



■ **Bracket Specifications**

Feature	Hoist bracket 580280
AYERBE reference	580280
Type of equipment	Slewing bracket (jib) for electric hoist
Maximum load	400 kg
Jib length	750 mm
Tie rod length	770 mm
Jib	Square-section steel tube
Mounting tube	Steel Ø 48 mm (scaffold upright), not included
Minimum tube thickness	3 mm wall
Fixing to the tube	2 brackets with toothed jaws and U-bolts
Joints	Pivots secured with cotter pins
Movement	Horizontal slewing around the mounting tube
Compatible hoists	AY-100/200 (580250) · AY-200/400 (580240)
Intended use	Lifting loads up the outside of scaffolds and structures
Standards	CE · Directive 2006/42/EC · EN ISO 12100
Certificate	TÜV Rheinland AM 50429725 0001
Spare parts	Genuine AYERBE, by part no.

■ Compatible hoists

AYERBE hoist	Reference	Max. load with the bracket (direct / pulley)
AY-100/200	580250	100 kg / 200 kg
AY-200/400	580240	200 kg / 400 kg

The bracket is designed for these two hoists only. The hoist is fixed to the jib with its own mounting brackets, as for beam mounting.

■ The maximum load is the lower of the two

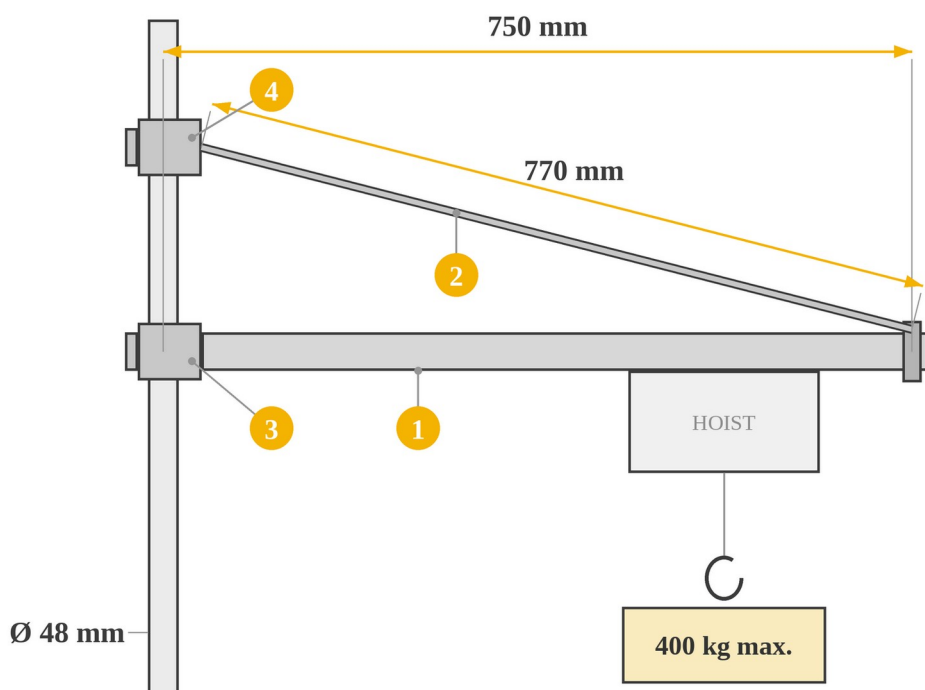
- The bracket takes a maximum of 400 kg. The installed hoist has its own capacity, shown on its rating plate.
- The lower value always applies: with the AY-200/400 you can lift up to 400 kg only with the return pulley (200 kg direct); with the AY-100/200, up to 200 kg with the pulley (100 kg direct).
- The structure the bracket is fixed to is also a limit: the tube and the scaffold must withstand the load plus the lifting forces.

■ Mounting tube requirements

Requirement	Condition
Material	Steel
Outside diameter	Ø 48 mm (scaffold upright)
Wall thickness	Minimum 3 mm
Condition of the tube	No damage, deformation or significant corrosion
Position	Perfectly vertical
Anchoring	Firmly anchored; scaffold assembled, levelled and braced
Supply	Not supplied with the bracket

Do not mount the bracket on tubes of another diameter or material, on pipework or on any element not designed to bear the load. With a diameter other than 48 mm the jaws do not seat and the bracket may slip or turn.

