



Health is the primary duty of life.

Oscar Wilde

Dear Friends of ErgoStrap®,

Nothing is more important to the human being than health. Health is essential for all of us.

Backaches are a major health problem these days. Almost 50% of all employees suffer from pain in the back and neck area.

To work in a bent down position means strain, especially for strapping pallets manually. If you are interested in strapping pallets ergonomically, you came to the right place.

That's what we do! Ergonomic, easy, efficient – ErgoStrap®!

Maybe you have never really paid attention to the “pallet strapping” issue.

Or have you yourself made the painful experience that strapping is more stressful than it actually seems?

Our suggestion:

Give your employees a break and increase the efficiency of your organization with the help of our ErgoStrap® systems! Browse, read – and give us a call if you have any questions.

I hope our technology provides health and efficiency solutions to you.

A handwritten signature in black ink, reading "A. Kimmerle".

Andreas Kimmerle

Founder and Managing Director
of ErgoPack Deutschland GmbH



The Problem

Did you know?

Strapping **50 pallets per day** with
2 strappings each means for the operator

at least
bends down 50,000 times
and

walks around pallets
25,000 times

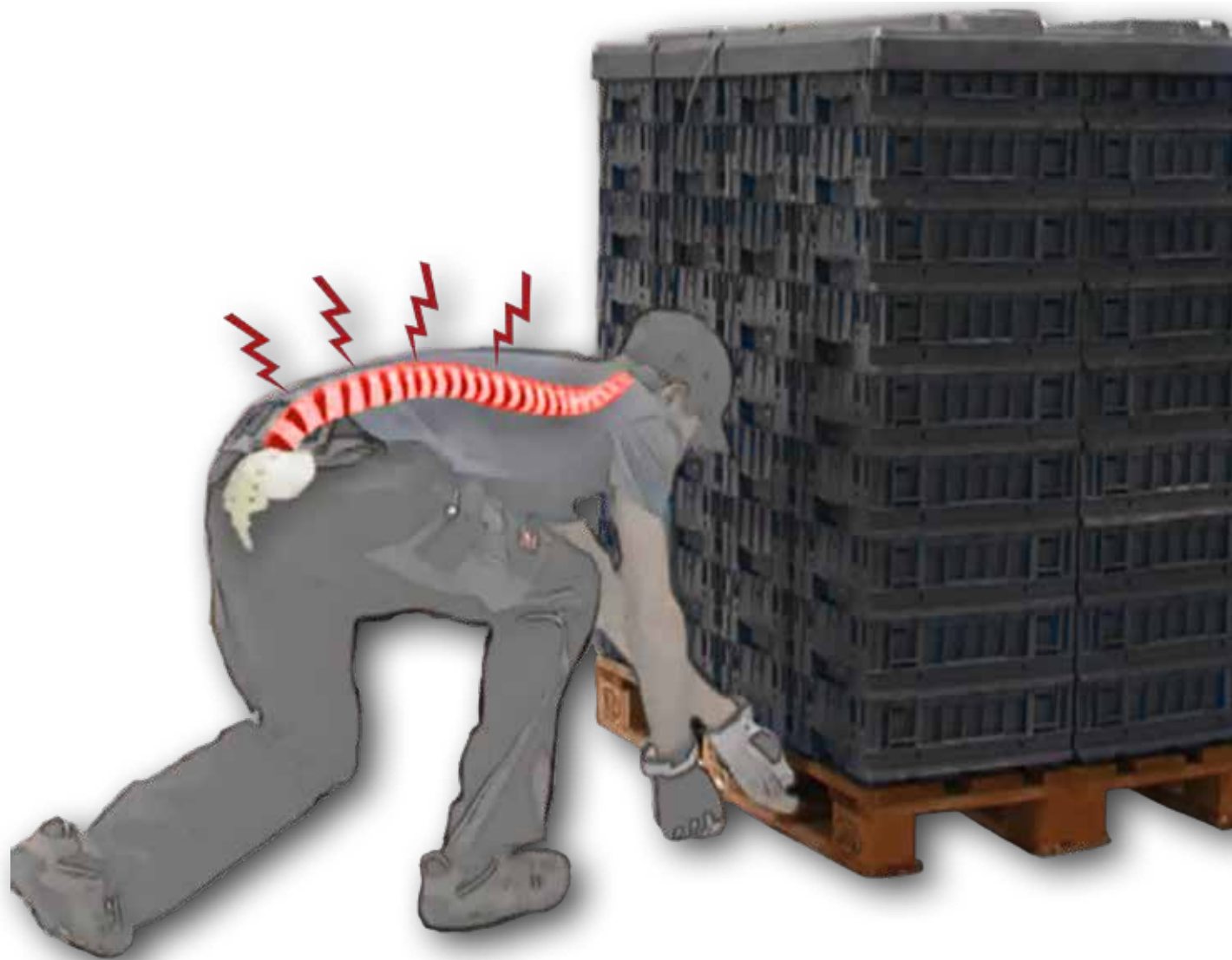
per year



Bending badly leads to back problems!

