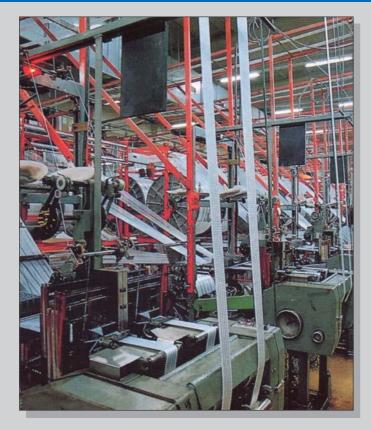
WEBBING SLINGS ROUND SLINGS CARGO - LASHINGS





HIGH TENACITY POLYESTER FIBRE 100 %





MERTRA is one of the leading manufacturers of webbing slings, round slings and cargo-lashings, for use in industry as well as for civil engineering, transportation and shipping.

Production facilities are located in Eastbourne factory U.K. and Singapore resulting in fast and accurate world-wide deliveries.

MERTRA webbing sling and roundsling are made in a standard range of types and sizes, designed to meet most lifting needs. Slings are designed to suit specific applications on request.

All MERTRA slings are subject to rigorous quality control at all levels of production from yarn to final assembly. This is an essential factor in the production of high quality slings ensuring high strength, reliability and consistant performance.

MERTRA slings and lashings are certified by the german labour inspectorate (Berufsgenossenschaft) and the belgian AIB Vincotte.

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POLYESTER LIFTING SLING APPLICATIONS

AIR CONDITIONING UNITS
AUTOMOBILES
AUTOMOBILE PARTS
BALES
BEARINGS
BOILERS
BOAT HANDLING
BULK MASTERIALS
CONCRETE PIPE
DRUMS

ELECTRICAL EQUIPMANT
FINISHED PARTS
HARBOR-LOADING AND UNLOADING
UNLOADING
HEATING UNITS
JET ENGINES
INSTRUMENTS
LIGHTING FIXTURES
LOGGING
MACHINERY AND MACHINED PARTS

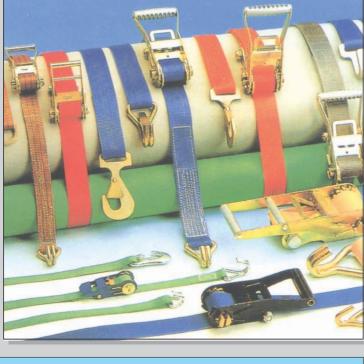
NUCLEAR EQUIPMENT
OIL DRILLING PARTS
PAPER ROLLS
PREFAB UNITS
PROPELLERS
QUENCHING OPERATINGS
RADIOACTIVE MATERIALS
SALVAGE OPERRATIONS
SCULPTURES
SHAFTS

SIGNS
STEEL FACTORY
TELEPHONE POLE HANDING
TRANSFORMERS
TRANSPORTATION
VAULTS
VENTILATION UNITS
WASTE DISPOSAL
X-RAY EQUIPMENT
YARD LIFTING-RAILAND LUMBER

The Leading Manufacturer of Lifting & Lashing Equipment



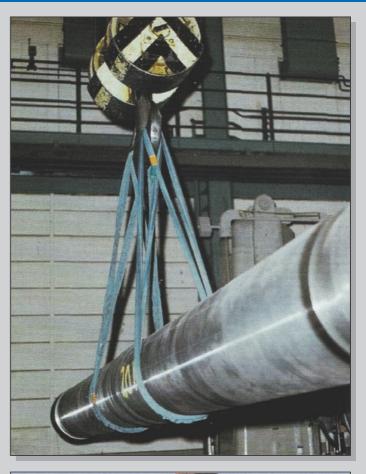




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	Round Slings with metal components
	Cargo-Lashings for Transportation
	Lifting for Safety glass
	Pipeline Slings
À	Hardware & Accessories



HIGH TENACITY POLYESTER FOR BETTER LIFTING

WS-2 Polyester Webbing Slings

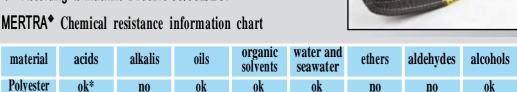
- Double ply polyester webbing sling with reinforced lifting eyes. Working load limit WLL. 1-12 Tonne, Length 1-50 Mtr.

