

## Grapes transport cart

### Task Description:

During a short seasonal period (2 weeks) grapes have to be harvested in the vineyard. Very repetitive work with high frequency is continuously performed during 8 or more hours per day. Awkward postures of wrist (one hand fixating the grapes, the other one for harvest) and flexion of the back is observed. Grapes are disposed in a bucket that people have to carry along the vines. When full, the bucket can weight 20 till even 30 kg.



Awkward back postures during harvest

### Comments from the employee:

- 'The work height is not always in accordance with the working posture'
- 'It is complicated to obtain a correct working posture'
- 'It is no comfortable standing posture'

### MSD risks:

- Uncomfortable postures of back, neck and wrists
- The worker is exposed to a continuously static back muscle load for several hours

### Exposed areas:

- Neck / shoulder
- wrist
- upper/lower back

### Solutions:

- Better working techniques
- Transport cart with possibility to sit (although not the best sitting posture) and no weight has to be lifted



### Comments from the employer

*The cart is not always possible to use when the ground is too uneven.*