

REFERENCE LIST
BEAM LAUNCHER (BL), PRECAST MOULDS (PCM) & OTHER RELATED EQUIPMENT
For Precast Beam Bridges and Other Structures

Update : January 2022

Country/Bridge project	Client	Main features	Delivery
PRECAST MOULD (PCM)			
Kuwait			
Jahra Road Project	Arab Contractors	Precast Segment Mould Four Bridges (Double Bridges) 1. Jahra Main Road (Main Bridge) 7260m, 2. Hospital Road (Cross Road) 611m 3. Ghazali Street (Cross Road) 734m. 4. Airport Road (Cross Road) 991m Cross fall: Varies Max = 5.2% Typical 2.0%, Longitudinal slope: 5.16%, Min. Horizontal Radius: 190m, Max. width of superstructure: 13,60m based on segment type C, Max. width of segment: 5,00m base on segment type E, Max. height of segment:5,868m. base on segment type E, Max. length of segment: 3,30m, Wt. of segment (Max.): 100 tons, base on segment E10	2012 - 2015
AUSTRALIA			
North West Rail Link	Salini Impregilo	Precast Segment Mould Type of superstructure : P.S.C. Box –Girder, Length of segment : 2.395- 3.114 m., Bridge type : Approach Viaduct and Cable-stayed Bridge, Outer shape type : 1 type, Inner shape type : 6 types, Typical segment (T1 and T2) of Approach Viaduct, Deviator segment (D1) of Approach Viaduct, E.J. segment (P1) of Approach Viaduct, Typical segment (T1, T1S, T2, T2S, T3, T3S, T4, T4S and T5) of Cable Stayed Bridge, Deviator segment (D1.1, D1.2, D2.1, D2.2, D3.1, D4.2, D5, D6.1 D6.2, D7.1, D7.2, D8.1, D8.2 and D9) of Cable Stayed Bridge, E.J. segment (P) of Cable Stayed Bridge, Minimum length of mould : 3.40 m.	2015
PHILIPPINES			
MNTC-Harbor Link S10 Manila	Leighton Contractors Asia Ltd.	I-GIRDER MOULD Type of superstructure : P.S.C. I-Girder, Length of segment : 37.0 – 40.5 m., Bridge type : Approach Viaduct Mould set-up type : 8 types, Minimum length of mould : 41 m.	2014 - 2015
INDIA			
Ganga Bridge Project, Patna	Daewoo - Larsen and Toubro (L&T) JV	Precast Segment Mould Type of superstructure : P.S.C. Box –Girder,	2020

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Bridge Project (Contractor)	No. (pairs)	Type	Lifting Capacity (tons)	Main Features	Delivery Date
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REBAR CAGE SCAFFOLDING & LAUNCHER

DENMARK

<p>Fehmarnbelt Fixed Link Project Submerged Tunnel Project (Longest Immersed Tunnel in the World Motorway and Railway Connection of 25km with 18km Length of Immersed Tunnel (89 Tunnel Elements)</p> <p>Femern Link Contractors (FLC) Contractors:</p> <ul style="list-style-type: none"> • VINCI Construction Grands Projets S.A.S. (France) • Per Aarsleff Holding A/S (Denmark) • Wayss & Freytag Ingenieurbau AG (Germany) • Max Bögl Stiftung & Co. KG (Germany) • CFE SA (Belgium) • Solétanche-Bachy International S.A.S. (France) • BAM Infra B.V. (Netherlands) • BAM International B.V. (Netherlands) 	5	<p>LAunching SCAaffolding System (LASCA)</p> <p>Est. LASCA steel weight: 2,400 tons (5xLASCA)</p>		<p>for Rebar Cage Assembly of Tunnel Elements One(1) Standard Tunnel element are composed of Nine (9) pre fabricated Segments</p> <p>Segment Information Length: 24.2m Width: 44.70m Height: 9.80m for Niche Segment 8.90 for Standard Segment without Niche Reinforcement Cage Est. Weight: 490 tons</p> <p>Tunnel Segment & Element Est. Weight (Reinforcement plus concrete) Est. Weight of 1x segment: 8,790 tons Est. Weight of 1x Tunnel Element, (9 segments): 79,100 tons</p> <p>Parts of Tunnel Element: - 2 Motorway Tube / Roadway - Rail Tube - 1 Central Gallery - 6 Walls</p>	2021 - 2022
<p>Fehmarnbelt Fixed Link Project Submerged Tunnel Project Femern Link Contractors (FLC)</p>	5	<p>Rebar Cage Skidding System (RCSS)</p> <p>Est. RCSS steel weight: 500 t and 5,900m Ertalyte TX Sliding pads</p>		<p>for launchinh/sliding of assembled Rebar Cage of Segments from LASCA to Casting pit Area</p>	2021 - 2022