

QuadLink front axle 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:

- Massey Ferguson – QuadLink front axle suspension
This hydropneumatic system consists of one cylinder in the middle underneath the axle. This vertical cylinder supports a wedge construction of four arms. There are three nitrogen accumulators: two dampen the downward movement of the cylinder, one controls the upward movement. The displacement is 90mm, 45mm in each direction. An electronic part with a position sensor keeps the height of the nose at the same level, independent of the load.