Manual pallet strapping causes back problems; requires more staff and leads to additional costs due to sick leave.

You can avoid it!



**Back pain is the most frequent cause of absenteeism.
Main causes are a bent working position and poor bending practices.**

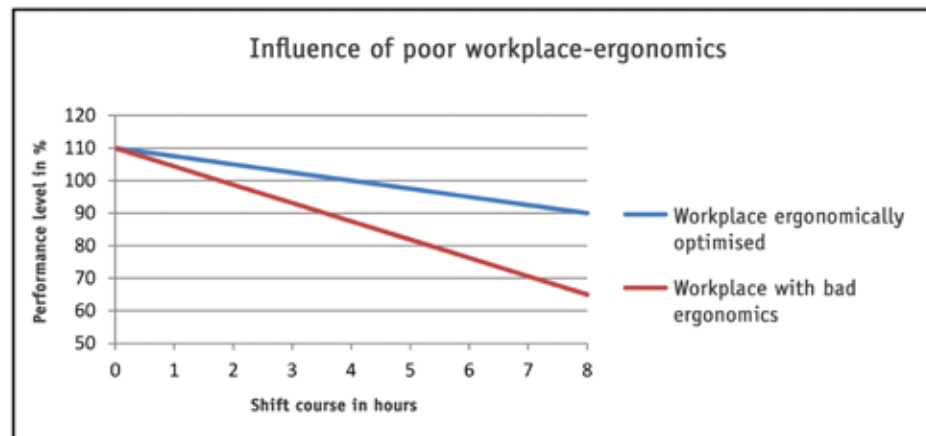


In Canada, they are the most common cause of workers' compensation.



A back injury brings in average 51 days of absence and costs approximately \$ 2,800 in addition to the lost in productivity.

Improve processes by avoiding strain on the body. Create more efficient employees by providing a culture of safety.



Source: Firm Quelle, based on workplace studies in shipping department

Keeping an employee healthy through retirement age will become a substantial factor for any enterprise in the course of demographic development.

It has to be the goal of each organization that employees can and want to be more productive.

To guarantee employment throughout a whole working life, we have to start rethinking how we work. Ergonomic workplaces and changes in processes are becoming more and more important in helping a workforce of all ages.

It is proven that ergonomically-optimized workplaces lead to higher productivity. Think ahead to increase your competitiveness and workforce engagement.



But most of all: Show your employees that you care about their health.

The Solution

With **ErgoStrap**:

Strapping 50 pallets per day with
2 straps each means each year the operator

exactly
bends down
0 times
and
walks around pallets
0 times



ErgoStrap® – ergonomic, easy, efficient



1

Roll the ErgoStrap® system in front of the pallet. The ChainLance pulls the strap through under the pallet and up again on the rear side and over the pallet...



2

...right into the hand of the operator. Then the ChainLance retracts. The strap lifter hands the other end of the strap to the operator at working height...



3

...and the strap is tensioned and welded securely by the onboard integrated sealing head.

The ErgoStrap® added value

Ergonomic, easy, efficient – that’s ErgoStrap®.

Ergonomic

ErgoStrap® is ergonomic: no bending down, no walking around the pallet.

This means: ErgoStrap® minimizes the risk of injuries and prevents back problems.

When strapping pallets manually, the operator has to bend down twice and walk around the pallet once. For a properly strapped pallet with two strappings, this means bending down four times and walking around twice.

50 pallets daily, with 2 strappings each, during 250 working days per year results in:

Bending down 50,000 times and 25,000 walks around pallets. ErgoStrap® puts an end to this!

Easy

ErgoStrap® is easy to learn and comfortable to use. Your advantage: Short training period for your employees, a little appreciated job suddenly becomes

interesting and enjoyable.

Plus: With a higher safety level for the users, there have been no accidents reported to us after more than 10,000 systems delivered globally.

Efficient

Reduced risk for back problems! Fun and motivation! More safety during the strapping process! A higher profitability and efficiency!

Which means for you:
More efficient working processes lead to more productivity and safer workplaces.

Positive side-effect of the efficiency: More time!

We calculate:
Even professionals take two minutes to strap a euro-pallet by hand twice.

With the ErgoStrap® anyone can do it in less than 40 seconds.

Gaining time is an extra benefit free of charge!

But see for yourselves:

Pallets per day	Time-saving per day	Time-saving per month
10	14 minutes	4,9 hours
30	42 minutes	14,7 hours
50	70 minutes	24,5 hours
100	140 minutes	49 hours

What our customers say...



