

IRMO4
IRMO5
IRMO11
IRMOEX



Video



MACHINE DESCRIPTION

Mobile suspended double rail irrigation boom, with recoil wheel on bearings, for more smooth sliding of the hoses, less long-term wear of the components resulting in less maintenance.

The evolution in the market, experience acquired over time and attention to detail have culminated in the creation of this irrigation boom system which perfects the use of the mobile boom with a 16-metre-wide reach and excellent operational stability.

All our irrigation booms allow customised programming with inter-zone irrigation cycles: the number of steps and speed of the irrigation boom can be quickly and individually configured.

For the production cycle, this customisation results in considerable savings of time and the natural resources used, while maximising the final result.

MAIN ACCESSORIES

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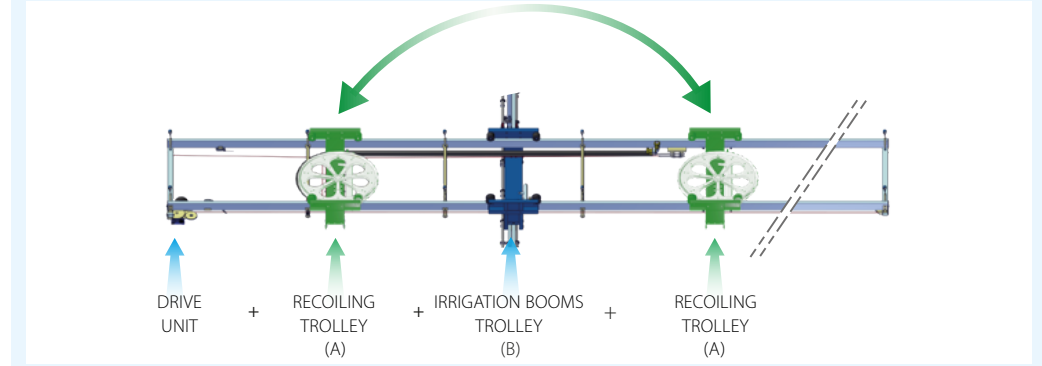
TECHNICAL DATA	M.U.	IRM04
WORKING SPEED (min-max)	m/min	2 - 16 3 - 22 4 - 30
WORKING LENGHT (max)	m	250
WORKING WIDTH (max)	m	16
DOUBLE RAIL INTERAXIS	mm	1050
WATER CONNECTION	inches	1" ¼
INSTALLED POWER	kW	0,7



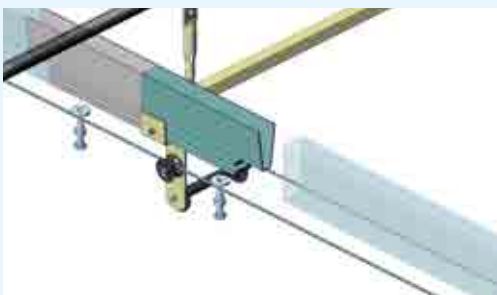
Patented recoil wheel on bearings, with water supply hose and hose for phytosanitary treatments that run on the same level.

FEATURES:

