Elevator wire rope tension automatic equalization device split independent rope pulley unit specification

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1. Specification for elevator wire rope tension autocompatibility device





product installation

- 1. Before installing the main body of the tensioning device, attach the traction device, such as the chain block, from the machine room to the body, and install the double safety device on the outside wall, respectively..
- 2. Remove existing bolts and springs.
- 3. Insert the body of the tensioning device into the lower part of the hitch.
- 4. In this case, first protrude the tensioning method chain to the upper part of the body and then tighten the main rope connecting flange to the end of the chain.
- 5. Weld a square flange installed on the top of the hitch..
- 6. Remove all power from the lift operator before starting all welding, preventing damage to the electromagnetic wave due to high current induced EM backflow.
- 7. Inserting the main rope connection flange into the ropesocket of the main rope, inserts the connecting pin and secures it with a split pin.
- 8. Slowly release the safety rope and auxiliary device towed by the chain block and adjust the rope socket to a certain height..





Continue to use the existing rope socket. Remove the existing bolts and connect the main rope connecting the flange to the existing rope socket.





2. split independent rope pulley

a general outline

A device applied to a 2:1 rope-type elevator that allows individual pulleys to rotate independently so that individual rope movements can be operated freely as much as the tensile changes of individual ropes while the individual rope is wound to the independent pulley.

2 : 1 When the rope pulley is independent and does not move freely in a rope trap

Section A and Section D are sections where tension can be adjusted with rope tension automatic equalization device.

Section B and section C are sections where the rope is trapped due to integral pulley and therefore tension cannot be adjusted.

The section where the rope in Section B and the rope in Section C can break up when a rope transfer car occurs due to side wear on the drive pulley.

Therefore, the tension between B and C sections cannot be adjusted.





The need for independent rope pulley segmentation

Effect

a steady ride

"Divided independent rope pulley" not only prevents the rope from breaking apart in the 2:1 rope tightening method for elevators from being reliably lifted, but also has the effect of securing the long life span of the wire by allowing the movement of each rope as freely as the tensile change of each rope is made by the amount of each rope with each rope wound in the suspended sheet.

economic saving

The cost of replacement due to rope breakage is significantly reduced and has a good economic and incidental effect.

device need

All of the two-to-one lifts have parallel sections that cannot control the tension of the rope, and this section can be seen as an irreversible section, and all of his two-to-one lifts have problems. Vibration due to these problems is not resolvable by tension control.

Therefore, the "division independent rope pulley" allows each rope pulley to move freely, so that each independent seat consisting of multiple shifts of rope can be freely moved in the driving seat, and thus the tension equalization control device can be adjusted..

efficiency of maintenance

It not only eliminates misunderstanding about the vibration of elevator cars that result in the technicality and work performance of maintenance, but also allows maintenance companies to expect efficiency of their work.

Replace with a split pulley from an integral pulley















split independent rope pulley physical appearance





Rope pulley assembled as split independent Example of installing split independent rope pulley on count and car body



Weight side "divided independent rope pulley" installation example



Example of installing a "division independent rope pulley" on top of an L-type lift car

Specification for off-the-shelf products to know before installing elevator rope tension automatic equalization device

분 류	구 분	참 조	구 분	참 조		
1. rope-mounting method elevator classification	1:1 rope connection type rope hitch dimension	P19 P21 Painting11	2:1 rope type The dimensions of rope hitch in a system with a mechanical room			2:1 rope type The dimensions of rope hitch in a system without a mechanical room
Inspection Item	A:rope hitch Upper length	P16 A	A:beam-to-beam gap	P16 A		
	B:rope hitch upper width	P16 B	B:Voltors Installation Plate Specification	P16 B		
	C:rope hitch lower longitudinal length	P19 C	C:Is it possible to install steel on non-clinical parts alongside the bolt installation part?	P16 C P18 Painting5		
	D:rope hitch and car height	P16 D				
2. coupling pin diameter dimension		P20 Painting 9 Painting 10				
3. rope diameter	example)Ø8mm, Ø10mm, Ø12mm, Ø14mm, Ø16mm					
4. rope quantity	example) rope quantity display 4-line (4-bone) rope type, 5-line (5-bone) rope type, 6-line rope type					



2:1 rope typeThe dimensions of rope hitch in a system with a mechanical room– installation at the top of the beam

Remove existing bolt nut



Use existing clasps or ropesockets and pins as they are.



Welding the upper part of the beam



an elevator with a 2:1 rope machine room– Install the device after installing an auxiliary 20t weld on the lower flange of the beam.



A structure that cannot be installed by raising a \Box -shaped steel on the top of the beam.





Maine Rope 20t Rectangular connecting Board board Reference P5)

square cut, where the bolt and spring are installed. The connecting board allows for passage.

20t weld on both sides of the flange. 20t square flange

1:1 Before and After installing the rope elevator



Remove the bolts and springs and replace them with equalizer

rope tension automatic equalizing device

You need to know the diameter of the connecting pin.



Categorizing the types of elevators according to the rope connection method.

1:1 rope-type elevator 2:1 rope-type elevator

Thank you.

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