



TT Industrial Packaging is a



Talu
Trade
Group

Company.

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Composite Strapping



Printed Strap
Colored Strap
Ultraflex Quality
Strapping Kits
AAR and GL Certified



CO-STRAP Composite corded strapping is produced from high tenacity polyester yarns and polypropylene flakes. Composite strap is stiff but flexible product that can be easily used in most packaging applications. It is highly resistant to severe weather conditions (especially hot climates) and unlike PET and Steel strapping it does not break instantly from a single point against impacts.

- High strength
- Shock absorbent
- Does not get loose (high retained tension)
- Highly elastic and flexible
- No sharp edges that could damage your products
- Does not damage cargo
- Resistant to severe weather conditions and UV
- Cost effective
- Light weight
- Rust-proof, doesn't rust or corrode
- Resistant to chemicals
- Fast, easy, safe usage
- Steel Strap alternative



COMPOSITE STRAP

CO-STRAP Product Code	Width (mm)	Linear Break Strength (daN)	Coil Length* (m)	Core Diameter (mm)
LIGHT APPLICATION				
CS13L (CC-40/2)	13	240	1100	200
CS16L (CC-50/2)	16	310	850	200
CS19L (CC-60/2)	19	330	600	200
CS25L	25	440	500	200
STANDARD APPLICATION				
CS13ST (CC-40)	13	340	1100	200
CS16ST (CC-50)	16	450	850	200
CS19ST (CC-60)	19	510	600	200
CS25ST	25	690	400 / 500	200
STRONG APPLICATION				
CS16STR (CC-55)	16	540	750 / 600	200
CS19STR (CC-65)	19	600	650 / 500	200
CS25STR (CC-85)	25	800	500	200
CS32STR (CC-105/6L)	32	1150	300	406/200
CS34STR (CC-105/6)	32	1500	400 / 300	406/200
EXTRA STRONG APPLICATION				
CS19ESTR - ULTRAFLEX (CC-69)	19	850	500	406/200
CS25ESTR - ULTRAFLEX (CC-86UF)	25	1050	500 / 450	406/200
CS26ESTR - ULTRAFLEX (CC-89UF)	25	1350	400	406/200
CS32ESTR - ULTRAFLEX (CC-105UF)	32	1650 (AAR APPROVED)	300	406/200
CS40ESTR - ULTRAFLEX (CC-150UF)	40	2450	220	406/200



Textile Hotmelt Strapping



*Printed Hotmelt Strap
Bale Press (Baling) Strap
Strapping Kits
GL Certified*



CO-STRAP Textile corded strapping is produced from high tenacity polyester yarns and hotmelt. Effective especially in cold and humid climates, textile straps are soft products that can be used without buckles and are a cost effective alternative to PET and Steel strapping, which can only be used with battery charged tools or semi/fully automatic strapping machines.

- High Strength
- Shock Absorbent
- Does not get loose (High retained tension)
- Highly Elastic and Flexible
- No sharp edges that could damage your products
- Does not damage cargo
- Resistant to Severe Weather Conditions and UV
- Cost Effective
- Light-Weight
- Fast easy and safe to use
- Soft and can be used without buckle



HOTMELT AND BALING STRAP

CO-STRAP Product Code	Width (mm)	Linear Break Strength (daN)	Coil Length* (m)	Core Diameter (mm)
BALE PRESS				
WG9STBL (30WG BL)	9	280	250 / 500	62
WG13STBL (40WG BL)	13	380	250 / 350 / 500	62
WG16STBL (50WG BL)	16	450	400 / 425	62
LIGHT APPLICATION				
WG9L (30WGL)	9	230	1800	76
WG13L (40WGL)	13	330	1500 / 1100	76
WG16L (50WGL)	16	380	1200 / 850	76
WG19L (60WGL)	19	500	600	76
STANDARD APPLICATION				
WG9ST (30WG)	9	280	1500	76
WG13ST (40WG)	13	380	1100	76
WG16ST (50WG)	16	450	850	76
WG19ST (60WG)	19	550	600	76
STRONG APPLICATION				
WG13STR (45WG)	13	550	850	76
WG16STR (55WG)	16	600	600	76
WG19STR (65WG)	19	725	500	76
WG25STR (85WG)	25	950	500	76
WG30STR (95WG)	30	1200	150	76
WG35STR (105 or 105/4WG)	35	1400	150	76
EXTRA STRONG APPLICATION				
WG19ESTR (69WG)	19	950	400	76
WG25ESTR (86WG)	25	1250	400	76
WG38ESTR (150WG)	38	2000	100	76

* : Different coil lengths are available upon request

* : Printed straps are available upon request



Woven Strapping

- Printed Woven Strap
- Orange Color and Other Colors available
- Alternative to Steel Strapping

CO-STRAP Woven corded strapping is produced from high tenacity polyester yarns

It has similar physical properties with textile straps. They must be used with phosphate buckles.

