

# ***irrifrance***

## The optimal solution

Product Catalog



[www.irrifrance.com](http://www.irrifrance.com)

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Water is the source of life on our planet and ensure the existence of mankind is vital. In the 19 th century coal was the strategic raw material, in the 20 th century it was oil and in the 21 st century it is definitively water.

Water will be the determining factor of sustainable development.

It is worth while noting that water resources per person are not uniformly distributed throughout the world. Hence in many countries, research, proper use and management of water is mandatory.

Some of these countries are major agricultural producers.

Modern irrigation systems can save some 45 % in consumption of water compared to traditional irrigation methods. Also in many countries with limited water resources the population is expected to grow. Hence development of irrigation is vital.

Irrifrance wants to participate in the development of irrigation globally making use of the companies new technologies and know how in the development and manufacturing of leading edge irrigation equipment.

Irrifrance was founded in 1967. In 1970 Irrifrance invented the hose reel machine a solution which has largely contributed to the development of agricultural irrigation. Today there are over 100 000 Irrifrance hose reel machines in use in over 80 countries.

With that score Irrifrance has become the biggest producer of hose reel machines in the world Irrifrance develops, manufactures and installs irrigation systems of highest quality and provides thorough technical after sales training to its partners. Thanks to you, farmers, Irrifrance has become one of the top manufacturer and is a global leader in the implementation of modern irrigation : formerly known as drip irrigation, now Micro and Macro DRIPLI®, solid set, pivots and lateral moves...

We are proud and we will continue this progress with an active involvement in making the future better.

A handwritten signature in blue ink, consisting of a large, stylized 'O' followed by several loops and a long horizontal stroke extending to the left.

Docteur Osmane Aïdi,  
The Chairman  
of the Board of Irrifrance





# IRRIFRANCE



The optimal solution

## A French company with a worldwide notoriety

- A comprehensive range of products: reel machines, pivots and lateral moves, solid set systems, localized irrigation (with DRIPLI® Micro and Macro system) ... to meet the variety of plots to irrigate, the diversity of crops, vegetable, trees ... in all geographies
- Developed in its own design office
- Innovative and up-to-date technology : Irridoseur, Irricontrol, automatic drive and control machines, remote systems by mobile phone or Internet
- Automated production resources: laser cutting, robot welding, extrusion of polyethylene from virgin resin...
- An integrated production up to polyethylene pipes
- A world-renowned product quality: ergonomics, robustness...
- A optimized location for international development

## Our mission

At each irrigation project is a unique optimal technical solution. The expertise and the complete range of Irrifrance products on the different technologies make it the best partner in the agricultural sector.

Irrifrance aims to support the development of the agricultural sector by providing optimized solutions for modern irrigation with

- A complete range of all modern irrigation solution
- A true expertise for studies and projects
- Research and innovation capabilities, tailor-made proposals
- An integrated production
- Customer services: support, training (certified department), personalized programs
- A network of expertises: suppliers, distributors, installers...



# CONTINUING INNOVATION IN IRRIGATION



An innovating conception recognized and awarded over all big events :

Gold medal to SIMA AWARDS - Paris

Gold medal at Smithfield Show – Great Britain

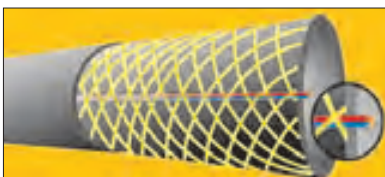
Gold medal at Agritechnica – Netherlands



## 2003 : The system DRIPLI®

DRIPLI ® System is the culmination of a drip irrigation system very simple providing high accuracy and excellent reliability.

The design of large diameter nozzles calibrated allows the use of a simple filtration and eliminates the risk of clogging, even in salt water or limestone



## 2005 : The POLYMAIL®

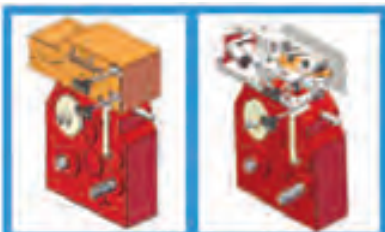
The Polymail® system :

Polyethylene tube reinforced with integrated cable for remote control of irrigation guns.



## 2009 : IMS

Irrifrance designed the IMS (Irrigation Management System) system that manages the Internet together and simultaneously with all irrigation systems (reels machines, pivots, lateral moves, and even solid set systems) by making available to all users the most advanced technologies. IMS adds a monitoring function and possibility of remote intervention that provides the user comfort and safety of use of the IMS. Irrifrance, using Internet and GSM capabilities, allows irrigation to enter in a new era.



## 2010 : The AUTOSTART

Easy starting irrigation kit, at the pressurization time without having to return to the reel machine after hose run.

This option provides a significant improvement for day-to-day operations.



## 2011 : The I-ROTOR®

The I-ROTOR: A new electric sprinkler for pivots and lateral moves. This sprinkler is provided with a rotary micro-electric motor, leaving the full pressure available in the original scope of the jet, thus increasing it significantly. The purpose is to ensure optimal rainfall at the end of the pivots and lateral ramps decreasing the maximum instantaneous rainfall, eliminating the risk of damage and clogging by soil compaction, runoff and controlling the intensity of water supply.





# NETWORK SKILLS FOR AGRICULTURE NEEDS



The Irrifrance dealers network in France and abroad has been carefully selected for the quality of its services.

Irrifrance team accompanies you through its distribution network in each stage of the implementation or use of irrigation equipment by providing a platform of services to its partners:

## Customer Service

A dedicated customer service responds to requests for support of our partners with expertise in each product line.

Your feed-back is also used to constantly improve our equipment directly linked to our research department. The technical instructions are provided to our partners to bring you the best support.

### Guarantees :

A personalized kit for each guarantee is provided through the after sales service to Irrifrance and distributor. Site visits of Irrifrance's technical team are possible to support our network to provide the expertise and find the best solution.

### Repairs :

Electronic repair shops are on Paulhan site, we also do reparation on the demand of our partners on-site. Equipment repairs are handled directly by our distribution network.

### Training Centre :

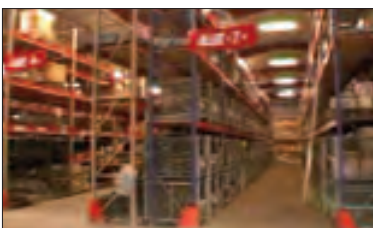
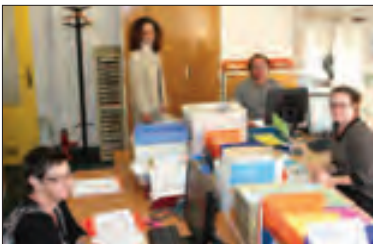
Irrifrance has developed an accredited training centre bound for its distribution network. Two training courses : beginners and advanced are issued, the schedule of sessions is available on request.

### Spare parts :

Irrifrance is the only manufacturer in the market to track parts throughout its products. It is a guarantee of durability for your investment; it is also the insurance of service quality monitoring. The stock, production and selection of spare parts are managed on the site, a dedicated team providing support to our partners for a continuity of use of irrigation equipment.

### Design and development:

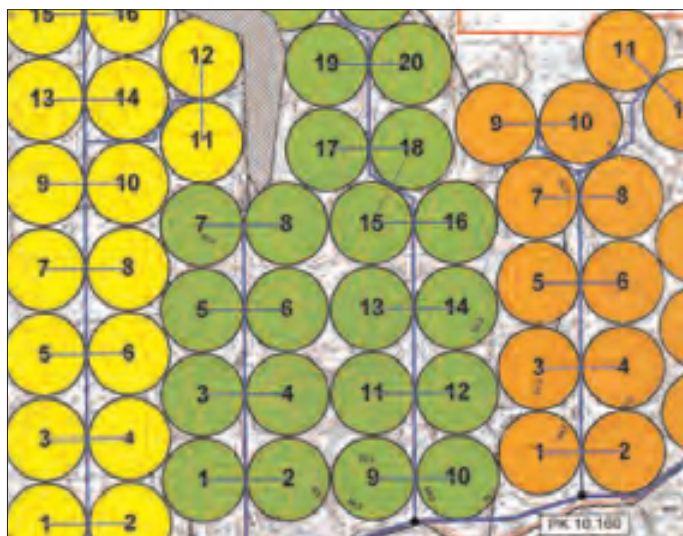
Studies and Projects Department provides support to requests from the distribution network Irrifrance. To support marketing campaigns and communication of its distribution network, Irrifrance also created a development department.



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Want to know the details of the dealer nearest you,  
visit the website [www.irrifrance.com](http://www.irrifrance.com),  
your application will be processed promptly.

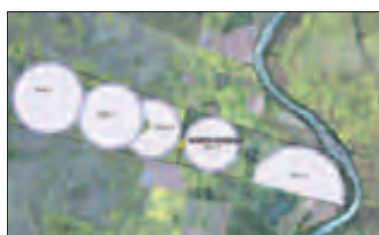
# TECHNIQUES AND LABOR FOR WATER SAVINGS



Project Location



Electric and water supply map



Proposal 1



Proposal 2



## Project Department

Each irrigation project requires a preliminary study and accurate assessment of a set of parameters:

- Type of crop to be irrigated
- Type of Soil (sandy, clayey or silty)
- Climate, required daily rainfall
- Flow (m<sup>3</sup>/ h) available on your project
- Area
- Elevation
- Water : Availability and specifications: type of supply... and cost
- Energy : Availability and cost
- Labor : Availability, cost and training
- Installation budget
- Operation budget
- Local regulations.

This preliminary study leads to an optimal solution which is unique.

Irrifrance makes the study and delivers personalized advice through to master all the technologies of modern irrigation.

## Our vocation

- Build the optimized solution
- Irrigation solution sizing (pumps, pipes and irrigation system),
- Project assessment and assistance in financial engineering,
- Product training of local service providers and users
- Project monitoring assistance with fitting support.

With a range of products based on global experience,  
Irrifrance can provide the technical solution  
that best fits your project:  
Call the Studies and Projects Department at + 33 (0) 4 67 25 79 14.







# REEL MACHINES

# IRRIFRANCE REEL MACHINE RANGE



## MICRO 44-50

ø 44 - 120 m  
ø 50 - 110 m



## SUPER MINI

ø 63 - 280 m  
ø 70 - 200 m



## OPTIMA 1036 simple axle or boggie

ø 100 - 550 m ø 120 - 400 m  
ø 100 - 600 m ø 120 - 420 m  
ø 110 - 450 m ø 125 - 385 m  
ø 110 - 500 m ø 125 - 400 m  
ø 110 - 510 m ø 125 - 410 m  
ø 110 - 530 m ø 135 - 370 m  
ø 110 - 550 m ø 135 - 390 m  
ø 110 - 570 m



## OPTIMA 1005 - 1010

ø 75 - 300 m ø 75 - 380 m  
ø 82 - 260 m ø 82 - 300 m  
ø 90 - 270 m



## OPTIMA 1045 - 1055 boggie

ø 110 - 560 m ø 110 - 650 m  
ø 120 - 460 m ø 120 - 620 m  
ø 120 - 520 m ø 125 - 600 m  
ø 125 - 440 m  
ø 125 - 500 m



## OPTIMA 1015 - 1020

ø 75 - 400 m ø 82 - 420 m  
ø 82 - 350 m ø 90 - 400 m  
ø 82 - 370 m ø 90 - 450 m  
ø 90 - 340 m ø 100 - 330 m  
ø 100 - 260 m ø 100 - 370 m  
ø 100 - 410 m  
ø 110 - 340 m



## 1040 VPS - 1040 BIS VPS

ø 100 - 500 m ø 100 - 450 m  
ø 100 - 550 m ø 110 - 530 m  
ø 110 - 400 m ø 120 - 410 m  
ø 120 - 360 m ø 125 - 400 m  
ø 125 - 350 m

## BELLOWS S1, S 2, S 2 bis

ø 63 - 340 m ø 90 - 450 m  
ø 70 - 310 m ø 90 - 450 m  
ø 75 - 310 m ø 100 - 360 m  
ø 75 - 380 m ø 100 - 400 m  
ø 82 - 290 m ø 110 - 380 m  
ø 90 - 265 m  
ø 82 - 360 m  
ø 90 - 300 m  
ø 100 - 280 m



## 1050 VPS - 1055 VPS

ø 110 - 560 m ø 110 - 650 m  
ø 110 - 600 m ø 120 - 620 m  
ø 120 - 520 m ø 125 - 600 m  
ø 125 - 500 m



## OPTIMA 1026 - 1031 simple axle or boggie

ø 90 - 500 m ø 100 - 500 m  
ø 100 - 400 m ø 110 - 400 m  
ø 100 - 450 m ø 120 - 380 m  
ø 110 - 370 m ø 125 - 350 m



