

Aires air suspended front axle

Task Description: Riding tractor

Tractor drivers undergo whole body vibrations on the road and on the field.

Comments of the employee:

- ❑ 'No comfortable sitting posture'
- ❑ 'Vibrations (seat, quality floor, hand/arm machinery...)'
- ❑ 'Opportunity to have a break or change activity'

MSD risks:

- ❑ Posture
- ❑ Duration
- ❑ Vibrations (whole body or hand/arm)

Exposed areas:

- ❑ Lower back

Solutions:

- ❑ Valtra – Aires air suspended front axle
Pneumatic suspension with air bellows. A subframe connects the main frame and the front axle. The axle swings in the subframe. Two hydraulic dampers control the air suspension. The Valtra air bellows are connected to a compressor. The height of the tractor nose to the ground remains fixed, because the compressor pumps or drains some air.