- High Strength
- Shock Absorbent
- Does not get loose (High retained tension)
- Highly Elastic and Flexible
- No sharp edges that could damage your products
- Does not damage cargo
- Resistant to severe weather conditions and UV
- Cost Effective
- Light weight
- Fast easy and safe to use
- Soft and can be used without buckle



Woven Straps				
CO-STRAP Product Code	Width (mm)	Linear Break Strength (daN)	Coil Length* (m)	Core Diameter (mm)
Light Application				
WV9L	9	240	1600	76
WV13L	13	320	1100	76
WV16L	16	350	850	76
WV19L	19	480	600	76
Standard Application				
WV13ST	13	360	1100	76
WV16ST	16	500	850	76
WV19ST	19	580	600	76
WV25ST	25	800	500	76
Strong Application				
WV13STR	13	475	850	76
WV16STR	16	600	600	76
WV19STR	19	750	500	76
WV25STR	25	1000	500	76
Extra Strong Application				
WV19ESTR	19	1100	400/500	76
WV19ESTRX	19	1225	400/500	76
WV25ESTR	25	1400	300	76
WV32ESTR	32	1600	300	76

* : Different coil lengths are available upon request

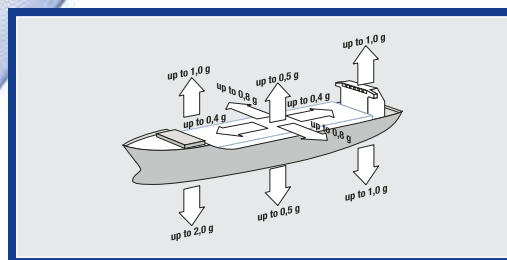
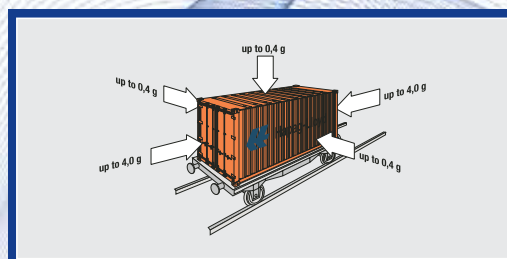
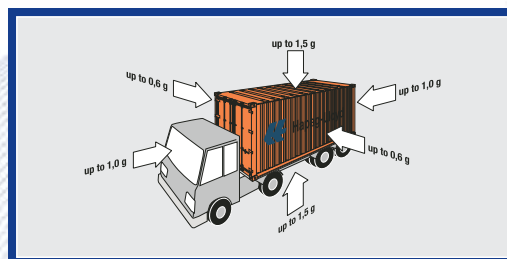


Lashing



- Custom Printing available
- Color Options
- GL & AAR Certified

CO-STRAP Lashing is produced from high tenacity polyester yarns...Lashing products are designed to bear optimized specifications for cargo securing on land, marine and airline transportation, flat-racks, railcars & ships.



Lashing			
CO-STRAP Product Code	Width (mm)	Linear Break Strength (daN)	Coil Length* (m)
COLASH 100	25	2200	400
COLASH 105	32	2000	250
COLASH 105 S	32	2300	250
COLASH 150-AAR	38	3500	200
COLASH 200-AAR	40	5000	200
COLASH 500	50	5000	150
COLABH 600	50	6000	150
COLASH 750-AAR	50	7500	150

Ladder Buckles			
CO-STRAP Product Code	Size (mm)	Type	Minimum Tensile To Be Applied (daN)
COLS3516	32	Stamped	3.000
COLF3030	32	Drop-forged	6.000
COLW3030	32	Welded	6.000
COLF4040	38, 40	Drop-forged	8.000
COLW4040	38, 40	Welded	8.000
COLF4050	40	Drop-forged	10.000
COLW4050	40	Welded	10.000
COLF5050	50	Drop-forged	10.000
COLW5050	50	Welded	10.000





Strapping Buckles



Strapping Buckles:

The thickness of the strapping buckles range from 8 mm to 40 mm and they are convenient to use in all types of strapping.