## 2061 - 2076

ø 135 - 550 m ø 125 - 600 m  
ø 135 - 600 m ø 125 - 670 m  
ø 125 - 730 m  
ø 125 - 750 m



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# IRRIFRANCE TROLLEY RANGE



**SUPER MINI**



**OPTIMA 1005-1010 Pendular**



**Wheel keet  
(ref T40152)**

**Ski kit (ref P20230)**



**Trolley OPTIMA serie  
Fixed way 1,75m (ref C56881)**



**High trolley with adjustable track  
(ref B45541)**



**Offset high trolley\* (F36345)  
Offset and central (K60315)**



**Ski kit (ref ref S44130)**

**Wheel kee (ref T40152)**



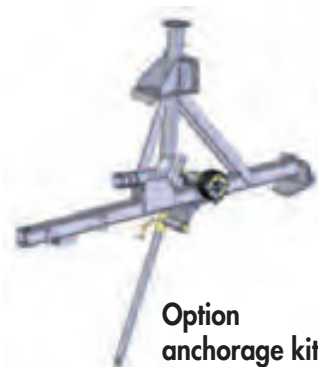
**Standard trolley 2008**



**Offset trolley 2008\***



**Option kit trolley  
guide 2008**



**Option  
anchorage kit**



**Trolley VPS Standard**



**Trolley VPS Offset\***



**Option kit trolley VPS**



\* Gun centring kit for offset trolley in option



# THE OPTIMA RANGE



**Du Ø 63 to Ø 135**

**De 225 m to 750 m**

1005  
1010  
1015  
1020  
1026  
1031  
1036  
1045  
1055



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## Optima range at a glance

### Automatic lifting of the trolley

- A lifting device adaptable to all field conditions.
- 100% hot dip galvanized steel trolley, articulated to prevent crop washing damages\*.
- Equipped with skid or wheel kit.
- Various configurations available to meet your requirements : offset, central, high, low.
- Constant rain-gun angle for any gradient.

### Turbine - performance and versatility

- Cast iron on all models except 1045 and 1055 in aluminium.
- Wide cross section, low-pressure loss.
- Wide range of flow rates, very high torque.

### Transmission

- Various speed gearbox suiting light to heavy applications.
- Automatic unwinding brake.
- Tractor PTO rewind.

### Winding safety

- Front back drum sensor for a better protection of the PE tube.

### Stabilisers

- 100% hot dip galvanised.
- Mechanical pinion drive or hydraulic drive according to the model

### Safety

- Designed distribution of loading pressure for a maximum stability,
- Low centre of gravity,
- Mechanical control of the automatic clutch,
- Long reach stabiliser legs for maximum ground anchorage.

### "V" Profile chassis

- High mechanical strength,
- Height adjustable towing eye (except on 1000 / 1005 / 1010),
- High resistance Epoxy paint or galvanised,
- Full hydraulic tandem axle chassis  
optional on 1026-1031-1036  
standard on 1045-1055

### Turntable Rotation

- Mechanical with standard automatic locking on 1005 - 1010,
- Mechanical or hydraulic on other models,
- Multi- positions rotation angle,
- High gear ratio for an easy rotation
- Secured system with automatic safety lock.

### Winding Control

- Mechanical drive with sensor (1005-1010)
- Electronic management through Irricontrol or Irridoseur

### Electronic Control

- Mono-block device, solenoid valves and pressure switch,
- Easy to operate,
- High protection

### Hydraulic System

Option on 1005 to 1020 / Standard on 1026 to 1055 :

- Stabilisers powered from tractor distributor
- 2 hydraulic functions: stabilizers + rotation of the turntable
- 3 hydraulic functions mounted on front jack: stabilisers, rotation of the turntable, front jack.

\* Trolley equipment :

- standard for 1000-1005-1010 : pendular trolley
- Optional for 1005 1010 : articulated anti crops washing trolley

# COMPLEMENTARY OPTIONS

## Gun equipments



Nelson SR 75



Nelson SR 100



Nelson SR 150



Komet Twin 101



Komet Twin 140



Komet Twin 160



Sime Jolly



Sime Reflex



Sime Royal

For further information, contact your Irrifrance sales representative.

## Main options

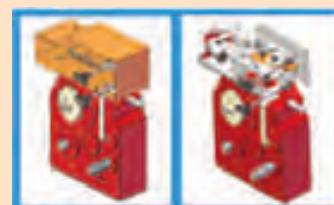
- Trolley rise kit 0,24 m\*
- Hooking 3 points system for tractor
- Hitch Kit 3 points offset
- Pressure transmitter kit Irridoseur
- Distribution kit Optima Irridoseur
- Distribution kit Optima
- GSM option for Irridoseur without Irridoseur 4 panel, without card SIM
- Beacon kit Irridoseur
- Autostart box 200m/k(except serie 2000)
- Reception kit for trolley optima in hill
- Extra cost for 2 cast iron weights
  - standard : 2 weights for Trolley for 1015 & 1020
  - 4 weights from 1026, 2000 & Premium range

\*Needs extra ballasting of the trolley

Please consult us for any other PR length

Non contractual document, all data can be modified at any time without notice

## KIT AUTOSTART

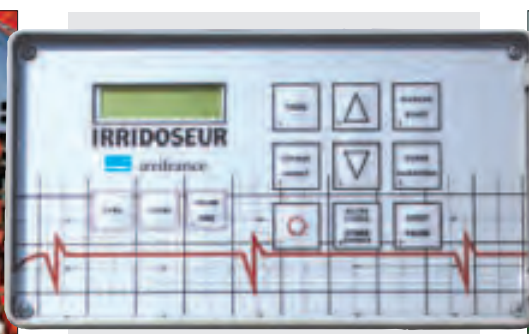


Optional from Optima 1026 and above

Easy starting irrigation kit, at the pressurization time without having to return to the reel machine after hose run.



# ELECTRONIC REGULATION



## IRRIDOSEUR

### Irridoseur main fonctions

- Dosis regulation,
- Ending day and time display,
- 10 irrigation programs memory
- Delayed start and delayed stop,
- Area and gradient management
- Deferred start

- Cease watering function
- Actual and to date calculation of flow rate and operating hours
- Built-in diagnostic facility
- Analogical sensor (option)

### The GSM choice

Combine with the Irridoseur, the GSM equipment enables distant communication with the hose reel through SMS messages :

- Information posted on the mobile phone: end of irrigation alarm, detailed alert in case of dysfunction
- Distance irrigation programming: on and off function, change of data and program query

## IRRICONTROL

### Irricontrol main fonctions

- Programmable for speed or duration,
- Speed regulation,
- Delayed start,
- Delayed stop,

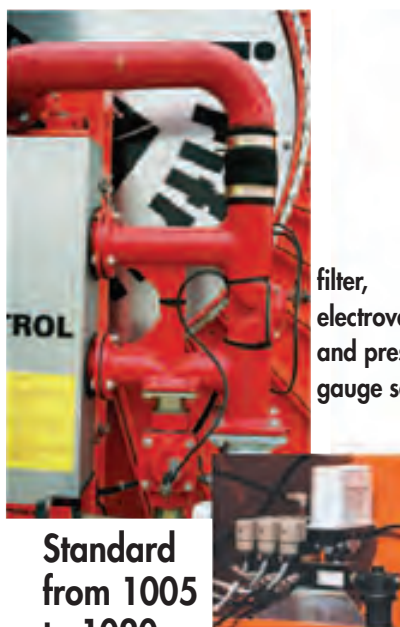
- Ending day and time,
- Deferred start,
- Diagnostic facility,



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## Motorization by hydraulic valve



## Motorization by electric valve



## Electronic equipment



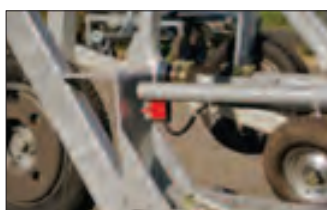
### Measurement inductive sensor :

Located straight on the kinematics chain, this reliable sensor provides accurate counting.



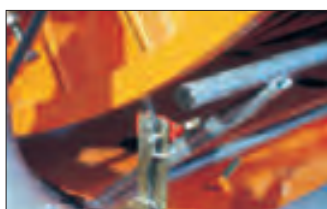
### Integrated electric set : Including :

- 1/ A 12 V low discharge battery 24 A/h.
- 2/ A wide size solar panel providing a permanent charging of the battery and enabling an electric autonomy.
- 3/ A charge limiter to preserve the battery.



### End-of-winding sensor :

Its action generates the electric cut of the winding and of the watering.



### Safe winding sensor :

Warrant of a safe winding of the polyethylene, its location enables the sensor to detect any anomaly during the winding process.

# MICRO 44 - 50



Product: Micro 44 fibre safety hood with the optional low trolley for stadium

## MICRO

Ø 44 - 120 m

Ø 50 - 110 m

## Standard equipment

- - Turbine version: High output with low-pressure loss operating from 4 m<sup>3</sup>/h. Various speed gears. Silent operating without water rejection
- Bellows version: No pressure loss, low pressure operating.
- Connection hose Ø 50 length 3 meters with 2" HR male coupler and threaded 2" male coupler.
- Part circle gun JOLLY with nozzles Ø 10, 12 et 14.
- Tyres : 400 x 8 (bellows)- 16/6,5 x 8 (Turbine)
- Auto shut off valve..
- 3 wheels frame
- Sheet metal or plastic housing

## Hydraulic Performances

	Inflow pressure (bar)	Flow rate m <sup>3</sup> /h	Pressure gun bar	Nozzle mm	Length m	Irrigated strip m	Average area (ha)
Ø 50 / 110 m	4,0 / 4,5	6	3	8	22	30	0,4
	6,3 / 6,8	7,8	5	8	25,5	36	0,5
	4,4 / 4,8	8,3	3	10	24	36	0,5
	6,8 / 7,3	10,7	5	10	28,5	42	0,6
	4,9 / 5,3	11,1	3	12	26	36	0,5
Ø 44 / 120 m	4,0 / 5,0	6	3	8	22	30	0,4
	7,0 / 7,5	7,8	5	8	25,5	36	0,5
	5,2 / 5,7	8,3	3	10	24	36	0,5
	8,1 / 8,6	10,7	5	10	28,5	42	0,6
	6,3 / 6,8	11,1	3	12	26	36	0,5



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Low-pressure turbine drive



Speed regulation through by-pass



Metal version turbine drive Micro



Bellows drive Micro



High trolley for horticulture



Low trolley for stadium

### Equipment (mandatory)

#### Equipment (mandatory) :

Trolley to be selected (necessary):

- High profile trolley 44, nozzles at 1 m from the ground
- Low profile trolley micro 34 , nozzles at 0.40m from the ground

### Dimensions

Product	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame (m)	Tyres	Weight ex water	Weight inc water
Micro	1,19	1,26	1,60	4,75	0,19	selon série	205	310



# MINI BELLOW 63 - 70



## MINI

Ø 63 - 280 m

Ø 70 - 200 m

## Standard equipment

- Motorization bellows drive with mechanical speed regulation.
- Connection hose Ø 3" length 4 meters with 3" HR male coupler and 3"FLD male coupler.
- Manual turntable.
- Part circle gun KOMET 163 with nozzles Ø 12-14-16.
- Automatic trolley hooking and winch lifting device.
- Galvanized trolley with adjustable track
- Automatic shut off valve, DV , or water supply elbow connection.

## Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL *	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
Super	ø 63	280	4,7	80%	8 - 24	5 - 10	42 - 60	1,5
Mini	ø 70	200	5	80%	8 - 30	5 - 10	54 - 72	1,3



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\*RLL : recovery last layer



Bellows 8" drive



Manual winch trolley lifting



Automatic trolley hooking



Hydrofilter engine



Speed regulation



Mechanical jack and rotation of the turntable

## Equipment

### Equipment (mandatory) :

- Water supply elbow connect. kit (bellow)
- Discharge valve
- Shut-off valve
- Ski kit for pendular trolley or wheel kit for front trolley OPTIMA

### • Optional mechanical equipment :

- Mechanical rotation of the turntable
- Connection hose for discharge valve 6m hr 3" VD

### Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
Super Mini	2,05	1,75	2,90	4,75	0,28	185 x 70 x 13	700	1000

# OPTIMA 1005 - 1010



## 1005

Ø 75 - 300 m

Ø 82 - 260 m

## 1010

Ø 75 - 380 m

Ø 82 - 300 m

Ø 90 - 270 m

### Standard equipment

- Motorization Turbine or Irricontrol Turbine
- Regulation through motorised butterfly valve
- Connection hose Ø 3" length. 6 m with 3" HR male coupler /3"FLD male coupler.
- Part circle gun KOMET Twin 101 with nozzles Ø 16, 18, 20 et 22
- Automatic lifting trolley device.
- Manual turntable with automatic locking.
- Mechanical stabilizers..
- PTO shaft
- Automatic shut off valve, discharge valve.
- High and galvanized trolley with adjustable track
- Pendular trolley preventing crop-washing damages

### Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL *	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
<b>Optima 1005</b>	ø 75	300	5,5	70%	12 - 35	6 - 9	48 - 66	2,0
	ø 82	260	6	50%	17 - 45	5,5 - 9	54 - 72	1,9
<b>Optima 1010</b>	ø 75	380	5,5	40%	12 - 32	6 - 10	48 - 66	2,5
	ø 82	300	6	70%	17 - 45	5,5 - 9,5	54 - 72	2,2
	ø 90	270	6,7	60%	18 - 60	5,5 - 10	54 - 78	2,3



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\*RLL : recovery last layer





Turbine motorization



Automatic shut-off valve or discharge valve



Automatic pendular trolley lifting



Butterfly valve controlled by electric motor



Mechanical rotation of the turntable with automatic locking



## Equipment

### Equipment (mandatory) :

- Automatic shut off valve 1005-1010.
- Skid kit or wheel kit

### Optional equipment

#### • Electric stop systems :

- Shut-off valve or discharge electric valve.

