

Hydropneumatic cab suspension

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:

- ❑ McCormick – Hydropneumatic cab suspension
The cab is mounted on silent blocks (front) and two hydraulic cylinders with low friction (rear). The system consists of a position sensor, Panhard rod, hydraulic damper with accumulator. It responds automatically to different driver weights, maintains a constant ride height. A Panhard rod prevents the cab from swaying as it absorbs bumps.

