Inspection item			Inspection standard
		Foreign matter on rail surface	Foreign matter is not to be accumulated.
Traveling rail	Traveling rail	Oil adhesion on rail surface	Unnecessary oil is not to be adhered.
		Loosening of rail mounting bolts	No to be loosened.
		Measuring of span	Allowable limit ±5mm (Suspension type) Allowable limit ±10mm (Top running type)
		Measuring of rail slope	1/300 or less (Suspension type) 1/500 or less (Top running type)
		Difference of elevation between traveling rails	1/500 × (Span) or less
		Rail joint offset	0.5mm or less on both surface and side
		Gap of rail joint	5mm or less on surface
		Rail crack and deformation	rail is not to be cracked and deformed.
		Rail wear	rail surface wear: 10% or less of full size I–beam rail side wear: 5% or less of full
		Slippage of saddle and main girder	Saddle is to be correctly mounted to main girder in right angle.
		Appearance of construction material	
		Condition of jointed part	Not to be loosened and cracked.
		Wear of trolley wheel surface	5% or less of max. dia. On wheel surface
		-	(ϕ 300 or less) 3% or less (Over ϕ 300)
		Out of roundness for trolley wheel	0.8mm or less at surface dia.
	Saddle	Wear of flange	50% or less of full size thickness
	Gaddle	Gap between traveling rail and both	50% or less of wheel surface width
		flanges (suspension type)	
		Diameter difference of right and left wheels	
		Wear of wheel	2% or less of shaft dia.
		Clearance between shaft and	4% or less of shaft dia.
		bearing metal	
		Wear of roller bearing	Not to be damaged or remarkably marked.
		Appearance of construction material	
		Condition of jointed part	Not to be loosened.
		Condition of welded part	Not to be cracked.
	Girder	Situation of corrosion	Corrosion is not to be exceeded 10% of original plate.
		Painting condition	Not to be peeled.
Crane girder		Wear of cross travel	10% or less on both surface and side face
J		Cross travel rail gauge	Allowable limit ±5mm
		Mounting condition of cross travel rail	Not to be cracked and loosened.
	Traveling equipment	Parallelism of reduction gear shaft	Driving shaft is to be paralleled to reduction gear shaft.
		Mounting condition of reduction gear	Mounting bolts, etc., are not to be
		Appearance of reduction gear	Casing is not to be damaged.
		Engaged gear face condition	Not tot be abnormally worn.
		Wear of gear tooth	Inside of gear case of full size thickness: 20%
		Condition of leave and leave are asset	Exposed tooth: 40% Not to be deformed and loosened.
		Condition of key and key groove	2% or less of shaft dia.
		Wear of shaft	
		Clearance between shaft and	Gear shaft on dia.: 2% or less
		bearing metal	Other shaft: 4% or less
		Wear of roller bearing	Not to be damaged or remarkably marked.
		Wear of oil seal	Not to be remarkably damaged on lip or its shaft surface.
		Mounting conditions of safety covers for gear and other	Safety cover is not to be damaged and fallen.
			Mounting bolts are not to be loosened.
		Mounting condition of driving shaft bearing	Bearing is not to be loosened.

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	Gear	Wear of winding gear teeth	20% or less of full size thickness at pitch circle
		Wear of cross travel gear teeth	40% or less of full seize thickness at pitch circle
		Engaged gear tooth condition	Not to be abnormally worn.
		wear of gear shaft	1% or less of shaft dia.
		Wear of other shafts	2% or less of shaft dia.
			Gear shaft on shaft dia.: 2% or less
	Shaft, bearing and oil seal	Clearance between shaft and	Motor pinion & drum shaft: 1% or less
		bearing metal	Other shafts: 4% or less
		Wear of roller bearing	Not to be damaged or remarkably marked.
		Wear of oil seal	Not to remarkably damaged on lip or its shaft surface.
	Brake	Wear of lining	Full size thickness of dry type: 50% or less of wet type: 20% or less
		Wear and deformation of brake type wheel	Not to be cracked and deformed.
		Wear of brake mechanism	Brake is to be adequately operated.
Elecation bedeat		Wear on wheel surface	5% or less of max. dia. on full wheel surface
Electric hoist		roundness of wheel surface	0.8mm or less at wheel surface dia.
	Cross traval	Diameter difference of right and left	1% or less at wheel surface dia.
	Cross travel wheel	wheels	
	Wileei		50% or less of full size thickness. However
		Wear of flange width	monorail type is 50% or less of wheel
			surface for max gap between flange and
		Wear of sling loop	10% or less of full size
	Hook	Opening of hook	not to be deformed.
	HOOK	Hook damage	Not to be cracked on hook surface.
		Thread part condition of hook	Not to be cracked and worn.
		Wear of groove	30% or less of wire rope dia.
		Deformation corrosion etc,	Not to be remarkably deformed and corroded
	Wire rope	Rope end condition	Not to be cut and corroded.
		Length of wire rope	Specified length is to be ensured.
	Load chain	Corrosion, etc.	Not to be remarkably corroded.
	Shaft joint	Chain end condition	End metal is to be correctly fixed.
		Conditions of key, key groove and spline	Not to be deformed, loosened and worn.
		Joint damage	Not to be remarkably worn.
	Switches	Wear of contact	50% or less of full size thickness
	Switches	Wear of mechanism	To be correctly operated.
	Collector wheel	Wear of wheel contact face	20% or less of full dia.
		Gap between wheel hole dia. and shaft	20% or less of full shaft dia.
	Cable	Cabtyre cable	Not to be damaged, deteriorated and
		Lead wires	interrupted. Other abnormal conditions are
		Cable hangers	not to be found.
Electric part	Power circuit	Electric wire on trolley wire routing side	Check operation coil end of magnet SW is connected to trolley install side.
		Power switch conditions	Not to be damaged.
		Inside of power switches	Connection lines are not to be loosened and damaged. Suitable fuses are to be
	Insulation	Insulation resistance value of entire circuit	connected. Class 200V $0.2K\Omega$ or more Class 400V $0.4M\Omega$ or more
	Grounding	Grounding of traveling rail	To be well grounded.
_		Lubrication oil (oiling)	Specified oil is to be adequately lubricated
Assembly	Assembly	Assembly	To be assembled as specified.
Inspection scaffold	Inspection scaffold on construction	Condition of inspection scaffold ladder	Not to be shaken and damaged.
		Mounting condition of inspection scaffold	Not to be shaken and damaged.
	side	Floor condition of inspection scaffold	
	Movable	Conditions of carrying and elevating devices	Not to be abnormal.

	inspection	Brake condition	Not to securely locked.
	table	Hand rails and other protecting devices	Not to be damaged, and to be safety.
Trial run		Inspection before trial run	To be free from obstruction.
	No-load run	No-load operation	To be run in accordance with indications of push buttons. Not to be noise.
		Limit SW	To be correctly stopped on upper limit position.
		With the rated load hoisted at center of crane span, measure deflection and reversion of crane girder.	Deflection of 1/800 or less of span is to be completely reversed.
	Rated load	Wind and unwind hoist.	Noise and vibration are not to be occurred.
	test	Electromagnetic brake	Hook slippage is to be 1% or less of winding distance for 1 minute after releasing push button SW while hoisting.
		Cross travel of hoist	Noise and vibration are not to be occurred.
		Traveling of crane	Noise is not to be occurred on run-way and crane.
	Mechanical brake	Function suspended in midair	Hoisted load is to be maintained after loosening electromagnetic brake.