“Our shipping staff must regularly put heavy and unhandy packages on pallets and secure them for their travel to our customers. The ErgoStrap® 726X is already the second machine from ErgoStrap® that helps us with this task. The strapping system makes our job much easier: It significantly reduces the physical strain on our employees’ health and saves up to 40 minutes a day on 20 pre-stacked pallets. Our employees have their head clear for value-adding processes to ensure our quality standards in shipping to our customers.

Compared to the former model, the 726X is easier to move. Thanks to its line laser, the machine can easily be placed at the correct distance in front of the pallet. The chain runs faster and is also quieter. The touchscreen with simple and intuitive operating logic is a great upgrade too. The ErgoStrap® 726X is an excellent system and ErgoStrap®’s support is absolutely customer-friendly, reliable and uncomplicated. “

SMC Deutschland GmbH



“During a trade fair visit, we saw the ErgoStrap® 726X strapping system. Following that, a consultation and demonstration by one of the ErgoStrap® demo team was great and gave us the opportunity to test the system on our pallets. When strapping our goods, the system clearly delivers a noticeable improvement in ergonomics and enables a much faster processing of the pallets (compared to the use of a “conventional” battery-powered hand-held sealing tool).

The operation of the 726X via touchscreen is simple. Our employees are very happy with the handling and pleased about using modern, ergonomic work equipment. The further support by the ErgoStrap® HQ team is also excellent, so we can strongly recommend ErgoStrap®.”

Croda GmbH

AGR Seal of Approval

What characteristics does a product have to fulfil to provide the spinal column and the locomotor system with optimum support, providing relief and not acting as a burden for the user?

As this is not immediately apparent in most products and as industry and the retail sector do not have a clear view, the "Aktion Gesunder Rücken (AGR) e.V." has developed a decision-making aid for consumers:

The AGR Seal of Approval.

Independently verified

The AGR Seal of Approval is awarded only to products whose back-friendly design has been verified by an independent testing committee made up of experts from various medical disciplines.

The special, and unique feature of the seal, is the medical multidisciplinary approach to deciding which products receive the AGR Seal of Approval, without being influenced by industry.

Purchase decision

Products with a back-friendly design are essential and important aids in both preventing backache and in treating diseases of the locomotor system.

But it is not always easy to decide which product is the right one.

The Seal of Approval developed by the AGR, together with Germany's two largest back school associations therefore provides valuable assistance for consumers when purchasing ergonomic everyday products such as office furniture, car seats, beds, bikes, upholstered furniture, shoes, backpacks, furniture for children and home workstations etc.





www.agr-ev.de

Multiple awards

The AGR Seal of Approval even received the accolade "very good" from the "ÖKOTEST" consumer magazine.

The evaluation forum "Label Online", promoted by the German Department of Justice and Consumer Protection awarded the AGR Seal of Approval as "highly recommended".

The strict testing criteria and the composition of the committee with designated medical experts means that the AGR Seal of Approval is well accepted in the medical world. For consumers the seal has become established as a clear decision making aid, confirming:

ErgoStrap® is a back-friendly product.

The ErgoStrap® Evolution – Over 10,000 systems a



First prototype of a strapping device based on a double scissors system similar to a scissors lifting table.

1998



First serial model ErgoStrap® 300 for composite straps with a core diameter of 75mm (2,9”), operated by a crank.

2000



The new ErgoStrap® 600 wins the gold medal at the International Exhibition of Inventors in Geneva, as well as the German Inventor's Award. With the help of the newly developed strap lifter, the operator does not have to bend down anymore at all.

2002



1999

Invention and patenting of the world's first ChainLance.