SPECIFICATIONS :

- Sling are constructed of 100% polyester Certified standard DIN V 61360 Show at blue lable
- Safety factor 7:1
- Each kg class has its own colour code. (see technical data)
- Max. working temp. 100 °C (200 °F) Melting point 260 °C (500 °F) Excellant resistant to acids, oil, ultra violet ray, rot and mildew.
- Lightweight easy to handle, store and clean.
- No less of strength in water.
- Only 3% elongation.

NORMS

According to Machine Directive 89/392/EC.



^{*} designtegrated by concentrated sulfuric acid. Higher chemical concentrations and/or higher temperratures will lower the resistance of the sling.

TECHNICAL DATA

	webbing	Colourcode ac	ecording to	W	orking Load	Limits with	1 webbing sli	Working Load Limits with 2 webbing slings				
	width (mm)	DIN-EN 1492-1		straight lift	choked lift					choked lift up to 45	straght lift 45 - 60	choked lift 45°-60
						0°- 7	7°- 45	45°- 60				
				1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
	35	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
	60	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
	75	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
	100	WLL 4T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
	125	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
	150	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
	200	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
	250	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
Type WS-2	300	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600

CE

MERTRA[♦] lifting eye types



1. Flat eye



- 2. Reversed eye
- 3. Folded eye 1/2 width from 1 side
 - 4. Folded eye 1/2 width from 2 sides
- 5. Folded eye 1/3 width

CAUTIONS

- Do not exceed Working Load Limited
- Prevent shock-loading.
- When selecting a sling it is very important consider the angles at which the sling will be used.
- Sling are subject to cutting when liftting items with sharp edges. In this case always use wear sleeves.
- Do not use a damaged sling.
- Never drag a sling from underneath a load that is resting on it.
- Chemical active environments can effect the is strength of slings.
- Operating temperrature range: -40 ◆C to + 100 ◆C.
 Inspect slings weekly or more frequently depending on sling use.
- Always store slings in a cool dry and dark place when they are not in use for prolonged penriods.
- Always read and understand the operating instructions before use.

Special Lifting Slings



MERTRA ♥ WS-1 Polyester one-ply webbing slings

One-ply polyester webbing sling with reinforced lifting eyes. Working load limit WLL. 0.5-12 Tonne, Length 1-20 Mtr. Safety Factor (S/F) 7:1

	webbing	Colourcode ac	cording to	V	Vorking Load	Limits with	1 webbing sl	Working Load Limits with 2 webbing slings				
	width (mm)	DIN-EN 1492-1		straight lift	choked lift				straght lift up to 45	choked lift up to 45	straght lift 45 - 60	choked lift 45°-60
						0°- 7	7°- 45	45°- 60				
				1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
	35	WLL 0.5 T	Violet	500	400	1,000	700	500	700	560	500	400
	60	WLL 1 T	Green	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
	75	WLL 1.5 T	Yellow	1,500	1,200	3,000	2,100	1,500	2,100	1,680	1,500	1,200
	100	WLL 2 T	Grey	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
	125	WLL 2.5 T	Red	2,500	2,000	5,000	3,500	2,500	3,500	2,800	2,500	2,000
	150	WLL 3 T	Brown	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
	200	WLL 4 T	Blue	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
	250	WLL 5 T	Orange	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
Type WS-1	300	WLL 6 T	Orange	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800

MERTRA WS-4 Polyester 4-ply webbing slings

4-ply polyester webbing sling with reinforced lifting eyes. Working load limit WLL. 2-24 Tonne, Length 1-20 Mtr. Safety Factor (S/F) 7:1

	webbing	Colourcode a	ccording to	V	Vorking Load	Limits with	1 webbing sl	Working Load Limits with 2 webbing slings														
	width (mm)	DIN-EN 1492-1								Colourcode according to DIN-EN 1492-1				straight lift	choked lift				straght lift up to 45	choked lift up to 45	straght lift 45 - 60	choked lift 45°-60
	,					0°- 7	7°- 45	45°- 60														
				1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8										
	35	WLL 2 T	Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600										
	60	WLL 4 T	Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200										
	75	WLL 6 T	Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800										
	100	WLL 8 T	Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400										
	125	WLL 10 T	Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000										
	150	WLL 12 T	Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600										
	200	WLL 16 T	Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800										
	250	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000										
Type WS-4	300	WLL 24 T	Orange	24,000	19,200	48,000	33,600	24,000	33,600	26,880	24,000	19,200										



MERTRA ♥ WE-1 Polyester Single-ply webbing slings

TYPE:

♦ Single-ply polyester webbing sling Endless.