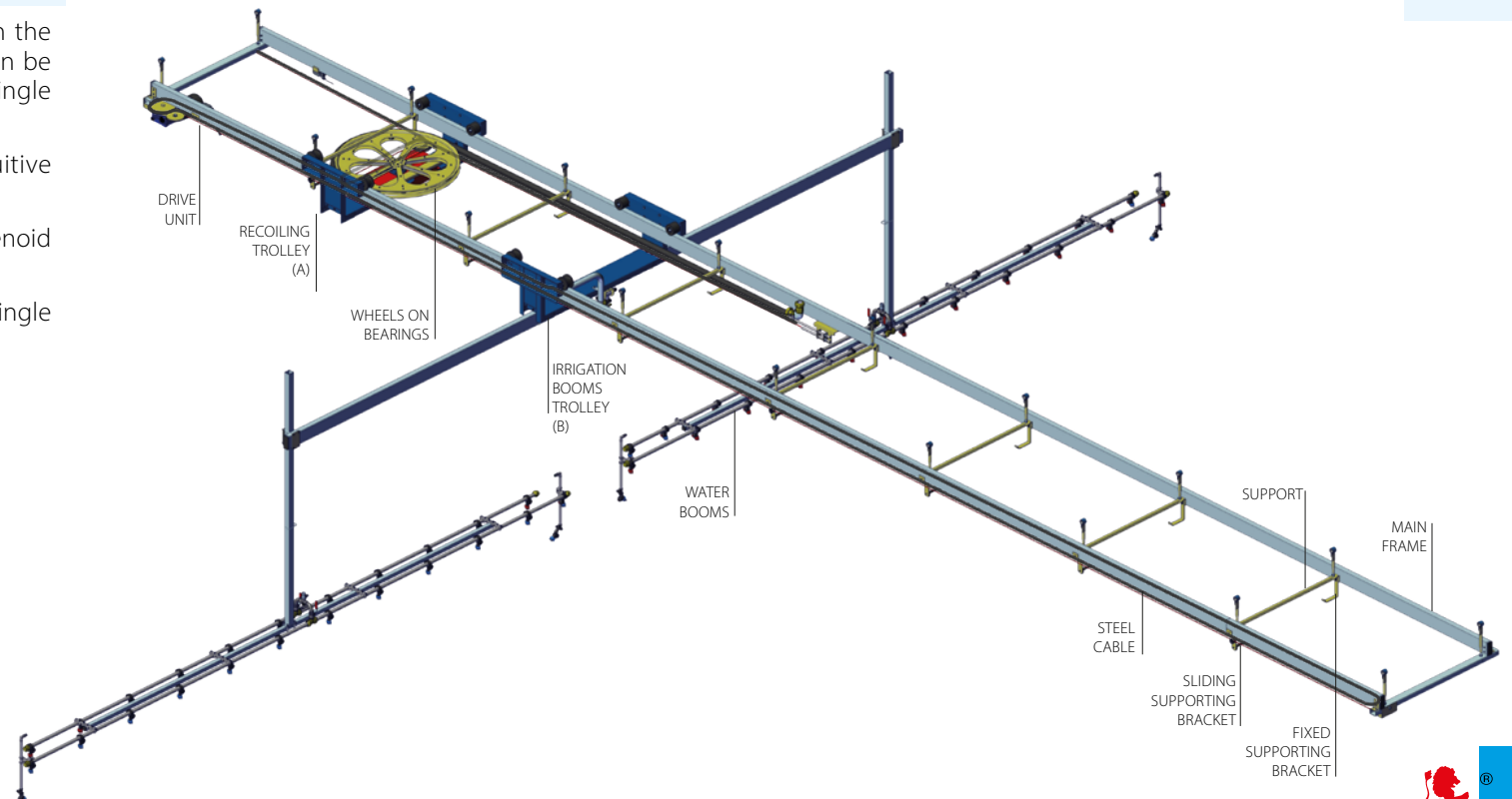
- Customisation of the inter-zone cycles, with the number of working steps and speed that can be assigned separately to each zone, all in a single cycle.
- Programming through a simple and intuitive interface.
- Optional independent control of up to 8 solenoid valves.
- Up to 240 irrigation booms controlled by a single remote control: EASY or MOD REM2 model.



Due to the particularly **symmetrical structure's shape** and the steel cable routing, it is possible to install the **recoiling trolley (A) before or after the irrigation booms trolley (B)**; this solution maximizes the irrigation area and minimizing the technical space at the far end.



The **method of assembling** the main frame makes it easy to assemble, **with practical pull-down couplings**.





IRMO5

irrigated area up to **4.000 m²/bar** - DOUBLE RAIL IRRIGATION BOOM

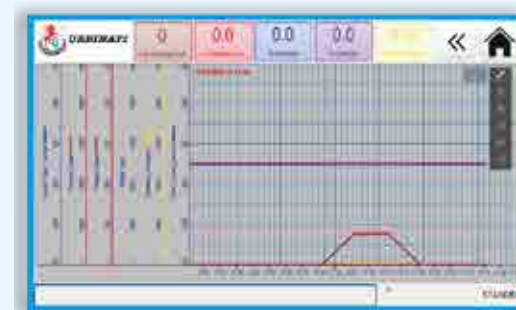


MACHINE DESCRIPTION

IRMO5 is born as the evolution of the reliable IRMO4, featuring a series of mechanical, electronic, and digital innovations designed to improve efficiency, enhance precision, and enable remote control via an app.

