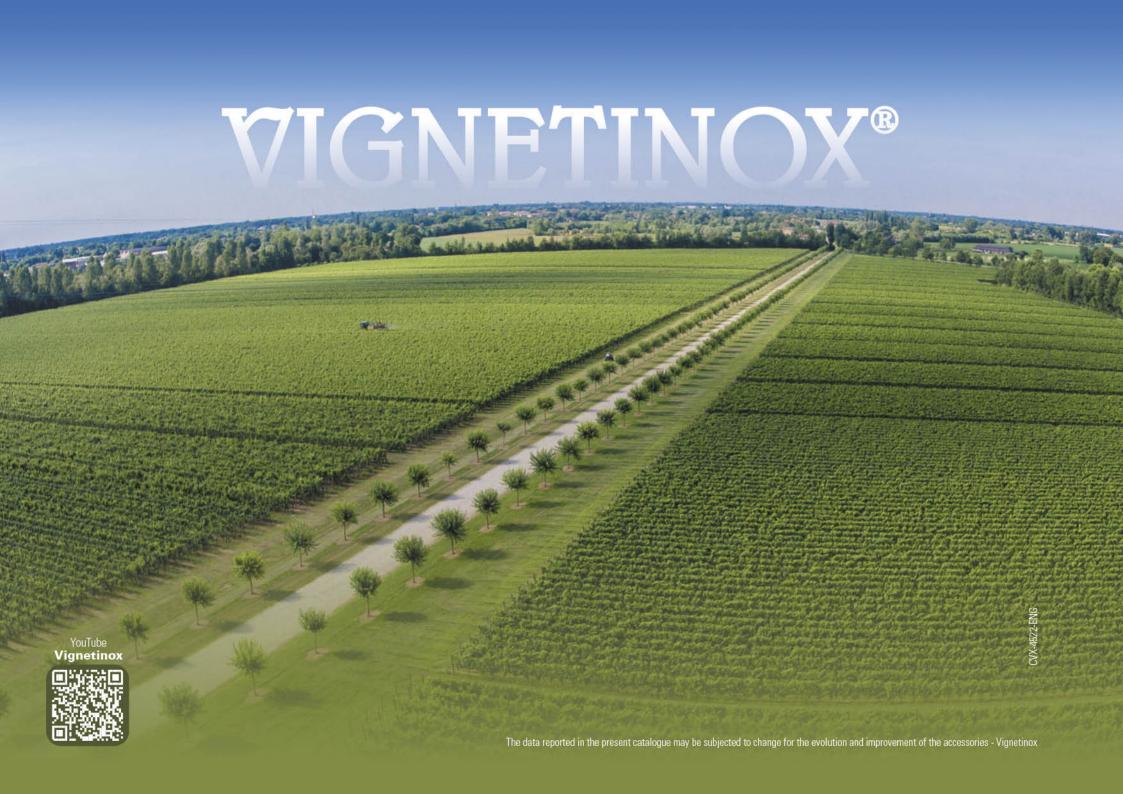


POSTS, WIRES AND ACCESSORIES FOR VINEYARDS AND ORCHARDS

made in Italy since 1979





Index

Vignetinox		
Vignetinox Range of Accessories	pp.	2-3
R&D, Patents	p.	4
Accessories for Vineyard	p.	5
Wires for Vineyards and Orchards		
Differences between Galvanized and Stainless Steel Wire	p.	6
Stainless Steel Wire	p.	7
C-TYPE wire	p.	8
Mechanical characteristics of wires	p.	9
Wire Comparison Chart	p.	10
Wire packaging	p.	11
Wire Tightening		
Tensioning clamps and hooks	p.	12
Rollers to tension wires or ropes	p.	13
Vine Support Stakes and Tutor Stake Lockers		
ART.65"Livio" tutor stake lockers	p.	14
Ties for stake lockers	p.	15
Accessories for shoots and irrigation		
Ties for vine canes, shoots and irrigation	p.	16

Anchoring Anchors 17 Anchor installation 18 Anchoring systems 19-21 pp. Vegetation Management Development of vineyard trellises: from fixed wires to moveable catch wires 22-23 Wire spacers 24-25 System using tension compensators 26-32 pp. Employment of tension compensators 27 Fixed spacers and tension compensators 31-32 pp. From "fixed" tension compensators to Dynamic system 33 Dynamic System 34 Integrated Dynamic System 35-39 External Dynamic System 40-41 Internal Dynamic System 42-43 Free Cordon 44-45 Triacca terrace trellis system 46-47 Basilia

Wire Positioning Machine

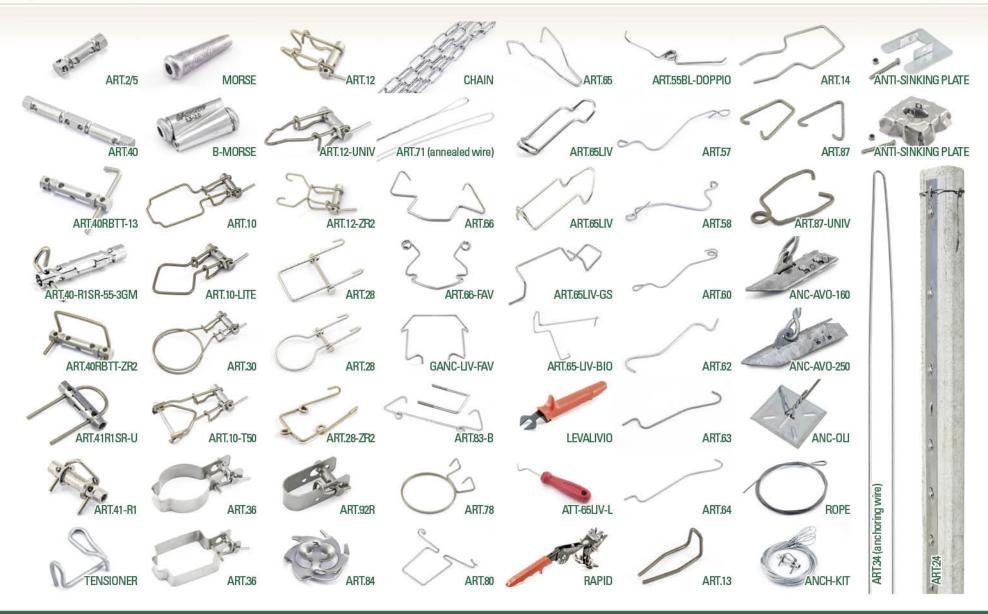
INFINITY end post
End post with closed profile INFINITY

48

49

Vignetinox Range of Accessories

Vignetinox





R&D, Patents

Vignetinox

Vignetinox Patents

Vignetinox has been the first company in Italy to get **international patents for its accessories**. Today it is the **benchmark in Europe** for its wide and complete range of products.

A range that is continuously growing in order to find the best solutions for any technical problem and in order to meet any **specific customers request**.



Zava Hook



2021

ATT.65LIV-RAPID

2020

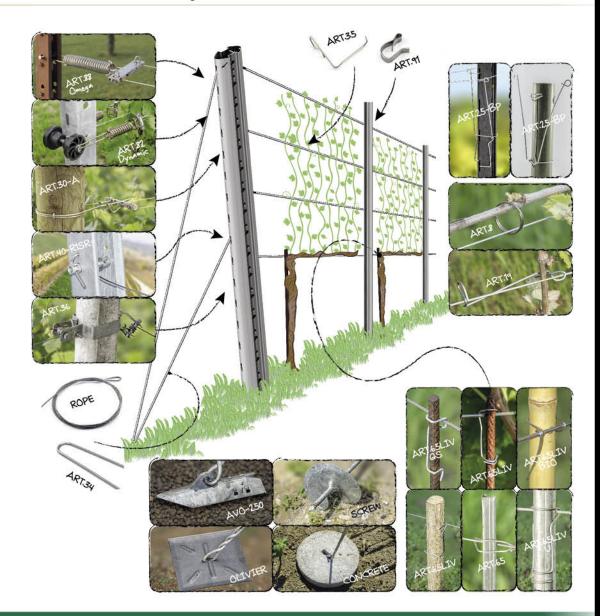
ART.65LIV-GS

Spring for anti-hail net



ART.65 LIVIO designed by Vignetinox has been the object of several attacks from third parties opposing our European patent. The board of appel of the European patent office HAS ESTABLISHED THE VALIDITY OF OUR PATENT ON April 23rd 2021.

Accessories for Vineyard



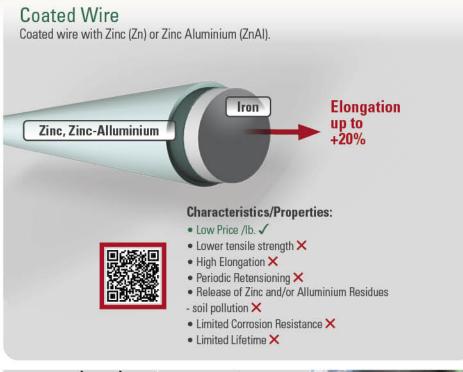


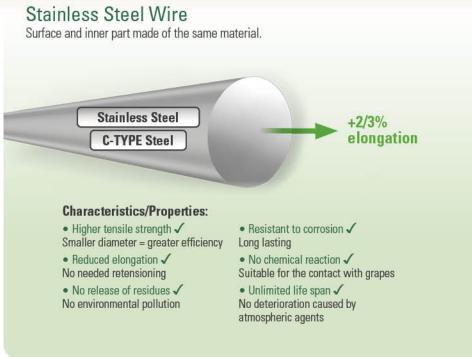
NEW LINE OF BLACKED ACCESSORIES

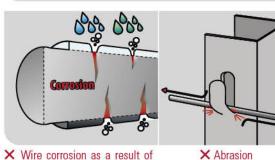
Vignetinox "BLACK EDITION"

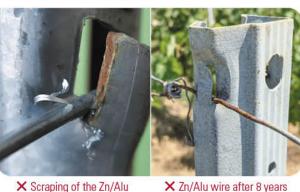
FOR A LOWER VISUAL IMPACT IN THE VINEYARD











protection of the wire



the coating break

Stainless Steel Wire
Wires for Vineyards and Orchards

Type of Stainless Steels

AISI 302: Stainless Steel for vineyards and Orchards higher tensile strength, opaque surface. *Application's conditions: no of use limitations.*

AISI 304: The standard Stainless Steel wire for Vineyards and Orchards.

Application's conditions: no of use limitations.

LEGAINOX®: For vineyards and Orchards with performances of the higher quality at a lower price than galvanized wires. (Vignetinox Brand).

Application's conditions: the wire has not to be preferentially used less than 15 km. from the sea or in presence of saline environments. It may change the surface appearance.