♦ Working load limit WLL. 1-12 Tonne, Length 1-20 Mtr.

• Safety Factor (S/F) 7:1

	webbing	Colourcode ac	ecording to	W	orking Load	Limits with	1 webbing sl	Working Load Limits with 2 webbing slings				
	width (mm)	DIN-EN 1492-1		straight lift	choked lift				straght lift up to 45	choked lift up to 45	straght lift 45°- 60	choked lift 45°-60
						0°- 7	7°- 45	45°- 60				
				1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
	35	WLL 1 T	Violet	1,000	800	2,000	1,400	1,000	1,400	1,120	1,000	800
	60	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600
	75	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	4,200	3,360	3,000	2,400
	100	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200
	125	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	7,000	5,600	5,000	4,000
	150	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
	200	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400
	250	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
Type WE-1	300	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600

MERTRA WE-2 Polyester Double-ply webbing slings

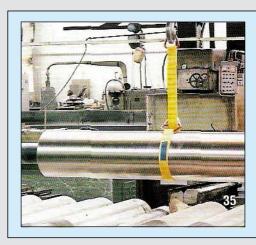
TYPE:

Double-ply polyester webbing sling Endless.
Working load limit WLL 2-24 Tonne, Length 1-20 Mtr.
Safety Factor (S/F) 7:1

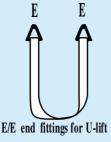
	webbing	Colourcodo a	ecording to	W	orking Load	Limits with	l webbing sli	ng	Working Load Limits with 2 webbing slings				
	width (mm)	Colourcode according to DIN-EN 1492-1		straight lift	choked lift				straght lift up to 45	choked lift up to 45	straght lift 45°- 60	choked lift 45°-60	
	` ,					0°- 7	7°- 45	45°- 60					
				1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8	
	35	WLL 2 T	Violet	2,000	1,600	4,000	2,800	2,000	2,800	2,240	2,000	1,600	
	60	WLL 4 T	Green	4,000	3,200	8,000	5,600	4,000	5,600	4,480	4,000	3,200	
	75	WLL 6 T	Yellow	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800	
	100	WLL 8 T	Grey	8,000	6,400	16,000	11,200	8,000	11,200	8,960	8,000	6,400	
	125	WLL 10 T	Red	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000	
	150	WLL 12 T	Brown	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600	
	200	WLL 16 T	Blue	16,000	12,800	32,000	22,400	16,000	22,400	17,920	16,000	12,800	
	250	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	28,000	22,400	20,000	16,000	
Type WE-2	300	WLL 24 T	Orange	24,000	19,200	48,000	33,600	24,000	33,600	26,880	24,000	19,200	

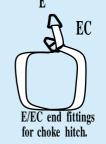
Special Slings





MERTRA lifting slings with end fittings









Lifting slings with end fittings are especially suitable for cranes with small hooks.



Continuoues Eye Wide-Lift

For Heavy Loads - Constructed from one endless sling with the two body lengths butted and joined side by side.



Attached Eye Wide-Lift

For light, Bulky Loads - Lifting eyes are attached to a single ply sling body. Available with One Ply eyes (WS) or TWO PLY eyes (WD).

Why MERTRA ♥?

MERTRA Promotes User Safety

- Safety Seminars and Sling Inspections are available to all sling users.
- MERTRA quality assurance procedures produce consistently superior products.
- Warning, inspection and operrating pracitices information is supplied with every order.
- By manufacturing all types of slings, MERTRA will, without prejudice, recommend the best sling for the application.
- Traceability of all slings through serial numbers.

MERTRA Saver You Time

- MERTRA is the only source that can menufacture all of your sling needs.
- Our engineering staff can design the slings or lifting devices need for special lifting applications.
- Local manufacturing and warehousing from seven Europe and three Asia locations assures prompt delivery.
- MERTRA trained distributors are well qualified to assist the user in sling selection and application decisions.

MERTRA Saves You Money

• Our combination of uncompromising product quality, service and technology makes MERTRA your best choice in long term value.



HIGH TENACITY POLYESTER FOR BETTER LIFTING

Polyester Round Slings



Polyester roundsling with two ply woven heavy-duty sleeve.

Working load limith WLL. 1-40 Tonne, Length 1-20 Mtr.