MECHANICAL INNOVATIONS

- Dedicated and independent zones for the water pipe, treatment pipe, and electric cable: organization and ease of maintenance (new: patent pending).
- New oversized water pipe support brackets – 200 mm in width.
- Rope encoder system for more precise reading of the carriage stroke.
- Emergency ropes on the irrigation bar for enhanced safety.
- Acoustic signaling on the bar that activates during movement.
- Customizable solenoid valve management up to 16 (vs 8 in the previous model).
- High-efficiency motor: 15% lower energy consumption at the same performance.



Intuitive user interface.



- The IRMO5 control interface via app is completely new and designed to offer maximum accessibility and operational flexibility:
- Usable on PC, smartphone, and tablet (Android and Apple)
- Real-time monitoring: data, alarms, charts, and trends
- Full remote control: adjustments to commands, zone programs, and daily or scheduled starts
- Intuitive and customizable graphical interface

OPERATOR PANEL AND REMOTE SUPPORT

- The IRMO5 irrigation boom features an improved operator panel, designed to ensure greater durability, better visibility, and enhanced usability:
- 7" high-brightness touchscreen with UV protection
- Operating range: -20/+55°C, resistant even in extreme conditions
- Simplified diagnostics: each alarm links to the relevant manual page
- Remote support for faster technical assistance

FEATURES	IRMO4	IRMO5
OPERATOR PANEL WITH TOUCH SCREEN	5"	7" UV, HIGH BRIGHTNESS
TOUCH SCREEN OPERATING RANGE	0/+50 °C	-20/+50 °C
REMOTE CONTROL	REMOTE	APP (PC, TABLET, SMARTPHONE)
REMOTE CONTROL DEVICE (OPT)	NO	YES (RUGGED TABLET OPT)
APP GRAPHICAL CUSTOMIZATION	NO	YES
ZONE IRRIGATION	MONODIRECTIONAL	BIDIRECTIONAL
MANAGEABLE SOLENOID VALVES	MAX 8	UP TO 16
ROPE STOP SYSTEM + ACOUSTIC INDICATOR	NO	YES
ENCODER	ON MOTOR	ON ROPE
PIPE SUPPORT BRACKETS	LARGH. 130 MM	LARGH. 200 MM
HIGH-EFFICIENCY MOTOR	NO	YES (-15% CONSUMPTION)
DIAGNOSTICS AND SUPPORT	NO	YES
MONITORING AND DATA LOGGING	NO	YES
INTEGRATION WITH EXTERNAL SYSTEMS (OPCUA)	NO	YES



MACHINE DESCRIPTION

Suspended mobile single rail irrigation boom, featuring a trolley with a boom running on eight wheels with ball bearings, for more smooth sliding of the hoses, less long-term wear of the components resulting in less maintenance.

The irrigation boom reaches 10 meters wide, with excellent operational stability.

All our irrigation booms allow customised programming with inter-zone irrigation cycles: the number of steps and speed of the irrigation boom can be quickly and individually configured.

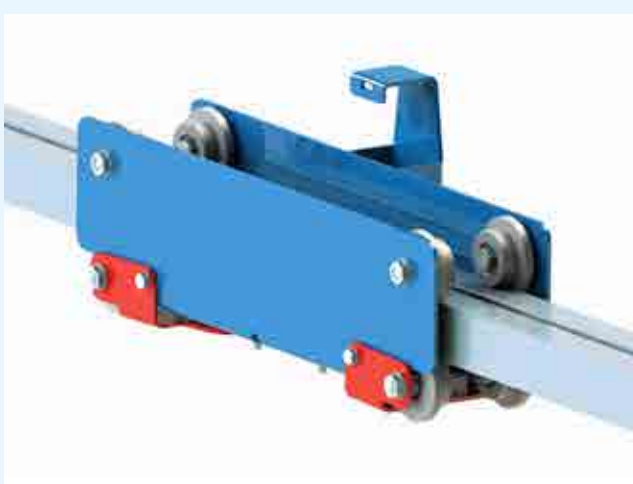
For the production cycle, this customisation results in considerable savings of time and the natural resources used, while maximising the final result.