Pros of Stainless Steel Wire:

- Lighter for the same area ✓
- Installation time reduced √
- No maintenance √
- Long lasting ✓
- Greater convenience compared to covered wires ✓

	Galvanized wire Zn	Stainless Steel Wire	LEGAInox Wire
Load Capacity 1102 lbs = Ø	Ø 0,15 in	Ø 0,07 in	Ø 0,07 in
1lb = ft	14,8 ft	59,5 ft	59,5 ft
Labour			
1ft = \$	\$\$\$	\$\$	\$

Stainless Steel Wire Market

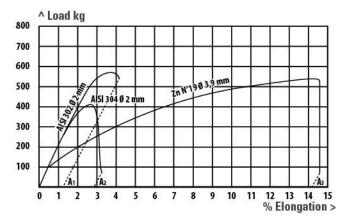
The hidden risk of cheap products:

- Limited availability;
- Different characteristics even for wires coming from in the same lot;
- Inaccurate denomination: "Stainless Steel Wire", unknown sourcing;
- · Certifications not always available or incomplete.

Wire coming from generic industrial applications:

- · Materials designed for different fields than agriculture;
- Stock lots, discards or products of second/third choice;
- Irregular characteristics and performances;
- No guarantee of specialized support.

Example: Wire tensile strength test



AISI 302 Ø 2 mm **Fmax** = 565 kg

Rmax = 199,7 kg/mm²

Elong. = 1,296 %

AISI 304 Ø 2 mm **Fmax** = 424 kg

Rmax = $135,12 \text{ kg/mm}^2$

Elong. = 2,879 %

Zinc (Zn) N°19 Ø 3,9 mm

Fmax = 537 kg

Rmax = $44,19 \text{ kg/mm}^2$

Elong. = 14,13 %

C-TYPE wire

Wires for Vineyards and Orchards

Steel corten wire

Cor-ten is a **steel alloys wire resisting corrosion** (CORrosion) specially under atmospheric conditions such as dryness/humidity/dryness cycles. Cor-ten is also **highly mechanical resistant** (TENsil strenght).

Cor-ten properties are due to **micro alloys among Copper** (cu), **Crome** (Cr), **Phosphorus** (P) and **Nickel** (Ni) **creating an Oxidised thin film**. When subjected to the influence of the weather the layer protecting the surface develops and regenerates continuously isolating the steel from external oxidation.

C-TYPE wire rust-like appearance and its chemical composition are in conformity to **European standards UNI EN 10025-5**.



Mechanical characteristics:

- Highly resistance to mechanic and atmospheric stress; ✓
- Quick installation, minimal retension and maintenance; ✓
- Resistance to wire cutting, scratch and scraping; ✓
- The even surface reduces friction and resistance to motion among post, wire and vegetation; ✓
- Environmentally friendly; ✓
- Visual impact suitable for vineyards and orchards landscape. 🗸

C-TYPE wire diameter

JDP	Diameter mm	Development m/kg	Breaking strenght	Application
11	1,6	63	225 kg	
12	1,8	50	285 kg	
13	2,0	40	350 kg	catch wire
14	2,2	33	400 kg	
	2,5	26	480 kg	fixed wire
	2,8	21	600 kg	cordon wire
17	3,0	18	650 kg	
of the last	3,6	13	850 kg	anchoring
	4,0	10	910 kg	

C-TYPE

Elongation 4/6% Diameter mm: 2,5 Weight kg ca.: 25 Width m ca.: 650 Breaking strenght kg: 480



Bar-code label for product traceability.

Mechanic characteristics of Vignetinox's wires

Tensile strenght and elongation

The more the tensile strenght is important the more the elasticity of the wire is important. The wire is stretched but it **resumes its original size when dissambled**. It is a **100% repurposable wire**. High tensile strenght equals a smaller diameter of the wire and therefore low weight when installed.



Elongation of the wire

Inox 302/304, LEGAINOX and Serie 180 steels are used to produce "springs".

They will reassume their shape even after periods of mechanical stress: gusts of wind and stress due to the mechanization.



Surface hardness

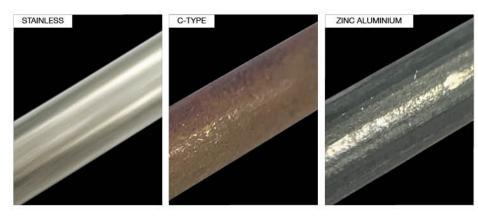
The more the coating is hard the less it is likely to be scratched. Coated wires have a Zn and ZnAl layer on top of the in Carbon (FeC) wire core.

This coating has a low hardness therefore the cutting and abrassion are more likely to affect the core (FeC).



Surface roughness

A light surface roughness reduces the friction among wire, post and vegetation.





Wire comparison chart

Wires for Vineyards and Orchards

72-						VE	GETATI	ON WIR	ES	CORD	ON W.				
		ZN 50 C	COATING	Ø mm.	2,0	2,2	2,5	2,8	3,0	3,5	4,0	4,5			5,0
1		(commercial)	100% Zn - <i>Class</i> C	JDP	13	14	- 17		17						
1		elongation % 18/20		m/kg.	40	33	26	21	18	14	10	8			6
1		R= 400/600 N/mm ²		breaking load kg .	160	200	250	320	360	500	650	800			1000
		ZN 80	COATING	Ø mm.	1,6	1,8	2,0	2,2	2,5	2,8	3,0	3,5			4,0
(sar	200	(heavy)	100% Zn - <i>Class</i> A	JDP	11	12	13	14			17				
valı	4.5	elongation % 8/10 R= 700/900 N/mm ²		m/kg.	63	50	40	33	26	21	18	14			10
age	102	R= 700/900 N/mm ²		breaking load kg .	150	220	260	320	400	500	580	790			1000
(aver		SERIES LAZ 80	COATING	Ø mm.	1,6	1,8	2,0	2,2	2,5	2,8	3,0	3,5			4,0
S	COATED WIRES (average values) Coating classes UNI EN 10244-2	elongation % 8/10	• LAZ 80 - 95% Zn 5% Al - Class A • LAZ 80 Plus - 90% Zn 10% Al - Class B	JDP	11	12	13	14			17				
l≅		R= 700/900 N/mm ²		m/kg.	63	50	40	33	26	21	18	14			10
≤	gcla			breaking load kg .	150	220	260	320	400	500	580	790			1000
旧	oatin	SERIES 120	• ZN 120 - 100% Zn - Class A	Ø mm.		1,6		1,8	2,0	2,2	2,5	2,8	3,0		3,5
18	8 3	elongation % 3/5	• LAZ 120 - 95% Zn 5% Al - Class A • LAZ 120 - 95% Zn 5% Al - Class A • LAZ 120 Plus - 90% Zn 10% Al - Class B	JDP		11		12	13	14			17		
ပ		R= 1100/1300 N/mm ²		m/kg.		63		50	40	33	26	21	18		14
1			- LAZ 120 F lus - 50 /6 Z11 10 /6 A1 - Class B	breaking load kg .	1	250		310	380	460	600	750	850		1150
ı		SERIES 180 elongation % 2/3	<i>COATING</i> • ZN 180 - 100% Zn - <i>Class</i> B • LAZ 180 - 95% Zn 5% Al - <i>Class</i> B	Ø mm.	i	1,4			1,6	1,8	2,0	2,2	2,5	2,7	3,0
1				JDP		9			11	12	13	14		16	17
1		R= 1700/1900 N/mm ²		m/kg.		83			63	50	40	33	26	22	18
				breaking load kg .		270			350	450	560	650	850	940	1050
(Sé		INOX 302/3	04	Ø mm.	1,2	1,4			1,6	1,8	2,0	2,2	2,5	2,7	3,0
alu	2007	elongation % 2/3	STAINLESS	JDP	7	9			11	12	13	14		16	17
geı	_ <u>~ & </u>	R= 1700/1900 N/mm ²	Outinia see	m/kg.	113	83			63	50	40	33	26	22	18
Vera] 9 es			breaking load kg .	200	270			350	450	560	650	850	980	1150
e) S	Stainless UNI EN 10088-3	LEGAINOX		Ø mm.		1,3		1,5	1,7	1,9	2,1	2,4		2,8	3,1
#	5	elongation % 2/3	STAINUESS	JDP		8		10				15			
I≅		R= 1700/1900 N/mm ²	OUTION SOC	m/kg.		100		75	58	46	38	28		21	17
le				breaking load kg .		230		320	390	500	620	800		980	1150
UNCOATED WIRES (average values)	는 ie ie	C-TYPE		Ø mm.	1,6	1,8		2,0	2,2	2,5	2,8	3,0	3,6	4,0	
18	mic posit	(new product)	NATURAL OXIDE	JDP	11	12		13	14		4	17	700100		
13	Chemical Composition EN 10025-5	elongation % 4/6 R= 1000/1200 N/mm ²		m/kg. breaking	63	50		40	33	26	21	18	13	10	
	3	n= 1000/1200 N/mm²		load kg.	225	285		350	400	480	600	650	850	910	

Wire packaging Wires for Vineyards and Orchards

Packaging options
AISI 302/304, LEGAINOX®, C-TYPE and galvanized wires.



Pallet of approx. **990** kg* (2204 lb) 66 spools of **15** kg ea (33 lb).



Coils of **25** or **50** kg ea (55/110 lb) tied horizontal. Total 500 kg* (1102 lb).



Pallet of approx. **500** kg* (1102 lb) coils of **25** or **50** kg ea (55/110 lb) Packed horizontal.



Pallet with reel of approx. 500 kg* (1102 lb)



Packaging in wooden crates on pallet approx. **500** kg.



Spool of 15 kg (33 lb).



Coil of 25 kg (110 lb).



Coil of 50 kg (110 lb).



Pallet of about 1000 kg* (2200 lb) with 2 wire spool of about **500 kg (1100 lb) overlapped.

^{*}Minimum quantity required (500 / 990 kg - 1102 / 2180 lb).

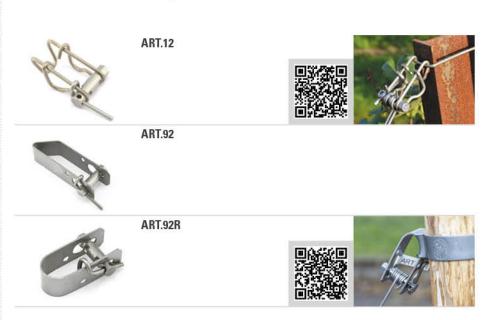
**Blue metal packaging must be returned within 6 months from delivery, otherwise it will be invoiced.