2001

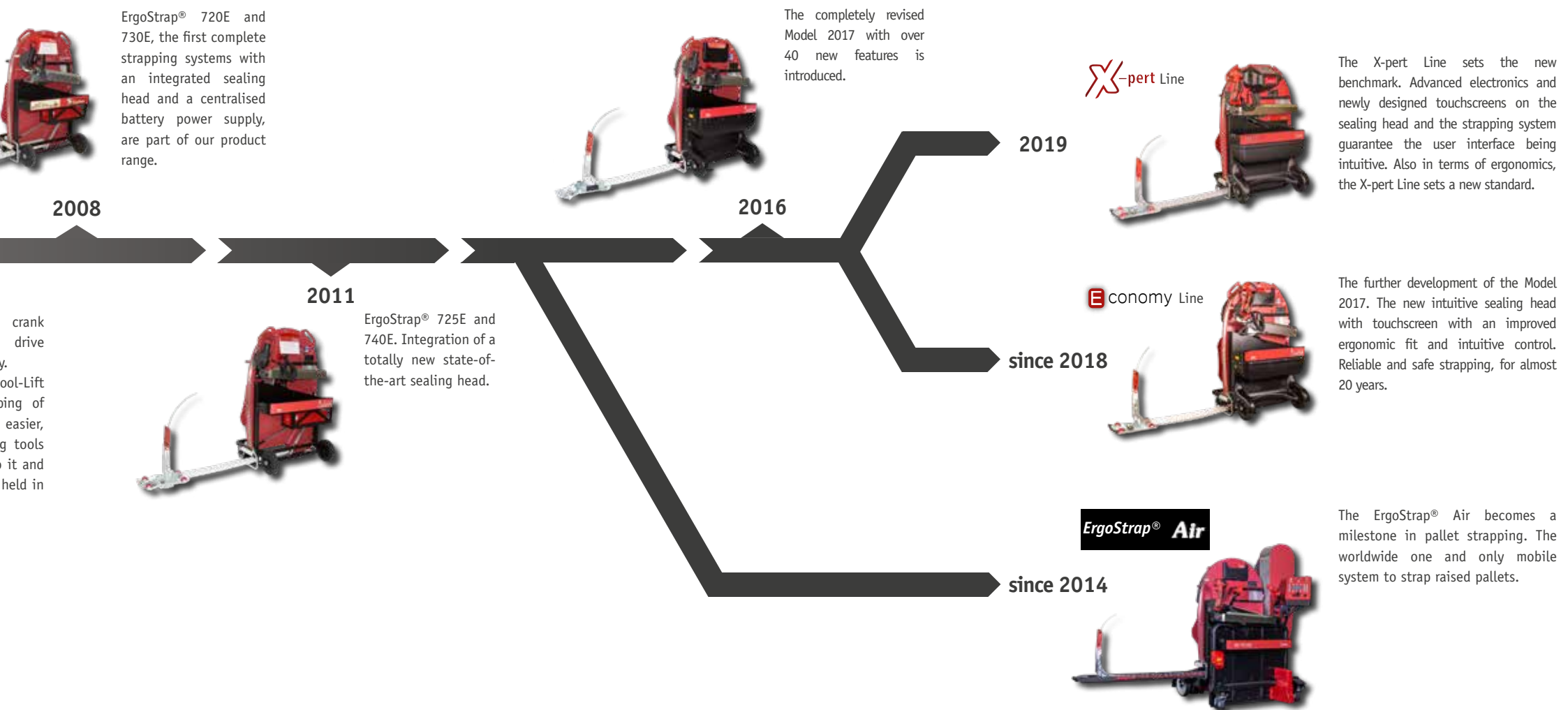
Introduction of the ErgoStrap® 500 with a 5m long ChainLance to strap larger pallets with PP and PET strap with a 406mm (15,9”) core diameter.



2003

Change from the... to an electronic... operated by battery... The ErgoStrap® T... makes side strapp... high pallets even... as different sealin... can be attached to... do not have to be... the hand.

are sold in 55 countries – The Global Market Leader





Models 713X – 726X – 745X

X-treme ergonomic

X-treme comfortable

X-treme process reliable

Standard equipment

- ① Elegant operation via touchscreen and joystick with intuitive user guidance
- ② Fully integrated sealing head with touchscreen and ergonomically shaped controls
- ③ Tool-Lift counterbalances the operation of sealing head
- ④ Easy going and comfortable handling with ergonomically shaped handles
- ⑤ Fully covered for increased working safety in classy design





Technical specifications

Maximum pallet sizes:

Width up to 2.4 m (94") / Height up to 2.3 m (90")

Suitable types of strap:

PP and PET straps

Strap width:

713X: 9 mm - 13 mm (3/8" - 1/2")

726X: 12 mm - 16 mm (1/2" - 5/8")

745X: 15 mm - 19 mm (5/8" - 3/4")

Tensioning force sealing head:

713X: 33 lbs - 270 lbs

726X: 90 lbs - 560 lbs

745X: 90 lbs - 1000 lbs

Length of the ChainLance:

6 m (20') / extendable to 7 m (23')

Dimensions:

Width 0.77 m (30") / Height 1.2 m (47") / Depth 0.66 m (26")

Weight:

120 kg (254 lbs) (incl. battery)

Battery:

36V AGM battery

Model 700X

as models 713X / 726X / 745X,
but without sealing head and without Tool-Lift





Models 713E – 726E – 745E

The further development of the 2017 model. Reliable and safe strapping for almost 20 years. Proven technology in the field of ergonomic pallet strapping systems.

Compared to the new X-pert Line the E-conomy Line has fewer options. The strapping speed is lower and can not be adapted to the experience of the user. In addition, the E-conomy Line does not have a touchscreen. The pallet width is adjusted mechanically.

