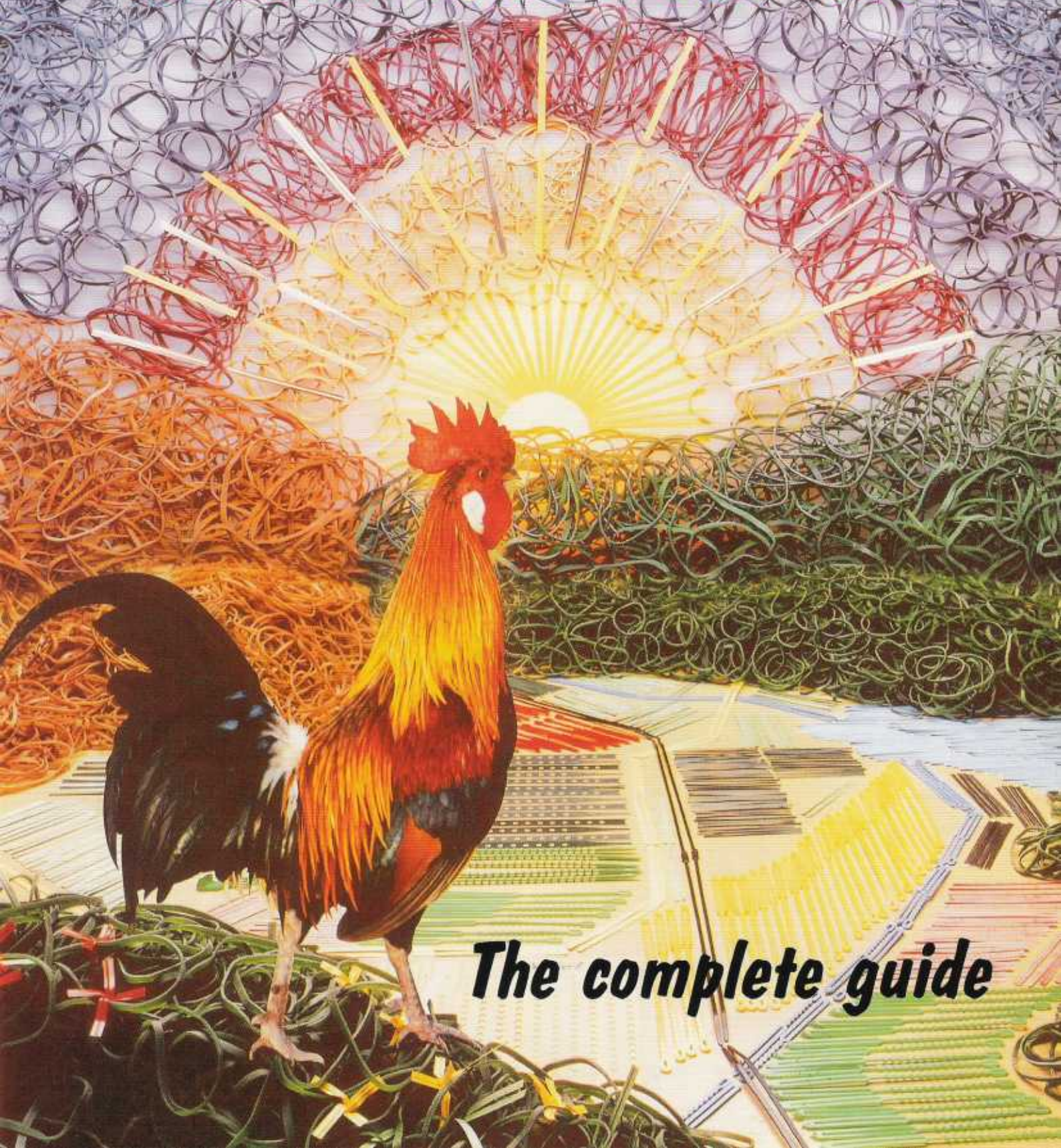


Wake up to
Venhart
BRAND

REVISED
EDITION
2004

RUBBER BANDS and TIES



The complete guide

Australia's biggest range of rubber bands!

There's a very good chance you've used a *Venhart* rubber band today. No-one in the nation supplies a bigger choice of sizes and colours for every application: from tying pony tails to bunching vegetables, from securing crab claws to bundling mail. And no-one in Australia carries a larger stock – more than 170 tonnes in our Melbourne warehouse.



