



HUADA
BRIDGE ERECTION & ROAD MAINTENANCE



FULL SPAN LAUNCHING GANTRY

Full Span Launching Gantry

The equipment was developed and designed by our Huada Heavy Industry Design Department for high speed railway bridge and cross-sea bridge construction by Full Span Launching Method (commonly known as FSM).

The FSM involves casting the whole bridge span, typically 24 M to 55 M long and between 450 T and 1,700 T in weight, in the casting yard and transporting the whole span with a specially designed multi-axle Tyre Trolley to the bridge site.

At the bridge site, an FSM Launching Gantry will be used to lift and place the whole span in the final position.

The girder are already predated and tensioned in the casting yard. Normally, this 900 Ton 32 M Full Span Launching Gantry work with beam hoisting gantry crane, beam transporter and integrating the work of bridge beam making, transporting, and launching.



Main features

1. PROFIBUS is used for real-time distributed control.
2. Safety feature including a complete censoring system with self-positioning and correcting functionality, crane with triple breaking system, emergency stop button and limit switch.
3. Flexible steel legs, convenient to disassemble and transfer.
4. The frequency-converter can be installed according to the user's requirements.

Main technical parameters

Model	HDJQ450	HDJQ900
Lifting capacity	450T	900T
Suitable beam	32m、24m double lines equal span and shift span box girder	32m、24m double lines equal span and shift span box girder
Suitable slope	longitudinal gradient 2%,	longitudinal gradient 2%,
	lateral gradient 4%	lateral gradient 4%
Suitable curve radius	≥600m	≥600m
Lifting height	5.6m	7.8m
Max Wind pressure at work	Level 6	Level 6
Lifting trolley lifting speed	0-0.5m/min(heavy load), 0-1m/min(empty load)	0-0.5m/min(heavy load), 0-1m/min(empty load)
Lifting trolley longitudinal moving speed	0-3m/min(heavy load),	0-3m/min(heavy load),
	0-6m/min(empty load)	0-6m/min(empty load)
Launching Gantry moving speed	0-3m/min	0-3m/min
Crane weight	343t	530t
Overall size	69*8.9*9m	72.5*18.9*12.6m
Installed Power	176kw	300kw
Power source	diesel generator	diesel generator
Control mode	mechanic-electric-hydraulic integration system	mechanic-electric-hydraulic integration system



Full Span Launching Gantry Project

900 Ton 32 M Full Span Launching Gantry

Equipment Supplied:

900 Ton Capacity FSLG Equipment

Main Specifications:

32 M Span, 900 Ton

Year: 2010



Full span method means to install one whole span precast girder at one time, and currently is the most used method in construction of high-speed railways, and we have successful applications.

The girder are already precasted and tensioned in the casting yard. Normally, this 900 Ton 32 M Full Span Launching Gantry work with beam hoisting gantry crane, beam transporter and integrating the work of bridge beam making, transporting, and launching.



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