



Model	MG _{HZ} 50/10-30	Trolley Gauge (m)	2
Rated Lifting Capacity (t)	50	Trolley Base Distance (m)	1.8
Span (m)	30	Crane Base Distance (m)	6.2
Working Class	A3	Max. Wheel Pressure (kN)	156
Lifting Height (m)	9	Total Power (kW)	78
Adaptive Slope	<1%	Total Weight (t)	

Technical Requirements

1. <General Gantry Crane> GB/T14406-93
2. <Design Specification of Crane> GB3811-2008
3. <Safety rules for Hoisting Machinery> GB6067-85
4. <Code for design of steel structures> GB50017-2003
5. <Weld Outer Dimensions for Steel Construction> GB10854-1989
6. <Protective coatings for Steel Railway Bridges> TB/T1527-95
7. <Code for construction and acceptance of steel structure> GB50205-1995
8. <Electric equipment installation engineering code for construction and acceptance> GB232-1982
9. <Test code and procedures> GB5905-1986
10. <Safety technical specification for construction of Railway Engineering> TB10401.1-2003
11. <Standard for quality inspection and evaluation of steel structure engineering> GB50221-1995
12. <High strength bolts and connection construction rules for railway bridge> TB/T14-92

	Main Lifting Mechanism	Auxiliary Lifting Mechanism
Lifting Speed (m/min)	1	7
Max. Lifting Capacity (t)	50	10
Working Class	M4	M4
Motor Type	YZP225M2-6/37KW	—
Power (kW)	37	14.6
Reducer Type	ZQ650-23.34-III	—
Brake Type	YZW ₄ 400/90	—
Braking Torque (N·m)	1600	—
Roller Diameters (mm)	φ600	—
Fixed Pulley Diameter (mm)	φ600	—
Steel Rope Type	φ26(6x37)-1770	—

	Crane Running Mechanism	Trolley Running Mechanism
Speed (m/min)	0-20	12
Working Class	M4	M4
Motor Reducer Type	GKF107-49.9-7.5KW	XLD6-87-3KW
Power (kW)	7.5	3
Traveling Wheels	8	4
Trend Diameter of Wheel (mm)	400	300
Rail	P43	50x80square steel
Running Switch Type	JLXK ₁ -311	JLXK ₁ -311

14		Electric Hoist CD10t/9m	1	Purchased Component			
13	MG _{HZ} 60/10-24-4a-00	Driven Wheel Box	2	Component			
12	MG _{HZ} 60-22-9-05	Ladder	1	Component			
11	MG _{HZ} 60/10-24-4-00	Driving Wheel Box	2	Component			
10	XZ090-400	Connecting Pin of Wheel Box	4	40Cr			

9	MG _{HZ} 50/10-30-3-00	Legs	1	Component			
8	GB/T1229-1991	High strength steel structure with large six corner M24	108				
7	GB/T1230-1991	High strength plain washers for steel structures 24	216	45#F35			
6	GB/T1228-1991	High strength steel structure with six hexagon head bolts M24X100	108				
5	XZ050-205	Bottom chord connecting pin	16	40Cr	φ8x100 开口销		
4	MG _{HZ} 50/10-30-5-00	Main platform for girder	1	Component			
3	XZ070-225	Upper chord connecting pin	8	40Cr	φ8x100 开口销	technology	

No.	Code Name	Name	Quantity	Material	Single-Piece Weight	Total Weight	Remark
2	MG _{HZ} 50/10-30-2-00	Lifting Trolley	1	Component			
1	MG _{HZ} 50/10-30-1-00	Main Girder	1	Component			
Component							
Zhengzhou Huazhong Construction Machinery Co., Ltd.							
Assembly Schematic Diagram							
				Phase Marker	Weight	Proportion	
						1:80	
				Total Pieces	Piece		MG _{HZ} 50/10-30-0