#### • Hydraulic systems:

- Discharge valve kit .

#### • Trolley :

- Option adjustable way for trolley 1.40 m
- Offset trolley OPTIMA
- Offset high trolley (h:1,40m)

- Gun centring kit for offset trolley
- Trolley guide OPTIMA se 2011
- Option articulated anti crops washing trolley (without cast iron weight) :
- Trolley fixed track h 0.90m 1005 1010 with ski or wheel kit
- **Optional mechanical equipment :**
- Mechanical turntable kit 1005-1010
- Adjustable front jack 1020
- Hydraulic stabilizers 1005-1020
- Hydraulic turntable and stabilizers 1020
- Complete hydraulic kit 1005-1010\* :
- Extra cost galvanized turntable and chassis 1005-1020

\* This kit contains turntable, stabilizers and front jack

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
1005	2,76	2,28	5,25	6,30	0,32	10.0/80 x 12	1950	2950
1010	2,90	2,28	5,25	6,30	0,32	10.0/80 x 12	2100	3300



# OPTIMA 1015 - 1020



## 1015

Ø 75 - 400 m  
 Ø 82 - 350 m  
 Ø 82 - 370 m  
 Ø 90 - 340 m  
 Ø 100 - 260 m

## 1020

Ø 82 - 420 m  
 Ø 90 - 400 m  
 Ø 90 - 450 m  
 Ø 100 - 330 m  
 Ø 100 - 370 m  
 Ø 100 - 410 m  
 Ø 110 - 340 m



The optimal solution

## Standard equipment

- Motorization turbine Irricontrol or turbine Irridoseur
- Connection hose Ø 4" length 4 m with HR male 4" coupler and FLD male 4" coupler.
- Part circle gun KOMET Twin 101 for Ø 75, Ø 82 and Ø 90 + nozzles Ø 16, 18, 20, 22
- Part circle gun KOMET Twin 140 for Ø 100 and Ø 110 + nozzles Ø 22, 24, 26 et 28
- Automatic trolley lifting.
- Mechanical turntable.
- Double supply pipe.
- PTO shaft.
- Galvanized and articulated trolley, high 0,90 m, fixed track 1,75 m, equipped with 2 cast iron weights and anti crops washing system.
- Manual front jack.
- Mechanical stabilisers.

## Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL *	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
Optima 1015	Ø 75	400	6,8	70%	18 - 30	5,5 - 10	54 - 60	2,6
	Ø 82	350	6	50%	18 - 40	5,5 - 10	54 - 66	2,5
	Ø 82	370	6	70%	18 - 40	5,5 - 10	54 - 66	2,5
	Ø 90	340	6,7	60%	18 - 58	5,5 - 10	54 - 78	2,6
	Ø 100	260	7,4	80%	18 - 70	5,5 - 10	54 - 84	2,6
Optima 1020	Ø 82	420	7,5	70%	23 - 37	5,5 - 10	54 - 66	2,7
	Ø 90	400	6,7	80%	23 - 50	5,5 - 11	54 - 78	2,9
	Ø 90	450	8,2	35%	25 - 45	5,5 - 11	54 - 78	3,3
	Ø 100	330	7,4	40%	23 - 70	5,5 - 10	66 - 84	3,1
	Ø 100	370	7,4	80%	23 - 60	5,5 - 10	66 - 84	3,5
	Ø 100	410	7,4	30%	23 - 60	5,5 - 10	66 - 84	3,7
	Ø 110	340	8,2	80%	23 - 75	5,5 - 10	72 - 90	3,6

\*RLL : recovery last layer



Supply tubing  
with integrated valve



Turbine motorization



Automatic trolley lifting preventing  
crop-washing damages



Double supply pipe

Mechanical rotation  
of the turntable



## Equipment

### Equipment (mandatory) :

- Automatic shut off valve 1005-1010.
- Skid kit or wheel kit

### Optional equipment

- **Electric stop systems :**
  - Shut-off valve or discharge electric valve.
- **Hydraulic systems:**
  - Discharge valve kit .
- **Trolley :**
  - Option adjustable way for trolley 1.40 m
  - Offset trolley OPTIMA
  - Offset high trolley (h:1,40m)
  - Gun centring kit for offset trolley

- Trolley guide OPTIMA 2011

### • Optional mechanical equipment :

- Adjustable jack
- Hydraulic stabilisers
- Hydraulic rotation + stabilizers
- Full hydraulic set :  
This kit contains turntable, stabilizers and front jack
- **Others options**
  - Tyres 31/15.5 X 15
  - Galvanised frame
  - Connection hose for discharge valve 6m HR Ø 100
  - Hydraulic lifting of boom trolley
  - Elbow VD 3" mâle
  - Boom lifting kit

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
<b>1015</b>	2,99	2,28	5,00	6,30	0,32	10 x 0,75 x 15	2400	3900
<b>1020</b>	3,16	2,32	5,10	6,40	0,32	10 x 0,75 x 15	2900	4900





# OPTIMA 1026 - 1031 - 1037



## 1026

Ø 90 - 500 m  
Ø 100 - 400 m  
Ø 100 - 450 m  
Ø 110 - 370 m

## 1031

Ø 100 - 500 m  
Ø 110 - 400 m  
Ø 120 - 380 m  
Ø 125 - 350 m

## 1036

Ø 100 - 550 m    Ø 120 - 400 m  
Ø 100 - 600 m    Ø 120 - 420 m  
Ø 110 - 450 m    Ø 125 - 385 m  
Ø 110 - 500 m    Ø 125 - 400 m  
Ø 110 - 530 m    Ø 125 - 410 m  
Ø 110 - 550 m    Ø 135 - 370 m  
Ø 110 - 570 m    Ø 135 - 900 m



The optimal solution

### Standard equipment

- Motorization turbine Irricontrol or turbine Irridiseur
- Connection hose Ø 4" length 4 m with HR male 4" coupler and HR female 4" coupler
- Part circle gun KOMET Twin ø101 nozzles ø16, 18, 20 et 22 for 90
- Part circle gun KOMET Twin 140 nozzles ø 22, 24, 26 et 28 for 100, 110
- Part circle gun KOMET Twin 160 nozzles 24, 26, 27,5 et 30 for 120 & 125
- Manual front jack (mechanical or hydraulic in option) (hydraulic front jack on boggie)
- Automatic trolley lifting with anti crops washing system.
- Hydraulic turntable.
- Double supply pipe.
- Galvanized and articulated trolley, high 0,90 m, fixed track 1,75 m, equipped with 2 cast iron weights and anti crops washing system.
- Tool rack
- Hydraulic stabilizers.
- PTO shaft.

### Hydraulic performances

Model	Ø PE	PE length(m)	PE Thickness (mm)	RLL *	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
Optima 1026	Ø 90	500	8,2	50%	25 - 40	6 - 10	66 - 72	3,6
	Ø 100	400	7,4	90%	30 - 60	6 - 10	72 - 84	3,4
	Ø 100	450	9,1	70%	30 - 55	6 - 10	66 - 78	3,5
	Ø 110	370	8,2	90%	30 - 75	6 - 10	72 - 90	3,3
Optima 1031	Ø 100	500	9,1	50%	30 - 50	6 - 10	72 - 78	3,9
	Ø 110	400	8,2	80%	30 - 80	6 - 10	72 - 90	3,6
	Ø 120	380	8,9	80%	30 - 90	6 - 10	72 - 90	3,4
	Ø 125	350	11,4	70%	30 - 92	6 - 10	72 - 90	3,1
Optima 1037	Ø 100	550	11	40%	35 - 48	7 - 10	72 - 78	4,4
	Ø 100	600	11	80%	35 - 48	7,5 - 10,5	72 - 78	4,7
	Ø 110	450	12,3	80%	40 - 65	6,7 - 10	72 - 84	3,8
	Ø 110	500	10	30%	40 - 65	6,2 - 10	72 - 84	4,2
	Ø 110	530	11,4	60%	40 - 61	6,8 - 10,4	72 - 84	4,5
	Ø 110	550	12,3	75%	40 - 61	6,9 - 10,6	72 - 84	4,6
	Ø 110	570	12,3	90%	40 - 61	7 - 10,7	72 - 84	4,8
	Ø 120	400	11,4	70%	40 - 90	5,4 - 10,3	72 - 96	3,7
	Ø 120	420	11,5	90%	40 - 90	5,4 - 10,5	72 - 96	3,8
	Ø 125	385	11,4	75%	40 - 92	5,2 - 9,7	72 - 96	3,5
	Ø 125	400	11,4	80%	40 - 92	5,2 - 9,8	72 - 96	3,7
	Ø 125	410	11,4	95%	40 - 92	5,3 - 9,9	72 - 96	3,8
	Ø 135	370	10	75%	40 - 100	5 - 9	72 - 96	3,5
	Ø 135	390	10	95%	40 - 100	5,1 - 9,1	72 - 96	3,6

\*RLL : recovery last layer

# single axle



Regulation valve set + stop valve



Hydraulic rotation of the turntable



Wheels 400 x 60 (option)



End-of-winding sensor and frame lock



Tool rack



Hydraulic lifting connected to the lifting of the stabilizers (Premium type)



Hydraulic lifting 2000 series with separate drive

## Equipment

### Equipment (mandatory) :

- Electric valve option for 1036 VA or VD.
- Skid kit or wheel kit

### Optional equipment

- **Electric stop systems :**
  - Shut-off valve or discharge electric valve.
- **Trolley :**
  - Automatic lifting trolley
  - Trolley lifting type PREMIUM (1026-1031
  - Hydraulic lifting trolley (1026-1031-1036))
  - Rear unwinding kit
  - Hydraulic anchorage kit for trolley
  - Hydraulic front jack ( 3 ways distributor )

- **Trolley Optima anti crops washing options**
  - Option adjustable way for trolley 1.40 m
  - Offset trolley OPTIMA
  - Offset high trolley (h:1,40m)
  - Trolley guide OPTIMA se 2011
- **Trolley serie 2000 lifting type Premium & hydraulic**
  - 3 positions trolley large beam
  - Gun centring kit for offset trolley
  - Trolley guide for serie 2000
- **Other options**
  - Extra cost 2 wheels set 11,5x80x15,3 14p 1045
  - Extra cost 2 wheels set 400x60x15,5
  - Extra cost galvanized frame from 1026 to 1055
  - Extra cost special crops track
  - Lifting kit for boom G (1026 1031 1026)
  - Extra cost hose 6m 4" 0
  - Elbow VD3" mâle

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
<b>1026</b>	3,47	2,43	5,67	8,00	0,33	11,5 x 80 x 15,3	3850	6300
<b>1031</b>	3,53	2,43	5,67	8,00	0,33	11,5 x 80 x 15,3	4500	7200
<b>1037</b>	3,86	2,53	5,70	7,50	0,36	11,5 x 80 x 15,3	5070	8300



# OPTIMA 1026 - 1031 - 1037



## 1026

Ø 90 - 500 m  
Ø 100 - 400 m  
Ø 100 - 450 m  
Ø 110 - 370 m

## 1031

Ø 100 - 500 m  
Ø 110 - 400 m  
Ø 120 - 380 m  
Ø 125 - 350 m

## 1037

Ø 100 - 550 m    Ø 120 - 400 m  
Ø 100 - 600 m    Ø 120 - 420 m  
Ø 110 - 450 m    Ø 125 - 385 m  
Ø 110 - 500 m    Ø 125 - 400 m  
Ø 110 - 530 m    Ø 125 - 410 m  
Ø 110 - 550 m    Ø 135 - 370 m  
Ø 110 - 570 m    Ø 135 - 900 m

