

# 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





**MSM**





# 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

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