Standard equipment

- ① Easy control via joystick without touchscreen
- ② Fully integrated sealing head with touchscreen and ergonomically shaped controls
- ③ Tool-Lift counterbalances the operation of sealing head
- ④ Easy going and comfortable handling with ergonomically shaped handles
- ⑤ Covered for high working safety





Technical specifications

Maximum pallet sizes:

Width up to 2.4 m (94") / Height up to 2.3 m (90")

Suitable types of strap:

PP and PET straps

Strap width:

713E: 9 mm - 13 mm (3/8" - 1/2")

726E: 12 mm - 16 mm (1/2" - 5/8")

745E: 15 mm - 19 mm (5/8" - 3/4")

Tensioning force sealing head:

713E: 33 lbs - 270 lbs

726E: 90 lbs - 560 lbs

745E: 90 lbs - 1000 lbs

Length of the ChainLance:

6 m (20') / extendable to 7 m (23')

Dimensions:

Width 0.77 m (30") / Height 1.2 m (47") /

Depth 0.66 m (26")

Weight:

94 kg (200 lbs) (incl. battery)

Battery:

24V AGM battery

Modell 700E



as models 713E / 726E / 745E
but without sealing head and without Tool-Lift

Modell 700



with manually driven ChainLance via crank

Special equipment for X-pert Line and E-economy Line

1. Headpiece with bumper

For strapping pallets with lateral overlappings up to 40mm (1.6"), e.g. cardboard covers or uneven side surfaces.

2. Line Laser

The Line Laser indicates the distance and the alignment of the machine to the pallet, which simplifies the positioning of the machine in front of the pallet.

3. Reversing sledge

Reversing sledge 85S (only available for E-economy Line):
Slimmer version of the standard sledge. Minimum clearance width: 160mm (6.3"), instead of 185mm (7.3") in standard equipment.

Reversing sledge 47: (available for X-pert Line and E-economy Line)
Narrower version of the standard sledge. Minimum clearance height: 47mm (1.85"), instead of 87mm (3.4") in standard equipment.

Reversing sledge 47S: (available for X-pert Line and E-economy Line)
Slimmer version of the reversing sledge 47. Minimum clearance width: 160mm (6.3"), instead of 185mm (7.3") in standard equipment.

4. Triplex-Tool-Lift

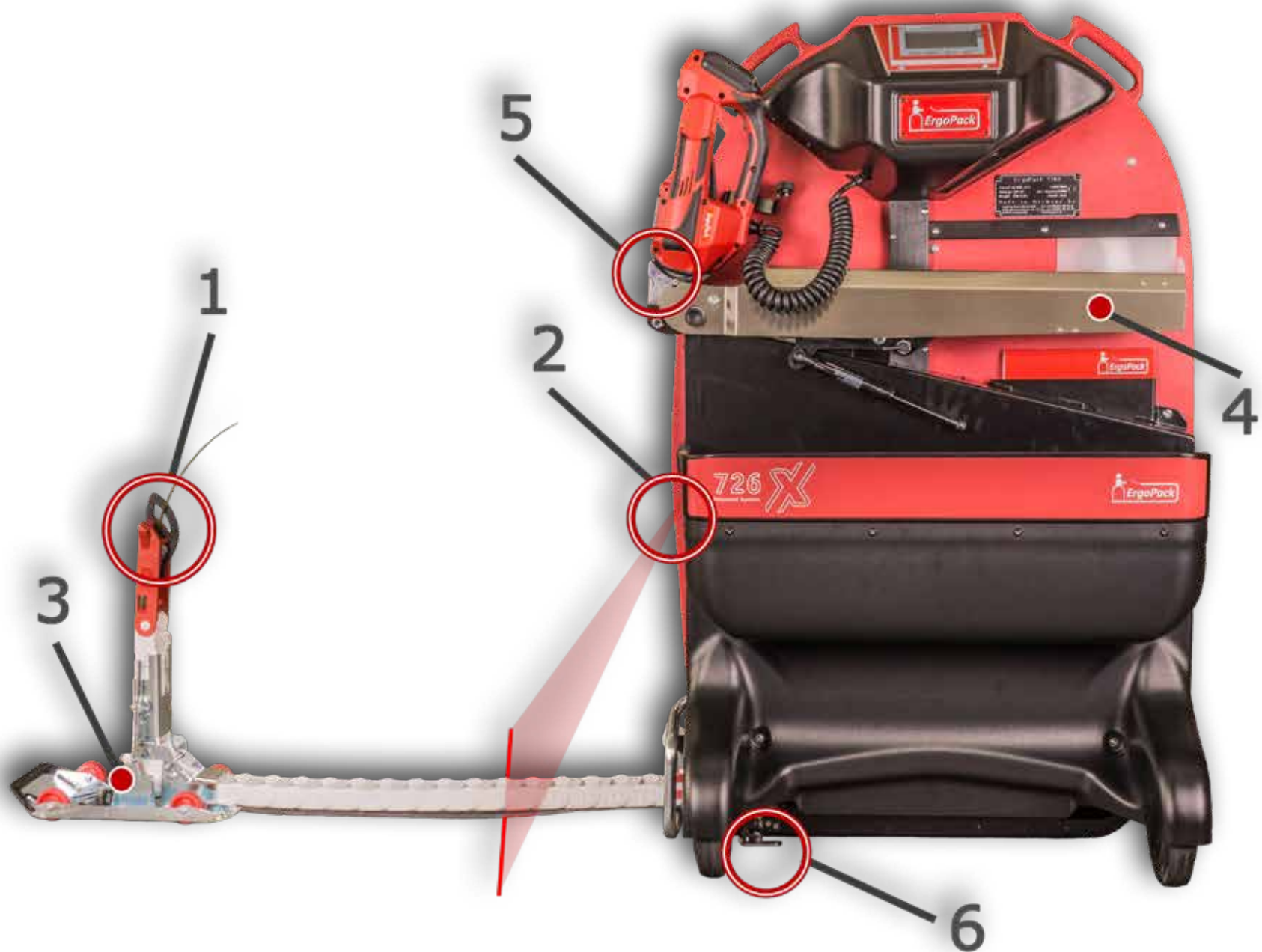
The Triplex-Tool-Lift enables tensioning and sealing not only on the side of a pallet (side sealing), but also on the top (top sealing) without removing the sealing head from the Triplex-Tool-Lift.
Minimum pallet height for side sealing is 760 mm (30"). Maximum pallet height for top sealing is 780 mm (31"). Minimum pallet height for top sealing is 100 mm (4").

