

Hydropneumatic front axle suspension ZF

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:

- ❑ Deutz-Fahr – Hydropneumatic front axle suspension ZF
A Subframe connects the front axle with the main frame. The front axle can swing over 22°. The subframe contains two hydraulic cylinders which are controlled by three nitrogen accumulators (displacement over 90 mm). The height of the tractor nose remains fixed in relation to the front axle, independently of the weight of the equipment in the front load.

