

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

Update: January 2022

Bridge Project (Contractor)	No. (pairs)	Type	Lifting Capacity (tons)	Main Features	Delivery Date
<b>SEGMENT LIFTER &amp; DERRICK CRANES</b>					
<b>U.S.A</b>					
Sam Houston Tollway Ship Channel Bridge Replacement	2	Segment Lifter	240	Segment Lifter to be utilized for erection of pre cast segments for the New Cable Stayed Bridge and use for the unloading (lifting down) of cut segments for Demolition of the existing bridge. Type of superstructure (section): Precast concrete segment Max. Longitudinal Slope : 4%, Max. Cross Fall (Super Elevation) : 2%, Segment Width (max) : 24.91m Segment Height (max) : 13.091m Segment Length (max) : 4.567m Segment Weight : 240 tons	2018
<b>TURKEY</b>					
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) : $\pm 2.53$ % 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
<b>CHINA</b>					
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

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<b>CHINA</b>					
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: Precast full span length 80m. Max segment wt. 800 tons	2013
<b>HONGKONG</b>					
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 (super elevation): 10% Minimum height of pier head : 13m ., Maximum height of pier head : 33 m., Minimum pier head length : 21.5 m.	2014

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<b>HONGKONG</b>							
Tuen Mun Chek Lap Kok (TMCLK) Link Southern Connection Viaduct Section (Freyssinet International)	2	Adjustable Lifting Frame	180	Characteristics	Narrow	Wide	2014
					Configuration	Configuration	
				Total Piers	3	24	
				Total Segments	60	610	
				Max. Seg. Wt.	120T ±2.5%	180T ±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					
<b>SURINAME</b>							
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		
<b>MALAYSIA</b>							
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		
<b>INDIA</b>							
Varanasi Project	4	Segment Lifter	80	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 12.5m, Max. length 3.0m Max. segment wt. 80 tons	2021		
Bridge Across Sharawathi Backwaters (Dilip Buildcon Ltd.)	4	Segment Lifter	170	Type of Bridge Superstructure: Pre Cast concrete segment section, Max. width, 16.0m, Max. length 3.5m Max. segment wt. 160 tons	2020		
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		

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<b>KUWAIT</b>					
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
<b>GANTRY CRANES &amp; EQUIPMENT FOR PRE-CAST &amp; PRE FABRICATION STRUCTURES</b>					
<b>SAUDI ARABIA</b>					
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
<b>PHILIPPINES</b>					
Malolos-Clark Railway Project Contract Package No. 2 (MCRP - CPN2) Acciona-Daelim E&C Joint Venture (ADJV)	4	Gantry Crane	80	Type of superstructure (section) : P.S.C. Box-Girder, Section Var. Box Girder Width : 5.1m, 6.30m & 10.3 m. (max), Box Girder Height : 2.45 m. (max) Box Girder Length : 2.5m Segment Weight : 70 ton	2021