- Galvanized Buckles
- Phosphated Buckles

Galvanized Wire Buckles

CO-STRAP Product Code	Width (mm)	Wire Ø	Quantity Per Box (pcs)
COB4G13	13	3.0	1000
COB4G13-HD	13	3.3	1000
COB5G16	16	3.3	1000
COB5G16-HD	16	3.5	1000
COB6G19-LD	19	3.3	1000
COB6G19	19	3.5	1000
COB6G19-I	19	3.8	1000
COB6G19-HD	19	4.0	1000
COB6G19-SHD	19	4.5	1000
COB8G25-LD	25	4.5	500
COB8G25	25	5.0	500
COB8G25-HD	25	6.0	400
COB10G32-LD	32	6.0	250
COB10G32	32	7.0	250
COB12G40	38	7.0	200



Phosphated Wire Buckles

CO-STRAP Product Code	Width (mm)	Wire Ø	Quantity Per Box (pcs)
COB4P13	13	3.0	1000
COB4P13-HD	13	3.3	1000
COB5P16	16	3.3	1000
COB5P16-HD	16	3.5	1000
COB6P19-LD	19	3.3	1000
COB6P19	19	3.5	1000
COB6P19-I	19	3.8	1000
COB6P19-HD	19	4.0	1000
COB6P19-SHD	19	4.5	1000
COB8P25-LD	25	4.5	500
COB8P25	25	5.0	500
COB8P25-SHD	25	6.0	400
COB10P32-LD	32	6.0	300
COB10P32	32	7.0	250
COB12P40	38	7.0	200



Coil Dispensers

CO-DISP101 Hotmelt and Woven Strap Dispenser

- Core size(mm) : 76
- Max. strap width(mm) : 38
- Max. face coil(mm) : 200
- Coil winding : O
- Wheel type : No wheel
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP102 Hotmelt and Woven Strap Dispenser

- Core size(mm) : 76
- Max. strap width(mm) : 38
- Max. face coil(mm) : 260
- Coil winding : O
- Wheel type : 6" Plastic
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP103 UNI Universal PET & PP & Composite Strap Dispenser

- Core size(mm) : 150, 200, 280 and 400
- Max. strap width(mm) : 65
- Max. face coil(mm) : 330
- Disc outer dia (mm) : Max. 600
- Coil winding : O
- Wheel type : 6" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP104 Composite Strap and PP Strap Dispenser

- Core size(mm) : 200
- Max. strap width(mm) : 40
- Max. face coil(mm) : 300
- Disc outer dia (mm) : Max. 450
- Coil winding : O
- Wheel type : 6" Plastic
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP105-UNI Universal Composite Strap, PET Strap, Steel Strap and PP Strap Dispenser

- Core size(mm) : 400
- Max. strap width(mm) : 32
- Max. face coil(mm) : 260
- Disc outer dia (mm) : Max. 650
- Coil winding : R/O
- Wheel type : 8" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.





Coil Dispensers

CO-DISP107 Steel Strap Dispenser for Ribbon Wound

- Core size(mm) : 400
- Max. strap width(mm) : 32
- Max. face coil(mm) : 32
- Disc outer dia (mm) : Max. 650x400
- Coil winding : R
- Wheel type : 8" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP F101 Forklift Mounted Dispenser

- Core size(mm) : 76 and 200 mm
- Max. strap width(mm) : 40
- Max. face coil(mm) : 610
- Disc outer dia : Max. 450
- Coil winding : O
- Wheel type : No wheel
- Assembled : Semi



CO-DISP F200 Composite, Hotmelt and Woven Strap Coil Dispenser

- Core size(mm) : 76 and 200 mm
- Max. strap width(mm) : 40
- Max. face coil(mm) : 610
- Disc outer dia : Max. 450
- Coil winding : O
- Wheel type : 8" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP108 Composite Strap and PP Strap Dispenser

- Core size(mm) : 200
- Max. strap width(mm) : 40
- Max. face coil(mm) : 300
- Disc outer dia (mm) : Max. 450
- Coil winding : O
- Wheel type : 6" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP112 Composite Strap Dispenser

- Core size(mm) : 200
- Max. strap width(mm) : 40
- Max. face coil(mm) : 200
- Disc outer dia (mm) : Max. 380
- Coil winding : O
- Wheel type : 6" Plastic
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.



