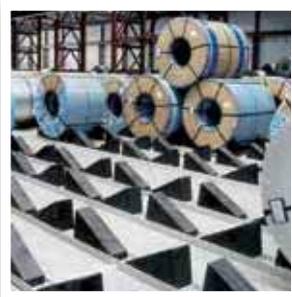


COIL STORAGE SYSTEMS



Your partner in safe coil storage

Lankhorst | *Mouldings*

A trade name of Lankhorst Engineered Products bv



WORLD WIDE SPECIALIST IN COIL STORAGE

It all started in 1981 when a local steel mill wanted to improve safety in their coil warehouse by replacing old, vulnerable wooden chocks. Back then Lankhorst was already a plastics producer and, after some engineering, the worlds' first coil storage chock made from recycled plastics was produced. It proved to be an excellent product: an enormous load bearing capacity was combined with ductile, yet unbreakable characteristics.

With over 35 years of experience, Lankhorst Mouldings coil storage systems can be found all around the globe. All major steel producers, steel processors and steel stockholders use these storage systems with great success. Lankhorst Mouldings' customers benefit from our wide product range that always offers the same important features: improved safety, optimal flexibility, extreme long lifetime and highly experienced on-site product support and advice.

Wide product range

Over the past decades we have developed a vast range of coil storage and transport systems. All these systems have been engineered in close cooperation with our customers – they are the experts in steel, we are the experts in plastics. Production takes place in our own production facility, which is based in the city of Sneek in the Netherlands.

Whether you want to store hot rolled, cold rolled, galvanized, painted or tin-plate (slit) coils, whether you want to store them single level or up to two or three levels – there is always a Lankhorst Mouldings coil storage system that will fit your situation.



COIL STORAGE SYSTEMS



YOUR PARTNER IN SAFE COIL STORAGE

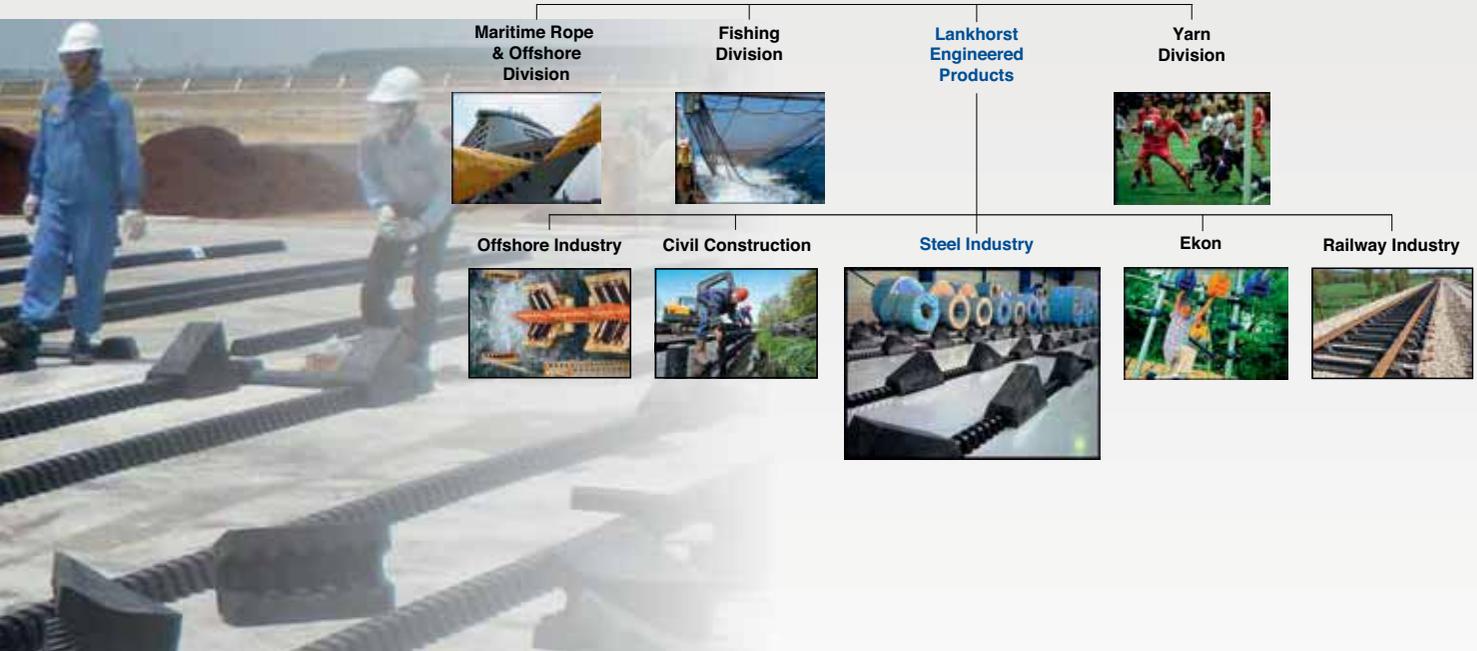
Royal Lankhorst Euronete

Lankhorst Mouldings is a subsidiary of Royal Lankhorst Euronete. Its origins date back as far as the year 1803 on the exact same spot where our offices and factories can be found today.

