

# Mono-rack provides field material handling solution to confront productivity & labor challenge in agriculture.

## Productivity & Labor Challenge

A major client was having difficulties to maximize the productivity, in term of exporting numbers of banana which cover field area of 16,000 m<sup>2</sup>. On average, the client managed to export 1000 tons of bananas monthly, which covers only 70% of its production rate due to limitation of workers / farmers. When picking up the bananas to the collection center, those number of workers need to travel back and forth of the field, carrying 10-15 kg of load (bananas). This situation will then affect the performance of the workers itself & consume more processing time to the client.

## Solution

Mono-rack was able to reduce the limitation of labors for carrying products in large area and steep fields, hence increase the productivity. The cable system transports bananas from the paddock to the packing shed. It consists of 200 support bars and 5 km of cable rail which are placed around the crop field. Normally, bananas are cut from the plants by the farmers, which then transport the fruit back to the packing shed.



Using mono-rack, long cable runs are placed around the paddock, and bananas are placed onto cable's runners, which then use gravity & motorized loader to transport the fruit directly to the collection center, cutting out the need for transportation by farmers.

## Results

By installing the mono-rack, the production rate increase to 90% where the client successfully exported 1428 tons of bananas monthly. The farmers will not be troubled to transport the bananas to the collection center anymore, resulting superb work efficiency.

## Benefits

**As the production rate & work efficiency rise to the top, the client was able to avoid unnecessary loss meanwhile expand their monthly and annual profit margin.**