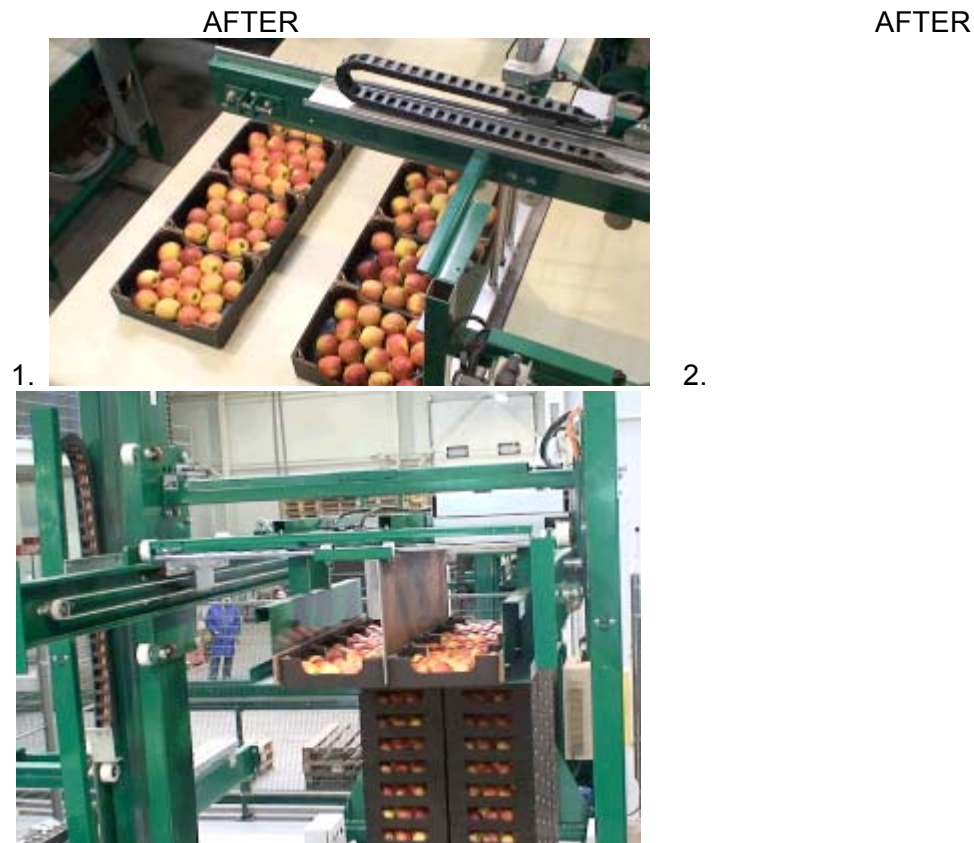


**“Elimination manual man’s work” (Transporting the cartoon boxes with fruits and laying them down on a pallet)**

Task Description: PL\_5d (PL–Poland, 5 – Sorting)

- Man’s work involve monotony and repetitive tasks
- Task connected with repetitive tasks – lifting, carrying a box with fruit and laying down on a pallet to compose a tower of boxes to a transport
- Lifting boxes weighted around 20 kilos creates a MSD risk for a worker

Pictures:



**Automatyczne kompletowanie i układanie na palecie**

Comments of the employee:

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Continuously repetition of the same gestures             |
| <input checked="" type="checkbox"/> | Work height not in accordance with work posture          |
| <input checked="" type="checkbox"/> | No comfortable standing posture                          |
| <input checked="" type="checkbox"/> | No helping devices available                             |
| <input checked="" type="checkbox"/> | Loads too heavy, carrying distance too far, too low, ... |

Comments of the employer: motivation regarding solution:

Well organise work with an elimination of man’s work. Man only supervises a machine work. It is fully automatic system to transport and compose a tower of cartoon boxes on a pallet to prepare fruits for a transport to a cold storage or a shop.

MSD risks:

- |   |                    |
|---|--------------------|
| X | Posture            |
| X | Force              |
| X | Frequency/duration |

Exposed areas:

- |   |               |
|---|---------------|
| X | Neck/shoulder |
| X | Arm/wrist     |
| X | Lower back    |
| X | Lower limbs   |

Solutions:

Add a full automatic transport system to transport and compose a tower of cartoon boxes on a pallet to prepare fruits for a transport to a cold storage or a shop. This mechanical solution eliminates a man's work and improves a productivity of a sorting.

**Comments after implementing good practice solution:**

- Performing this kind of task involves high load especially in lower back and shoulders, due to lifting, carrying and moving the cartoons with fruits
- In order to decrease lower back load you need to organise work by adding a full automatic transport and packing system
- Using a automatic system allows you to eliminate man's work and improve productivity