



HUADA
BRIDGE ERECTION & ROAD MAINTENANCE

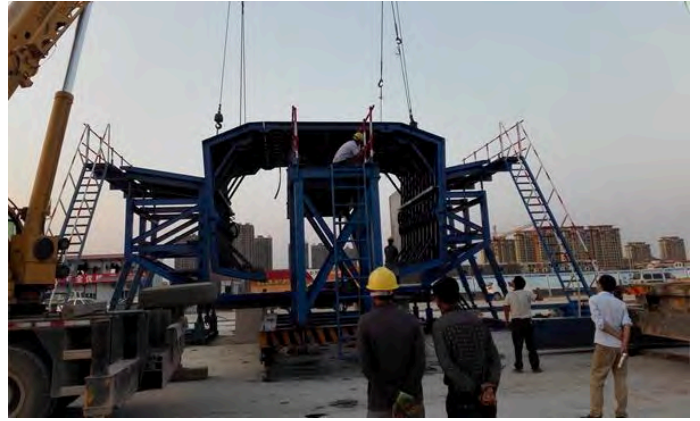


MOULD

Segment Box Girder Mould

Huada Heavy Industry designs and builds Segment Box Girder Moulds for Full Span, Long Line and Short Line methods of casting for single, double, or triple Box Girder. Huada Heavy Industry can also provide calculation of theoretical segment joint coordinates and software to use with these coordinates to control the actual casting of the segments in the short line casting Mould and calculation of span pre-cambers. These coordinates are necessary for the calculations by the software referenced above and bar bending schedules for the segments.

Huada Heavy Industry utilizes an in-house Precast Segment Casting Geometry Control Software with and/or without requirement of survey tower for the casting of the spans in the short-line Moulds.



Huada Heavy Industry can offer an introduction instructional course regarding Segment casting as follow:

1. Introduction-Terminology of precast segmental bridge.
2. Long line (T beam, U beam, box beam) & Short Line(segment) Casting method.
3. Dry joint & Glue Joint match casting.
4. Span by span vs balanced cantilever erection method.
5. Setting up a Casting Yard (what are the considerations?).
6. Casting yard working flow.
7. Concrete mix/method of concrete placing/ placing sequence.

T-Beam Formwork

The hydraulic precast T-Beam formwork system designed by Huada Heavy Industry heavy industry is used widely in railway & highway bridge. The whole system was produced by using automatic and full hydraulic progress. All the formworks are connected by pin connectors. It has the advantages of short curing period, easy to operation. This formwork system is got praised by domestic & foreign experts and supervision engineer.

Specification

T-Beam is precast at the beam fabrication yard. The T-Beam formworks are composed by high and low side formwork, bottom formwork and end formwork. Compared with the rectangular beam, T-Beam can save concrete, reduce self-weight and improve the spanning capacity.

The processes of T-Beam formwork was adopted integrated paving and assembly welding method. Make sure that close piecing and without height different and ensure that its overall size for the formworks. The diaphragm plate formworks of T-Beams which should set the ejection gradient according to the principle of "big top and small bottom" and "small inside and big outside".



U-Beam formwork

With the rapid development of urban rail transit project, the U-Beam is used more widely in viaduct. Currently, U-Beam is one of the most innovative viaducts that were used in urban rail transport. It have the advantages of noise-reduction good effect, low building height, high space utilization and good appearance. With the progress of technology, construction method changes from cast-in-place to precast hoisting. Use double crane lifting or gantry crane lifting to hoisting the U-Beam.

Huadaa Heavy Industry is the professional enterprise to design and manufacture U-Beam formworks. The U-Beam is applied to Shanghai Urban Rail Transit, Qingdao Intercity Rail, Pakistan Light Rail, Dubai Light Rail etc. successfully.



Pier Formwork

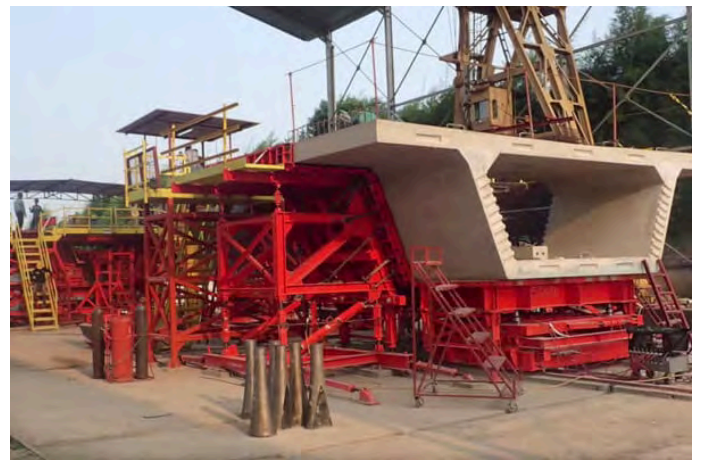
There are column pier, top round pier, cone pier, Y shape pier, hyperbola pier, vase shape pier, linear type pier, V shape pier, rectangle pier etc. They are the important components in highway bridge, overpass bridge, railway bridge, Pedestrian bridge, ramp bridge etc. Pier formwork can be divided into have tie bolt type and no tie bolt type (include truss structure). According to the cross section shape of pier cap, it can be divided into top round bottom round, top square bottom round, top square bottom square, top round bottom square etc.



Mould Project



1 Set Precast Segment Moulds for the Segmental Bridge Construction



Long Line Method of Precast Segmental Bridge Girder Formwork



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