## Standard equipment

- Motorization turbine Irricontrol or turbine Irridiseur
- Galvanized and articulated trolley, high 0,90 m with HR male 4" coupler and FLD male 4" coupler.
- Part circle gun KOMET Twin ø101 nozzles ø16, 18, 20 et 22 for 90
- Part circle gun KOMET Twin 140 nozzles ø 22, 24, 26 et 28 for 100, 110
- Part circle gun KOMET Twin 160 nozzles 24, 26, 27,5 et 30 for 120 & 125
- Manual front jack (mechanical or hydraulic in option) (hydraulic front jack on boggie)
- Automatic trolley lifting with anti crops washing system.
- Hydraulic turntable.
- Hydraulic stabilizers.
- Tool rack
- Double supply pipe.
- PTO shaft.
- Galvanized and articulated trolley, high 0,90 m, fixed track 1,75 m, equipped with 2 cast iron weights and anti crops washing system.
- Option: Hydraulic trolley lifting with trolley 2000 (lateral hydraulic distributor )

## Hydraulic performances

Model	Ø PE	PE length(m)	PE Thickness (mm)	RLL *	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
Optima 1026	Ø 90	500	8,2	50%	25 - 40	6 - 10	66 - 72	3,6
	Ø 100	400	7,4	90%	30 - 60	6 - 10	72 - 84	3,4
	Ø 100	450	9,1	70%	30 - 55	6 - 10	66 - 78	3,5
	Ø 110	370	8,2	90%	30 - 75	6 - 10	72 - 90	3,3
Optima 1031	Ø 100	500	9,1	50%	30 - 50	6 - 10	72 - 78	3,9
	Ø 110	400	8,2	80%	30 - 80	6 - 10	72 - 90	3,6
	Ø 120	380	8,9	80%	30 - 90	6 - 10	72 - 90	3,4
	Ø 125	350	11,4	70%	30 - 92	6 - 10	72 - 90	3,1
Optima 1037	Ø 100	550	11	40%	35 - 48	7 - 10	72 - 78	4,4
	Ø 100	600	11	80%	35 - 48	7,5 - 10,5	72 - 78	4,7
	Ø 110	450	12,3	80%	40 - 65	6,7 - 10	72 - 84	3,8
	Ø 110	500	10	30%	40 - 65	6,2 - 10	72 - 84	4,2
	Ø 110	530	11,4	60%	40 - 61	6,8 - 10,4	72 - 84	4,5
	Ø 110	550	12,3	75%	40 - 61	6,9 - 10,6	72 - 84	4,6
	Ø 110	570	12,3	90%	40 - 61	7 - 10,7	72 - 84	4,8
	Ø 120	400	11,4	70%	40 - 90	5,4 - 10,3	72 - 96	3,7
	Ø 120	420	11,5	90%	40 - 90	5,4 - 10,5	72 - 96	3,8
	Ø 125	385	11,4	75%	40 - 92	5,2 - 9,7	72 - 96	3,5
	Ø 125	400	11,4	80%	40 - 92	5,2 - 9,8	72 - 96	3,7
	Ø 125	410	11,4	95%	40 - 92	5,3 - 9,9	72 - 96	3,8
	Ø 135	370	10	75%	40 - 100	5 - 9	72 - 96	3,5
	Ø 135	390	10	95%	40 - 100	5,1 - 9,1	72 - 96	3,6



The optimal solution

\*RLL : recovery last layer

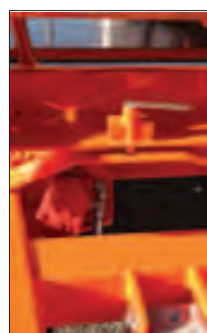




Regulation valve set



Hydraulic stabilisers and rotation of the turntable



Adjustable tandem axle



Retractable front jack



Tool rack



Standard automatic trolley lifting



Lifting of the trolley connected to the hydraulic lifting of the stabilizers (Premium type)

## Equipment

### Equipment (mandatory) :

- Electric valve option for 1036 VA or VD.
- Skid kit or wheel kit

### Optional equipment

- **Electric stop systems :**
  - Shut-off valve or discharge electric valve.
- **Trolley :**
  - Automatic lifting trolley
  - Trolley lifting type PREMIUM (1026-1031
  - Hydraulic lifting trolley (1026-1031-1036))
  - Rear unwinding kit
  - Hydraulic anchorage kit for trolley
  - Hydraulic front jack ( 3 ways distributor )

- **Trolley Optima anti crops washing options**
  - Option adjustable way for trolley 1.40 m
  - Offset trolley OPTIMA
  - Offset high trolley (h:1,40m)
  - Trolley guide OPTIMA se 2011
- **Trolley serie 2000 lifting type Premium & hydraulic**
  - 3 positions trolley large beam
  - Gun centring kit for offset trolley
  - Trolley guide for serie 2000
- **Other options**
  - Extra cost 2 wheels set 11,5x80x15,3 14p 1045
  - Extra cost 2 wheels set 11,5x0.8x15,3 10p
  - Extra cost 2 wheels set 400x60x15,5
  - Extra cost galvanized frame from 1026 to 1055
  - Lifting kit for boom G (1026 1031 1026)
  - Extra cost hose 6m 4" 0
  - Elbow VD3" mâle

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
<b>1026</b>	3,92	2,43	5,67	8,00	0,53	10 x 75 x 15,3	5350	6800
<b>1031</b>	3,98	2,43	5,67	8,00	0,53	10 x 75 x 15,3	5000	7700
<b>1037</b>	4,10	2,53	5,70	7,50	0,56	10 x 75 x 15,3	5570	8800

# OPTIMA 1045-1055



## 1045

Ø 110 - 560 m  
 Ø 120 - 460 m  
 Ø 120 - 520 m  
 Ø 125 - 440 m  
 Ø 125 - 500 m

## 1055

Ø 110 - 650 m  
 Ø 120 - 620 m  
 Ø 125 - 600 m

### Standard equipment

- Motorizations High Output Cast Aluminium Turbine, Irricontrol Turbine or Irridoseur Turbine
- Connection hose Ø 4" length 4 m with HR male 4" coupler and FLD male 4" coupler.
- Part circle gun KOMET Twin 140 with nozzles Ø 22, 24, 26 and 28 for Ø 100, 110
- Part circle gun KOMET Twin 160 with nozzles Ø 24, 26, 27.5 and 30 for Ø 120 et 125
- Galvanized and articulated trolley serie 2000 with 4 cast iron weights and equipped with a 3rd front wheel.
- Automatic hooking of the trolley.
- Hydraulic lifting trolley.
- Hydraulic control turntable.
- Hydraulic stabilizers.
- Double supply pipe.
- Special hydraulic front jack

### Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL*	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
<b>Optima 1045</b>	Ø 110	560	12,3	100%	40 - 58	7 - 10	72 - 84	4,6
	Ø 120	460	11,5	30%	40 - 80	7 - 10	72 - 90	4,1
	Ø 120	520	11,5	90%	40 - 80	7 - 10	72 - 90	4,4
	Ø 125	440	11,4	30%	40 - 90	7 - 10	72 - 90	4,4
	Ø 125	500	11,5	90%	40 - 90	7 - 10	72 - 90	4
<b>1055</b>	Ø 110	650	12,3	70%	40 - 75	8 - 11	72 - 90	5,0
	Ø 120	620	13,2	80%	40 - 70	7 - 11	72 - 90	5,3
	Ø 125	600	14,0	80%	40 - 80	6,5 - 11	72 - 90	5,3



The optimal solution

\*RLL : recovery last layer

# Boggie



**Motorization**  
(cast aluminium turbine)



**Side hydraulic drive**  
(stabilizer + frame control)  
**Rear unwinding device option**



**Chain and pinion drive**



**Retractable front jack**



**Articulated tandem axle (adjustable track)**



**Hydraulic stabilizers**



**Articulated trolley series 2000**

## Equipment

### Equipment (mandatory) :

- Electric valve option for 1055 VA or VD.

### Optional equipment :

#### • Trolley serie 2000 lifting type Premium & hydraulic

- 3 positions trolley large beam
- Gun centring kit for offset trolley
- Trolley guide for serie 2000

#### • Equipments for rear unwinding :

- Rear unwinding kit
- Hydraulic anchorage kit for trolley

### • Other options

- Extra cost 2 wheels set 11,5x80x15,3 14p 1045
- Extra cost 2 wheels set 11,5x0.8x15,3 10p
- Extra cost 2 wheels set 400x60x15,5
- Extra cost galvanized frame from 1026 to 1055
- Extra cost hose 6m 4" 0
- Elbow VD3" mâle
- Compressor

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
<b>1045 Boggie</b>	4,24	2,66	7,00	7,10	0,52	11,5 x 0,8 x 15,3	6200	9800
<b>1055 Boggie</b>	4,37	2,66	7,00	7,10	0,52	11,5 x 0,8 x 15,3	6700	10800





# 1040 VPS - 1040 VPS bis



## Standard equipment

### 1040

Ø 100 - 500 m  
 Ø 100 - 550 m  
 Ø 110 - 400 m  
 Ø 120 - 360 m  
 Ø 125 - 350 m

### 1040 BIS

Ø 100 - 450 m  
 Ø 110 - 530 m  
 Ø 120 - 410 m  
 Ø 125 - 400 m

- Driving systems : Cast iron turbine Pelton type.
- Turbine drive Irricontrol and Irridoseur motorized with electric butterfly valve
- Part circle gun SIME REFLEX with nozzles Ø 26, 28, 30 and 32
- Automatic shut off valve serial fitting
- Galvanized and articulated trolley with 4 cast iron weights and equipped with 2 wheels.
- Automatic trolley hooking at the end of the position
- Sit down system during irrigation
- Base stabilizer (all VPS machines)
- Trolley lifting device connected with hydraulic lifting stabilizers type premium
- Wheel lifting system separate left and right
- Hydraulic turntable
- Hydraulic stabilizers
- Hydraulic front jack
- Double supply pipe ø 114 ou ø 133
- Pto shaft winding
- Connection hose Ø 100 length 4 m with HR male 4" coupler and Fld male 4" coupler.
- or ø 113 length 4 m with HR male 5" coupler and Fld male 5" coupler

## Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL*	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
VPS 1040	Ø 100	500	9,1	40%	30 - 50	6 - 10	66 - 78	4,2
	Ø 100	550	11	80%	35 - 48	7 - 10	66 - 78	4,4
	Ø 110	400	8,2	70%	30 - 80	6 - 10	72 - 90	3,7
	Ø 120	360	8,9	50%	30 - 90	6 - 10	72 - 90	3,5
	Ø 125	350	11,4	50%	30 - 92	6 - 10	72 - 90	3,4
VPS 1040 BIS	Ø 100	450	9,1	50%	30 - 55	6 - 10	66 - 78	3,5
	Ø 110	530	12,3	50%	35 - 61	5,5 - 10	72 - 84	4,6
	Ø 120	410	8,9	60%	40 - 90	5,5 - 10	72 - 84	3,7
	Ø 125	400	11,4	70%	40 - 92	5,5 - 10	72 - 96	3,8



The optimal solution

\*RLL : recovery last layer

# Sit down machine

Power supply Ø 114 et Ø 133



Electric valve motorisation



Rack and chain drive reel



Tool rack



Side hydraulic distributor  
(stabilizer + frame + lifting frame  
and rotating frame control)



Battery and solar panel



Hydraulic stabilizers



Premium lifting frame

## Equipment

### Equipment (mandatory) :

- Valve option VPS1040 VD TTI&TIC.
- 1040&1040 bis VPS valve VD&VA electric

### Optional equipment :

#### • Trolley VPS :

- Offset trolley
- Trolley guide VPS

#### • Other Options :

- Kit compressor
- Autonomous hydraulic system 7cv\* (photo 1)
- Cover for the autonomous hydraulic system (photo 2)
- Connection hose for discharge valve 6m hr 3" VD
- Elbow vd 3" mâle
- Gun KOMET TWIN 160 + nozzles
- Gun SR 150 21°



## Technical characteristics

Model	Height (m)	H Sit down (m)	Width	Length ex trolley (m)	Length in trolley (m)	Height under frame	Height Gooseneck	Tyres	Weight ex water	Weight inc water
1040 VPS	3,55	3,20	3,00	5,60	6,56	0,35	0,34	385 x 65 x 22.5	4500	7200
1040 VPS BIS	3,78	3,43	3,00	5,60	6,56	0,35	0,34	385 x 65 x 22.5	4800	8000