5. Sealing head removable from the Triplex-Tool-Lift












If the strap needs to be tensioned and sealed in positions which cannot be reached by the Triplex-Tool-Lift, e.g. inside a mesh transport box or for horizontal strapping. By pulling a bolt, the sealing head can be removed and the strap can be tensioned and welded in any position.


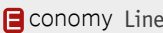









6. Strap brake relief

The brake resistance of the strap coil can be reduced to 20% by simply pushing a foot pedal. Manually pulling out strap is a lot easier, especially for pallets of 1.20 m (47") and higher.



ErgoStrap®- Productrange

	 Line The Benchmark in Ergonomic Pallet Strapping				 Economy Line				
Model	700X	713X	726X	745X	700	700E	713E	726E	745E
									
Power	235W	235W	235W	235W	-	93W	93W	93W	93W
Drive	Electric motor with reinforced angle gear , electronically controlled				manually via a hand crank	Electric motor with spur gear , electronically controlled			
Battery Pack	3 x 12V AGM Battery	3 x 12V AGM Battery	3 x 12V AGM Battery	3 x 12V AGM Battery	-	2 x 12V AGM Battery	2 x 12V AGM Battery	2 x 12V AGM Battery	2 x 12V AGM Battery
Operating voltage	36V	36V	36V	36V	-	24V	24V	24V	24V
Strapping cycles per battery charge (standard strapping*)	650	650	650	650	-	350	350	350	350
Charger	36V Charger, 4,5A	36V Charger, 4,5A	36V Charger, 4,5A	36V Charger, 4,5A	-	2 x 12V Dual Charger, 2A	2 x 12V Dual Charger, 2A	2 x 12V Dual Charger, 2A	2 x 12V Dual Charger, 2A
Chain speed	66m (2598")/min	66m (2598")/min	66m (2598")/min	66m (2598")/min	-	40m (1575")/min	40m (1575")/min	40m (1575")/min	40m (1575")/min
Pallets width setting	via Siemens Industrial Touchscreen in 10cm (4") steps, works with work gloves				mechanically, by inserting a bolt in the appropriate position in 20cm (8") steps				
Other settings	individual setting options via the Siemens Industrial Touchscreen, such as: <ul style="list-style-type: none"> • chain speed, • chain length, • standby timer, • strap lifter time for upper position, • Line Laser on/off, • Sealing head on/off 				-	-	-	-	-
Indicators	<ul style="list-style-type: none"> • charging level indicated graphically and in %, • set pallet width, • permanent graphically indication of the ChainLance position, • strapping cycles, • sliding window open graphically and in writing, • safety instructions, • menu-driven step by step description for semi automated strap roll change 				-	3 LEDs indicating charging level and sliding window „open“			
Software update	easy update via USB stick				-	only by manufacturer			

	 Line The Benchmark in Ergonomic Pallet Strapping				 Economy Line					
Model	700X	713X	726X	745X	700	700E	713E	726E	745E	
										