ECIFICATIONS:
Sling are constructed of 100% polyester.
Certified standard DIN V 61360 Show at blue lable

Safety factor 8:1
The load bearing yams are protected by a double layer seamless polyester-cover.
Only 3% elongation.

According to Machine Directive 89/392/EC.

RE-5 roundsling with 2-ply woven heavy-duty sleeve
The roundsling inner core is made from high tensile polyester fibre which is
wound continuously without a join to provide the maximum possible strength.
This core is protected by a tough woven tubular sleeve also made from
polyester without side stitch.
It serves to protect both the inner core of the sling and the surface of the

product which is lifting.

TECHNICAL DATA

					Wo	orking Load	Limits wit	h 1 round	sling		Working	Load Limits	with 2 rou	ındslings
	type	Colourcode according to DIN-EN 1492-1		straight lift	choked lift	0°- 7					straght	choked	straght	choked
		DIVERVE	1,21	Ші	IIIt		bis 7	7°- 45	45°- 60	45°- 60	lift up to 45	lift up to 45	lift 45°- 60	lift 45°- 60
							3.0 7				•			
				1,0	0,8	2,0	1,4	1,0	0,7	0,5	1,4	1,12	1,0	0,8
	RE-5/10	WLL 1T	Violet	1,000	800	2,000	1,400	1,000	700	500	1,400	1,120	1,000	800
	RE-5/20	WLL 2 T	Green	2,000	1,600	4,000	2,800	2,000	2,000	1,000	2,800	2,240	2,000	1,600
	RE-5/30	WLL 3 T	Yellow	3,000	2,400	6,000	4,200	3,000	2,100	1,500	4,200	3,360	3,000	2,400
	RE-5/40	WLL 4 T	Grey	4,000	3,200	8,000	5,600	4,000	2,800	2,000	5,600	4,480	4,000	3,200
	RE-5/50	WLL 5 T	Red	5,000	4,000	10,000	7,000	5,000	3,500	2,500	7,000	5,600	5,000	4,000
	RE-5/60	WLL 6 T	Brown	6,000	4,800	12,000	8,400	6,000	4,200	3,000	8,400	6,720	6,000	4,800
	RE-5/80	WLL 8 T	Blue	8,000	6,400	16,000	11,200	8,000	5,600	4,000	11,200	8,960	8,000	6,400
	RE-5/100	WLL 10 T	Orange	10,000	8,000	20,000	14,000	10,000	7,000	5,000	14,000	11,200	10,000	8,000
	RE-5/120	WLL 12 T	Orange	12,000	9,600	24,000	16,800	12,000	8,400	6,000	16,800	13,440	12,000	9,600
	RE-5/150	WLL 15 T	Orange	15,000	12,000	30,000	21,000	15,000	10,500	7,500	21,000	16,800	15,000	12,000
	RE-5/200	WLL 20 T	Orange	20,000	16,000	40,000	28,000	20,000	14,000	10,000	28,000	22,400	20,000	16,000
	RE-5/250	WLL 25 T	Orange	25,000	20,000	50,000	35,000	25,000	17,500	12,500	35,000	28,000	25,000	20,000
	RE-5/300	WLL 30 T	Orange	30,000	24,000	60,000	42,000	30,000	21,000	15,000	42,000	33,600	30,000	24,000
Type RE-5	RE-5/400	WLL 40 T	Orange	40,000	32,000	80,000	56,000	40,000	28,000	20,000	56,000	44,800	40,000	32,000



MERTRA RS-5 polyester Round slings with eyes

TYPE

- Round-Stop sling polyester with eyes
 Working load limit WLL. 1-40 Tonne, Length 1-20 Mtr.
 Safety Factor (S/F) 8:1

Lifting sling with Metal Component





- Polyester roundsling assembly with metal components.
- One-, two-, three- or four-legged.

SPECIFICATIONS:

- Each leg is protected by a sleeve. Standard Hook HS, other hooks on request.
- Lengths according to requiements.
- Light and easy to handle.
- Easy to control.

CHARACTERISTICS

- Low elongation. Extremely wear-resistant.