MAIN ACCESSORIES

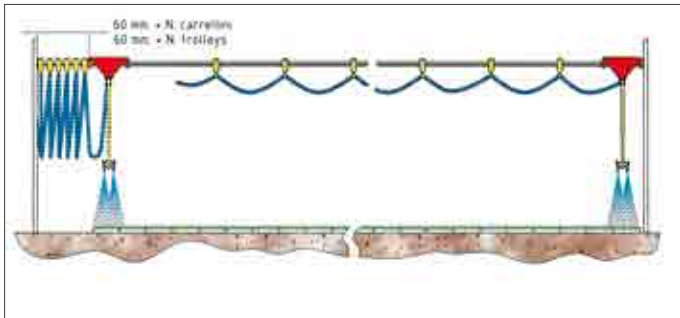
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TECHNICAL DATA	M.U.	IRMO11
WORKING SPEED (min-max)	m/min	2 - 16
WORKING LENGHT (max)	m	150
WORKING WIDTH (max)	m	10
DIMENSIONS OF GALVANIZED RAIL PROFILE	mm	53x85
WATER CONNECTION	inches	1"
INSTALLED POWER	kW	0,5

The stability of the boom is performed by the **eight wheels with bearings inside the trolley** that runs on a galvanized rectangular profile.

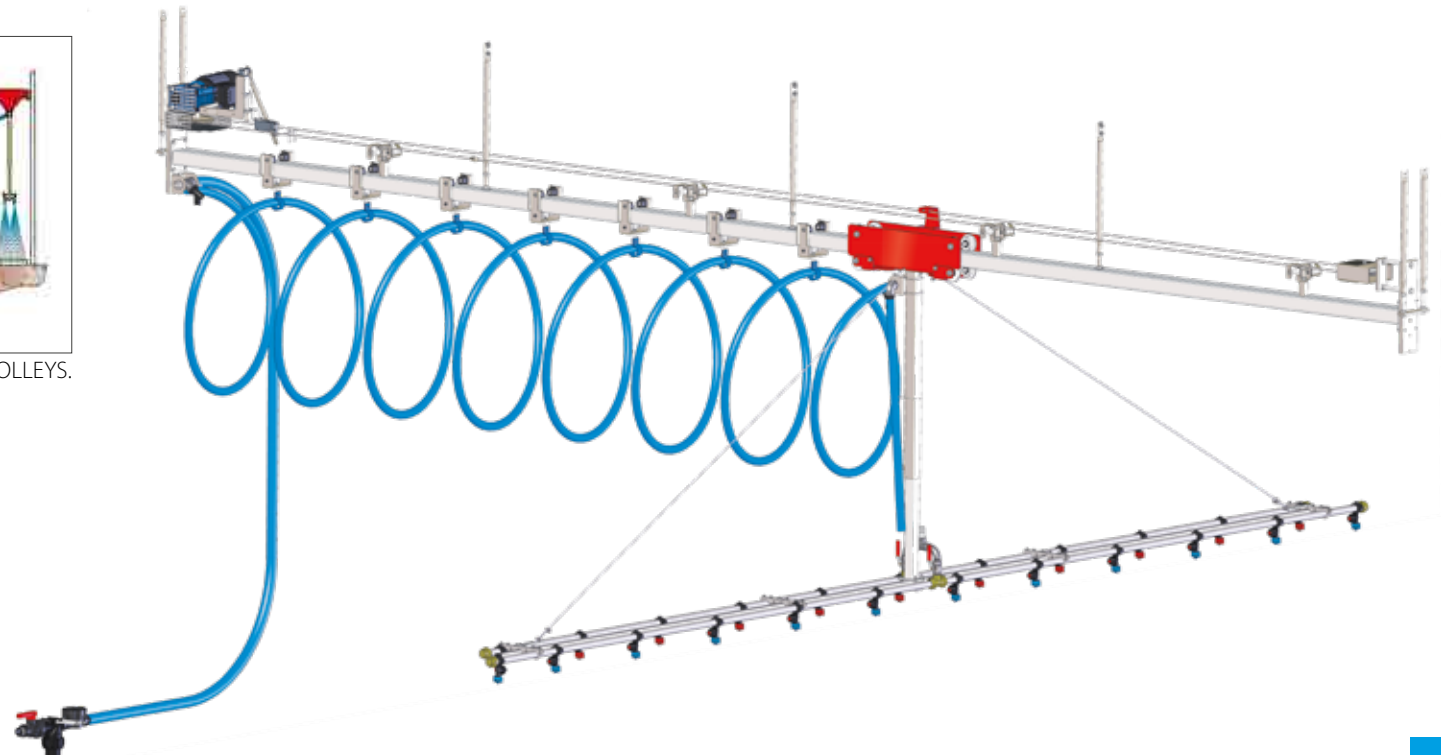


- Bar moving with iron cable.
- Nozzles bar with single or double nozzle row mounted on stainless hose.
- Water supply system by hose holding trolley with double wheels, thickness 45 mm.
- Telescopic nozzles bar support for height adjustment.
- Modular system assembly, suitable for every kind of structure.



SUSPENDED HOSE WITH TROLLEYS.

Water distribution group 1":
ball selector valve,
net filter and
solenoid valve.





Video



MACHINE DESCRIPTION

Outdoor suspended irrigation boom with double rail system, with recoil wheel on bearings, for more smooth sliding of the hoses, less long-term wear of the components resulting in less maintenance.

The reliability and precision of indoor irrigation booms is also applied to outdoor areas: thanks to the IRMOEX irrigation system, nursery crops that need to be developed outdoors can benefit from the technology of irrigation booms that are traditionally used in greenhouses.

35-metre extension width with excellent operational stability. The central support frame can feature a single or double pole.

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For the production cycle, this customisation results in considerable savings of time and the natural resources used, while maximising the final result.

MAIN ACCESSORIES

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TECHNICAL DATA	M.U.	IRMOEX
WORKING SPEED (min-max)	m/min	2 - 12
WORKING LENGHT (max)	m	300
WORKING WIDTH (max)	m	35
WATER CONNECTION	inches	1" ½
INSTALLED POWER	kW	1
DOUBLE RAIL INTERAXIS	mm	1390
POST INTERAXIS (max)	m	3 - 4



DETAILS



Outdoor system with **double poles**.