Wire Tensioning Wire Tensioning

Tension Clamps and Hooks Tension Clamps for end posts, complete with tension roller. ART.9 Strengthened clamp ART.10 ART.30 ART.36 - Square ART.36 - Round



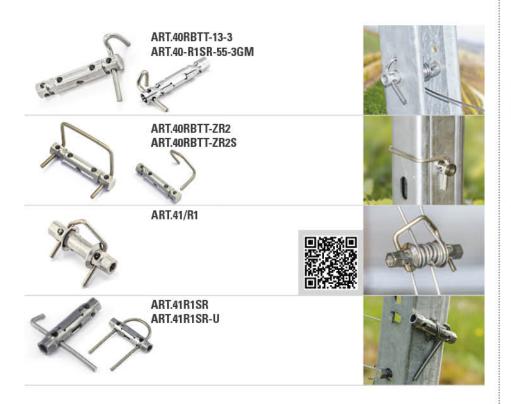
Hooks for Anchoring Trellis Wire



Wire Tensioning Wire Tensioning

Rollers to tension wires

Wire roller tensioner (lock device included).



End Post Wire Joiners

Wire joiners and tensioners. Their load capacity corresponds to 90% of the total load capacity of the wire to tighten. Wire \emptyset 2.5 mm = 883 kg. 90% di 883 kg = 794 kg.









BIMORSE



GRIPPLE



- Fast and easy to use ✓
- Limited load capacity, it does not exploit all the wires load capacity X
- Possibility of wire slipping X

SMALL = Ø 1.4 − 2.2 mm - Max. 300 kg; **MEDIUM** = Ø 2.2 − 3.25 mm - Max. 400 kg; **LARGE** = Ø 3.2 − 4.2 mm - Max. 600 kg; **JUMBO** = Ø 2.5 − 3.15 mm - Max. 600 kg.





- Fast and easy to use ✓
- Limited load capacity, it does not exploit all the wires load capacity X
- Possibility of wire slipping X

 $MONO = \emptyset$ 1.8 - 3.2 mm - Max. 400 kg; $DOPPIO = \emptyset$ 1.8 - 3.2 mm - Max. 400 kg;



Vine Support Stakes and Tutor Stake Locker



Designed to be strong, simple and quick. Once installed, it keeps the stake stable under the influence of mechanical stress. The stainless steel version is reusable. It is available for any kind of stake. It's special design does not allow the growth of the canes between the stake and the tutor stake locker no sharp ends it is safe and easy to install.

Section/Stake Type	Locker	Stainless Steel	LEGAINOX®	Galvanized
diameter from 3,5 to 4,7 mm	ART.65LIV-3.5/4.7	х		
diameter from 6 to 8 mm	ART.65LIV-6/8	x	x	x
diameter from 6 to 10 mm	ART.65LIV-6/10	x	x	x
diameter from 10 to 16 mm	ART.65LIV-10/16	х	х	x
diameter from 15 to 20 mm	ART.65LIV-15/20	х	x	x
diameter from 20 to 22 mm	ART.65LIV-20/22	х		
diameter from 22 to 24 mm	ART.65LIV-22/24	х		
diameter from 25 to 30 mm	ART.65LIV-25/30			x
20 x 20 mm	ART.65LIV-20/20	x	x	x
25 x 25 mm	ART.65LIV-25/25	х		x
30 x 30 mm	ART.65LIV-30/30	x		x
Tutor stake R12	ART.65LIV-R12	x	x	х
Tutor stake U16	ART.65LIV-U16	x		

Tools for easy application of "Livio Hook" ART.65LIV



ATT.65LIV-L Manual tool.





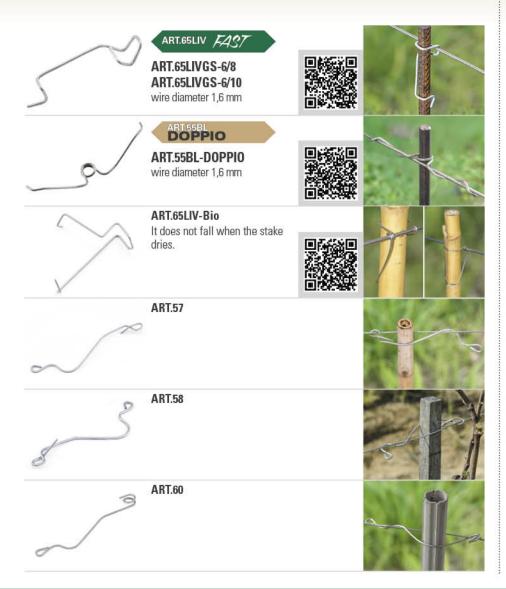


DISPUTED PATENT RIGHTS ART.65LIV

ART.65 LIVIO designed by Vignetinox has been the object of several attacks from third parties opposing our European patent. The board of appel of the European patent office HAS ESTABLISHED THE VALIDITY OF OUR PATENT ON April 23rd 2021.



	hese reasons it is dec	
	The deviation under wine	
		al is set aside.
1		the Opposition Division with the patent as amended in the
	Claims: Claim 1 of the grounds of appeal dated	main request filed with the 4 October 2018,
	Description: pages 1 to before the Board.	5 filed in the oral proceedings
	Drawings: Tigores 1 to specification	14 of the published patent
The se		The Chatcher
ii. Maj	inclinate and a second	2. 20 Yelon
Pertai	am #Tectrotically eathers	icates.





Tie for the plant trunk and posts





Accessories for shoots and irrigation

Ties for Vine Canes

Clip to tie vine canes ART.19, fast and easy to install. Be can reuse in any kind of trellis.





ART.8 (for renewable canes) Ø mm: 25, 27, 30, 33. The tie ART.8 is a ring with pre-charged extremities. It is to use and reusable in any kind of trellis. It is ideal for mechanical harvesting.





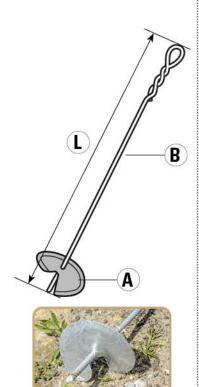
Accessories for irrigation



Anchors Anchoring

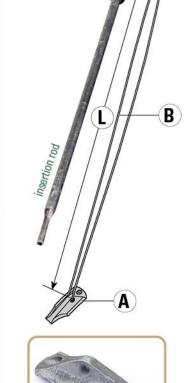
Screw

A: Ø: 120, 140, 160, 180 mm B: Ø: 12,14 mm L: 80, 100, 120 cm



Quick Installation Anchor

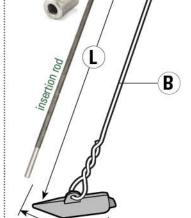
A Modelli: S4, S6, S8 B: Ø: 3, 3.5, 4 mm (superior grade stainless steel) L: 80, 100, 120, 150 cm



Avo

A: 160, 250 mm B Ø: 10, 12 mm L: 80, 100, 120, 150, 180 cm

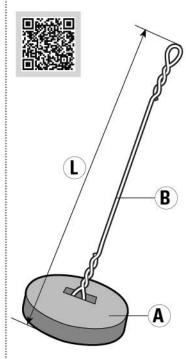






Concrete Plate

A Ø: 30, 40 cm B Ø: 12, 14, 16 mm L: 100, 120, 150 cm





Metal Plate Olivier

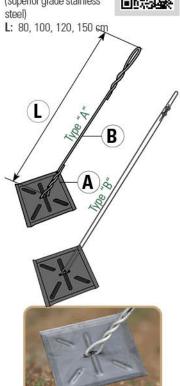
Type "A"

A: 25x25 cm B Ø: 12, 14 mm L: 100, 120, 150 cm

Type "B"

A: 25x25 cm **B** Ø: 3, 3.5, 4 mm (superior grade stainless

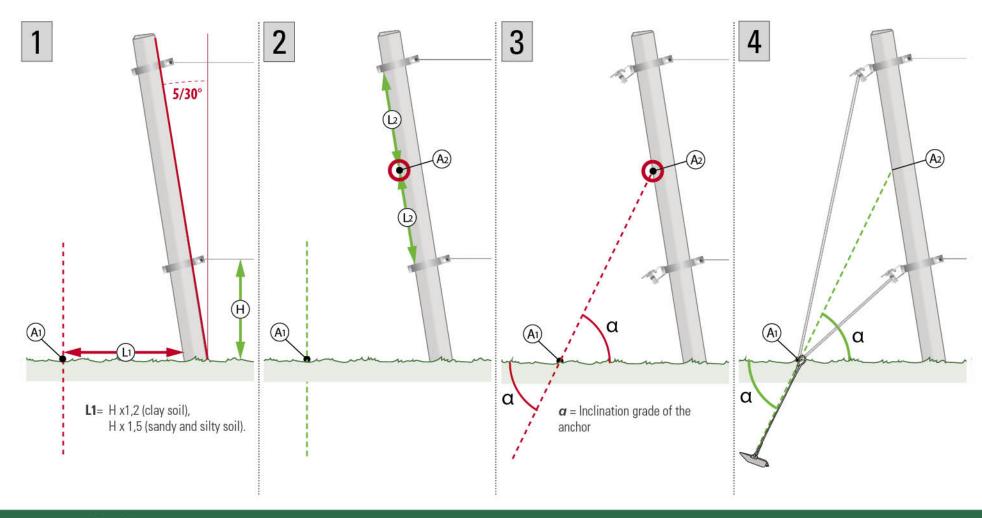






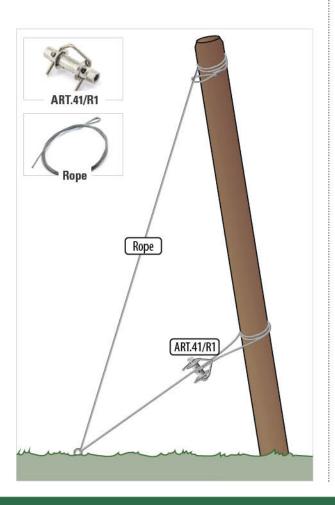
Anchor installation Anchoring

How to calculate the proper distance and the proper inclination of the anchor



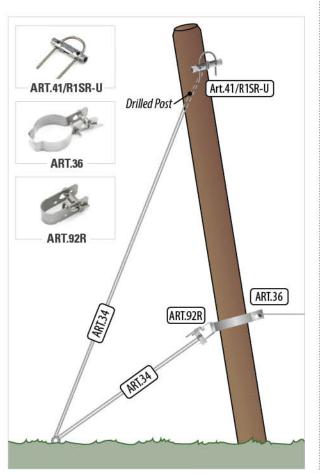
ANCHOR-KIT for any kind of post

- ART.41/R1 Wire Roller Tensioner with Stopper;
- Rope with loop.