1-legged	load capacity (kg)	Type of roundsling
	1,000	RS-5/10
	2,000	RS-5/20
	3,000	RS-5/30
	4,000	RS-5/40
	5,000	RS-5/50

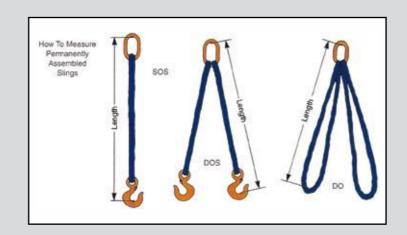
3-legged	0-45	45 - 60	Type of roundsling
	2,100	1,500	RS-5/10
	4,200	3,000	RS-5/20
	6,300	4,500	RS-5/30
	8,400	6,000	RS-5/40
	10,500	7,500	RS-5/50

2-legged	0-45	45 - 60	Type of roundsling
	1,400	1,000	RS-5/10
	2,800	2,000	RS-5/20
	4,200	3,000	RS-5/30
	5,600	4,000	RS-5/40
	7,000	5,000	RS-5/50

4-legged	0-45	45 - 60	Type of roundsling
	2,100	1,500	RS-5/10
	4,200	3,000	RS-5/20
	6,300	4,500	RS-5/30
	8,400	6,000	RS-5/40
	10,500	7,500	RS-5/50

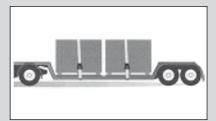
HOW TO REQUIREMENT:

- 1. TYPE OF SLING (ROUND SLING/WEBBING SLING)
- 2. TYPE OF LEG SLING (1, 2, 3 or 4-LEGGED)
- 3. CAPACITY PER EACH LEG
- 4. WORKING LENGTH OF SLING
- 5. TYPE OF END FITTING









FOR PLANT & MACHINERY TRANSPORT

MERTRA high strength polyester webbing lashing system for exceptional loads. Much lighter, easier and more user friendly than chain systems yet very strong. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing point and produced at a length 'made to measure'. MERTRA webbing lashings are manufactured in accordance with DIN 61360 and prEN draft standards. To calculate the rated assembly strength (RAS) divide the ultimate tensile strength (UTS) straight pull rating by 2., e.g. (UTS = 1000) / 2 = (500 = RAS).

LASHING STRENGTH



13000 kg.

26000 kg.

Lashing with: Ratchet type 2404 & hook 3001R

Webbing width: 100 mm.



10000 kg.

20000 kg.

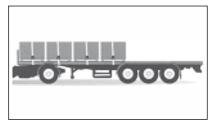
Lashing with: Ratchet type RB 75100 & hook 3001R

Webbing width: 75 mm.

Ratchet Strap with hook



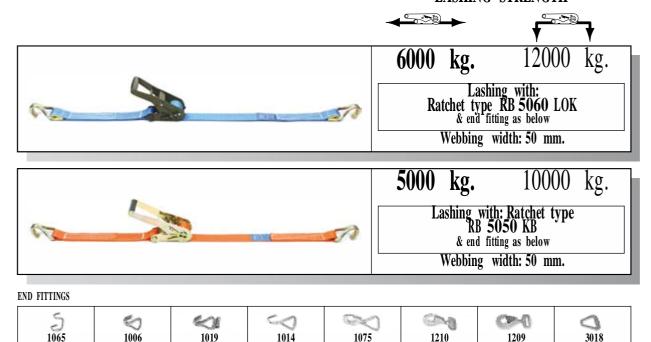




GENERAL HEAVY HAULAGE

MERTRA 50mm high strength polyester webbing lashing system for heavy genaral loads. Easy-quick-secure lashing for flats, tilts, containers, rail wagons. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'. MERTRA webbing lashings are manufactured in accordance with DIN 61360 and prEN draft standards. To calculate the rated assembly strength (RAS) divide the Ultimate tensile strength (UTS) straight pull rating by 2., e.g. (UTS = 1000) / 2 = (500 = RAS).