■ *Assembly diagram and dimensions*



Dimension	Value
Jib length (1)	750 mm
Tie rod length (2)	770 mm
Mounting tube diameter	Ø 48 mm
Maximum load at the jib end	400 kg

■ *How the bracket works*

- The lower (3) and upper (4) brackets have toothed jaws that grip the tube and are tightened with the U-bolts.
- The jib (1) turns on the pivot of the lower bracket; the tie rod (2), hinged on the upper bracket, holds it up by its free end.
- The hoist, fixed on the jib, lifts the load up the outside of the structure, and slewing the jib lets you set it down to one side.
- The jib must be level: adjust it with the distance between the two brackets.

■ Bracket components

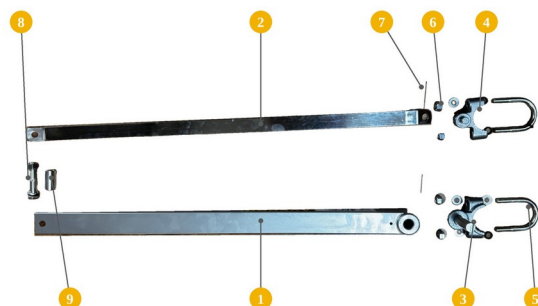


	Quantity
1 Jib (square-section tube)	1
2 Tie rod	1
3 Lower bracket with long pivot (jib joint)	1
4 Upper bracket with short pivot (tie rod joint)	1
5 U-bolt	2
6 U-bolt washers and nuts	1 set
7 Cotter pin	2
8 Jib-tie rod connecting bolt, with washers and nut	1
9 Spacer sleeve	1

When ordering spare parts, always state the bracket reference (580280), the part number and the description. Use only genuine AYERBE spare parts.

■ Included equipment

- Jib and tie rod.
- Lower bracket with long pivot.
- Upper bracket with short pivot.
- 2 U-bolts with washers and nuts.
- 2 cotter pins.
- Connecting bolt and spacer sleeve.
- Instruction manual with EC declaration of conformity.



The mounting tube and the electric hoist are not included.

■ Assembly and commissioning

- Assembly by a competent person, helped by a second person holding the parts. First check that no part is missing.
- Insert the spacer sleeve (9) into the free end of the jib: it stops the tube from being crushed when the connecting bolt is tightened.
- Fix the lower bracket (3) to the tube with the pivot facing up, and the upper bracket (4) above it, on the same vertical line and facing the same side. Hand-tighten the U-bolts.
- Fit the jib on the lower pivot and the tie rod on the upper one, each secured with its cotter pin, legs spread open.
- Join the tie rod and jib with the bolt (8) through the jib, the sleeve and the tie rod eye.
- Level the jib by adjusting the height of the upper bracket, then tighten all U-bolt nuts firmly and evenly.
- Check that the jib turns smoothly over its full travel without rubbing against the structure.

■ **Fitting the hoist on the jib**

- Fix the hoist to the jib with its mounting brackets and bolts, as its manual describes for beam mounting.
- Position the drum and rope in line with the vertical of the load, so the rope hangs freely without rubbing the tie rod or the structure.
- Tighten the bracket bolts well and check that the hoist cannot slide along the jib.
- No-load test: raise and lower the hook twice and slew the jib from side to side over its full travel.
- Load test: increase the load progressively up to the planned working load, never exceeding 400 kg. If there is deformation, slipping or play, unload and check the assembly.

■ **Operation**

- Before each use check the bracket: nuts tight, pins in place, no deformation or cracks, and tube vertical and firm.
- Slew the jib to the pick-up area, hook the load and lift it just clear of the ground. Check the stability of the assembly.
- Lift to the required height and slew the jib slowly, guiding the load by hand or with a tag line, without pulling on the hoist rope.
- Set the load down on a stable surface before releasing it from the hook.
- Never leave suspended loads unattended. When finished, lower the hook, disconnect the hoist and slew the jib to a position where it is out of the way.

Also follow all the instructions in the manual of the installed electric hoist: duty cycle, power supply, limit switches and emergency stop.

■ **Bracket safety features**

Toothed jaws and U-bolts

They bite into the Ø 48 mm tube and stop the brackets slipping or turning. They must be tightened firmly and evenly.

Cotter pins

They secure the jib and tie rod on their pivots. Always fitted with legs spread open; replace them if deformed.

Spacer sleeve

Fits inside the jib end and stops the tube being crushed when the connecting bolt to the tie rod is tightened.