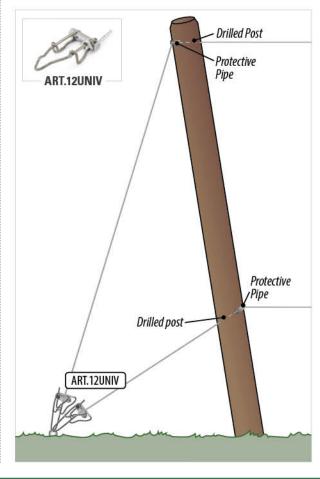
Anchoring using double anchor wire and flat smooth clamp on wooden, concrete and metal post:

- ART.41/R1SR-U Wire Roller Tensioner with "U" Stopper;
- ART.92R Tensioner Hook for Trellis Anchoring Wire;
- ART.36 Wire Tension Clamp.



Anchoring using single anchor wire and ART.12-UNIV on wooden or concrete post:

- ART.12UNIV Tensioner Hook;
- Protective Pipe.

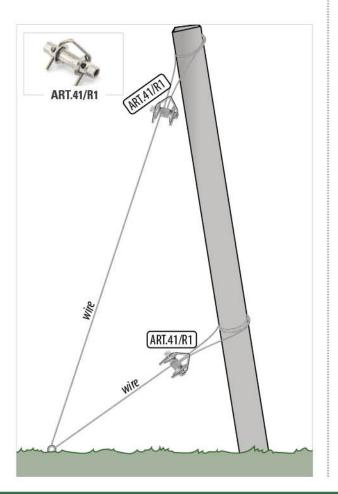




Anchoring Systems Anchoring

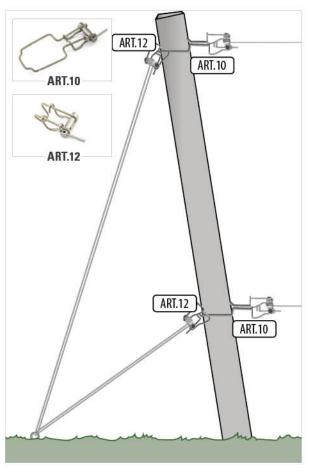
Anchoring using single or double anchor wire and ART.41/R1 on wooden, concrete and metal posts:

- ART.41/R1 Wire Roller Tensioner with Stopper.



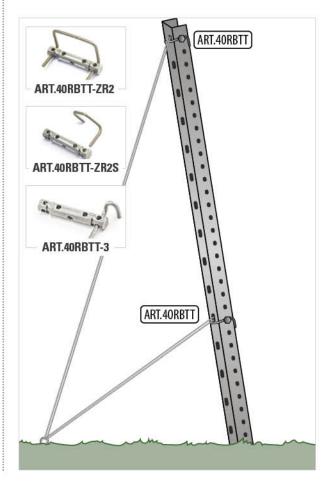
Anchoring using double anchor wire, ART.12 and ART.10 on concrete and metal posts:

- ART.10 Wire Tension Clamp;
- ART.12 Tensioner Hook for wire.



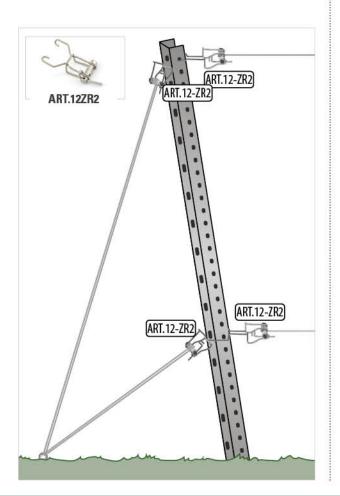
Anchoring using single or double anchor wire and ART.40RBTT on perforated metal posts:

- ART.40RBTT Wire Roller Tensioner with Stopper.



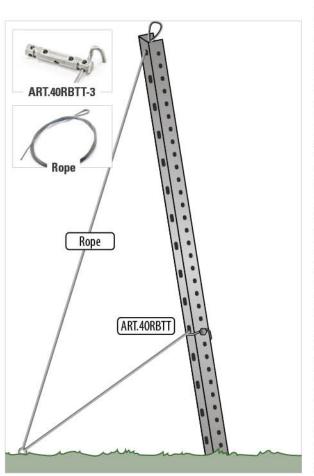
Anchoring using single or double anchor wire and ART.12-ZR2 on perforated metal posts:

- ART.12ZR2 Tensioner Hook for wire.



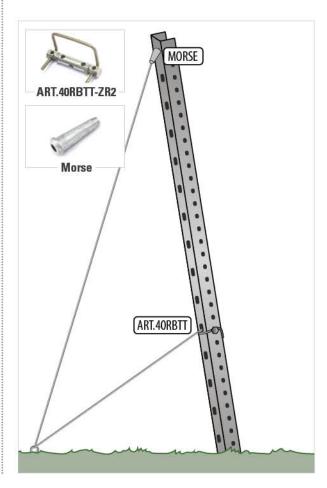
Anchoring using Rope and ART.40RBTT on perforated metal posts:

- ART.40RBTT Wire Roller Tensioner;
- Fune.



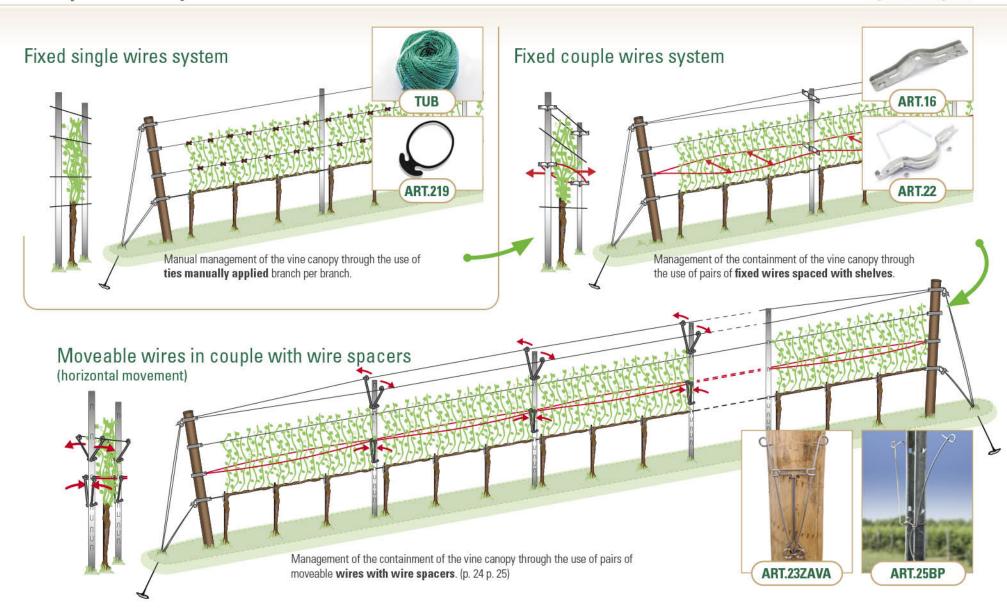
Anchoring using single anchor wire, Morse and ART.40RBTT on perforated metal post:

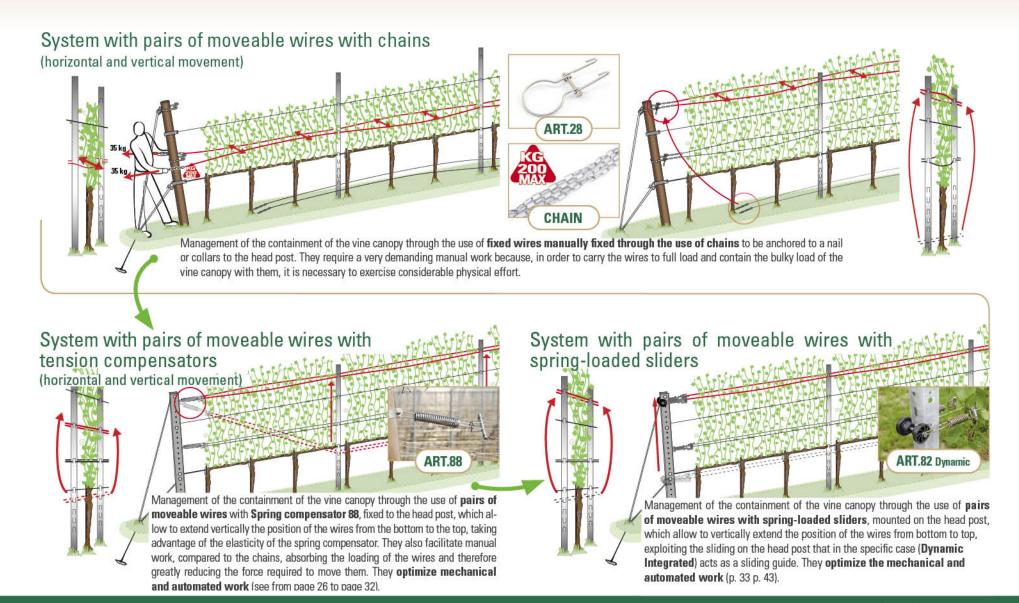
- Morse Wire tensioner;
- ART.40RBTT Wire Roller Tensioner with Stopper.



Development of vineyard trellises: from fixed wires to moveable catch wires

Vegetation Management





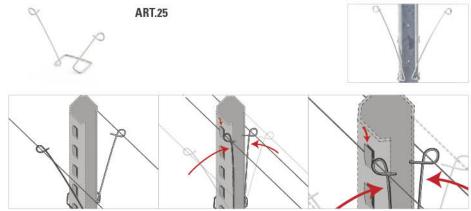


Wire spacers Vegetation Management

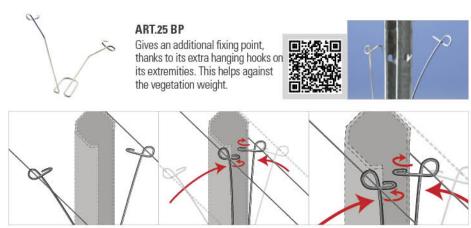
Wire spacer ART.23 for wood post



Wire spacer for metal post and other materials ART.25



ART.25 BiPlus with two fixing points



Wire spacers Vegetation Management

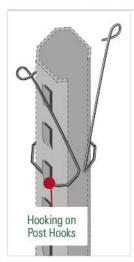
ART.25 combined with FR hook on open shaped metal posts.

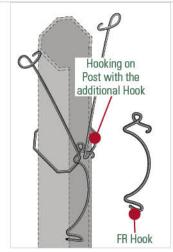
The spring spacer ART.25 can also be installed on metal posts using an additional hook (FR hook) at any height of the past.



FR Hook Hook for spring spacer ART.25 on metal post.









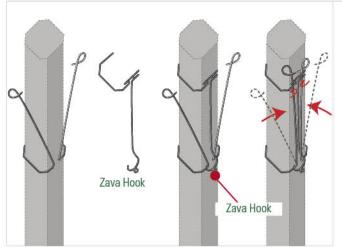
ART.25 combined with ZAVA hook on concrete and pipe shaped posts.