LASHING STRENGTH



Lashing System, Tie Down

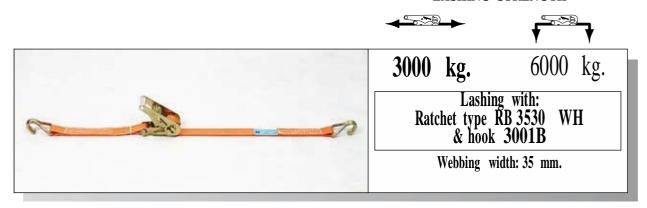


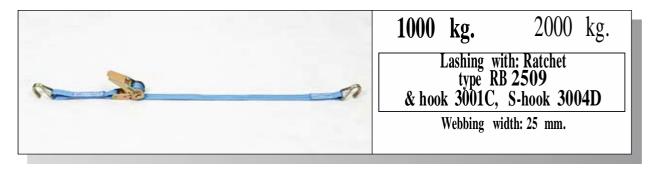


LIGHT/MEDIUM HAULAGE

MERTRA 35mm high strength polyester webbing lashing system for light and medium haulage requirements. Easy-quick-secure lashing. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing point and produced at a length 'made to measure'. MERTRA webbing lashings are manufactured in accordance with DIN 61360 and prEN draft standards. To calculate the rated assembly strength (RAS) divide the ultimate tensile strength (UTS) straight pull rating by 2., e.g. (UTS = 1000) / 2 = (500 = RAS).

LASHING STRENGTH

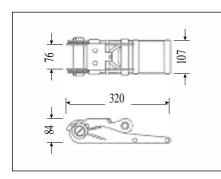




Rachet Buckles





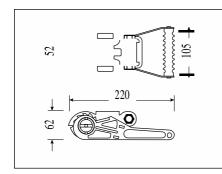


RB 75100

75 mm. Ratchet Buckle Break Strength

B/S: 10,000 kgs/22,000 lbs



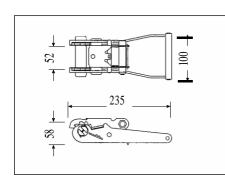


RB 5060 LOK

50 mm. Ratchet Buckle, Heavy Duty NATO BUCKLE (Military) Epoxy Coated Break Strength

B/S: 6,000 kgs/13,200 lbs



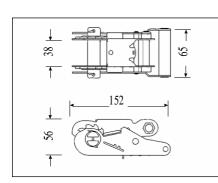


RB 5050 KB

50 mm. Ratchet Buckle Break Strength

B/S: 5,000 kgs/11,000 lbs



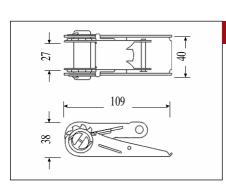


RB 3530 WH

35 mm. Ratchet Buckle Break Strength

B/S: 3,000 kgs/6,600 lbs





RB 2509

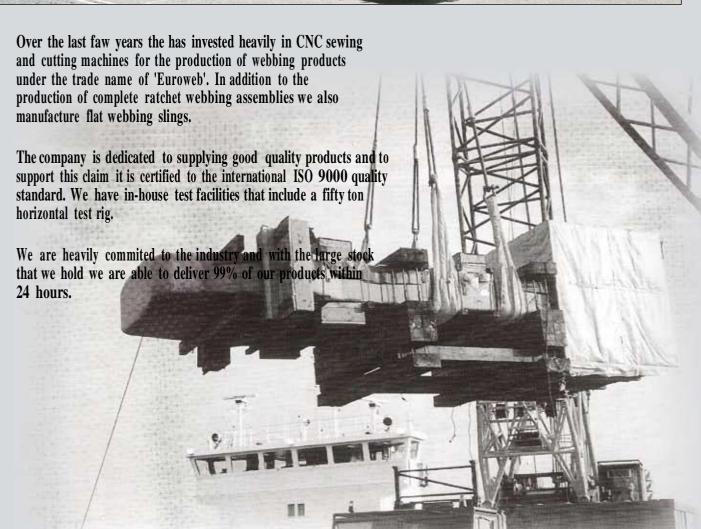
25 mm. Ratchet Buckle Break Strength

B/S : 1,000 kgs/2,200 lbs

About US



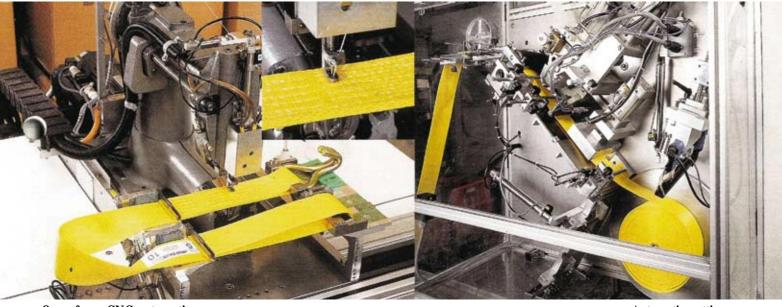








Our Equipment



One of our CNC automatic sewing machines

Automatic cutting and printing machine

In-house 100,000 kg Test Bed at the Eastbourne factory













B.J. brothers & SON

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