# 1050 VPS - 1055 VPS



## Standard equipment

- Driving systems : Cast iron turbine Pelton type.  
Turbine drive Irricontrol and Irridoseur motorized with electric butterfly valve
- Part circle gun SIME REFLEX with nozzles Ø 26, 28, 30 and 32
- Automatic shut off valve serial fitting
- Galvanized and articulated trolley with 4 cast iron weights and equipped with 2 wheels.
- Automatic trolley hooking at the end of the position
- Sit down system during irrigation
- Base stabilizer (all VPS machines)
- Trolley lifting device connected with hydraulic lifting stabilizers type premium
- Wheel lifting system separate left and right
- Hydraulic turntable
- Hydraulic stabilizers
- Hydraulic front jack
- **Double supply pipe** ø 114 ou ø 133
- Pto shaft winding
- Connection hose Ø 100 length 4 m with HR male 4" coupler and Fld male 4" coupler.  
or ø 113 length 4 m with HR male 5" coupler and Fld male 5" coupler

## 1050 VPS

Ø 110 - 560 m  
Ø 110 - 600 m  
Ø 120 - 520 m  
Ø 125 - 500 m

## 1055 VPS

Ø 110 - 650 m  
Ø 120 - 620 m  
Ø 125 - 600 m



The optimal solution

## Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL*	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
VPS 1050	Ø 110	560	12,3	100%	40 - 60	7 - 10	72 - 84	4,6
	Ø 110	600	12,3	21%	40 - 60	7 - 10	72 - 84	4,7
	Ø 120	520	11,5	90%	40 - 80	7 - 10	72 - 90	4,4
	Ø 125	500	11,4	90%	40 - 90	7 - 10	72 - 90	4,4
VPS 1055	Ø 110	650	12,3	70%	40 - 52	8 - 11	72 - 84	5,2
	Ø 120	620	13,2	80%	40 - 70	7 - 11	72 - 90	5,3
	Ø 125	600	14,0	90%	40 - 80	6,5 - 11	72 - 90	5,3

\*RLL : recovery last layer



# Sit down machine

Power supply Ø 114 et Ø 133

Irrifrance

Reel machines

Pivots - Lateral moves

Pipes

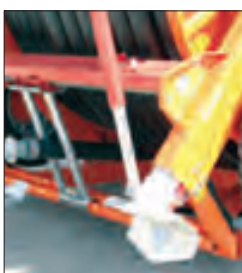
Drip irrigation



Side hydraulic distributor  
(stabilizer + frame + lifting frame  
and rotating frame control)



Retractable front jack



Hydraulic stabilizers



Electric valve motorisation



Rack and  
chain drive reel



Premium lifting frame

Gooseneck -  
in option autonomous hydraulic

## Equipment

### Equipment (mandatory) :

- Valve option VPS1050 VD TTI&TIC.
- Valve option VPS1055 VD TTI&TIC
- 1050&1050 bis VPS valve VD&VA electric
- 1055&1055 bis VPS valve VD&VA electric

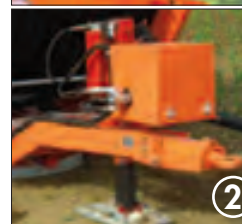
### Optional equipment :

#### • Trolley VPS :

- Ski kit front trolley VPS
- Offset trolley
- Trolley guide VPS

#### • Other Options :

- Kit compressor
- Autonomous hydraulic system 7cv\* (photo 1)
- Cover for the autonomous hydraulic system (photo 2)
- Connection hose for discharge valve 6m hr 3" VD
- Elbow vd 3" mâle
- Gun KOMET TWIN 160 + nozzles
- Gun SR 150 21°



## Technical characteristics

Model	Height (m)	H Sit down (m)	Width	Length ex trolley (m)	Length in trolley (m)	Height under frame	Height Gooseneck	Tyres	Weight ex water	Weight inc water
1050 VPS	3,70	3,45	3,06	5,10	6,28	0,35	0,34	385 x 65 x 22.5	6500	9800
1055 VPS	3,88	3,63		5,60	6,78				7620	11300



# Serie 2000



## 2061

Ø 135 - 550 m  
Ø 135 - 600 m

### Standard equipment

- **Serie 2061 Narrow track** : Two high axles 180. Adjustable track from 1900 to 2300.
- **Serie 2061 Wide track** : Two simple axles . Adjustable track from 2250 to 2700.
- **Serie 2076 Narrow track** : Two high axles 180. Adjustable track from 1900 to 2300
- **Serie 2076 Wide track** : Two simple axles . Adjustable track from 2250 to 2700.

## 2076

Ø 125 - 600 m  
Ø 125 - 670 m  
Ø 125 - 730 m  
Ø 125 - 750 m

- High Output Cast Aluminium Turbine, Irridoseur Turbine
- Connection hose Ø 100 length 8m and FLD male 5" coupler
- Part circle gun KOMET TWIN 160 + nozzles 24,26,27.5 et 30
- Hydraulic stabilizers and lifting trolley.
- Hydraulic front jack
- Hydraulic lateral distributor
- Double supply pipe
- Galvanized and articulated trolley with 4 cast iron weights and front
- 3 positions trolley beam
- Rear unwinding system
- Auto shut off valve in standard.
- Hydraulic anchorage of the trolley

### Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL*	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
2061	Ø 135	550	14,5	20%	40 - 90	7,5 - 10,0	72 - 90	4,8
	Ø 135	600	14,5	70%	40 - 90	7,5 - 10,5	72 - 90	5,3
2076	Ø 125	600	14,0	70%	40 - 76	7 - 11	72 - 90	5,4
	Ø 125	670	14,0	30%	40 - 72	7 - 11	72 - 90	5,5
	Ø 125	730	14,0	80%	40 - 70	7,5 - 11,5	72 - 84	6,0
	Ø 125	750	14,0	100%	40 - 70	7,5 - 11,5	72 - 84	6,2



The optimal solution

\*RLL : recovery last layer



# 2061 - 2076 fixed frame



Drive unit



Twin drum drive chains



Hydraulic trolley lifting frame



Dual stabilisers  
Rear unwinding device

## Equipment

### Equipment (mandatory) :

- **Electric Stop Systems**
  - Electric valve option for 2076 VA or VD
- **Equipment trolley**
  - Gun centring kit for offset trolley
  - Trolley guide for serie 2000

### Optional equipment :

- Compressor
- Elbow VD 3" mâle
- **Tyres options (4 wheels kits)**
  - 550 x 60 x 22,5 - high axle height 180 mini way 2500
  - 315 x 75 x 22,5 - high axle height 180 mini way 2350
  - 315 x 75 x 22,5 - high axle height 180 mini track 1800

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
2061- 2076- CF	4,45	2,56	9,10	10,00	0,37	385x65x22,5	8400	13 800





# SUPER 1 , SUPER 2, SUPER 2 BIS

Extra cost



## SUPER 1

Ø 63 - 340 m  
Ø 70 - 310 m  
Ø 75 - 310 m  
Ø 75 - 380 m  
Ø 82 - 290 m  
Ø 90 - 265 m

## SUPER 2

Ø 82 - 360 m  
Ø 90 - 300 m  
Ø 100 - 280 m

## SUPER 2 BIS

Ø 90 - 400 m  
Ø 90 - 450 m  
Ø 100 - 360 m  
Ø 100 - 400 m  
Ø 110 - 380 m



The optimal solution

## Equipment standard

- Connection hose Ø - length
- Coupler connection
- Part circle gun
- Nozzles
- Trolley/cast iron weight
- 3<sup>rd</sup> front wheel
- Automatic hooking of trolley
- Mechanical swivelling turntable
- Mechanical lifting of stabilizer legs
- Hydraulic lifting of stabilizer legs
- Double supply pipe
- Jib lifting arm and winch
- Wheels

Super 1	Super 2	Super 2 bis
Ø 84 - 6 m	Ø 90 - 6 m	Ø 90 - 6 m
HR M - FLD M 3"	HR M 4" - FLD M 4"	HR M 4" - FLD M 4"
Komet Twin 101	SR 100 on ø 82	SR 150
buses 16, 18, 20, 22	SR 150 on ø 90	•
Twin 140 on ø 90	and ø 100	•
Yes/2 weights	Yes/4 weights	Yes/4 weights
•	•	YES
YES	YES	YES
YES	YES	YES
YES	YES	YES
•	•	YES
•	•	YES
•	OUI	YES
10 x 80 x 12	10 x 80 x 12	10 x 0,75 x 15,3
voie 2000	voie 2000	voie 2000

## Hydraulic performances

Model	Ø PE	PE Length(m)	PE Thickness (mm)	RLL*	Flow Rate (m³/h)	Inflow Pressure (Bars)	Irrigated strip width (m)	Average Area (ha)
Super 1	Ø 63	340	4,7	80%	10,4 - 25	5,0 - 9,6	42 - 60	2,0
	Ø 70	310	5	90%	10,4 - 37	4,4 - 9,8	42 - 66	2,0
	Ø 75	310	5,5	90%	16 - 40	4,6 - 10	48 - 66	2,0
	Ø 75	380	5,5	80%	10,4 - 35	4,4 - 9,8	42 - 66	2,5
	Ø 82	290	6	80%	18,4 - 50	4,6 - 9,6	54 - 78	2,1
	Ø 90	265	6,7	100%	18,4 - 73	4,2 - 9,8	54 - 84	2,2
Super 2	Ø 82	360	6	30%	18,4 - 47	4,7 - 10	54 - 72	2,4
	Ø 90	300	6,7	100%	18,4 - 61	4,3 - 10	54 - 84	2,4
	Ø 100	280	7,4	100%	19,7 - 81	4,6 - 10	54 - 90	2,4
Super 2 Bis	Ø 90	400	6,7	40%	18,4 - 60	4,5 - 10	54 - 78	3,0
	Ø 90	450	8,2	90%	18,4 - 52	4,7 - 10	54 - 72	3,2
	Ø 100	360	7,4	40%	18,4 - 77	4,2 - 10	54 - 84	3,1
	Ø 100	400	7,4	80%	18,4 - 74	4,2 - 10	54 - 84	3,4
	Ø 110	380	8,2	90%	20 - 80	4,6 - 10	54 - 90	3,2

\*RLL : recovery last layer

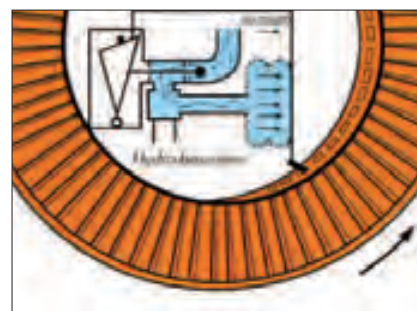
# BELLOW DRIVE MACHINE



Speed regulation



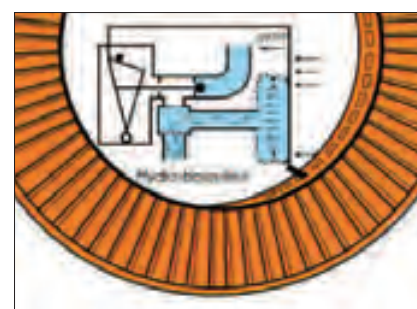
Bellow drive engine



First time : water push the bellow



Super 1 Bellow Drive Irridoseur



Second time : the spring empties the bellow



## Equipment

### Mandatory equipment to choose :

- Automatic valve kit (S 1, S 2, S 2 Bis)
- Water supply elbow connect. Kit (S 1, S 2, S 2 Bis)
- Discharge valve Kit (S 1, S 2, S 2 Bis)
- Connection hose for VD 6m HR 3" (S 1, S 2, S 2 Bis)
- Double supply pipe (S 2)

### Mandatory trolley equipment to choose :

- Front skid kit (S1, S 2)
- Front wheel kit (S1, S 2)

### Optional equipment :

- PTO shaft (S 1, S 2)
- Mechanical turntable rotating Kit (S 1, S 2)
- Stabilizer legs and hydraulic lifting kit (S 2)
- Extra cost for hydraulic turntable and front jack (S 2 bis)
- Hydraulic brake kit (S 2 bis)
- 3 positions trolley beam (S 2 bis)
- Trolley guide kit (S 2 bis)
- 4 cast iron weights (S 2, S 2 bis)
- Wheels 10 x 0,75 x 15 14 plys voie 2000 (S 2 Bis)

## Technical characteristics

Model	Height (m)	Width (m)	Length ex trolley (m)	Length in trolley (m)	Height under frame	Tyres	Weight ex water	Weight inc water
Super 1	2,64	2,25	3,70	5,70	0,28	10 x 80 x12	1400	2600
Super 2	3,00	2,50	4,50	6,50	0,28	10 x 80 x12	1900	3500
Super 2 Bis	3,20	2,50	4,50	6,50	0,32	10 x 0,75 x15,3	2900	5400







# PIVOTS & LATERAL MOVES

Irrifrance

Reel machines

Pivots - Lateral moves

Solid Set Systems - Pipes

Drip irrigation

# CENTRAL UNIT



## CENTER PIVOT VXP

The Irrifrance central pivot unit is a very strong equipment. Anchored to a concrete base, it is designed to support the pivot irrigator under the widest range of topography and rotation of the machine.