The spacer ART.25 can be fixed with a Zava hook on any height of a profiled closed post, its hooks allow to fix its two extremities.



ZAVA Hook

Hook for spring spacer ART.25 on concrete post.





Tension compensators system

Vegetation Management



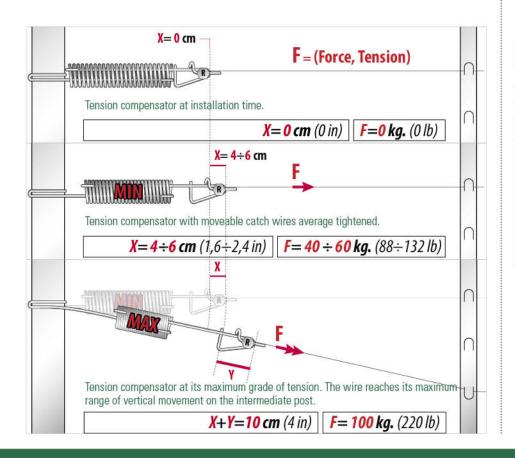


Tension compensators system

Application of tension compensators

Tension compensators are used to tighten catch wires. This permits to stretch the wires in order to move them to different heights. This operation allows the leaf canopy growth.

- 1) catch wires tightening to contain the leaf canopy;
- 2) regulation of the spring tension in order to balance the wire elongation while pulling them up during the vegetation growth.



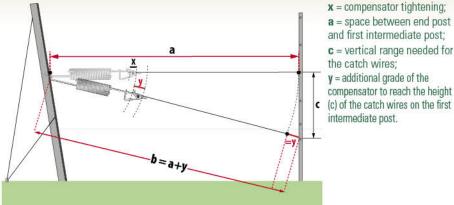
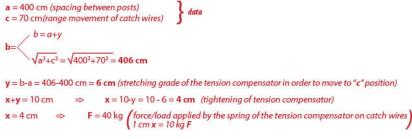
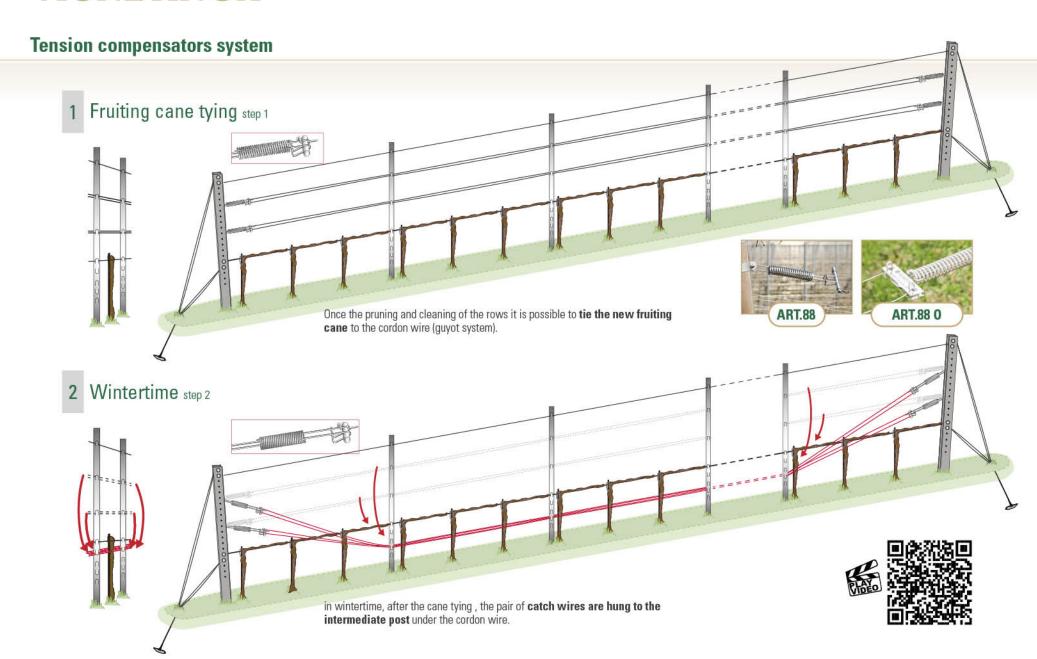


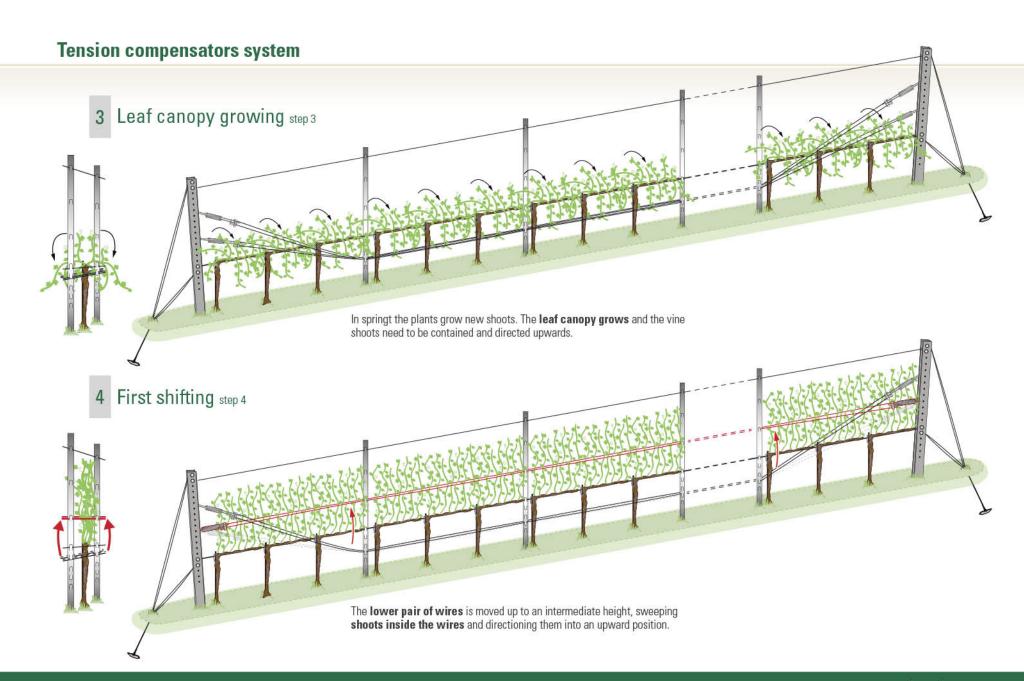
Table of the standard heights for the vertical movement of the catch wires in rows equipped with tension compensators:

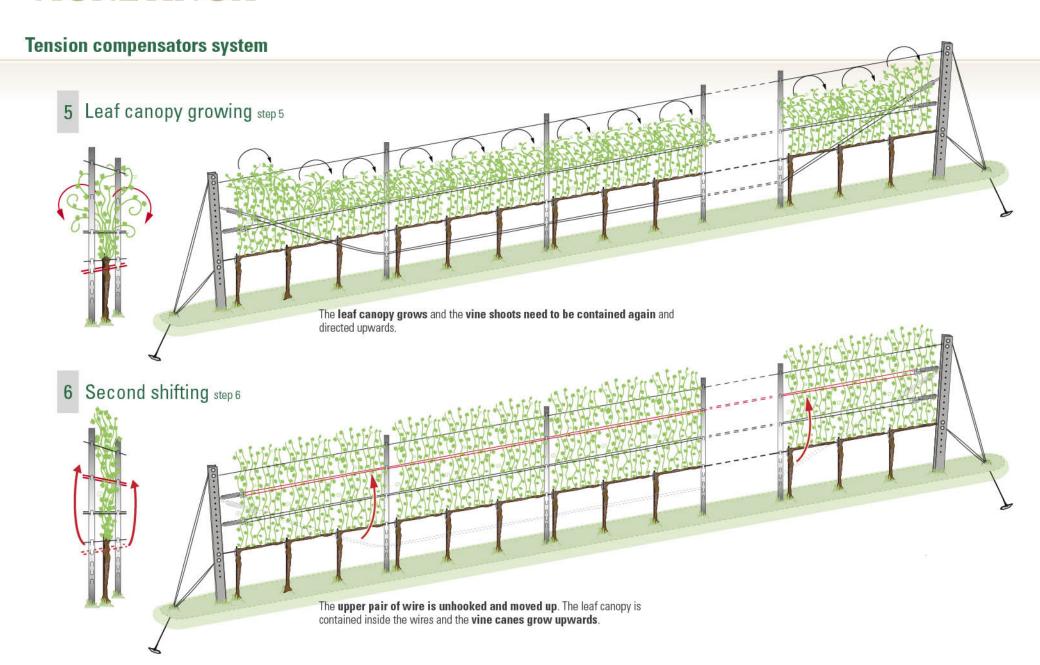
X	у	F	a	c	Х	у	F	a	C	х	у	F	а	c
cm	cm	kg	cm	cm	cm	cm	kg	cm	cm	cm	cm	kg	cm	cm
4	6	40	300	60,3	5	5	50	300	55	6	4	60	300	49,2
		2011	350	65,1				350	59,4				350	53,1
			400	69,5				400	63,4				400	56,7
			450	73,7				450	67,3				450	60,1
			500	77,7				500	70,9				500	63,4
			550	81,5				550	74,3				550	66,5
			600	85,1				600	77,6				600	69,4

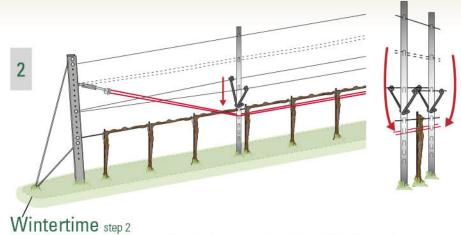
How to calculate the grade (x) of the tension compensator:

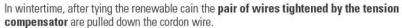






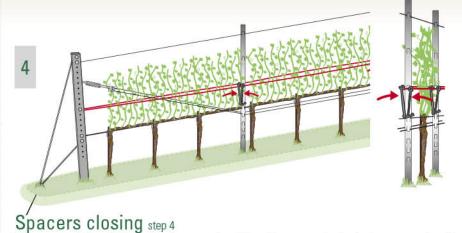




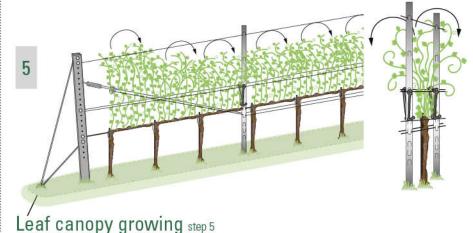




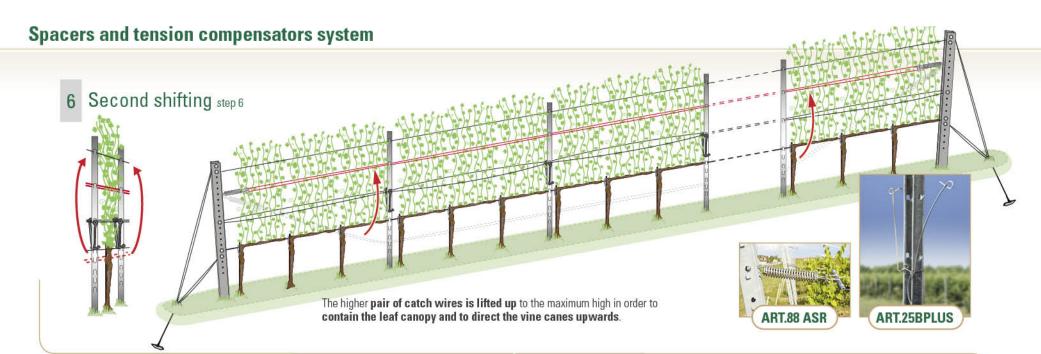
In spring the plants grows **new shoots**. The **leaf canopy grows** and the vine shoots **need to be contained** and be directed upwards.