Venhart rubber bands are made from 96% pure rubber. They are much stronger and yet lighter weight than bands made from compounds, therefore you get more bands per kilogram. **VenBands** are made from 85% crepe rubber (15% to 20% compounds). They are suitable for most jobs and cost less per bag than pure rubber bands. (See the comparison on page 4)

Venhart®

BRAND



203

220

109

107

175

92

170

BANANA
BAND
160

106

89

24

105

87

67

86

35

Venhardt SELECTION GUIDE

VenBands

PRODUCT No.	LENGTH mm	WIDTH mm	THICK mm	TENSILE STRENGTH kg cm ²	BREAK FORCE kg	COLOURS	500g BAG	100g BOX	25g BAG	500g BAG	
							40 BAGS PER CTN	100 BOXES PER CTN	800 BAGS PER CTN	40 BAGS PER CARTON	
							BANDS PER BAG (BOX) APPROX.			BANDS P/BAG APPROX.	
8	25	1.5	.8	92.28	2.21		6221	1410	352		
8L	30	1.5	.8	92.28	2.21		4820				
10	35	1.5	.8	92.28	2.21		4728*			4510	
12	38	1.5	.8	92.28	2.21		4149	745	186	3000	
14	50	1.5	.8	92.28	2.21		3465*	693	173	2780	
16	64	1.5	.8	92.28	2.21		2674+	495	123	2225	
18	75	1.5	.8	92.28	2.21		2336	365	91	1793	
19	90	1.5	.8	92.28	2.21		2012	363	90	1725	
24	150	1.5	.8	92.28	2.21		1400	280			
28	38	3	.8	92.28	4.43		2074	372	80	1810	
28L	42	3.3	.8	116.3	6.14		1675				
29	44	3		92.28	4.43		1640				
30	50	3	.8	106.89	5.14		1723	322	46	1560	
31	64	3	.8	106.89	5.14		1380	276		1215	
32	75	3	.8	106.89	5.14		1168*	185	43	967	
33	90	3	.8	106.89	5.14		1006**	172	20	793**	
Mixed sizes: No30 x 100, No31 x 50, No32 x 35, No 33 x 25									210		
34	100	3	.8	106.89	5.14		915	163		555	
35	114	3	.8	106.89	5.14		840	134		505	
60	42	6		118	11.33		950				
61	50	6	.8	118	11.33		1081			930	
62	64	6	.8	118	11.33		833	127		610	
63	75	6	.8	118	11.33		584	86		460	
64	90	6	.8	118	11.33		503*	83	18	420	
65	100	6	.8	118	11.33		458	79		330	
67	120	6	.8	118	11.33		600				
73	75	10	.8	121.71	19.47		325				
75	75	8	.8	140.63	18		490				
75AP	75	8	.8	140.63	18		490++				
78	80	10		121.71	19		310				
79	50	10	.8	121.71	19		490				
82	64	12	.8	138.74	26.64		415				
86	114	12	.8	138.74	26.64		170**	34		33	
87	127	12	.8	138.74	26.64		155				
89	150	12	.8	138.74	26.64		140				
92	170	12	.8	138.74	26.64		120				
105	127	15	1.58	116.64	55.29		105		21		
106	152	15	1.58	116.64	55.29		80		16		
107	177	15	1.58	116.64	55.29		70		14		
109	248	17	1.5	114.13	58.20		37				
Banana##	160	13	2.0	520.00	50.00		110###				
170	160	12	3	1125.91	90.66		40				
175	175	4	.8	119.75	7.66		347				
203	300	25	3	125.91	188.86		15				
220	250	3	.8	106.89	5.14		635				

PLEASE NOTE:
 * VenBands are available in 500 gram bags only except No 33 and No 80 which are also available in 125g bags.
 ** VenBands are available in natural amber colour only.
 # All VenBands are 1mm thick.
 # Tensile strength and breaking force values shown at left apply only to Venhardt natural rubber bands not to VenBands.

*Also 50g bag, 400 bags per carton. **Also 125g bag, 160 bags per carton. + Aso 25g blister packs, assorted colours. ++ 20 bags per carton. # Chicken Loops. 3kg bag, 4 bags per carton. ##Banana Bands made from a blend of natural and synthetic rubber. ### Banana Bands. 1kg bag, 20 bags per carton.



34 33 78 75 73 63 18 32 62 31 16 82 79 61 30 14 29 28L 60 12 8L 65 64 19



The making of a **Venhart**® rubber band.

1. During the night the rubber tree exudes a milky substance known as latex. Each morning the latex is collected. One acre of trees yields approximately 5kg of latex each night.

2. Formic acid is added to coagulate and stiffen the pure latex.

3. Moisture is removed as the latex is pressed into sheets. The sheets now possess most of the familiar qualities of rubber.

