

Slaughtering with consideration for the animals

Obtain positive cost/benefit through optimal solutions!

The farmers, hauliers and the meat industry are responsible for ensuring that the animals are treated well and without unnecessary use of force.

DMRI have experienced that it is lucrative to consider animal welfare, primarily because the quality of the meat is better from animals that are treated well. Gentle treatment also results in fewer injuries to the animals and survival of more animals until the time of slaughter.

In the EU and in many other parts of the world, legislation is focused on the handling of living animals. Furthermore interest groups and consumers are aware of animal welfare.

DMRI develop technical solutions and tools to ensure animal welfare from the animals are delivered from the farmers, during transportation, off-loading, lairage, driveway, stunning and slaughtering.

DMRI can help your company to choose and improve solutions to ensure animal welfare and the best economy for your company.



Best practice for building vehicles for animal transport

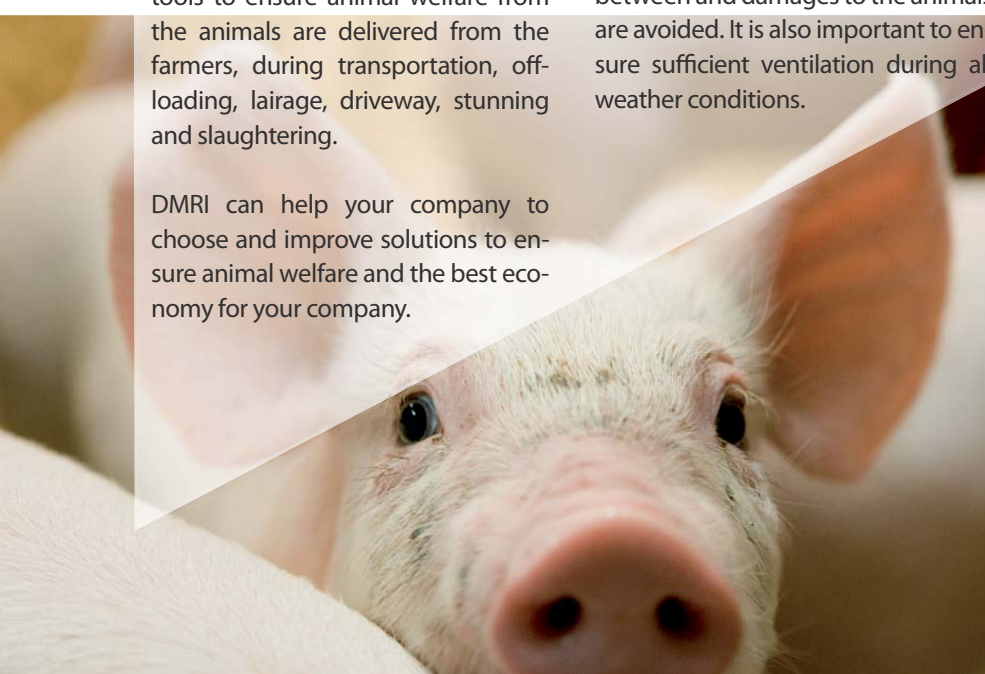
DMRI have the competences and tools to ensure animal welfare from the pigs and cattle are collected from the farmers until slaughter. The inside of transport vehicles should be constructed in such a way that squeezing between and damages to the animals are avoided. It is also important to ensure sufficient ventilation during all weather conditions.

A standardisation of equipment and procedures for transport provide the following advantages:

- Increased animal welfare, fewer injuries to the animals, less loss and a lower death rate
- Low costs for hauliers and vehicle builders when equipment is standardised
- Farmers and slaughterhouses can organize loading better and simpler

Transport handbooks

DMRI have handbooks with construction recommendation for vehicles to transport of pigs and cattle.



Optimal construction of receipt and stunning are almost free of charge

A carefully prepared construction of loading ramp, lairage and driveways all the way to stunning at the slaughterhouse is crucial to minimize the stress that the animals experience when they are moved around in an unfamiliar environment. When the unloading facilities are examined by DMRI, only a small investment often can lead to improved animal welfare, more efficient driving to stunning and an improvement in meat quality.

Less stress and gentle treatment will:

- Improve the technological quality and shelf-life of the meat
- Result in less cut off from products
- Fewer animals with diverging pH

During a few days, DMRI can conduct a quality audit. Often, good animal welfare also improves production economy.

Animal welfare audits carried out by DMRI:

- Examination and adjustment of facilities and procedures reduced the drip loss in pork
- The amount of shock marks/bleeding from driveways were reduced
- The capacity in the driveways was adjusted to the behaviour of the animals. It also led to reductions in the workforce
- Control and adjustments of the stunning installation improved the stunning quality and reduced the CO₂ consumption
- Training of staff led to improved understanding of the treatment of pigs including limitation of injuries
- Control of sticking and debleeding resulted in less cut off from the fore end
- The audit expenses were paid back in 1 - 2 months, just by changing procedures and after 1 - 24 months by improving the construction



New methods

DMRI have developed and optimized several methods for driving and stunning, especially for pigs. Recently, DMRI have developed a system that efficiently controls the sticking of the pig at high slaughter speeds - "Visstik". A vision system controls if the amount of blood is sufficient or the sticking should be controlled. The new system ensure correct sticking at the large Danish slaughterhouses.

valid after 2012, the attention to animal welfare is increased.



Further information - "Visstik"

http://www.butina.eu/products/visstik_new/

New demands for both authorities and companies comprise:

- Management responsibility
- Training of employees involved
- Demands for methods
- Equipment and approval

DMRI aim at obtaining status as a regional competence centre within this area.

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Increased demands in the EU

DMRI are experts in implementing efficient stunning and slaughtering that complies with laws and animal welfare. In the new EU regulations

Profile

DMRI offers consultancy and innovation to the meat industry based on research regarding:

- Improvement of efficiency
- Management of product quality
- Maximal food safety

Key services

- Animal welfare – transportation, lairage and stunning
- Optimisation of byproduct handling
- Design and optimisation of chilling facilities
- Improvement of meat quality
- Improvement of food safety and hygiene
- Improvement of efficiency through automation and methods
- Optimized raw material utilisation through sorting and management
- Odour abatement
- Waste water treatment
- Reduction of water and energy consumption