The spacers of the middle catch wires are closed in order to contain the leaf canopy and to direct it upwards.

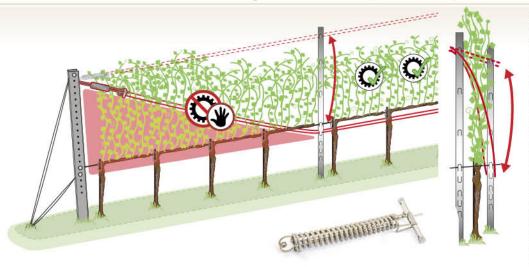


The leaf canopy grows and the vine shoots need to be contained again and directed upwards.



From "fixed" tension compensator to "Dynamic" system





Fixed tension compensator system



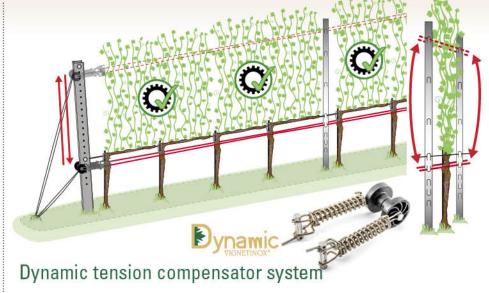
Mechanized area

The function of the tension compensator is to compensate the amount of wire needed to pull it down and hang it under the cordon wire. Thanks to the spring, the wire remains always tensioned during these operations. By lifting the catch wires up, the vine canes remain inside the couple of wires. Therefore, no labour is needed to put the vine canes inside the catch wires.



Manual work area

Using tension compensator ART.88 means working manually from the end-post to the first intermediate post. Thus, in this area, you need to put the vine canes inside the catch wires manually.





Mechanized area

Using Dynamic System (Vignetinox®) means acting with machines on the whole vineyard area, including nearby the end-post. Springs 82 Dynamic permit to pull the wires down the cordon wire for the entire row length. This means to have the wires at the same level from one end-post to the other. Consequently, by lifting the catch wires up all the fruit canes are directed upwards (no need to put the canes inside the couple of wires manually). Thanks to its sliding wheels, tension compensators 82 Dynamic help any kind of mechanical action in the whole row structure.

Advanced technology for the vegetation management

- Optimal management of canopy growth; ✓
- Can be installed it in any type of post; ✓ Universal kit for any type of post.
- Best arrangement for the mechanized dry pruning;

At the end of the cycle can be mechanically cut the old fruit cane. (Viteco, p. 43).

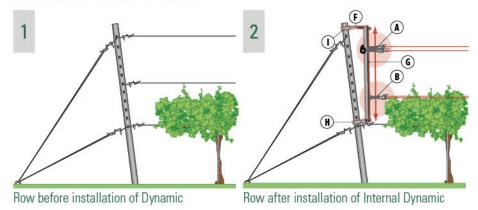
- Easy movement of catch wires both manually and automatically; ✓
- Possibility to change the height of the cordon wire or of the catch wires; ✓
- Renovation of existing vineyards built according to traditional technologies to cutting-edge, technology Dynamic with very small and non-invasive interventions. ✓



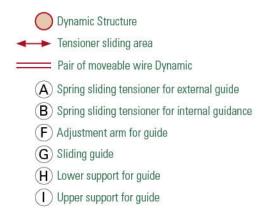
Amortized Dynamic system

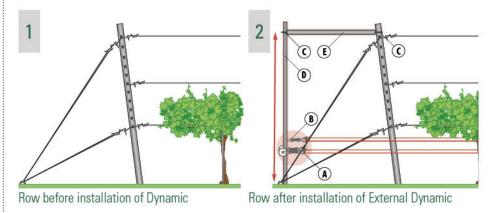
Renewal of the vineyard with Dynamic system

Internal Dynamic and External Dynamic.

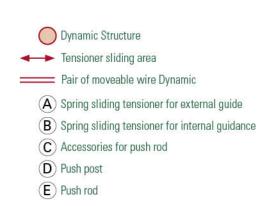


It is possible to install the Internal Dynamic System, on a traditional row, even with fixed wires without changing head post and anchorage. All the fixed wires will be removed, excluding the supporting (main) wire.



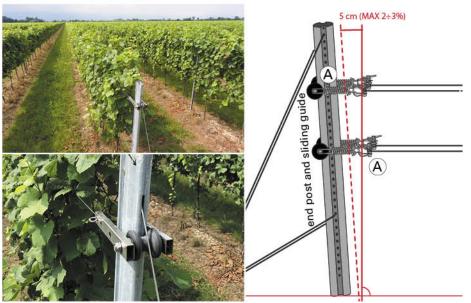


It is possible to install the External Dynamic System, on a traditional row, even with fixed wires without changing the head post, anchoring and keeping the existing fixed wires. Also the sliding guide and the rod acts as a push post and push rod, strengthening the anchor of the head post and protecting the anchor tie rods.



Integrated Dynamic system with closed profile post

The End Post closed profile acts directly as a sliding guide.





Sliding tensioner for external guide ART.TFO-DYN-INF Integrated Dynamic

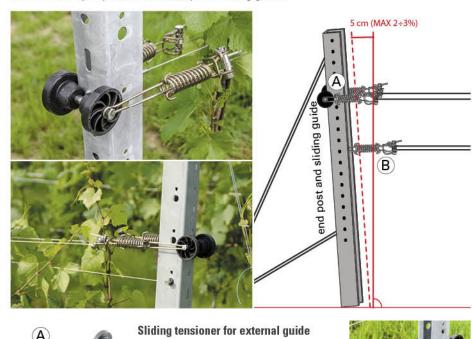


Sliding tensioner for external guide ART.82-DRE-INF Integrated Dynamic



Integrated Dynamic system with open profile post

The End Post open profile acts directly as a sliding guide.





ART.82-D-DOPPIO Integrated Dynamic







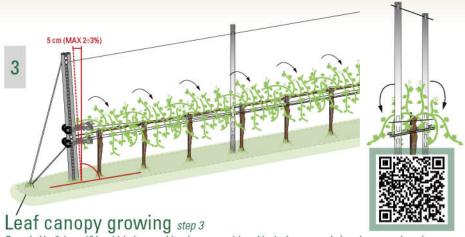
Sliding tensioner for internal guide ART.82-D-SINGOLO Integrated Dynamic



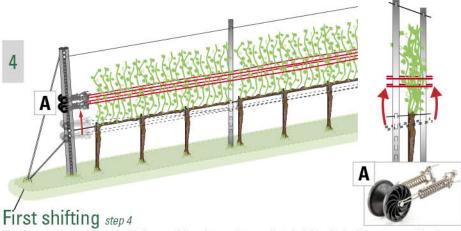


Integrated Dynamic system with closed profile end post

Vegetation Management



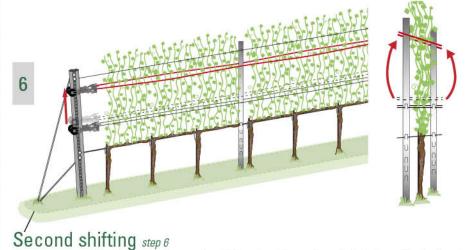
Preceded by "phase 2" in which the movable wires are positioned in the lower part, below the supporting wire. In spring the plants grow new shoots. The **leaf canopy grows** and the vine shoots need to be contained and be directed upwards.



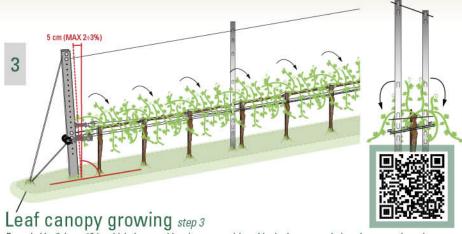
The lower moveable pair (A) is repositioned to an intermediate height which allows to contain the vine canopy and to guide the branches upwards.



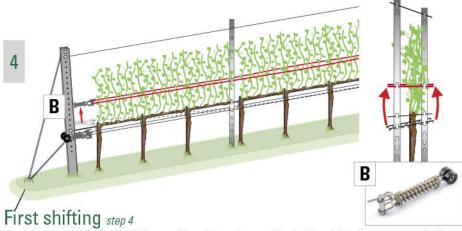
The leaf canopy grows and the vine shoots need to be contained again and directed upwards.



The upper movable pair is moved upwards until it reaches the maximum height allowed by the length of the post, so as to contain the vine canopy and drive the branches upwards.



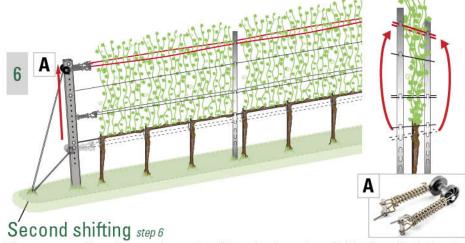
Preceded by "phase 2" in which the movable wires are positioned in the lower part, below the supporting wire. In spring the plants grow new shoots. The **leaf canopy grows** and the vine shoots need to be contained and be directed upwards.



The lower moveable pair (B) is repositioned to an intermediate height which allows to contain the vine canopy and to guide the branches upwards.



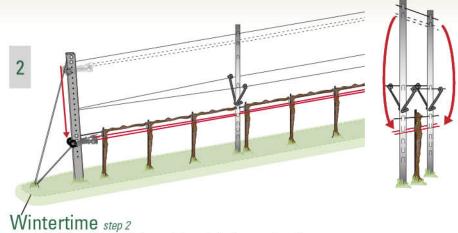
The leaf canopy grows and the vine shoots need to be contained again and directed upwards.