Pivot Diameter	Feeding pipe Diameter	Electric panel
ø 127	UC ø 5"	Panel L
ø 141	UC ø 6"	Panel L
ø 168	UC ø 8"	Panel S
ø 193	UC ø 10"	Panel S
ø 245	UC ø 10"	Panel S

## Central unit VXP equipments

### COLLECTOR

The waterproof collector is positioned on the top of the central unit and is easily serviced. With 12 tracks, the collector enables a total connexion between the main control panel and mobile spans.



### MAIN CONTROL PANEL

Waterproof and equipped with double doors, its role is to protect all the electric components. It is manufactured in accordance with the European safety standard.

The components have been selected for the high level of reliability. The wiring layout is clear and every wire is marked at the 2 ends. The variable speed setting allows the operator to select and conveniently preset the exact water application. The Irrifrance main control panel incorporates facilities to operate dosing pumps for fertigation and chemigation.

Other control / protection options are also available i.e. lightning protection, delayed forward reverse double speeds, wheel antiskid control, defective tower identification.



### END GUN AND OVERHANG PILOT SYSTEM

Water control system is able to start or stop the irrigation on the overhang sprinklers and/or the end gun.

### AUTOMATIC WATER STOPVALVE

Hydraulic system to stop water slowly at the end of the irrigation time avoiding water hammer or auto shut down safety procedure matching with all automatic drives. Available in 3", 4", 5" or 6"



### ANTITHEFT PREVENTION KIT OF ELECTRIC CABLES

To prevent thefts of electrical cables of power supply for motors. Irrifrance developed a new protection to secure your global installation. Contact Irrifrance for further information.

**NEW**

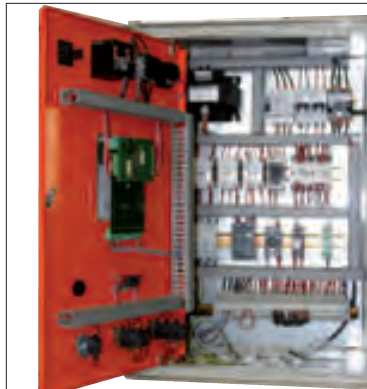


The optimal solution

# ELECTRONIC MANAGEMENT OF VXP PIVOTS



Pivocontrol panel



Wiring inside Pivocontrol panel



Electronic panel L Type

## Electronic panel L Type

This electronic control panel is compatible with all pivots Irrifrance. In a streamlined design, the number of internal components is reduced.

- It allows:
- Direct management of the irrigation dose,
  - Set-up of different doses in forward and reverse use,
  - To program a time delay for starting,
  - To program a time delay in both forward and reverse use,
  - To count the number of hours of run and irrigation use.



## THE PIVOCONTROL

### General drive and control system

The pivocontrol enables the programming of the irrigation in application, in percentage or in duration : Center watering up to 20 sectors with different applications,

- Management in mono or multi cycle,
- Delay timer for reversal
- Deferred start management
- Display arrival times for each sector
- Optional GSM-based management or remote IMS

## THE PIVODOSEUR

### General drive and control system by sector

In addition to the performance of the Pivocontrol, the Pivodoseur provides angular data through an "absolute" coder assembled in a 14 tracks collector for the management of up to five options.

With this coder, the position of the spans is indicated with very high accuracy, by 0.1°.

## LCS SYSTEM

### Linear electronic drive control

#### Linear and rotation travel drive :

Ten linear travel sectors – Five rotation sectors

#### Applications, speed or duration programming

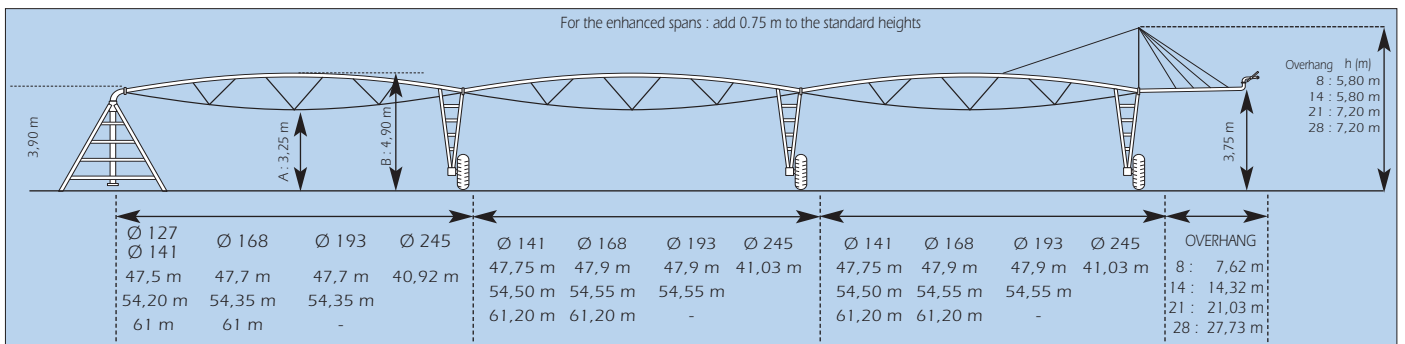
- Overhang, and end gun management
- Double nozzle chart management
- Identification of a faulty tower
- Starting with pressure or delay timer at the end of the plot
- Hydraulic valve control management
- Possibility of generator or fertilizing pump checking

**Options :** Lightning protection.





# THE VXP STRUCTURE



Nota : diameter 245, A = 3,15 m and B = 4,80 m

## The VXP structure

Irrifrance has chosen such a conception for its strength. The V angle structure enables a uniform distribution of the charge all along the span.

All parts of the structure such as pipes, angles, frame stabilizers and base beam are hot galvanized.

The new conception of the truss rod with forged extremity guarantees a very easy installation, and high strength.



The optimal solution



## Structure VXP equipment

### THE TOWERS VXP

The V frame structures are carefully designed to support : 48, 55 and 61 m spans in the standard diameters of 127, 141, 168 or 193 mm.

### COUPLING

A cardan joint type is used as a connection between 2 spans.

Over sized, it is able to absorb irregularities of the ground.

Gasket boot included between two half aluminium couplings assure integral path of the water flow and a very easy gasket dismantling. The possibility to replace the gasket without disconnecting the structure results in easy maintenance.

### TOWER ELECTRIC BOX

An articulated connecting stainless steel rod with cam and safety switch ensures a perfect alignment, and a thermal and magnetic protection controlling electric motors according to European safety rules..

### TRANSMISSION SHAFTS

Well protected, they are purposely designed to provide the best connection between the gear motor and the wheel gearboxes. Their elasticity is able to absorb shocks when starting and as a consequence doubles the life of the wheelgearboxes.

### GEAR MOTOR UMC Central cover processed with anti-corrosion

- Ratio of 1/40 - Motor size 3/4 HP - 0.55 kw: the high operational efficiency reduces power requirements of the equipment.

### WHEEL GEAR BOXES UMC 740

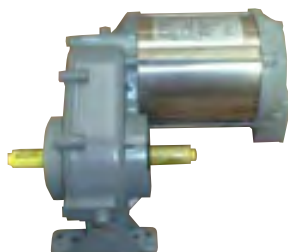
Heavy duty worm wheel gearboxes, oversized 2" 1 /4 axle with taper roller bearings. High strength cast iron bull gear for long life, hardened stress proof worm gear. Expansion chamber to allow oil expansion.

### WHEELS

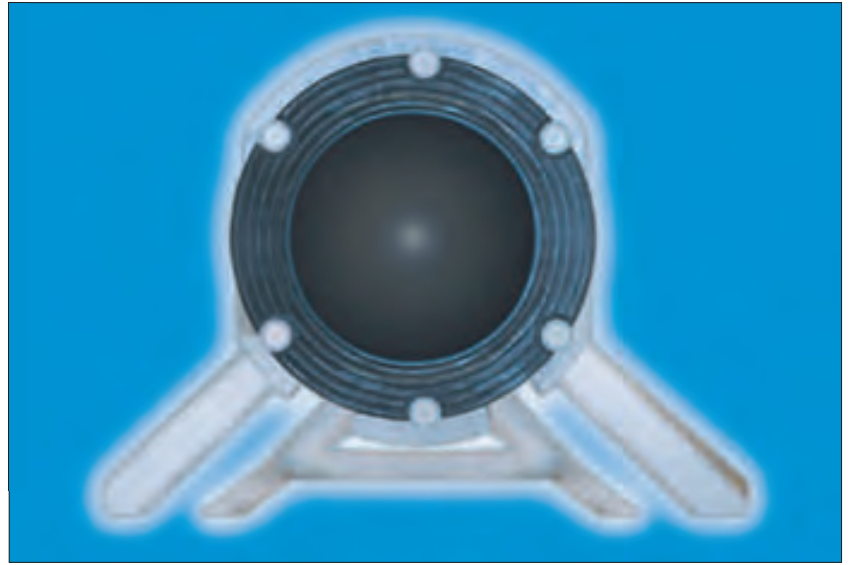
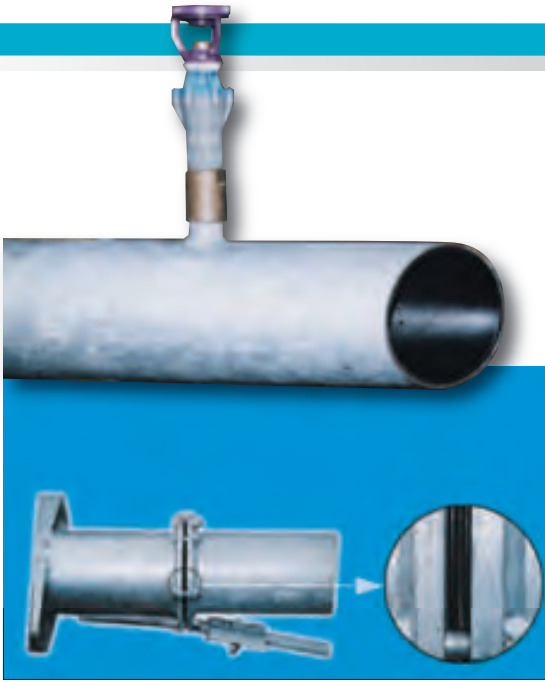
With galvanized rim and valve shield can fit either 12.4 x 11 x 24 or 14.9 x 13 x 24 and in option for wheels 16.9 x 24 and 11.2 x 38 or other on demand sizes.



Cable guidance system (optional)



# POLYCHEM



## The pivot hoses anti corrosion technique

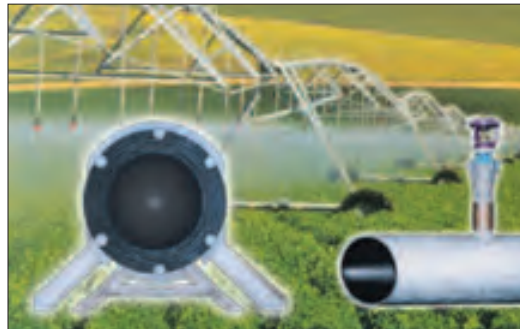
The pivot hose polyethylene lagging technique eliminates corrosion : longevity, economy, safety. in  $\varnothing$  141, 168, 193.

### The polychem technique :

Internal protection of galvanised steel pipe by a 4 mm thick high density polyethylene pipe formed by the hot pressure process.



- Total corrosion protection / Wear protection
- Improved flow coefficient
- Impervious to corrosive water
- Adapted for all modern techniques : Chemical and fertilizer distribution
- Pivot metallic structure and hydraulic performance longevity guaranteed.



The optimal solution



# REMOTE MANAGEMENT



Irrifrance

Reel machines



## Drive and control with GSM transmission

With the Pivodoseur 2 or the Pivocontrol equipped with GSM modem, it is possible to communicate with the pivot through cellular phone in order to :

- Program the irrigation,
- Receive data from the pivot about the present program,
- Get information on the irrigation operation and on a possible dysfunction as well as to detect the origin of the problem.

The communication is received and sent by SMS messages.

Pivots - Lateral moves



## IMS : Irrigation Management System

### IMS : Irrigation Management System Remote management by GSM or Radio

IRRIFRANCE has conceived the IMS (Irrigation Management System) to allow the farmers manage, all together and simultaneously, all the irrigation systems (hose reel machines, pivots, lateral move and even solid set systems).

IRRIFRANCE puts the most advanced technologies at a hand reach of of users.