CO-DISP200 PET Strap and Steel Strap Coil Dispenser - Heavy Duty

- Core size(mm) : 400
- Max. strap width(mm) : 40
- Max. face coil(mm) : 300
- Disc outer dia (mm) : Max. 650
- Coil winding : R / O
- Wheel type : 8" Rubber with steel center
- Assembled : Semi
- **Coil winding : R means Ribbon coil.
O means Oscillated/Mill Wound coil.





PET Strapping



PET Straps can be used in fully automatic pallet strapping machines during the packaging of products which require medium and high strength strapping. They can also be used by pneumatic strapping machines or battery powered strapping machines.

High breaking strength • Shock absorbent • Long term Elasticity • Resistant to severe weather conditions • No cargo damage • Don't get loose • Safe and fast usage

PET Straps

CO-STRAP Product Type		Size (mm)	Linear Break Strength (daN)	Length (m)	Color	Surface
POLYESTER (PET) STRAP	Battery Tool	12x0.70	240-280	2500	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	12x0.70	290-340	2500	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	15x0.70	320-340	1400	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	15x0.70	350-380	1400	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	15.50x0.90	420-460	1500	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	15.50x0.90	490-530	1500	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	16x0.60	290-320	1700	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	16x0.60	310-350	1700	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	16x0.70	390-430	1550	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	16x0.70	440-470	1550	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	16x0.70	390-430	1750	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	16x0.70	440-470	1750	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	19x0.80	500-540	1200	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	19x0.80	530-560	1200	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	19x1.00	630-680	1000	Green	EMBOSSSED
POLYESTER (PET) STRAP	Automatic Line	19x1.00	690-730	1000	Green	EMBOSSSED
POLYESTER (PET) STRAP	Battery Tool	12x0.60	210-240	2200	Green	SMOOTH
POLYESTER (PET) STRAP	Automatic Line	12x0.60	540-280	2200	Green	SMOOTH
POLYESTER (PET) STRAP	Battery Tool	15.50x0.90	565-600	1500	Green	SMOOTH
POLYESTER (PET) STRAP	Automatic Line	15.50x0.90	610-640	1500	Green	SMOOTH
POLYESTER (PET) STRAP	Battery Tool	19x1.00	730-780	1000	Green	SMOOTH
POLYESTER (PET) STRAP	Automatic Line	19x1.00	800-840	1000	Green	SMOOTH
POLYESTER (PET) STRAP	Battery Tool	19x1.27	900-950	730	Green	SMOOTH
POLYESTER (PET) STRAP	Automatic Line	19x1.27	1050-1100	730	Green	SMOOTH
POLYESTER (PET) STRAP	Battery Tool	19x1.27	900-950	2200	Green	SMOOTH
POLYESTER (PET) STRAP	Automatic Line	19x1.27	1050-1100	2200	Green	SMOOTH
POLYESTER (PET) STRAP-ECO	Battery Tool	12x0.60	160-190	2200	Green	EMBOSSSED
POLYESTER (PET) STRAP-ECO	Automatic Line	12x0.60	200-220	2200	Green	EMBOSSSED



PP Strapping



PP Straps offer one of the most cost effective alternatives for light weight applications with low tensile strength. They can be used with buckles and welding system.

Safe and quick • No cargo damage • Cost effective • Medium resistance to severe weather conditions

PP Straps

CO-STRAP Product Type	Type	Color	Size (mm)	Core (mm)	Coil Length (m)
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	8x0.60	200x150	4000
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	12x0.60	200x150	3000
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	12x0.80	400x150	2000
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	8x0.60	200x150	4000
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	10x0.60	200x150	3500
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	12x0.60	200x150	3000
POLYPROPYLENE (PP) STRAP	AUTOMATIC	WHITE	12x0.80	400x150	2000
POLYPROPYLENE (PP) STRAP	SEMI AUTOMATIC	WHITE	16x0.80	400x150	1500
POLYPROPYLENE (PP) STRAP	AUTOMATIC	BLACK	10x0.60	200x150	3500
POLYPROPYLENE (PP) STRAP	AUTOMATIC	BLACK	12x0.60	200x150	3000
POLYPROPYLENE (PP) STRAP	SEMI AUTOMATIC	BLACK	16x0.80	400x150	1500