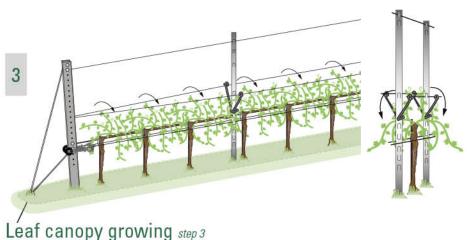
The upper movable pair is moved upwards until it reaches the maximum height allowed by the length of the post, so as to contain the vine canopy and drive the branches upwards.

Wire spacer system/Integrated Dynamic system

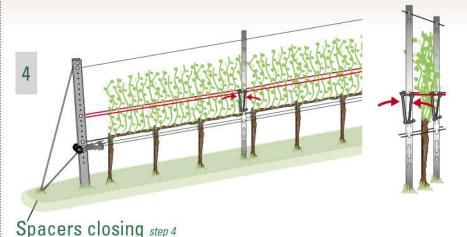
Vegetation Management



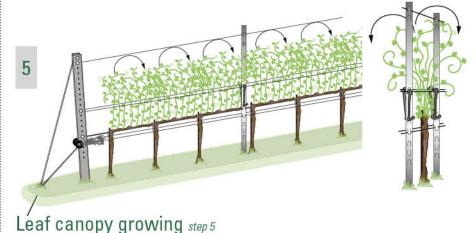
Preceded by "phase 1" in which the cane fruit are tied to the supporting wire. During the winter, after the binding of the renewal branch, the couple of moveable wires with compensators is moved below the supporting wire.



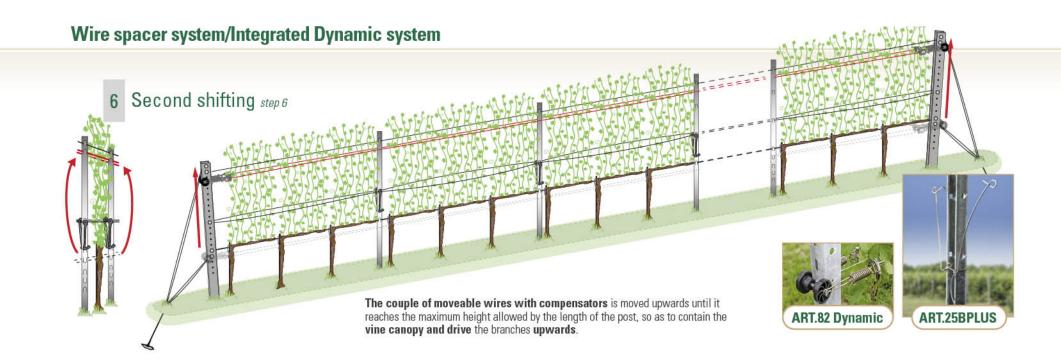
In spring the plants grow new shoots. The **leaf canopy grows** and the vine shoots need to be contained and be directed upwards.



The spacers, of the intermediate movable wire pair, are closed, thus containing the vine canopy and guiding the vine shoots upwards.



The leaf canopy grows and the vine shoots need to be contained again and directed upwards.

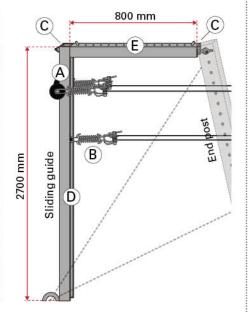


Amortized Dynamic system

External Dynamic system

It is installed on the head post outside the row area also acting as a reinforcement.







Sliding tensioner for external guide ART.82-D-DOPPIO External Dynamic



Sliding tensioner for internal guide ART.82-D-SING External Dynamic





(E)

GUID-DYN_EST Sliding guide used also as brace post, External Dynamic







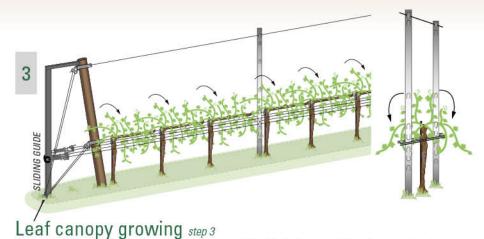


GANC-TSPIN Brace pin for horizontal brace post with M8 locking-nut

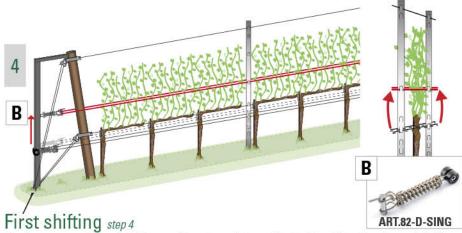


FASCIA-DYN Band to fix the horizontal brace post on wood end post





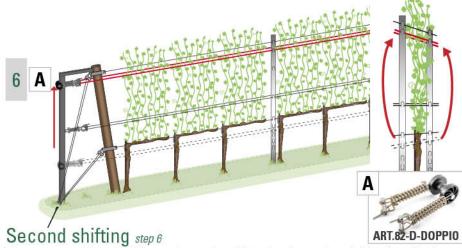
Preceded by "phase 2" in which the movable wires are positioned in the lower part, below the supporting wire. In spring the plants grow new shoots. The leaf canopy grows and the vine shoots need to be contained and be directed upwards.



The lower moveable pair (B) is repositioned to an intermediate height which allows to contain the vine canopy and to guide the branches upwards.



The leaf canopy grows and the vine shoots need to be contained again and directed upwards.

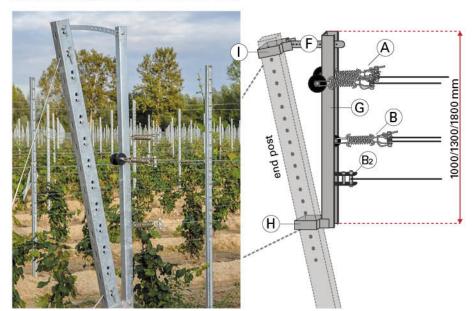


The upper movable pair (A) is moved upwards until it reaches the maximum height allowed by the length of the post, so as to contain the vine canopy and drive the branches upwards.

Amortized Dynamic system Vegetation Management

Internal Dynamic system

It is installed on the head post in the row area.





Sliding tensioner for external guide ART.82D-DOPPIO

Internal Dynamic













Regulation Arm

Internal Dynamic





Dynamic sliding guide

Internal and external guide Internal Dynamic





Lower support Dynamic

Internal Dynamic





Upper support Dynamic

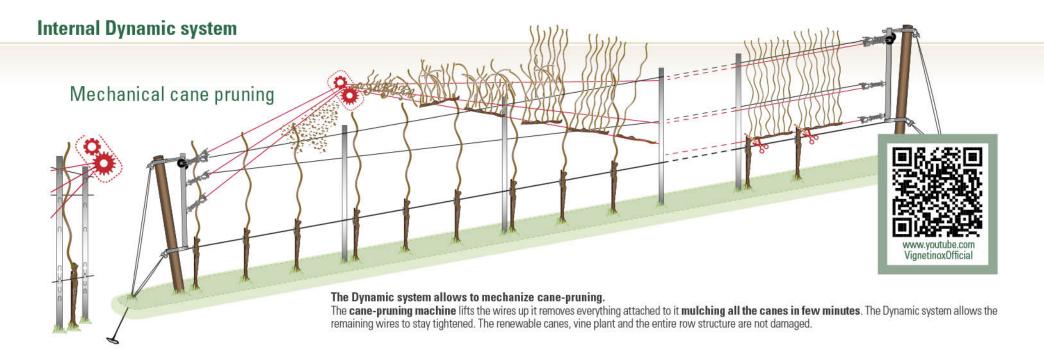
Internal Dynamic





Tensioner for internal guide ART-TF2-5-DYN

Internal Dynamic



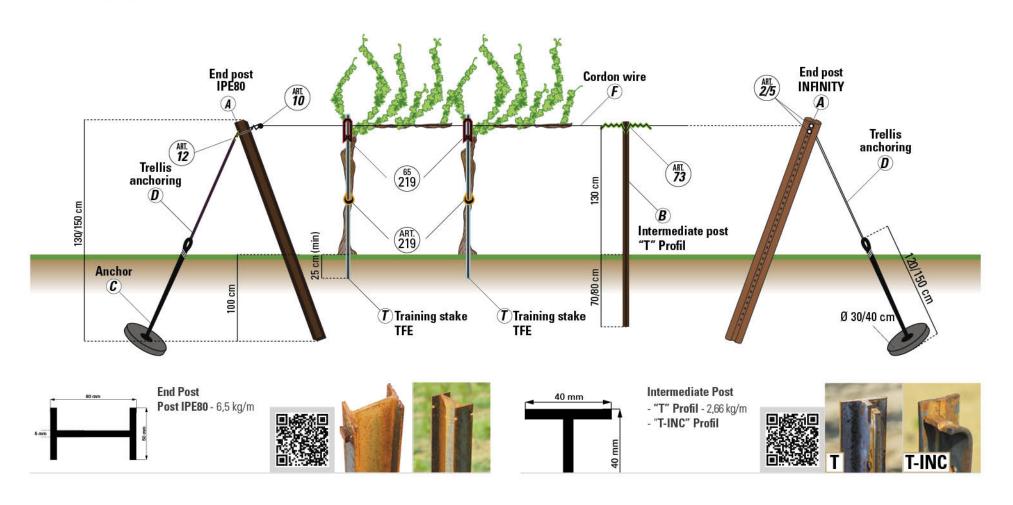


Mechanical cane pruning on vineyard with Internal Dynamic System.



Free Cordon Vegetation Management

Trellis structure and accessories



Free Cordon Vegetation Management

Trellis structure and accessories



L = mm1500, 1800, 2000, 2200

Concrete plate anchor

Screw anchor, percussion driven earth, AVO, concrete, plate.

Inox AISI (302/304 Ø 3,0 mm)

ART.34 (L 1500 / 1800 / 2000 /

Inox AISI (302/304 Ø 3,0 mm) Legainox (Ø mm 3,1)

ZN/ALU (Ø 3,5 mm, Ø 4 mm)

Legainox (Ø 3,1 mm)







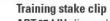
Tie for cordon wire

ART.73 Tie made of annealed wire. It is used to fix the cordon wire to the intermediate post.









ART.65 LIV clip used to fix the training stake to the cordon wire.





ATT.65LIV-L

Rubber tie

ART.219 (Nr. 5, 8, 12) Used to fix vine plants to the training stake.





Training stake

TFE Ø 8 mm, TU16, TU9, TR12, TTD, TID, fiberglass, Bamboo, Acacia.





Anchor wire

2200 mm)

C-TYPE

Cordon wire

ART.10 Clamp for any kind of End Post complete with roller tensioner.



