

## Benefits both end-users and equipment manufacturers



### SAFE

- A castor with a protected and stable structure that can endure hard use
- Locking position is easy to see
- Emergency release button
- Automatic castor locking with motion sensor (optional)
- Actuator covered and protected inside the tube
- Fulfils the standards



### ECONOMIC

- Maintenance-free castor construction
- Long lifespan
- Increased well-being and fewer sick days
- Cost savings through simple assembly
- Simpler equipment construction
- Protective film on wheel tread lasts for a long time



### EASY

- Easy and fast to use thanks to the informative and clear control panel
- Location of control panel can be freely selected
- Easy to keep clean



### FLEXIBLE

- Smart design allows innovative equipment design
- Smart attachment
- Flexible castor control and user interface



## Added value from the innovative design

Manner e-SMART allows designers to design the end product frame in a completely new way. In addition to conventional straight bars and tubes, bent tubes can be used with e-SMART.

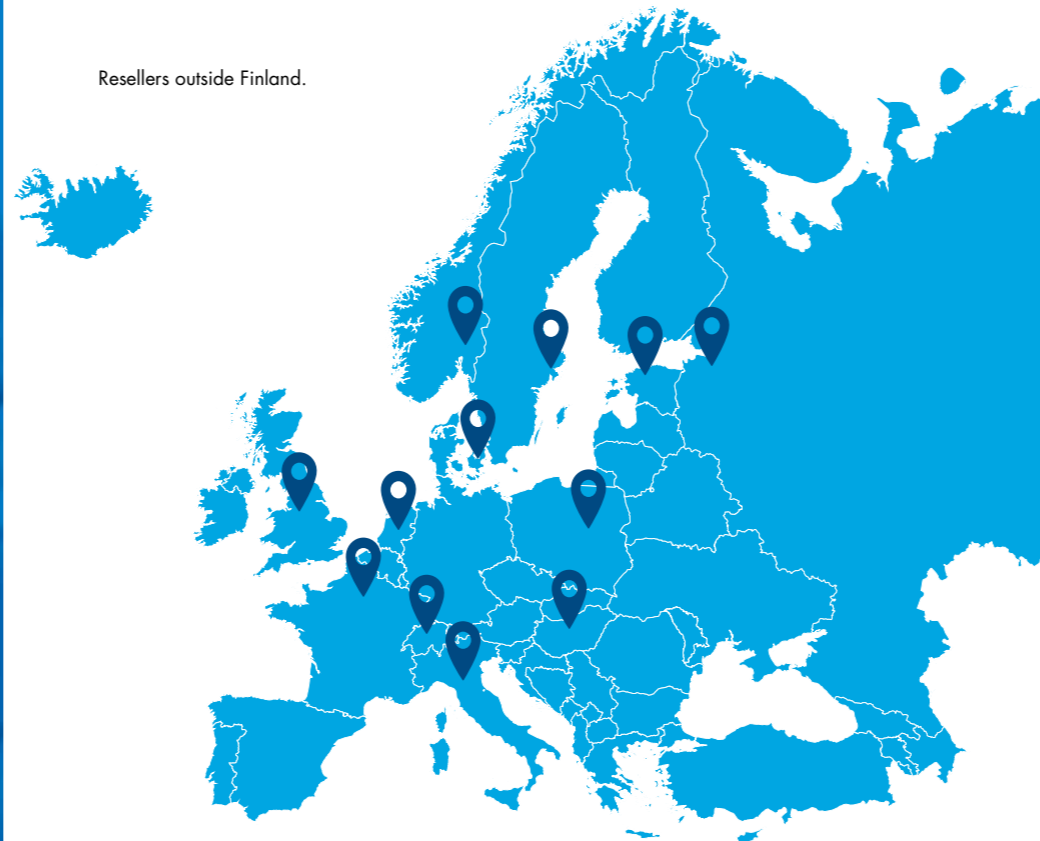
End-users appreciate the lightness and manoeuvrability of e-SMART's simple structure. The clever design also allows the nursing staff to get closer to the patient, ensuring that they can work ergonomically.

Equipment manufacturers also value the wide range of customisation options, such as colours.



reddot design award  
best of the best 2010

Resellers outside Finland.