Standard Equipment										
AGR-Certification	✓	✓	✓	✓	✓	✓	✓	✓	✓	
ChainLance				special, glass fiber reinforced, high strength soft-slide chain						
Tool-Lift	-	✓	✓	✓	-	-	✓	✓	✓	
Sealing Head	-	✓	✓	✓	-	-	✓	✓	✓	
Tension Force	-	33 lbs - 270 lbs	90 lbs - 560 lbs	90 lbs - 1000 lbs	-	-	33 lbs - 270 lbs	90 lbs - 560 lbs	90 lbs - 1000 lbs	
Strap Types	PP/PET	PP/PET	PP/PET	PP/PET	PP/PET	PP/PET	PP/PET	PP/PET	PP/PET	
Strap Width	9-25mm (3/8" - 1")	9-13mm (3/8" - 1/2")	12-16mm (1/2" - 5/8")	15-19mm (5/8" - 3/4")	9-25mm (3/8" - 1")	9-25mm (3/8" - 1")	9-13mm (3/8" - 1/2")	12-16mm (1/2" - 5/8")	15-19mm (5/8" - 3/4")	
Strap Thickness	0,5-1,3mm (0.019" - 0.051")	0,35-0,85mm (0.019"-0.031")	0,5-1,0mm (0.019" - 0.040")	0,8-1,3mm (0.031" - 0.051")	0,5-1,3mm (0.019" - 0.051")	0,5-1,3mm (0.019" - 0.051")	0,35-0,85mm (0.019" - 0.031")	0,5-1,0mm (0.019" - 0.040")	0,8-1,3mm (0.031" - 0.051")	
Special Equipment										
Triplex-Tool-Lift	-	✓	✓	✓	-	-	✓	✓	✓	
Sealing Head removable	-	✓	✓	✓	-	-	✓	✓	✓	
Line Laser	✓	✓	✓	✓	-	✓	✓	✓	✓	
Strap Brake Relief	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Reversing Sledge	47 / 47S	47 / 47S	47 / 47S	47 / 47S	47 / 47S / 85S	47 / 47S / 85S	47 / 47S / 85S	47 / 47S / 85S	47 / 47S / 85S	
Header with Bumper	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Accessories										
Mobile Overheight Module	✓	✓	✓	✓	-	✓	✓	✓	✓	
Stationary Sledge Tunnel	✓	✓	✓	✓	-	✓	✓	✓	✓	
Mobile Sledge Tunnel Station	✓	✓	✓	✓	-	✓	✓	✓	✓	
Ergonomic battery change trolley	✓	✓	✓	✓	-	✓	✓	✓	✓	

***Standard strapping:**

Battery pack: 100 charging- and discharging-cycles | Strap: 13 mm (1/2") PET (complete strap roll) | Sealing Tool: 726, Tension Force 200 lbs without soft, Welding time 2 | Pallet: pallet width 0.8 m (32"), pallet height 1.15 m (45") | Strapping speed: fast | Room temperature: 68 °F

Accessories

Mobile Overheight Module – Enables strapping of pallets up to 3 m (120") height



This custom-made accessory is designed to strap pallets of up to 3m (120") high.

It is an ideal solution to strap pallets with protruding products or sensitive goods, (such as varnished surfaces), securely and gently.

Attaches to the ErgoStrap® machine via a detachable quick fastener.

Once the Mobile Overheight Module gets separated from the ErgoStrap® machine, conventional pallets of up to 2,3m (90") height can be strapped as usual.



Machine in use



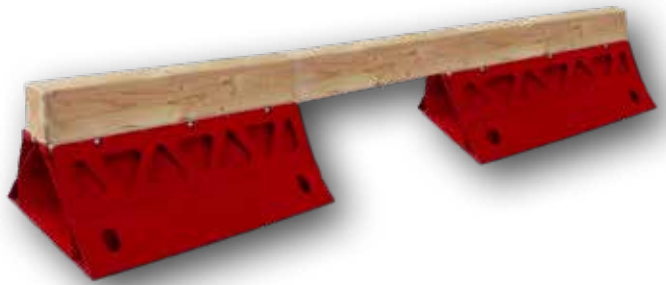
Quick fastener - lateral



Quick fastener - detail

Accessories

Strapping for scantlings – Stationary Sledge Tunnels



The Stationary Sledge Tunnels are fixed on the floor and can be used with every standard ErgoStrap® system. The Tunnels are individually adapted to the width of your scantlings.



Accessories

Strapping for scantlings – Mobile Sledge Tunnel Station



Flexible and precise. The Mobile Sledge Tunnel Station straps pallets including scantlings. The distance of the scantlings can be adjusted continuously by the aid of an integrated tape measure. Always adapted to your needs – the Mobile Sledge Tunnel Station is manufactured according to your requirements. The entire station can be moved to wherever you need to strap.



Accessories

Ergonomic battery change trolley



Ergonomic, easy and efficient – these features characterize our entire product range.

The ergonomic battery change trolley makes it easy to change the battery of the models of the ErgoStrap® X-pert Line and ErgoStrap® E-economy Line and ensures ergonomic and safe transport between the charging station and your ErgoStrap® strapping system. It can accommodate three battery packs.