End Post INFINITY INFINITY - 4 kg/m





Hook for anchoring wire

ART.12 Hook to be installed behind the tension clamp, complete with roller tensioner to tighten the wire







Tensioner Roller

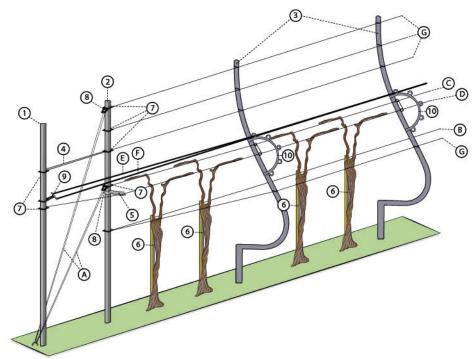
ART.2/5 - Tensioner roller for head post INFINITY





Triacca terrace trellis system

Structure and accessories for the Triacca terrace trellis



- 1) Brace post
- (2) End post
- (3) "Triacca post" (intermediate post)
- (4) Horizontal brace post
- (5) Crossarm
- (6) Training Stake and clip (ART.65LIV)
- 7) ART.10 Tension clamp
- (8) ART.12 Hook for anchoring wire

9 ART.88/A - Tension compensator

(G) Reference wire

- (10) Arc for placing movable wires
- (A) Anchoring wire
- (B) Wire for training stake
- © Upper principle wire
- (D) Lower principle wire
- (E) Upper movable wire
- (F) lower movable wire

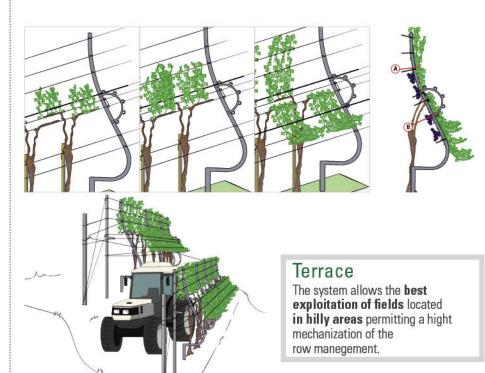
Vegetation management with Double Guyot

Optimal distribution of vegetation:

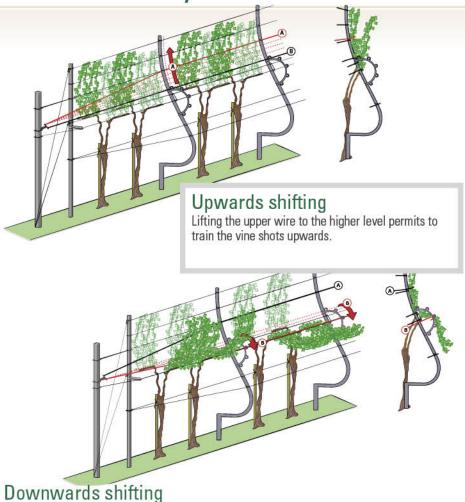
With the Triacca post, the vine shoots are distributed in an inclined position ensuring both the maximum exploitation of the leaf surface most exposed to the sun, and the protection of the grapes by the shade.

This allows greater use of the energy and the nourishment given by the solar rays.

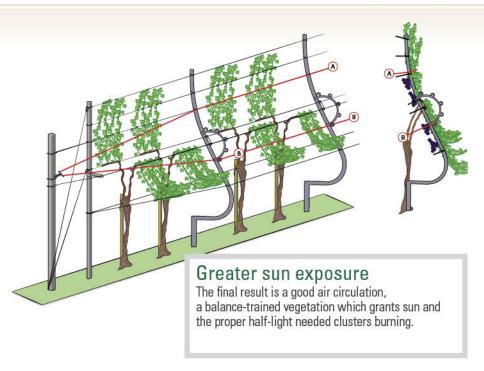
The grapes, ventilated and protected, grow and ripen without undergoing alterations from direct sunlight, from contact with other grapes, vine shoots, wires, threads and all the parts of the support of the row that could damage the integrity of each single berry thus compromising the final product (eg. organoleptic characteristics of the wine).



Triacca terrace trellis system



Pulling the lower wire to the lower level using the slots of the arc permits to train the vine shoots downwards gradually, without damaging the buds and the vine shoots. Actually the arc permits to move the wire down step by step as the vegetation grows.







Terrace trellis with Triacca post.

Basilia By Vignetinox Basilia

The wire-positioning machine



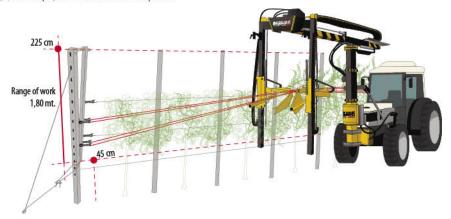
The wire positioning machine Basilia is the first automatic equipment for tractors or for self-propelled machines patented by Vignetinox. Basilia consists of an equipment that places the wires in the post hooks or slots.

it can lift single or double wires up, during the vegetation growth. So, you can direction the vegetation growth, without adding any plastic clip or any additional wire, using post hooks or slots. It can also be used with concrete or wooden posts, because it can hook the wires to the accessories installed on these kind of posts.

At the end of the season Basilia machine can hang any wire already installed in the vineyard: working so, it helps pruning.

The machine can also unhook the wires from metal post hooks or slots or from the accessories installed on concrete, wooden or fiberglass posts.

Basilia machine allows you to enter into the vineyard to lift the wires up just after a chemical treatment or in nightfall, due to the automatic sensors that feel the post presence. You can also work in the field even if it rains or with wet leaves. It can also work in vineyards with narrow rows installed in self-propelled machines or tractors. Basilia permits to work at a constant speed of around 4÷5 km/h (2,4 ÷ 3 mph) on conventional vineyards.







"New Technlology " Award Enovitis 2013 "Citation Vinitech Sifel 2012" Bordeaux.

The End Post Infinity INFINITY Post

Closed profile post 100x50

Closed and ergonomic profile post, ideal for all mechanical working, anti-torsion in all directions.

The exclusive bilateral gorge, in addition to giving it an exceptional resistance, it hulls and protects all tensioning systems.

height:

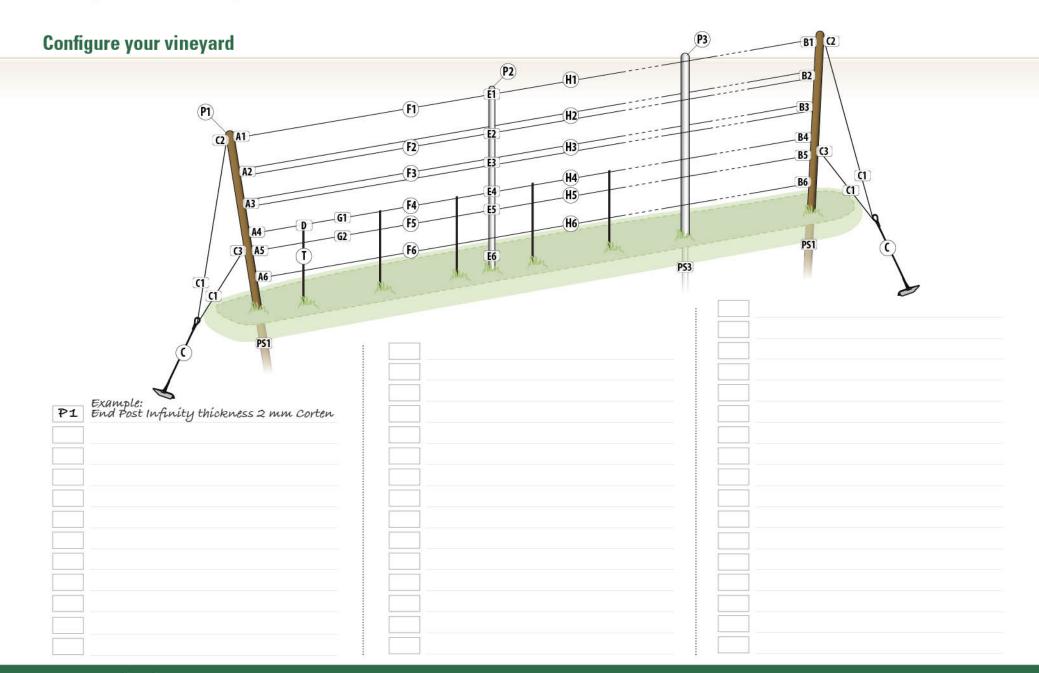
2300 mm (Free Cordon System) 2500 mm, 2750 mm, 3000 mm.

	thickness:	weight:
COR-TEN PRE-GALVANIZED INOX	1,50 mm	3,20 kg/m
	2,00 mm	4,20 kg/m
HOT DIP GALVANIZED	1,65 mm	3,40 kg/m
	2,15 mm	4,45 kg/m

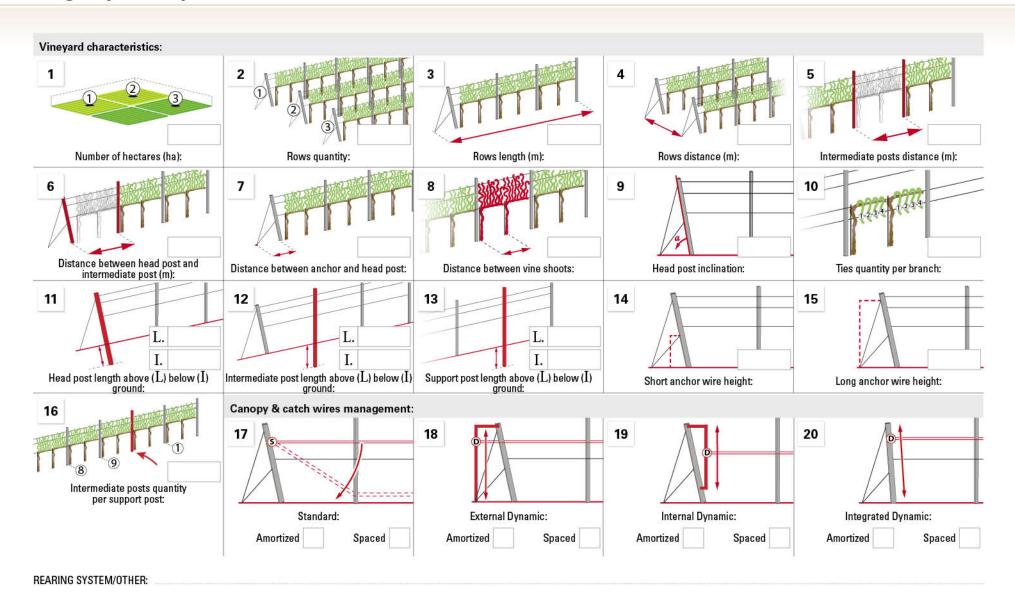
Possibility of customization on request.







Configure your vineyard





Configure your vineyard and request a quote

