

Anode Jacking Frame | AJF

EPIQ SOLUTION FOR →



Lifting the busbar when it reaches the lower end of its stroke in the pots.

A reliable and efficient lifting system ensuring safe and precise busbar handling in aluminium production.

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Solution advantages in a snap



Designed to work under high amperage busbar, thus supporting high magnetic fields.



Withstands environment with high concentration of alumina dust & fluor gas.



Operates with compressed air only, free of electrical component, making the operations safer.



Controlled by 3 panels: one fixed that secures the AJF to the pot superstructure, and a mobile one on each side of the AJF.



Easily removed by a crane for storage on its trailer.



Remote access available 24/7, in case technical assistance is required.



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During the whole operation, the stem will be pressed against the busbar to maintain a solid electrical contact.

One complete AJF includes:

- Main portal frame receiving the clamps and the two tracks for trolleys;
- Necessary electrical insulation between the frame and the pot and each anode clamp;
- Non magnetic parts to avoid any undesirable sticking of the beam;
- One clamp per anodic assembly, each including a clamping and retracting cylinder;
- One tightening trolley per side;
- Lifting lugs;
- Hands-free pendant control panel with carrying belt;
- Flexible hose to connect to plant's compressed air system;
- Necessary piping of all anode clamps and the mobile tightening mechanism.

Utility Requirements:

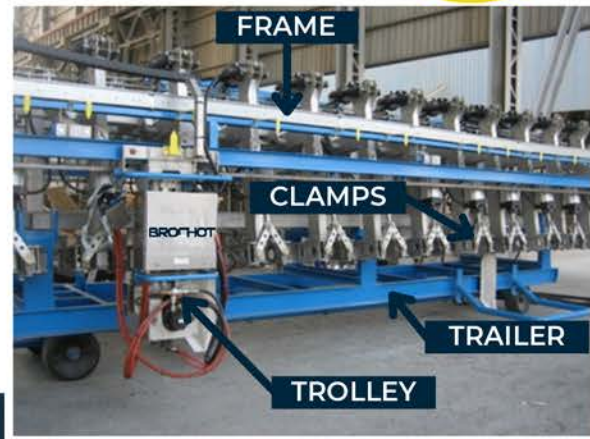
- Min. Air pressure (dry): 450kPa
- Typical flow: 3,4mN³/min
- Typical electrical need: 5A, 3Ø, 50-60Hz

Compressed air is fed from the potline feeder through a supplied flexible hose with quick-connects for ease of use.

AJF | TECHNICAL CHARACTERISTICS

Key specifications ensuring optimal reliability and precision.

Description	Specifications
Stem holding force	15,000 N
Stem pressing force against busbar	~5,000 N
Tightening trolley horizontal stroke	8,600 mm
Wrench vertical stroke	550 mm
Wrench tightening torque	Adjustable < 900 Nm
Wrench loosening torque	< 1200 Nm
Weight	11,500 Kg



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