

Active Seat

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:

- ❑ John Deere – Active Seat (Sears)

Air suspended seat. Two position sensors measure 200 times per second the position and acceleration of the seat. A computer programme controls the hydraulic cylinder and neutralises the vertical movements. The degree of damping can be adjusted: mild-middle-strong. The Active Seat can dampen around 90% of the vertical movements. The seat is not only vertically but also horizontally suspended in both directions.