## Manner – looking after our customers since 1890

Manner is a traditional family-owned company founded in 1890. During its history, Manner has manufactured a wide range of objects, from tin household containers to radio masts and from woodworking machines to high-pressure water tanks. Manner has produced different types of castors since the 1950s.

Even with its wide range of products, Manner has always focused on the customer and professional services. Our flexible production model allows us to fulfil customer-specific requirements, and our long experience guarantees that every product off our production line is of the highest Manner quality.



Oy Mannerin Konepaja Ab  
Tel. +358 19 222 001

P.O. Box 3, 10901 Hanko, Finland  
Email: manner@manner.fi, Internet: www.manner.fi

E-SMART SERIES

Ø 125 MM

150 KG

MEDICAL

# e-SMART

Equipment castor with a central locking system



**manner**  
SMART MOVES ON MANNER CASTORS

# Manner e-SMART – easy to install, safe and ergonomic

The e-SMART castor is ideal for hospital and rehabilitation equipment as well as other solutions where easy and reliable central locking castors are a must.

## EXAMPLES OF APPLICATIONS:

- ✓ Hospital and care beds
- ✓ Shower and treatment chairs
- ✓ Other hospital and rehabilitation equipment
- ✓ Other equipment that requires wheels with remote locking



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## The Mizuho OSI operating table solution uses e-SMART castor

Mizuho OSI is the market leader in equipment designed for specialist surgery and patient positioning. Specialist operating tables improve patient outcomes in spine and orthopaedic surgeries.

*“We were looking for an electromechanically locking castor that fitted our specification for load capacity and had a modern look at the right value. Manner has been responsive and supportive as a partner. The Manner castors were unique in that they met our requirements for payload capacity, aesthetics, electromechanical locking in both roll and swivel directions, and manual release function. In addition, the mounting is easy.”*

TELL THE ENGINEERS OF MIZUHO OSI.



“

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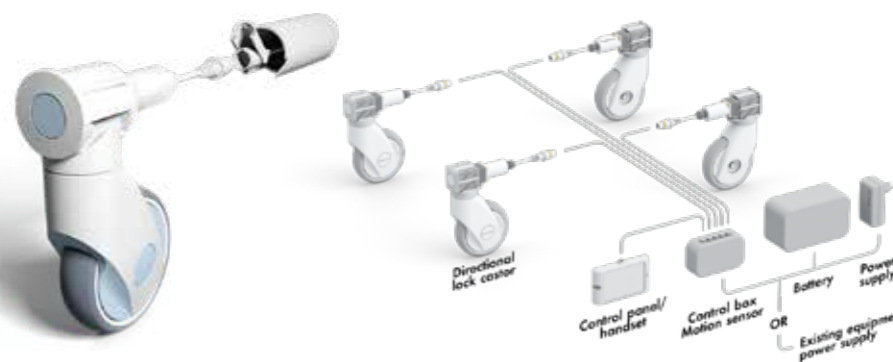
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The US-based Mizuho OSI is a wholly owned subsidiary of Mizuho Ikkogyo Co., Ltd. located in Tokyo, Japan.

## Safe and ergonomic locking system

The superior ergonomics and safety of the patented castor locking system improve and facilitate work. The locking/unlocking actuator is embedded in the wheel and connected to the control system. The wheel can be locked and released easily and ergonomically at the push of a button, and the motion sensor allows automatic locking.

The standard control systems for e-SMART castors are available with the Linak, TiMotion and Dewert systems.



## FEATURES:

- Total or directional lock (0/180°); conductive available as an option
- Housing and wheel centre glass fibre-reinforced polyamide
- Wheel tread polyurethane 80 shore A, hydrolysis resistant
- Ball bearing in swivel head and double row ball bearing in wheel
- Wheel diameter 125 mm
- Load capacity 150 kg
- Height 167 mm (round) / 172 mm (square)
- Offset 42 mm
- Standard colours – fork: light grey (RAL 7035); thread guards and cover plate: light grey

## CENTRAL LOCKING SYSTEM:

- Push button-operated, mechanical quick-release locking system
- Voltage 24 V DC
- Current consumption: 30 mA in normal use, max 250 mA
- International Protection Rating = IP66

## STANDARD FITTINGS:



50 x 50 x 2 mm (EN10219)



∅ 60.3 x 2.9 mm (EN10219)