4. The rubber sheets then undergo several more drying processes including oven drying.

Important comparison

Based on 0.8 mm thick x 1.5mm wide.

Rubber content %	96
Breaking force (kg)	2.22
Elongation %	700
Tension set (max)	10
Bands per 500g approx. (Venhart No16)	2674

Venhart® pure rubber bands

Compound rubber bands as low as 60 as low as 1.82 600 28 as few as 2060

5. The rubber is placed in a mixer where chemicals are added to make it more malleable. Most Venhart rubber bands are natural amber but colouring is added at this stage for customers who use bands for coding products and produce. The rubber is then extruded and fed onto various sized pipes according to the band size required.

6. The pipes are placed in an oven for curing. Talcum is applied throughout the manufacturing process to prevent sticking.

7. The rubber tubes are then washed, cooled and cut to the required band width.

TECHNICAL TERMS

BREAKING FORCE (kg): Force applied to the complete band which causes a break anywhere in the circumference. Established by averaging a series of stretching tests.

TENSILE STRENGTH (kg cm²): Calculated from the breaking force as follows:

$$\frac{\text{Breaking force Kg} \div 2}{\text{Thickness mm} \times \text{Cut width mm} \div 100} = \text{Tensile strength Kg cm}^2$$

TENSION SET: Extent to which a band doesn't recover after elongation. Expressed as a percentage of the original band size.

A Venus[®] TIE BRAND FOR EVERY JOB



Venus SECURITY TIES

The locking tie that cannot be opened. Ideal for document pouches, mail bags and other items that require tamperproofing. Made from tough, high density polythene. Length: 280mm. Colour: green. 5000 per pack.



VenTies

A plastic tie for sealing bags, tying electrical wiring, product identification, bundling or joining. Both ends have a loop for hanging items up. Re-usable. Colours: red, blue, green, white and yellow. Sizes 90mm, 120mm and 150mm. 2 x 5000 per pack.



VenTie II

An all purpose .005mm thick tie available in high density polythene and heat resistant nylon. Popular with vineyards and market gardeners. Quick and easy opening, adjusting and locking. Strong, light weight, re-usable, microwavable, boilable, freezable, printable, chemical resistant, weatherproof and supports weights of up to 77.5kg. Polythene VenTie II is UV stabilised and works in temperatures from -24 to +120 degrees C. Colour: yellow. Nylon VenTie II is heat resistant, boilable, ovenable and has natural UV resistance. Colours: brown and black.

Length mm	Width mm	Quantity per pack	Weight per 1000 (kg)	Tensile strength kg*
114	8	50000	.272	22
140**	9.5	25000	.450	26

* Double strip **140mm x 9.5mm available in polythene only

Venus CABLE TIES

Designed to secure cables without damaging the insulation. Made from heat stabilised nylon, heat resistant to 280 degrees C. and self-extinguishing. Resistant to UV and corrosion. Colours white and black. Not re-usable.

Length mm	Width mm	Min. loop tensile strength mm	Loop diam. maximum mm	Quantity per pack
102	2.5	7	50	1000
120	2.5	8	30	1000
150	2.5	7	50	1000
203	2.5	23	54	1000
295	3.6	18	83	500
368	4.8	23	106	500
332	7.6	54	95	100
368	7.6	54	109	100
530	9.0	80	155	100
655	9.0	80	194	100
780	9.0	80	234	100

Venus LADDER TIES

Made from the same nylon as Venus Cable Ties but more economical. Colours natural and black. Not re-usable. 3mm wide x 1.25mm thick. Lengths 180mm and 280mm. 1000 per pack, 5 packs per carton.



VenStrip

Continuous, flat, high density polythene strip. Economical and re-usable. Simply cut the desired length from the flanged reel. Hundreds of uses in the home, garden, office, factory, school, hospital, farm, nursery, vineyard, abattoir and cutting room etc. Also handy for camping, boating and emergencies. Microwavable, boilable, freezable - usable in temperatures from -24 to +120 degrees C. No 5620/20 will bear weights up to 77.5kg. Colour: green. Also Venstrip Ties, 217mm x 14mm in UV stabilised high density polythene, for tying grape vines etc. Colour: blue.

	Length m	Width mm	Thickness mm	Tensile strength kg*	Weight roll kg
No 5625/15					
Lightweight	375	14.0	.0038	31.75	2.0
No 5620/20					
Standard	300	9.5	.005	26.85	1.4
	300	14.3	.005	41.75	2.2

* Double strip.