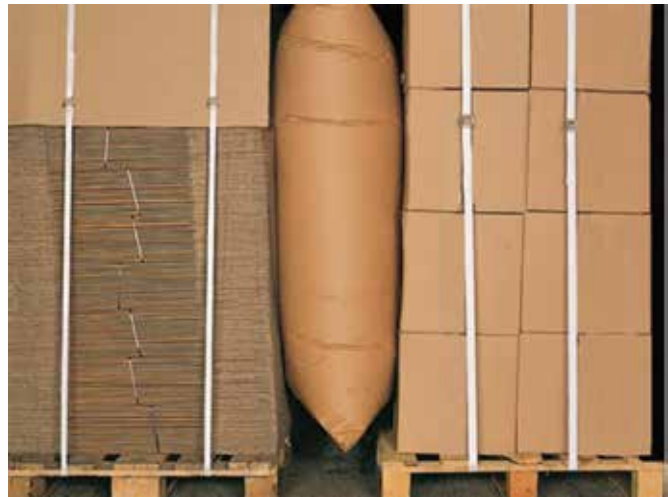
Dunnage Bags



Dunnage Bags provide the most cost-effective solutions to secure and stabilize the cargo inside the container, railway wagon or truck.

Dunnage bags ensure you that freight arrives at the final destination without any damage.

During long sea and railway shipments, it is necessary to fix the pallets in the container to prevent rubbing with each other, to eliminate the risk of overturning, etc.



There are two kinds of Dunnage bags: Polypropylene Woven and Kraft Paper.

The sizes and dimensions vary according to the weight of the pallets, the dimensions and the internal dimensions of the container.

At the same time, there are classifications which are called Levels in terms of quality (strength) of Dunnage Bags.



- Kraft Paper Dunnage Bags
- Polypropylene Woven Dunnage Bags
- Inflation Devices

ECO LINE LEVEL 1, LEVEL 2, LEVEL 3, LEVEL 4, LEVEL 5, DUNNAGE AIR BAG DIMENSIONS

Dimension (inch)	Dimension (cm)
24" x 36"	61 x 91
36" x 48"	91 x 122
36" x 72"	91 x 183
48" x 72"	122 x 183
48" x 84"	122 x 213

* : Other Dimensions are also available upon request



Stretch Films



Prestretch Films reduce the amount of material required by as much as 50% for greater savings. A reel of Prestretch Film bobbins weight up to 70% less than a traditional 300 meters manual reel and makes packaging easier. More protection for delicate products thanks to a more delicate application of the film on pallet.

Economic • More light • More output • More strength • More protection • More resistance to impact and tearing • More safety • Reduced cost for waste material



Stretch Films

HP - HIGH PERFORMANCE STRETCH FILMS-AUTOMATIC USE (200% - 250% -300% STRETCHING RATIO AVAILABLE)

Width (mm)	Gauge (my)	Length (m)	Gross Roll Weight (kg)	Core Weight (kg)	Net Roll Weight (kg)	Rolls Per Pallet
500	12	3,000	17.56	1.00	16.56	30
500	15	2,400	17.56	1.00	16.56	30
500	17	2,100	17.42	1.00	16.42	30
500	20	1,800	17.56	1.00	16.56	30
500	23	1,550	17.40	1.00	16.40	30

PIU PRESTRETCH FILMS - HAND USE

Width (mm)	Gauge (my)	Length (m)	Gross Roll Weight (kg)	Core Weight (kg)	Net Roll Weight (kg)	Rolls Per Pallet
430	8	600	2.16	0.26	1.90	200
430	10	300	1.37	0.18	1.19	312
430	10	600	2.63	0.26	2.37	148
430	12	300	1.68	0.26	1.42	240

PIU PRESTRETCH FILMS - AUTOMATIC USE

Width (mm)	Gauge (my)	Length (m)	Gross Roll Weight (kg)	Core Weight (kg)	Net Roll Weight (kg)	Rolls Per Pallet
430	8	1,500	5.52	0.77	4.75	36
430	8	3,000	10.26	0.77	9.49	22
430	10	1,500	6.70	0.77	5.93	36
430	10	3,000	12.64	0.77	11.87	22
430	12	1,500	7.89	0.77	7.12	36
430	12	3,000	15.01	0.77	14.24	22



Strapping Tools And Accessories



Manual Strapping Tools: These are appropriate for various kinds of usages and offered in two types as light/medium and heavy duty applications.



Battery Charged Strapping Tools: The battery charged strapping tools used in PET and PP strapping applications are user friendly, safe and have high tensioning capacity.



Plastic Edge Protectors: They are suitable for different types of strapping and can be produced in custom colors upon request.



Plastic Buckles: Plastic strapping buckles are designed to work with polypropylene strapping; there is no need for strapping tools!