At the bicentennial festivities of Lankhorst in 2003 Her Majesty the Queen of the Netherlands granted the group the honour to use the word "Royal" in the company's name.

Royal Lankhorst Euronete expanded from a regional family owned company into a worldwide operating company with leading positions in markets for among others ropes, industrial yarns, fish netting, reinforced composites and recycled plastics. We exchange knowledge and ideas and create synergies for joint developments.

In 2012 Royal Lankhorst Euronete was acquired by WireCo WorldGroup Inc., a global leader in producing and marketing of wire rope, electromechanical cable and a major producer of wire products, headquartered in Kansas City.



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Improved safety

Or perhaps we should better describe this as optimal safety. At Lankhorst Mouldings safety is most important and second to none. In this respect we find it very important that our engineers are fully involved in the whole process: designing (new) coil storage systems in our own Research and Development Centre, recycling the right type of plastics in our own recycling plant and producing coil storage chocks in our own production facility. Needless to say that most of our products have been evaluated and approved by TÜV Germany, as well Lankhorst Mouldings are certified according to ISO 9001, ISO 14001 and OHSAS 18001 regulations.

Less damage

Our material is ductile. When subjected to loading, KLP® material flexes slightly but will return to its original shape immediately afterwards. KLP® material considerably reduces damage to your precious coils.



Optimal flexibility

At Lankhorst Mouldings we do not simply copy a wooden chock. We develop new innovative coil storage systems. We know that your coil dimensions are not always the same, therefore our chocks are not fixed to their position – they can easily be adjusted for the coil dimensions that you have today. Flexibility for diameter, width and weight.

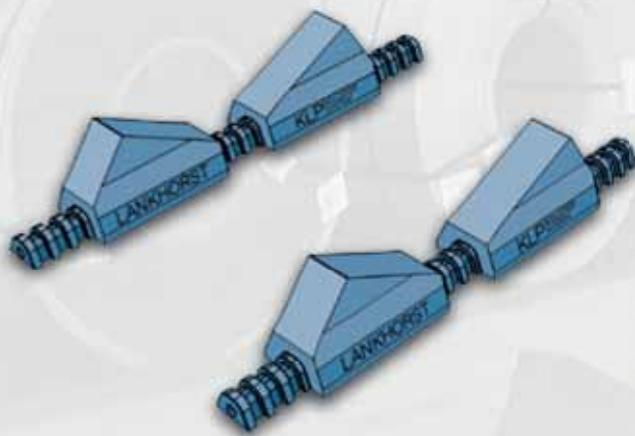
Extreme long lifetime

As mentioned before, at Lankhorst we recycle plastics ourselves, and we have done so for the past 35 years. This allows a constant quality level at all times, very important when it comes to safety. Anyone can make a black plastic chock, but who has the experience to make one that never breaks and lasts a lifetime?

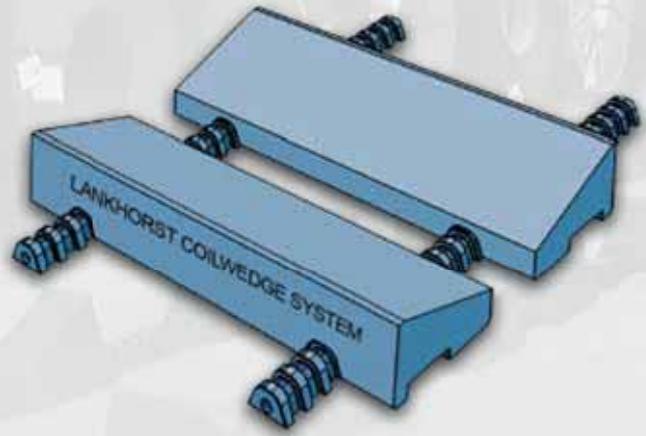
On-site product advice and support

Safe coil storage is always tailor-made. Although there are many similarities in coil warehouses, all of our customers have specific storage characteristics with special requests. That's why our highly experienced sales engineers are always ready to visit you on-site. And there is another advantage of being in the steel business for so long: Lankhorst has a vast network of representatives all over the world – in all major steel countries on all continents. No matter where you are located, there is always a Lankhorst representative near you for instant advice or support.

