

Issue 10/17	Technical Data
HÜDIG Irrigation Machine	
Type Iromat I - TANDEM-FLEX	

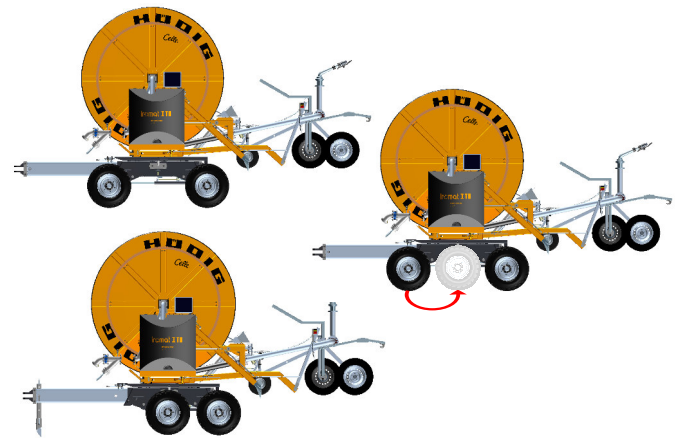
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Advantage of the TANDEM - FLEX chassis: crop-gentle and time-saving machine positioning while maintaining convenient road transportation via tandem axle

Design:

- Optional:

max. 440 m special PE pipe 90 x 6,7 mm
max. 400 m special PE pipe 100 x 7,4 mm
max. 300 m special PE pipe 110 x 8,2 mm
- 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
- Low pressure - and total shut-down
- Fully galvanized water inlet
- Tandem axle chassis for road transport
 - Hydraulical adjustment of the axles to achieve a large wheelbase
 - Movable drawbar for machine coupling on both sides
 - Adjustable for 2 tracks: 1.800 and 2.000 mm
 - Lockable turntable, pipe drum hydraulically turnable by 360°
 - Full hydraulic machine positioning via movable control panel
 - Mechanical support leg at the front
- Electronic speed control with pinion sensor,
 - Pre- and after irrigation 0-99 min
 - Different speeds 5-200 m/h (depending on water conditions) for each irrigation cycle possible
 - Display of irrigation time
 - Simple programming
- Sprinkler skid, with automatic lifting
- Large-area sprinkler TWIN 101 ULTRA



Data and dimensions:

Length ¹⁾ mm	Width mm	Height mm	Track mm	Weight without PE pipe
5.477	2.690	3.700	1.800 / 2.000	2.540 kg
Ground clearance mm			Tires	
530			260/70-15.3 AW 14PR	

PE pipe (mm)	Weight (kg/m)	Weight of PE pipe (kg)
Ø 90x6,7	1,78 without water	at 440 m length = 783
	6,39 with water	at 400 m length = 2.811
Ø 100x7,4	2,19 without water	at 400 m length = 874
	7,89 with water	at 400 m length = 3.155
Ø 110x8,2	2,66 without water	at 300 m length = 799
	9,54 with water	at 300 m length = 2.863

Optional equipment:

- Large-area sprinkler at choice
- Pipe guidance device (mechanical)
- Supply hose DN 90, 8 m, 89 female/male, Discharge hose DN 90, 5 m, 90 female
- Water meter DN 80 non-calibrated or calibrated (on request)
- Lighting installation
- Solar panel for battery recharging
- GSM control unit
- Additional sprinkler for close range (electronically controlled)
- Wide tires

Applications:

- Agricultural areas, approx. 34 ha
- Vegetable cultivation
- Special crops

Sprinkler type	Unit	TWIN 101 ULTRA					
		14	16	18	20	22	24
Nozzle diameter	mm						
Nozzle pressure	bar	3,0					
Water consumption	m³/h	13,0	16,9	21,4	26,5	31,9	38,0
Sprinkler throw range (WW)	m	31,6	33,7	35,9	38,2	39,1	39,9
Irrigated area ²⁾	m	53,7	57,3	61,0	65,0	66,5	67,8
Nozzle pressure	bar	4,0					
Water consumption	m³/h	15,1	19,5	24,7	30,7	36,9	43,9
Sprinkler throw range (WW)	m	35,1	37,3	39,9	42,5	44,2	45,8
Irrigated area ²⁾	m	59,7	63,4	67,8	72,3	75,1	77,9
Nozzle pressure	bar	5,0					
Water consumption	m³/h	16,8	21,8	27,6	34,3	41,2	49,1
Sprinkler throw range (WW)	m	37,3	39,8	42,5	45,2	47,3	49,3
Irrigated area ²⁾	m	63,4	67,7	72,3	76,8	80,4	83,8

¹⁾ Length without sprinkler skid
²⁾ Usable irrigated area = 2 x WW -15% for overlapping and loss due to wind

Subject to technical modifications and changes in scope of supply!

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