	Min. Pierhead Lt.	12m with 1st pair	21.5m	2014
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<u>SURINAME</u>					
Suriname River (Ballast Nedam)	2	Segment Lifter	100	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 10m, Max. length 3m Max. segment wt. 100 tons	1999
<u>MALAYSIA</u>					
Jalan Duta, KL (Persys Sdn. Bhd.)	1	Segment Lifter	120	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 18m, Max. length 3m Max. segment wt. 120 tons	2005
<u>INDIA</u>					
Elevated Road Over Barapulla Nalla (DSC Limited)	5	Segment Lifter	100	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 9.8m, Max. length 3m Max. segment wt. 100 tons	2009
<u>KUWAIT</u>					
JAHRA Road Project (Arab Contractor)	2	Segment Lifter	134	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 13.6m, Max. length 3.3m Max. segment wt. 134 tons Cross fall: Varies Max = 5.2% Typical 2.0%, Longitudinal slope: 5.16%, Min. Horizontal Radius: 190m, Max. height of segment:5,868m (based on segment type E)	2012
<u>SAUDI ARABIA</u>					
Riyadh Metro Package 3 (Samsung C&T)	1	Overhead Gantry Crane	500	Type of superstructure (section) : P.S.C. Box-Girder, Section Var. Box Girder Width : 8.64 m. (max), Box Girder Height : 2.45 m. (max) Box Girder Length : 27.85 m, 31.85 m, 35.85 m, Segment Weight : 500 ton	2014 - 2015