

# Iromat II FLAT

IROMAT – Series



Applications in:  
**agriculture – forestry – industry**

- Agriculture areas, up to approx. 50 ha
- Vegetable cultivation | Special crops
- Environment protection (dust suppression etc.)
- Wastewater irrigation

Available with the following PE pipe sizes:

- max. 550 m special PE-pipe Ø 100 x 11-9,0-7,4 mm
- max. 500 m special PE-pipe Ø 110 x 10-8,2 mm
- max. 370 m special PE-pipe Ø 120 x 9,0 mm

## Dimensions

Parameter	Unit	Value
Length <sup>1)</sup>	mm	5.350
Width <sup>2)</sup>	mm	2.700 (3.000)
Height	mm	3.700
Track	mm	2.000
Empty weight <sup>1), 3)</sup>	kg	2.680
Ground clearance	mm	370
Tires		15.0 / 55 - 17 AW, 14PR

1) Without sprinkler skid, 2) Depending on the equipment of the machine, 3) Without PE-pipe

## Weights

Parameter	Unit	Water	Value
PE-Pipe Ø 100 mm x 550 m	kg	without	1.267
	kg	with	4.317
PE-Pipe Ø 110 mm x 500 m	kg	without	1.409
	kg	with	4.746
PE-Pipe Ø 120 mm x 370 m	kg	without	1.155
	kg	with	4.180

## Sprinkler

Parameter	Unit	TWIN 140 ULTRA				
Nozzle diameter	mm	18	20	22	24	26
Nozzle pressure	bar	3,0				
Water consumption	m <sup>3</sup> /h	21,4	26,5	31,9	38,0	44,9
Throw range(WW)	m	37,6	39,7	40,8	41,8	42,1
Effective irrigation width <sup>4)</sup>	m	63,9	67,5	69,4	71,1	71,6
Nozzle pressure	bar	4,0				
Water consumption	m <sup>3</sup> /h	24,7	30,7	36,9	43,9	51,8
Throw range(WW)	m	37,7	41,8	43,8	45,7	47,8
Effective irrigation width <sup>4)</sup>	m	67,5	71,0	74,5	77,7	81,2
Nozzle pressure	bar	5,0				
Water consumption	m <sup>3</sup> /h	27,6	34,3	41,2	49,1	58,0
Throw range(WW)	m	42,6	45,1	47,3	49,5	52,1
Effective irrigation width <sup>4)</sup>	m	72,4	76,7	80,4	84,2	88,6

4) Effective irrigation width = 2xWW-15% for overlapping and loss due to wind

## Standard equipment

- Chassis, single-axle with wide tires 15.0 / 55-17 AW
- Fixed track width of 2.000 mm
- Agriculture-rail
- Special gearbox (4 gears) with adjustable band brake
- Full casing
- P.T.O shaft fast rewind

- 🔧 Hydraulic support legs at the back
- 🔧 Return stop at the pipe drum
- 🔧 Mechanical safety shut-down against winding faults
- 🔧 Fully galvanized water inlet on both sides (depending on the choice of shutdown)
- 🔧 Low pressure - and total shut-down
- 🔧 Electronic speed control with pinion sensor
- 🔧 3-wheel sprinkler trolley, with automatic lifting at the end of irrigation
- 🔧 Large-area sprinkler TWIN 140 ULTRA

## Special equipment

- 🔧 Compressed air brake system incl. operating licence acc. to Road Traffic Act (StVZO)
- 🔧 Lockable turntable
- 🔧 Hydraulic drive for turntable
- 🔧 Pipe guidance device (mechanical or fully hydraulic)
- 🔧 Lighting installation
- 🔧 Solar panel for battery recharging
- 🔧 Additional sprinkler for close range (electronically controlled)
- 🔧 GSM control unit
- 🔧 Water meter DN 80 non-calibrated or calibrated (on request)
- 🔧 Supply hose DN 90, 8m, 89 female/male
- 🔧 Discharge hose DN 90, 5m, 89 female
- 🔧 Supply hose reel for 12m flat hose DN 90
- 🔧 Large-area sprinkler at choice
- 🔧 Various, application-related sprinkler trolleys

## Operating principle

HÜDIG has set standards in the development of irrigation machines. For over 100 years now, experience from agricultural irrigation has been used to develop and improve our products.

With the help of a low-maintenance, flanged gear-turbine unit and a drive sprocket bolted to the reel, the PE pipe is pulled in safely even under the highest loads. The feed speed is controlled and monitored by the HÜDIG-Control electronic feed control and a pinion sensor mounted on the gearbox.

## Equipment



### Automatic sprinkler trolley lifting

At the end of the irrigation cycle, the sprinkler wagon automatically lifting (the energy is taken from the water volume flow required for irrigation). The rear support legs are retracted manually via the oil hydraulics after irrigation is complete. This convenience reduces set-up times to a minimum.



### Central control unit

All essential control elements, the HÜDIG-Control electronic feed control and the drive unit are combined in the control center behind a large, lockable cover. The individual elements are clearly arranged and easily accessible. The drive unit is a free-flow turbine with a directly adapted gearbox. This combination is characterized by good efficiency. Overall, this arrangement impresses with good operating comfort and a high degree of easy maintenance.

The HC 2.009 electronic intake control ensures uniform irrigation intensity. Pre- and post-irrigation according to the conditions can be set intuitively from 1 - max. 250 minutes. Depending on the water supply conditions, draw-in speeds of 5 - 200 m/h are possible. Furthermore, many additional options (e.g. close-range sprinklers etc.) or various draw-in parameters (e.g. start/stop time) can be controlled using HÜDIGControl.



### Single-axle chassis with wide tires

The Iromat II FLAT is equipped as standard with a single-axle chassis with a fixed track width of 2.000 mm. The 15.0 / 55-17 AW wide tires included in the standard scope of delivery ensure optimum load-bearing capacity of the machine even in wet conditions. An optionally available air brake system including TÜV certificate for obtaining an operating license in accordance with StVZO ensures safe participation in road traffic. An agricultural rail is provided as a connecting device.



### Sprinkler trolley

The 3-wheel sprinkler trolley developed by HÜDIG has exceptional directional stability even on uneven terrain. A robust and wear-free level compensation system prevents the large-area sprinkler from dipping at the end of the irrigation process. A convenient, central pulling device is available for pulling out the hose in the tractor track with a narrow agriculture rail. For tall crops, e.g. maize, a maize sprinkler trolley can be used as an option.

For particularly heavy-duty applications, a 5-wheel sprinkler trolley with integrated tandem swing axle can also be used.

## Dimensions