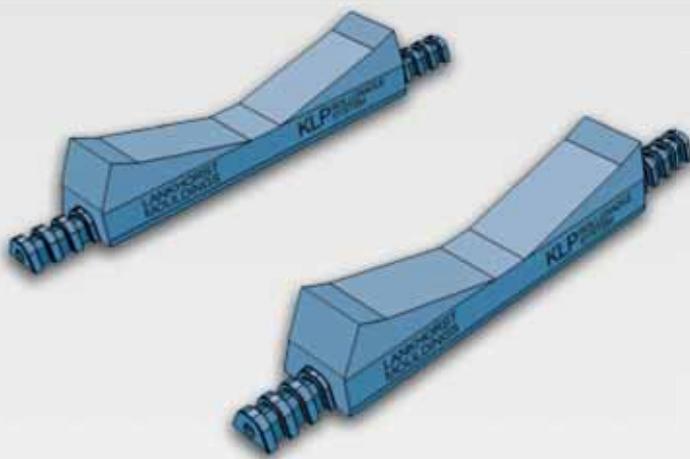




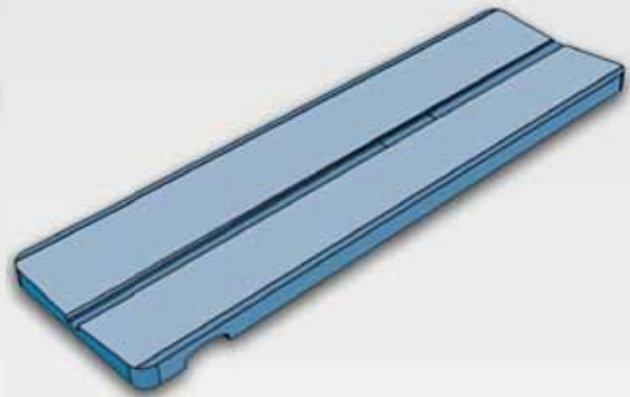
KLP® RollStop System



KLP® CoilWedge System



KLP® RollCradle System



KLP® Storageblocks & Oiltrays

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original
KLP®

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KLP® ROLLSTOP SYSTEM

The KLP® RollStop System, developed back in 2005, is our most popular coil storage system chosen by all major steel companies world wide.

It is a turn-key storage system offering maximum flexibility and maximum safety. Coils may be stored up to three levels. The system consists of four simple components: rail, connector, spacer and KLP® RollStop – this allows a very simple installation on-site.

The interlocking system consists of a reinforced rail with notches on which the KLP® RollStops can be positioned. The distance between the KLP® RollStops may vary depending on coil diameter. One size fits all! An extensive installation manual will guide you through the installation of the system on-site.

Why use KLP® RollStops System in your warehouse?

- One stop shop – one supplier for the complete system (turn-key)
- No steel profiles needed
- No special installation equipment needed
- Fast and easy installation – two men can do the job
- Easy three level stacking
- Flexible for coil diameter and width
- Improved safety for personnel (TÜV-approved)
- Less damage to your precious coils
- Splinter proof
- Long lifetime
- Enormous load bearing capacity
- No oil absorption



ROLLSTOP SYSTEM

We can supply two basic models of our KLP® RollStops, depending on the weight of your coils. Each model can be supplied for various coil storage situations:

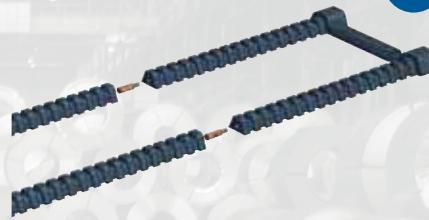
Type	Application	Diameter coils (mm)	Maximum load (tons) using 4 Roll-Stops
RS100	Standard	700-2500	100
RS100 WR	Outside storage	700-2500	100
RS100 HR	Heat Resistant up to 110°C	700-2500	100
RS40	Standard	564-2500	40
RS40 WR	Outside storage	564-2500	40
RS40 HR	Heat Resistant up to 110°C	564-2500	40

HR or 'Heat Resistant' RollStops may be used for coils with temperatures up to 110°C. Our standard KLP® RollStops can withstand temperatures up to 60°C. WR ('Weather Resistant') RollStop System has coated metal components, preventing them from corrosion.

Our KLP® RollStop System is fully patented.

KLP® RollStop System: world standard since 2005!

1 Use rails and steel connectors to create the desired row length. Use (end) spacers to set the desired row width.



2 Place KLP® RollStops, depending on coil diameter.



3 Place all spacers and connect them to the rail - your storage system is now ready for use!



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KLP® COILWEDGE SYSTEM

KLP® CoilWedge System combines advantages of both RollStops and Storageblocks. It offers the same flexibility as the RollStop System for coil diameters and at the same time maximum flexibility for all coil widths, similar to the Storageblocks and traditional Coilwedges. The long wedged beams offer safe and flexible storage for wide coils and also for narrower or even (bundled) slit coils.

