

Work Safety - Edition 2014 Concise cards of major risks in agricultural activity

5 Machinery and tools - Card 05.14 Walking tractors - motor hoes



Card 05.14 Walking tractors - motor hoes

THE RISK:

- Crushing and shearing (due to the operator touching the moving devices)
- Slipping, stumbling and falling (due to balance loss and sloping and damp grounds)
- <u>Moving</u> milling cutter touching (due to overturning)
- Running down people (while reversing)
- Entangling, dragging and catching (body parts or clothes touching moving devices)
- Pull and entangling (while activation with winding pull start and "lost rope")
- Material projection (to the operator or people nearby)
- Burns (hot surfaces touching)
- Exhausting fumes inhalation (tractor used in closed area without ventilation, such as greenhouses)
- Uncovered electrical part touching (poor or lack of maintenance)
- Hearing damages (use of noisy machines)
- Musculoskeletal pains (repetitive truck use and vibrations)

PRACTICAL AND OPERATING INDICATIONS:

It is advisable to avoid using the machine on sloping or damp clayey soil.

Unloading device, if not isolated, shall be protected with adequate grids/openings capable to avoid contact with high temperature parts without jeopardizing engine ventilation.

If machines are used in <u>closed areas</u>, such as greenhouses, nursery gardens and under tunnels, it is necessary to pay great attention to the change of air during and after their use.

Operator shall be extremely careful to moving transmissions and crank gears.

Operator shall not go by rotating tools.

It is advisable to avoid wearing fluttering clothes (use rubber band on wrists and ankles).

Operator shall not go in reverse to work.

Operator shall go into reverse only if tools are locked (during transportation).

The machine shall be provided with milling cutters locking device.

Rotor shall be isolated and protected with a case in a sheet steel or in an equivalent material 2 mm thick (at least).

Rotating working devices shall be protected on every side from accidental contact and object projection (with barriers, cases and covers). Hinged covers may be accepted only if the protection position is automatically secured during working operations.









Exhausting pipe isolation



Inside a greenhouse

FURTHER INDICATIONS AND ADVICE

- The activation with winding pull start shall be provided with an automatic winding mechanism of the cable.
- The pulley of the activation with winding pull to "lost rope" activation shall be provided with a protection which can be closed again.
- The handle of the rope used to the "lost rope" activation shall be provided with split cut.
- The removal or the opening of repairs shall be possible only with tools help.
- Hinged cases opening on the upper side shall be provided with a support system which holds them in open position.
- It is necessary to provide the machine with a device preventing the running of the engine if the latter causes wheel rotation or tool movements (jog command).
- Stilts height shall be adjustable with regard to the ground.
- Gear and neutral position shall be clearly indicated in durable way and placed in the operator's view.
- Machine movements and the working tool activation shall be performed only by jog command.
- Controls shall be placed on stilts without sticking out of their extremities.
- The brake shall not need jog command for its activation.
- The cap tank shall be gland and provided with holding chain.
- The exhaust pipe shall be turned to direct gasses away from the operator.
- Electric wires shall always be protected whenever they may keep in contact with metallic surfaces potentially abrasive.
- If the machine is equipped with separated brakes, they shall be coupled or activated simultaneously.
- The machine shall be equipped with a device which can stop its movement both forward and in reverse.
- If an automatic hand brake is provided, it shall be used while transmission jog command is released.
- Transverse spreading bar shall be put on the handle.
- Bearing point shall be spotted easily (indicated on machine pictograms).