

Manitou Steering Ministick **MSM**

INTERPOM Technical Innovation Awards 2024



MANITOU
GROUP

SET THE WORLD
IN MOTION





Manitou Steering Ministick (MSM) - **INTRODUCTION**

MANITOU presents at the 2024 INTERPOM show,
its new, unique and patented steering system,
dedicated to the agricultural and agro-industrial market

The **Manitou Steering Ministick - MSM**



MANITOU STEERING MINISTICK (MSM) - CUSTOMER CHALLENGE



In intensive AG loading applications, an operator performs between **3000 & 5000 steering wheel revolutions per day**. It generates fatigue and even injuries.

55% of agricultural machine operator MSDs (Musculoskeletal disorders) are related to **repetitive movements of shoulder, elbow and/or wrist**.

*Source: MSA



MANITOU STEERING MINISTICK (MSM) - SOLUTION



The **Manitou Steering Ministick (MSM)**, patented by Manitou, is the **first intelligent ministick steering system*** on a four-wheel steering telehandler.

You can now make a **complete change of direction** without using the steering wheel but **just with your thumb**.

*Not homologated for road use



MANITOU
GROUP



MSM

MANITOU
GROUP

MANITOU STEERING MINISTICK (MSM) - CUSTOMER BENEFITS



Productivity

- **15%** more productivity** on loading applications
- **productivity maintained throughout the day** (no drop in productivity linked to left arm/shoulder fatigue)

** Average productivity gain measured on a real application with Y cycle



MANITOU STEERING MINISTICK (MSM) - **BENEFICES CLIENTS**



Profitability

- output maintained throughout the day and therefore **better profitability of the equipment**



MANITOU STEERING MINISTICK (MSM) - BENEFICES CLIENTS



Safety

- **Optimized stability** through steering response proportional to **machine speed** and **boom angle**
- **100% secure** with **operator hand detection** and **ON/OFF button**



MANITOU STEERING MINISTICK (MSM) - BENEFICES CLIENTS



Ergonomics

- **ZERO operator fatigue** due to steering wheel rotations (**68% reduction in upper body muscle strain/contractions**)
- **Adapted to your needs and applications with several levels of responsiveness** (**Comfort** = precision handling/placement, **Standard** = versatile handling, **Dynamic** = bulk loading/recovery)
- **Multiple armrest and handle adjustments to suit all operators** (also compatible with some left hand disabilities)



MANITOU STEERING MINISTICK (MSM) - TARGETS

» Main targets

- » Intensive mixed crop/livestock farms
- » AG contractors
- » Methanization
- » Cooperatives
- » Compost/Recycling
- » Agro-industry

» Main applications

- » Bulk loading/rehandling
- » Feed mixer loading
- » Green waste loading/rehandling
- » Straw/hay bale handling
- » Big bags handling
- » Pallet handling
- » Cleaning



MANITOU STEERING MINISTICK (MSM) - AWARDS

1. **SPACE - France** *(September 2023)*

Manitou Steering Ministick - Innov'Space **



2. **AGRIBEX - Belgium** *(December 2023)*

Manitou Steering Ministick - Silver Ear



3. **FIMA - Spain** *(February 2024)*

Manitou Steering Ministick - Technical innovation





THANK YOU

MANITOU
GROUP

SET THE WORLD
IN MOTION