VenBinders

Strong, round cross-section polythene with secure, two-hole, locking design. Small sizes for attaching labels etc; large sizes for bundling rods, pipes, tying large sacks. Re-usable. Heat resistant to 115°C. Colour: red. Tensile strength 71.38 kg cm².

		per pack
VBV212	12cm	10000
VBV218	18cm	10000
VBV224	24cm	5000
VBV230	30cm	2000
VBV250	50cm	1000
VBV270	70cm	1000
VBT218	18cm	5 x 1000*
VBT224	24cm	5 x 1000*

*Light weight.

A Venus[®] TIE FOR EVERY JOB

BRAND



Venus NYLON LOOP TIES

The easy way to attach identity tags, labels, instruction books, warranty cards, brochures etc to all kinds of products from apparel to bicycles. Minimum loop tensile strength: 8kg. Maximum temperature resistance: 300 °C. Colour: white. Length: 150mm. 5000 per pack.



Venhart TWIST TIES

Vinyl or polypropylene ribbon, 3mm wide with 0.4mm wire core. Heat resistant to 110 degrees C. 1000 per bundle. Colours: white, red, blue, green, black, pink and yellow. Gold and silver available in 70mm size.

Length	per pack	Length	per pack
70mm	125000	200mm	50000
100mm	75000	250mm	35000
150mm	50000	300mm	25000
178mm	50000		

Venhart TWIST DRILL

Strong, steel construction with wear resistant bronze sleeve and heavy duty plastic moulded handle. Length 310mm. Weight: 420g. Use with Venhart Wire Bag Ties.

Venhart LOOP TYER

Economical and lightweight with an easy-grip wooden handle and pointed steel hook which rotates the bag tie by hand movement. Length: 180mm. Weight: 125g. Use with Venhart Wire Bag Ties.

WARNING: All data in this brochure is provided as a guide only and should not be used in writing specifications. Purchasers should test any product offered herein to determine suitability for their particular purpose. Jan. 2004

Venus GARDEN SUPER TIES

Ideal in the garden for plants, shrubs and vines plus many other uses including bundling hoses, wires etc. High density polyethylene Super Ties are 0.5mm wide x 203mm long, adjustable, re-usable, waterproof and impervious to most chemicals and pesticides. Existing strength: 25kg. US FDA approved. 100 per pack. 24 packs per display. 3 displays per carton.



Venhart PAPER FASTIES

The economical paper twist tie. 4mm wide paper ribbon with 0.4mm wire core in white, red, blue, green and yellow. Tensile strength: 40kg/mm². Heat resistant to 100 °C. 1000 per bundle.

Length	per pack	Length	per pack
75mm	100000	175mm	50000
100mm	100000	200mm	50000
120mm	75000	250mm	35000
150mm	50000	300mm	25000



Venhart WIRE BAG TIES

For secure binding of bags weighing up to 100kg. Red copper coating prevents rust and corrosion during storage. 1000 per bundle. Gauge: 1.4mm. Apply with the Venhart Twist Drill or Venhart Loop Tyer. Sizes: 100, 110, 125, 150, 200, 225, 250, 275 and 300mm.



Venus VINE TIES AND TOOLS

Paper and plastic covered wire cored ribbon for tying vine crops and orchard tree branches.

Self dispensing centre-draw coils

Contained in a netting outer pack. Hangs from the belt for easy dispensing and no tangles. Length: 250 metres and 500 metres.

Paper: Bio-degradable - decomposes after about 8 months. Colour: natural.

Classic Plastic: Non-toxic, pure virgin polypropylene. Lasts about 3 years. Colour: green.

Bio-degradable Plastic: Special photo-degradable plastic that decomposes in sunlight after about 12 months. Colour: clear.

Vinyl Shoulder Dispenser: Built-in cutter cuts the length required with a flick of the thumb. Yellow with 500 metres of green vinyl coated wire cored ribbon. Also available 500 metre refill rolls.

TWIST TYING PLIERS



Venhart CHICKEN LOOPS

Elastic in natural white. 110mm. 1920 per bag, 4 bags per carton.

Venhart BANANA BANDS

No 160 in eggplant yellow. UV stabilised, 160mm long, 13mm wide, 2mm thick. 1kg bag, 110 bands (approx.) per bag, 20 bags per carton.



Venus TIEFIX

3mm wide vinyl ribbon with 0.4mm core. The re-usable, interchangeable spool means real savings, less storage space and an "environmentally friendly" use of resources. Use with Venhart Masterfix and Tiematic automatic tying machines. Masterfix: 800m on spool, 8 per pack. 800m spool-less refill, 6 per pack. Re-usable spool, 4 per pack. Tiematic: 940m spools. Colours: black, green, red, white, orange, purple, yellow and blue.

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