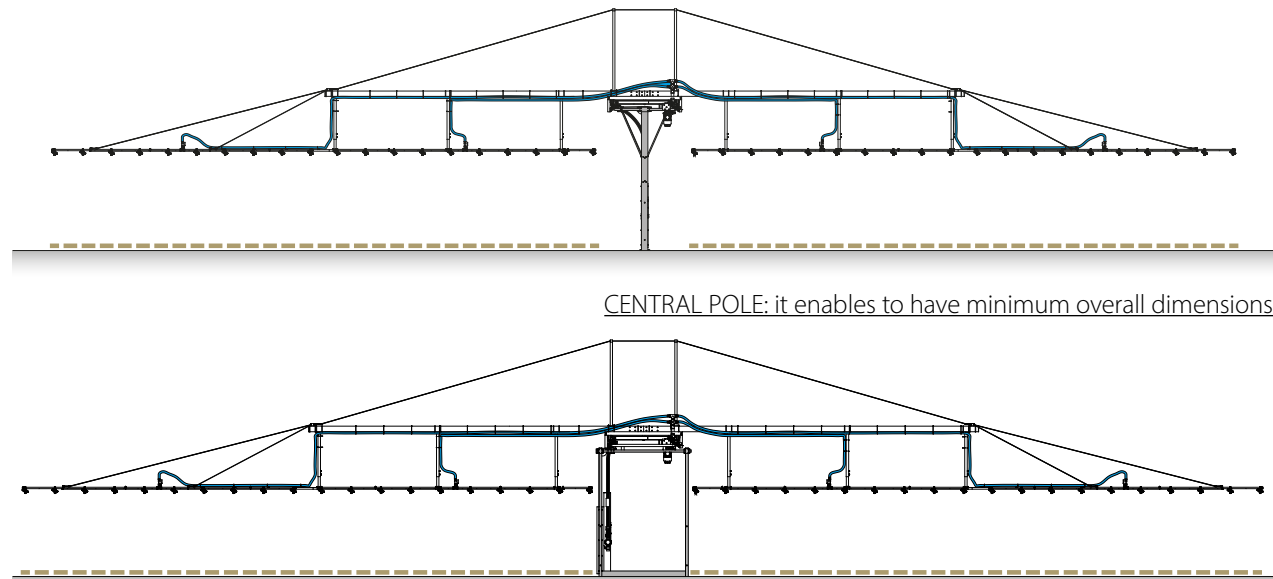


Outdoor system with **single central pole**.

TECHNICAL SPECIFICATIONS

- Trolley with wheels mounted on bearings.
- Boom movement with iron cable.
- Nozzles bar with single, double or triple row mounted on stainless steel hose.
- Recoiling suspended hose with automatic tensioner.
- Support structure with single or double system post.

Patented recoil wheel on bearings, with **recirculating suspended tube** carriage: the suspended system **solves the problems** of handling the tube on the ground, preventing it from getting tangled.



CENTRAL POLE: it enables to have minimum overall dimensions.

DOUBLE POLE: it enables to have a central path for the trolleys passage.



MAIN ACCESSORIES

IRRIGATION

These are **some of the accessories** available for our **irrigation boom**.
Our **engineering dept.** is at your disposal **to suggest** the best solutions for your needs.



Independent nozzle complete with valve **for side irrigation**.



Independent articulated nozzle complete with valve **for side irrigation**.



Independent articulated nozzle with stainless steel extension, height adjustable, complete with valve **for side irrigation**.



Double water-feeding group, ball valve, net filter and solenoid valve.



Water distribution group with ball valves for side nozzles and pressure regulator.

- Drilled **hose**.
- **Biget** nozzles.
- **Triget** nozzles.
- Removable bar for **treatments**.
- Control up to **n. 8 solenoid valves**.
- **Second treatment** hose.
- **Overturning of irrigation bar** with and without winch, **for the passage of operating machines** in the greenhouse.
- **Height adjustment bar** with rack.
- **Water distribution group** with control from the corridor.



Proportional dosing unit directly assembled on the irrigation boom.



High pressure pump with trolley **for phitosanitary treatments** with returning of the liquid used.

The **control system** offers the operator **many program combinations** to **water and/or spray** crops.

CONTROL PANEL

IRRIGATION



REMOTE CONTROLS

All our irrigation booms can be operated by remote control, available in two models: **EASY**, with basic functions, and **MOD-REM2**, for complete system management.

They are **radio transmission devices** that receive and transmit in real time with an **operating range of 250 m**, offering the operator maximum freedom of movement. Simple to use, they can **control up to 240 irrigation booms**.

In particular, the **MOD-REM2** can display **all the control panel information and controls** on the screen. When combined with the **TOUCH3** panel, it manages all the functions available.



Painted control panel made from 430 stainless steel with **touch-screen display**. It can be controlled remotely with a PC (via RS 485 connection).

(IRMO4, IRMOEX)

MAIN FUNCTIONS

MOD.2 CARD:

- it manages **up to 4 solenoid valves**, independently from each other;
- adjusts the **waterboom's speed**;
- **irrigation direction** control;
- **pre-discharge** programming;
- programming of **number of cycles and cycle interval**;
- programming: **up to 40 daily starts**.



TOUCH.3 CARD:

- it manages **up to 8 solenoid valves**, independently from each other;
- adjusts the **waterboom's speed**;
- **irrigation direction** control;
- **pre-discharge** programming;
- programming of **number of cycles and cycle interval**;
- hourly programming: **up to 40 daily starts**;
- **smart zone programming**, with speed control and storage of up to **20 customised programs**.



REMOTE CONTROLS:

- **EASY**: manages **up to 2 solenoid valves**;
- **MOD-REM2**: manages **up to 8 solenoid valves**.