New functions were included in this program, based on the experience and know-how of IRRIFRANCE, particularly the simulation of real-time irrigation, decision-making assistance, best opportunity calculation and also an expertise mode which suggests to the user the most efficient choice to make.

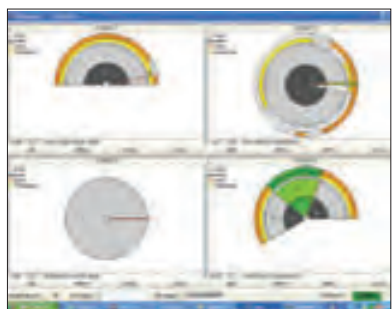
### Precision and efficiency of irrigation = water saving

The IMS allows a simultaneous remote management of all irrigation systems.

Time and moving saving, absolute traceability of all fertigation inputs, compatibility with all previous piloting systems (irridoseurs), low cost investment, operating and maintenance costs close to zero. The IMS of IRRIFRANCE, connected to internet and GSM makes the irrigation enter a new era. The IMS is the guaranty of an irrigation of precision.

The IMS allows to collect external information and integrate them : weather station, tensiometers, etc..., with decision making : automatic stop or a simple interruption in case of rain, wind or anti-frost security.

The IMS ensures the management of pumping stations and electric generators (start, stop, and remote maintenance), desservant the irrigation network.



Solid Set Systems - Pipes

Drip irrigation



# PIVOFLEX



## **Increase your irrigated area to increase your yield :**

PIVOFLEX is an articulated coupling of our VXP range.

It allows the spans following this type of coupling to run behind an obstacle (trees, poles, buildings, ponds, etc...) reclaiming lands previously dry, without having to install any other irrigation systems.

The PIVOFLEX system rotates on 2 nylon supports for an optimum movement, improved liability and a longer life span.

THE PIVOFLEX has the same material and construction qualities as for the VXP range.

## **A solution adapted to your plot requirements.**

Place the PIVOFLEX system on any tower of the pivot.

The selected tower of the pivot becomes the point from which the external spans can cover an additional angle of 165° maximum, in both ways. The external spans can add up to more than 300 m from the PIVOFLEX point.

## **Gain time with the automatic realignment :**

Compared to a standard pivot, the automatic reverse system allows the external spans to come back to their initial position.

The PIVOFLEX coupling system realigns the spans and then resume its work just like a standard pivot.

## **Is compatible with all existing VXP pivots :**

The PIVOFLEX system can be installed on any existing VXP pivot.

# RETRACTABLE OVERHANG 28 M VXP



To enrich its range of pivots and lateral move machines Irrifrance launches the retractable overhang. This system optimizes the irrigated areas by pivots, avoiding obstacles, woods, poles, sheds, etc... Completely automatic and secured, it allows to stop the pivot's advance by releasing the gate at the entry of the obstacle. Then the water is drained out of the overhang, which will swing around by 90° with an automatic locking in position. The pivot starts its course again, up to the next gate (door), from which the overhang deployment will occur and will start to irrigate again. The swing overhang 28m VXP is compatible with all models of the Irrifrance VX and VXP range pivot.



The optimal solution



# MOBILE PIVOTS



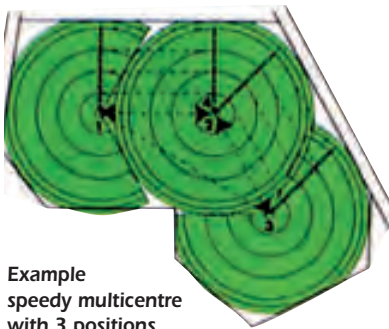
*Speedy Multicentre*



*Towable pivot*



*Mobile pivot on skid*



Example  
speedy multicentre  
with 3 positions

## The Speedy Multicentre

A technical solution to optimize your Irrifrance Pivot

It irrigates like a centre pivot but moves from one position to the next (without a tractor) like a lateral move, conveniently driven by an electric guidance box.

The central unit of the multicentre is supported by 2 swing-out wheels which enable easy and safe frequent moves.

This machine is easy to adapt to different field configurations and sizes as well as to different crop growing techniques.

## Towable pivot



This system which enables the pivot to be towed lengthwise is particularly relevant for plot watering in the rotation plan of the farming.

This concept results with the irrigation of two or more fields.

The movement of the machine from one to the next position requires a tractor after the user has turned the wheels of the spans in the position to be towed

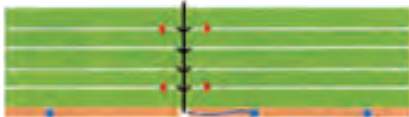




# LATERAL MOVE



## Lateral move for rectangular plots (front/back irrigation)



### RM2 :

Front/back irrigation  
Available in movable version,  
with articulated weeled



### RM2



### RM 2/4



### RM 2/4 PL



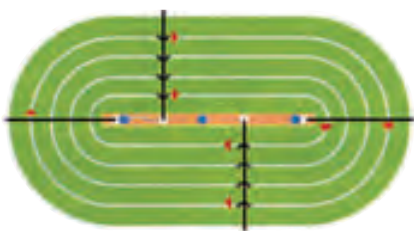
### RM 2/4 PL :

Front/back irrigation  
on channel

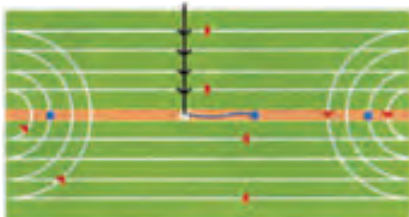
### RM 2/4 :

Front/back irrigation  
with automatic reverse system

## Lateral move to irrigate plots: hippodrome type or complex geometry



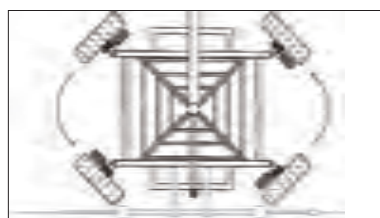
### RM4 VE /L et RM4T/TD "Hippodrome" irrigation



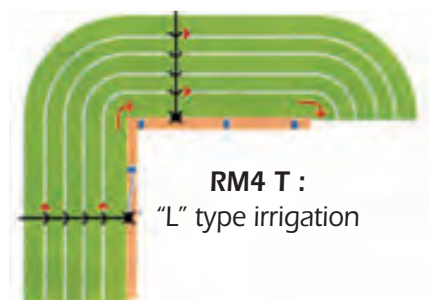
### RM4 VE/L et RM4T/TD Internal rotation

### RM4 VE /L et RM4T/TD :

Lateral move can work front  
and back  
with a rotating option  
at both ends.  
These rotations can be internal  
without water ,  
or external with water .  
A double nozzle chart  
is able to ensure  
a uniform application

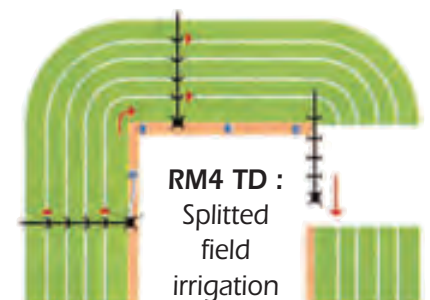


Rotation of the RM4 TD cart



### RM4 T :

"L" type irrigation



### RM4 TD :

Splitted  
field  
irrigation



The optimal solution

# LATERAL MOVE RM2 / RM2/4

## One axle, two or four wheel-drive



**LATERAL MOVE**

**RM4/VE**

4 wheel-drive, two motors

**RM4/L**

4 wheel-drive, four motors





# LATERAL MOVE RM4T/TD

## Four independent wheel-drive



**LINEAR MOVE  
RM4TD**  
The four wheels cart  
are towed thanks to a  
forth cinematic chain



The optimal solution



# LATERAL MOVE RM 2/4 PL

## Specialized in ditch feed



Irrifrance

Reel machines

Pivots - Lateral moves

Solid Set Systems - Pipes

Drip irrigation

# LATERAL MOVE EQUIPMENT



## GUIDANCE SYSTEMS

The accuracy of the alignment is controlled by a skid positioned in a furrow marked on the ground.

The skid is fitted on articulated bar transmitting the information to a guidance box.

## ELECTRIC POWER SUPPLY

Power to the lateral move can be supplied via a dragged electric cable (380 V from the network) or by a diesel generator fitted on the cart.



## WATER SUPPLY

Special lengths of 90, 100, 110 or 125 mm drag hose are used to supply water to the cart.

Water can also be supplied by pumping in a ditch or channel located along the course of the lateral move machine



# NOZZLE SET



For this highly important point, IRRIFRANCE has selected 4 types of nozzle sets : bubblers, sprays, rotators, sprinklers. In any case, Irrifrance with relevant computer programs constantly upgrades the choice of their equipment to maximize efficiency under all agronomic and resource conditions.

## Sprays

Produce very small droplets and reduce instantaneous precipitation



## Les "LEPA"

(Low energy precision application)

They assure a direct application of water to the base stock of the crop reducing waste by evaporation

## Rotators™ and I-Wob™

This is the best compromise between sprays and swing arm impact sprinklers. They have a high hydraulic performance and are very reliable. Rotators can be fitted directly on the main pipe or on drop tubes to be close to the crop.



## Impact sprinklers

Their wider wetted width ensures lower instantaneous application rate (IAR). Used on soils with low infiltration rates.

## End guns

Permit to increase the irrigation radius by using a raingun at the end of the pivot or the lateral move.

Booster pumps end gun are available as an option.

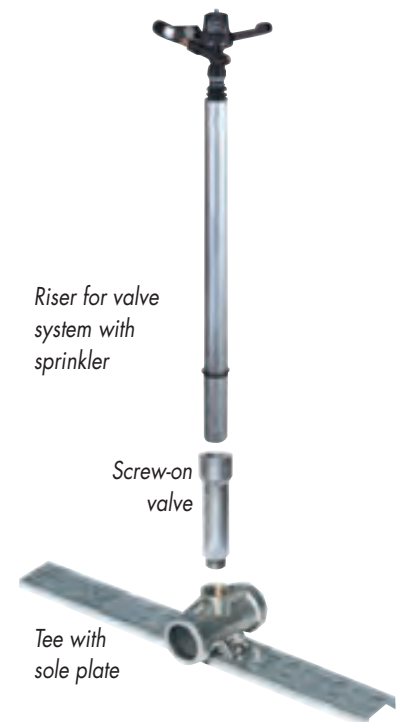
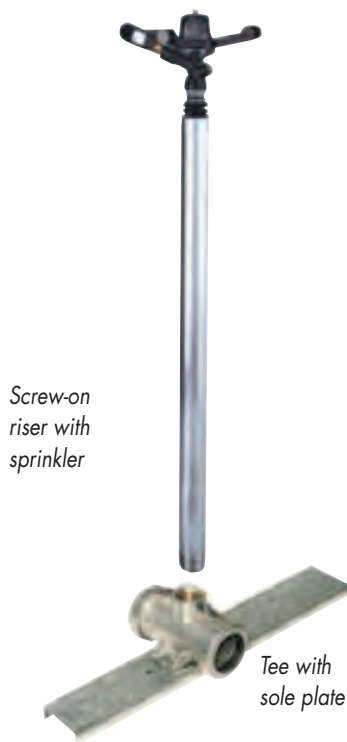






# SOLID SET SYSTEMS & PIPES

# SOLID SET SYSTEMS



## Rainfall quality

The plot is grid early in the season with pipes  $\varnothing$  50. Depending on use, pipes are made of aluminum or polyethylene.

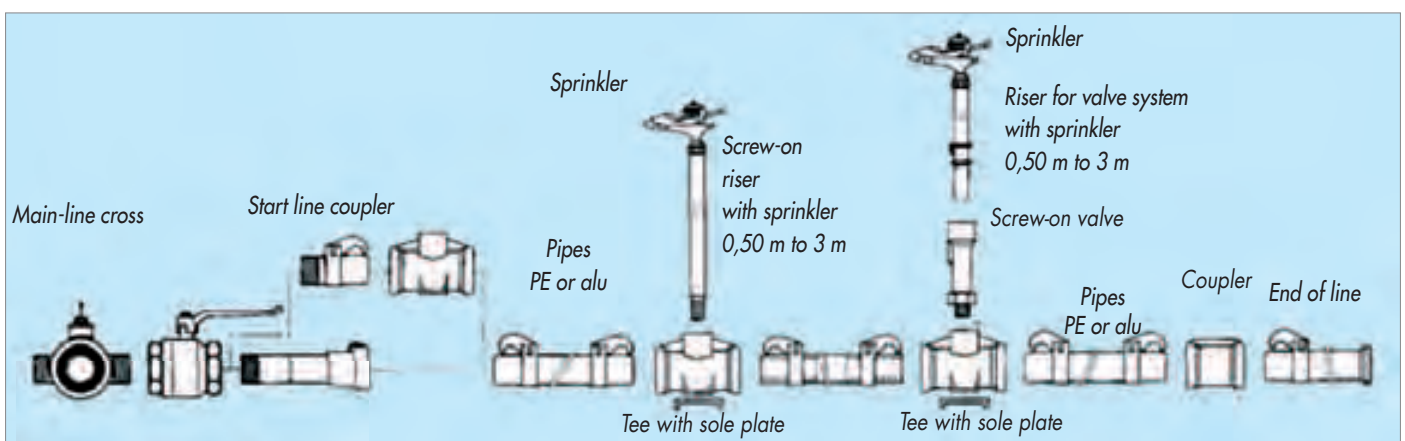
The most common locations are the 18 x 18 or 18 x 24 in windy areas.