Maximum load 400 kg

Bracket limit. Never exceed it, nor the capacity of the installed hoist if that is lower.

Do not drill, cut or weld the bracket parts: any structural modification compromises its strength.

■ **Maintenance and inspection**

Item	Operation
Before each use	Nuts tight, pins in place, no deformation or cracks, tube vertical and firm.
Bolts and pins	Check tightness periodically. Replace deformed or broken pins.
Pivots	Grease periodically so the jib turns smoothly.
Mounting tube	Check that it remains vertical and firm, with no bending or play.
Bracket parts	Look for deformation, cracks, corrosion or worn holes. If defective, take out of service.
Jaws	Keep free of dirt so they seat well on the tube.
Storage	Dismantled, clean and dry, protected from the weather and with all its bolts.

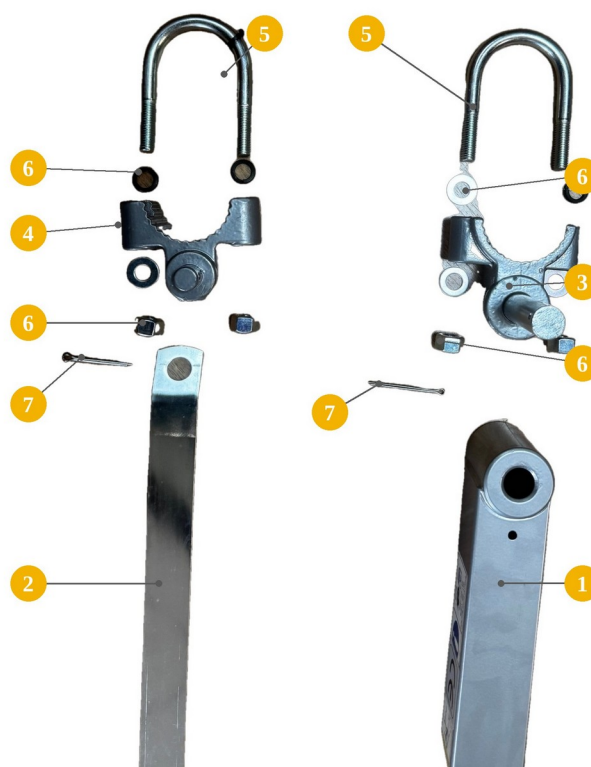
Disconnect the hoist from the mains and unload it before any work on the bracket.

■ Troubleshooting

Fault	Probable cause	Remedy
Brackets slip or turn on the tube	Loose nuts, tube other than Ø 48 mm or dirty jaws	Clean the jaws, check the tube diameter and tighten the nuts evenly
Jib not level	Wrong distance between the brackets	Adjust the height of the upper bracket until the jib is level
Jib turns stiffly or swings to one side	Dirty or dry pivots, or tube not vertical	Clean and grease the pivots; plumb the mounting tube
Play in the joints	Worn pins or bolt, ovalised holes	Replace worn parts with genuine spares
Deformed or cracked part	Overload or impact	Take the bracket out of service and replace the damaged parts

In the event of any anomaly, unload the hoist and disconnect it from the mains. Repairs must use genuine AYERBE spare parts.

■ Detail of the tube fixing



■ *Safety Instructions*

- Do not overload the bracket: never more than 400 kg nor more than the capacity of the installed hoist.
- Mount it only on a Ø 48 mm steel tube that is vertical, in good condition and firmly anchored.
- If mounted on a scaffold, it must be assembled, levelled, braced and anchored as per its manufacturer, and withstand the load plus the lifting forces.
- Before each use, check the nuts and that the cotter pins are fitted with legs spread open.
- Do not use the bracket if it shows deformation, cracks, significant corrosion, damaged welds or if any part is missing.
- Do not stand, or allow anyone to stand, under the jib or the load. Mark off the work area.
- Do not lift or transport people or animals.
- Always lift vertically: do not drag loads or pull them at an angle.
- Slew the jib slowly with the load steady, guiding it and avoiding knocks against the structure.
- Do not use two hoists to lift the same load.
- Outdoors, do not work in strong wind, rain or storms.
- Wear suitable work clothing, gloves, safety footwear and a helmet; keep children and bystanders away from the area.
- Do not modify the bracket or use it for anything other than supporting a compatible AYERBE hoist. Replace damaged parts only with genuine spares.