PALLET LIFTING DEVICE FOR SHUTTLE VEHICLE AND WORKING METHOD THEREOF

ABSTRACT OF THE DISCLOSURE

A pallet lifting device for a shuttle vehicle including a shuttle vehicle and a pallet and a working method of the device are provided. Lifting plates are disposed on an upper part of the shuttle vehicle, and a driving device on the shuttle vehicle drives the lifting plates to perform lifting movement. Several support feet are disposed at the bottom of the pallet, and one of the several support feet close to a center of the pallet is marked as an anti-deviation foot. A front clamping claw and a rear clamping claw are disposed on the shuttle vehicle along a traveling direction. The front clamping claw and the rear clamping claw are linked and connected to the lifting plates via linkage structures. The front clamping claw and the rear clamping claw limit sliding between the anti-deviation foot of the pallet and the lifting plate of the shuttle vehicle.

FIG. 1