At each position is a sprinkler : we count about 23 sprinklers per hectare.

Solid set system is easily adapted to solutions with semi-automatic management:

-Change position at night for example - or with fully automatic management : line by line or block by block.

The frequency of the system run is planned every 6 to 8 hours for an average intake of 20 to 25 mm.



The optimal solution



# ALUMINUM ø 50 POLYETHYLENE ø 50 - ø 63



## Easy and reliable technique

The sprinkler: robust, reliable in operations, a single jet for a better hold against wind and rainfall more regular at the use in very low pressures.

Riser : length 50 cm and 2.20 m, removable media of the sprinkler. Extruded aluminum, each rise (2.20 meters) weighs less than 1 kg

The riser starts (or can be removed) instantly in the ball gate. A ring provides blockage. Ball gate: made of cast aluminum and allows changes in position without stopping the group. A special gate, crimped within the Tee, seals at the removal of the riser.

A stabilizer foot (400 mm or 800 mm) maintains the stability of the whole.

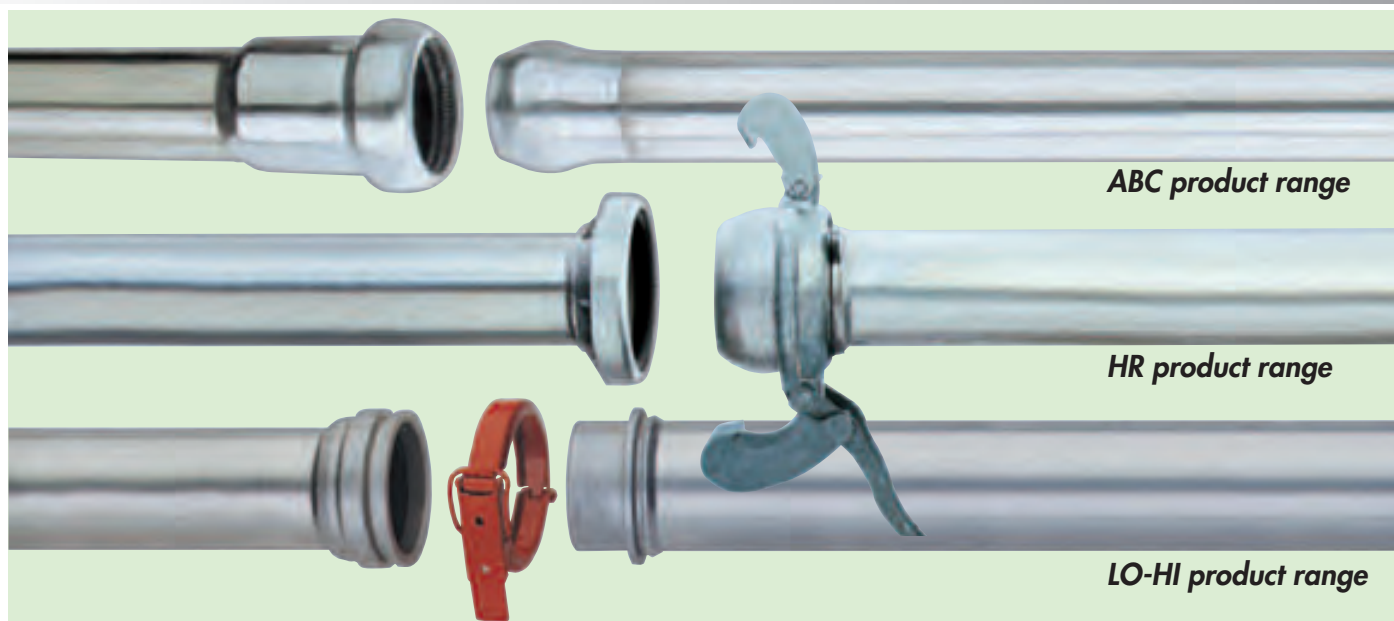
## Key benefits of Solid set system

- Low hourly rainfall for irrigation quality on all soil types.
- Adaptable to all surfaces and all forms of plots.
- Low operating pressure: economy.
- Equipment - simple and proven, reliable system.
- Lightweight and ease of implementation and change of position.
- Easy watering management thanks to the length of the positions and constant timing (6-10 h).
- Watering with no problem.
- Avoid errors in dosis.
- A system in which the distribution is the least disturbed by the wind. .
- Compatibility of solid set parts aluminum and polyethylene.

Galvanized products available on demand,  
contact Irrifrance : 04 67 25 79 14



# Pipes



## The water tight coupler ABC

### MOVABLE PIPES INTENDED FOR MOBILE INSTALLATIONS

ABC Pipe use allows a quick assembling. Hydraulic locking with a galvanized spring. Male and Female couplers are made of pressed, hot galvanized steel.

Possibility to obtain a 22° angle at all levels between two couplers. The water tightness is guaranteed by a double lip hydraulic seam as soon as pressure is on. The direction of water flow in the joining is Female-Male. It exists for this type of couplers a complete range of pressed hot galvanized steel accessories ( Tee in line, 45° and 90° Elbows, Tee, Cross, End of line) Tube conformable at standards NF A50801 et A50802. Pipes and accessories tested et CEMAGREF.

## The water tight coupler HR

### MOVABLE PIPES GUARANTEEING A PERFECT WATER TIGHTNESS

Couplers used for pumping station, suction part and stemming accessories. Female and Male aluminum couplers welded at each extremity of the aluminum pipe. Possibility to obtain a 30° angle at all levels between two couplers. Mechanical locking with two locking rings. A "O" ring seam compressed in his seating when locking guarantees the water tightness. The direction of water flow in the joining is Male-Female. It exists for this type of couplers a complete range of pressed hot galvanized steel accessories (Tee in line, 45° and 90° Elbows, Cross, End plug, Valve). Tube conformable at standards NF A50801 et A50802. Pipes and accessories tested et CEMAGREF.

## The water tight coupler LO-HI

### TIGHT PIPES FIXED AT LONG LENGHT BRINGING WATER AT HIGH PRESSURE

Principally used at the departure of the pumping station, the pipes LO-HI can be used also for low-pressure flow ( 1 bar maximum) without locking ring clamp. Mechanical locking is doing with steel ring clamp at high pressure. Possibility to obtain a 30° angle at all levels between two couplers. Mechanical locking with two locking rings. A double lip hydraulic seam guarantees the water tightness as soon as pressure is on. The direction of the water flow in the joining is Female –Male. It exists for this type of couplers a complete range of pressed hot galvanized steel accessories (Tee in line, 45° and 90° Elbows, Cross, End plug, Valve) Tube conformable at standards NF A50801 et A50802. Pipes and accessories tested et CEMAGREF.



The optimal solution



AMS product range



Tee Flange hydrant exit Farmland



Flange hydrants to be welded



Connection exit Farmland



Elbow ABC



Cross CIA / HR



Tee in line Farmland

## AMS Product range

### MOVABLE PIPES INTENDED FOR FEEDING REEL MACHINES

Mechanical locking with locking ring fitted with a spring. During pipes joining, look after position the locking rings in the vertical level and not on the side. Males and Females aluminum couplers, welded at each extremity of the aluminum pipe. The water tightness is guaranteed by a double lip hydraulic seam as soon as pressure is on. The direction of water flow in the joining is Female-Male. It exist for this type of couplers a complete range of pressed hot galvanized steel accessories. (Tee in line, 45° and 90° Elbows, Cross, End plug, Valve) Tube conformable at standards NF A50801 et A50802. Pipes and accessories tested et CEMAGREF.

Weights of pipes with connection

Weights of pipes with connection											
Ø of pipe	2"	3"		4"			5"			6"	
Length	6 m	6 m	9 m	3 m	6 m	9 m	3 m	6 m	9 m	6 m	9 m
ABC	3,1	5,1	-	-	-	-	-	-	-	-	-
HR	2,7	5,5	-	6,4	8,7	11,3	9,1	12,8	15,1	-	-
LO HI	-	-	-	-	-	-	-	10,1	12,6	13,2	17,3
AMS	-	4,0	5,9	-	6,5	9,1	-	8,7	11,2	-	-

#### NEW:

Irrifrance provides a selection of motor pump group, convenient for different irrigation solutions.

For further information, contact the Project Department : +33 (0)4 67 25 79 14.

Pressure (bars)

Ø"	Ø mm	ABC	HR	LO-HI	AMS
2"	50,7	12	16	-	-
3"	76,0	14	16	-	14
4"	101,4	-	14	-	14
5"	127	-	-	18	12
6"	152,4	-	-	18	-







# LOCALIZED IRRIGATION

# LOCALIZED IRRIGATION...



## A reliable and optimized system



A process born from a long experience:

Spray-lines equipped with gauged-fits offer a significant improvement to localized irrigation. This technology was developed by professional engineers from the "Compagnie du Bas-Rhône et du Languedoc (BRL)" after twenty years of experimenting in irrigation, the establishment and exploitation of hundreds of thousands of hectares in France and the world.

Facilities have been working perfectly for more than 15 years in hazardous weather conditions (salt water, high temperatures, corrosive conditions) in Tunisia, Morocco, Saudi Arabia, Syria, Libya, Yemen and Benin.

## An irrigation system more effective than traditional ones



Localized irrigation using DRIPLI® system is well adapted to perennial row crops and especially fruit growing. Users say that the advantages are various :

- Water saving: water is directly and exclusively brought to the roots.
- Power saving: 0,5 to 1,5 bar working pressure is enough.
- A good ground stability: no more soil pressure due to sprinkling or submergence.
- A stress free management of farm works : Spaces between rows remain dry and passable.
- A more effective health protection on foliage :  
Phytosanitary products are not washed by the irrigation.
- Fertilization is made via the irrigation system.



## DRIPLI® system key benefits:

Drip irrigation requires low water flow (2 or 4 l/h). Thus water must be of a high physico-chemical purity, a very rare quality in normal state environment. The drip irrigation system also requires sophisticated and costly water filtration equipment that are unable to eliminate disbanded materials and silt.

The large diameter of the fits, combined with a special metal forming, is very efficient against fill-up, and only necessitates a basic water filtration (recommended grid size: 360 microns).



The optimal solution



# WITH DRIPLI<sup>®</sup> SYSTEM



## DRIPLI<sup>®</sup> SYSTEM :

### A HIGH FLEXIBILITY IN IRRIGATION MANAGEMENT

Gauged fits offer a wider range of water flow (25 to 100 l/h) than drip irrigation. They enable:

- A significant dampening of soils, and a strong recovery of plantations made during dry season.
- Immediate re-formation of the wet bulb (volume of wet soil) in case of a lasting interruption of irrigation.
- Possible washing of saline soils (without any other method).



## Technical specifications of the BAS-RHÔNE System

- Black polyethylene spray-lines with various diameters (18x20 to 29x32 mm), with dispersal tubes called brass fits and protected by an anti-splash locking ring.
- Precision built metal machining: 1/100 mm.
- Filtered with a stainless steel straining screen (size 360 microns).
- Resistant to filling-up with saline or calcareous water.
- Adjustable water flow (25 to 100 l/h pressure 0,5 to 1,5 bar).
- Flow uniformity from one end of the line to the other, no matter the size of the pipe and the kind of ground, by changing fits gauges among the different rows (computer optimized).
- Water flow independent from temperatures.
- Minimum maintenance: Filtered with stainless steel straining screen



## Adaptive use of the system

- Possible fertigation, even with soluble granular fertilizer.
- Soils desalinisation.
- Adaptability to any soils and any crops.

**A very simple process, heavy-duty equipment, multipurpose, cost effective and perfectly adapted to modern farming needs:**

- No risk of filling-up
- Easy filtering
- High reliability and low maintenance
- Homogeneous distribution of water
- Large volume of wet soils
- Water and power savings
- Eventual soil washing
- Perfect for automation and fertigation

To choose the optimal solution for your agricultural project,  
call the Irrifrance project and studies department  
Phone: +33 (0)4 67 25 79 14





# **irrifrance**

## **The optimal solution**

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