4 caster wheels enable a comfortable positioning of the ergonomic battery change trolley to be latched to the ErgoStrap® system via connection bridge. Due to this stable connection, the battery can be changed easily. For the highest demands in every work environment.



ErgoStrap® Air

ErgoStrap® Air 713-580 / 726-580 / 745-580 – Ergonomic pallet strapping system for raised pallets.



The ErgoStrap® Air is a revolutionary innovation in pallet strapping. The world wide one and only mobile system to strap raised pallets.

For use on conveyor lines, lift tables, carts and tigger trains.

For detailed information, please ask for our ErgoStrap® Air brochure or visit us at www.ergostrap.ca





Demo-Team

Are you interested in our ergonomic pallet strapping system but unsure if it will fit your application?

It will be our pleasure to visit you. We will demonstrate the system and all its capabilities in your environment. With your pallets. For your employees. At no charge of course and without any obligations. You will receive our custom tailored offer, perfectly adapted to your unique needs.

This is an essential advantage for you - particularly after purchase.

Quick and reliable: Our sales staff provide professional assistance on site – especially during commissioning and training - to ensure smooth working right from the start.

Training

Our training helps your staff to get familiar with ErgoStrap® immediately.

Training

It's as easy as this: Just book a training session for your employees right away with the purchase of the machine. Your ErgoStrap® specialist delivers your system and instructs your staff personally.

Process

The training takes about two hours.

Everything will be shown, explained and trained:

- Basic functioning
- Changing the strap roll
- Operating elements of the control box
- Battery and charger
- Maintenance
- Special pallet application
- Safety advice

After the training you will receive a training protocol.



Customer service

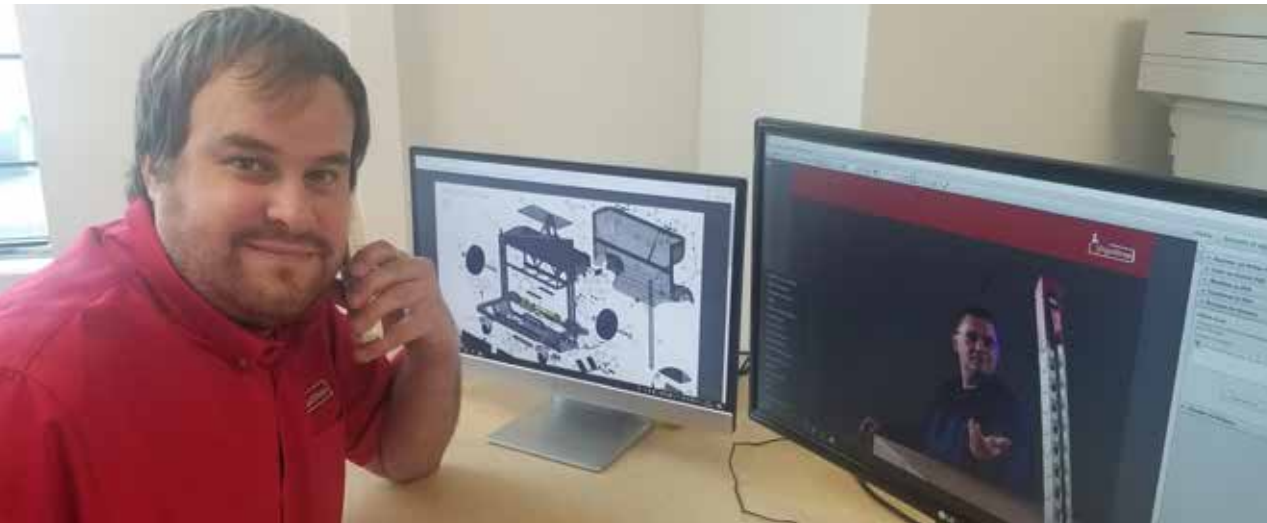
In case of accidents you need quick assistance. We can manage this.

Expert phone support is the most common form of service, with service calls available and even machine refurbishing if eventually required.

Low maintenance, high reliability design and comprehensive documentation provide excellent uptime and low total cost of ownership.

Our System is completely modular, with a loaner program available, for repair of the sealing tool and operator control module.

Replacement Parts are well stocked in Montreal, Quebec inventory.



Manufacturer

Technological expertise in the field of pallet strapping has been the foundation of our company ever since its inauguration in 1999. In this context we develop, manufacture and distribute mobile pallet strapping systems of the highest quality which are unique worldwide.

Our goal is to significantly improve safety and ergonomics in the field of manual pallet strapping.

Thereby we endeavour to improve the health and motivation of all users, as well as the efficiency of our customers' logistical processes.

At the same time we completely re-define the field of pallet strapping by focussing on innovative products with high functionality as well as unique patented selling points.



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