Coilwedges are placed on the same rails as used for the RollStops. This interlocking system consists of a reinforced rail with notches to position the KLP® CoilWedges on. Distances between the CoilWedges may vary depending on coil diameter. One size fits all! Our standard CoilWedges come in 1200 mm or 1500 mm lengths.

It is a turn-key storage system offering maximum flexibility and maximum safety. Coils may be stored up to two levels. The system consists of four simple components: rail, connector, endcap and CoilWedge, which allows very simple installation on-site.



COILWEDGE SYSTEM

Why use KLP® CoilWedge System in your warehouse?

- One supplier for the complete system (turn-key)
- No steel profiles needed
- No special installation equipment needed
- Fast and easy installation - two men can do the job
- Easy two level stacking
- Full support for sensitive material
- Flexible for all coil diameters and widths
- Improved safety for personnel
- Less damage to your precious coils
- Splinter proof
- Long life time
- Enormous load bearing capacity
- No oil absorption

Our KLP® CoilWedge System is also available in 'Weather Resistant' quality.



Product	Type	Type rail	Length (mm)	Width (mm)	Chock angle (°)	Diameter range (mm)	Maximum load (tons) using 2 Coil-Wedges
CWS 40	120/34	RS 40	1200	340	21°	546 - 2500	40
CWS 40	120/43	RS 40	1200	430	21°	672 - 2500	40
CWS 40	150/34	RS 40	1500	340	21°	546 - 2500	40
CWS 40	150/43	RS 40	1500	430	21°	672 - 2500	40
CWS 80	120/45	RS 100	1200	450	21°	727 - 2500	80
CWS 80	150/45	RS 100	1500	450	21°	727 - 2500	80



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KLP® ROLLCRADLE SYSTEM

Lankhorst Mouldings are specialists in developing and producing storage systems for coils. All products were developed in close co-operation with the international steel industry.

Our KLP® RollCradle System consists of a reinforced plastic rail with notches and blocks (KLP® RollCradles) which can be placed at different distances from each other, depending on the coil diameter.

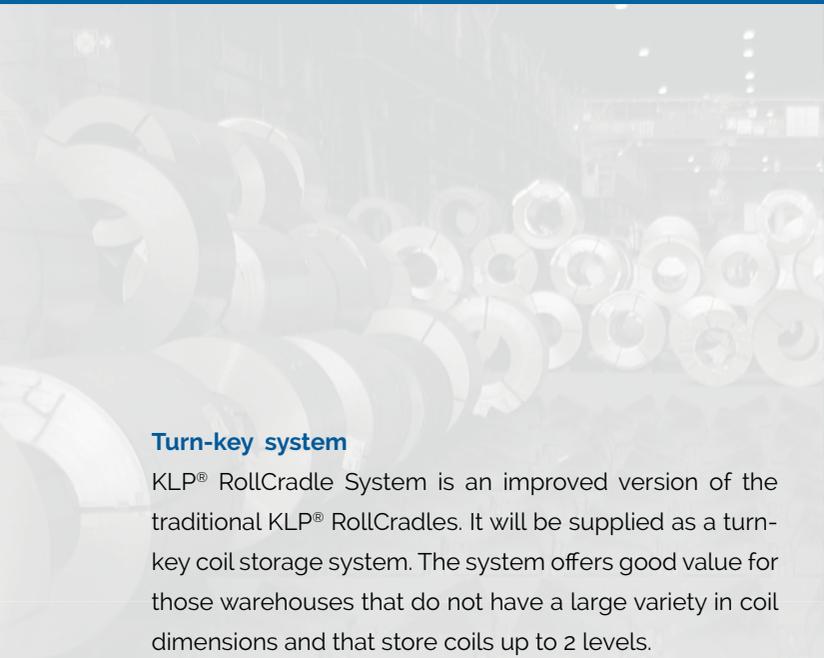


Why use KLP® RollCradle System in your warehouse?

- One stop shop – one supplier for the complete system (turn-key)
- No steel profiles needed
- No special installation equipment needed
- Fast installation
- Improved safety for personnel (TÜV approved)
- Easy two level stacking
- Less damage to your precious coils
- Splinter proof
- Long lifetime
- Enormous load bearing capacity
- Flexible and efficient
- No oil absorption

ROLLCRADLE SYSTEM

For easy storage of your coils



Turn-key system

KLP® RollCradle System is an improved version of the traditional KLP® RollCradles. It will be supplied as a turn-key coil storage system. The system offers good value for those warehouses that do not have a large variety in coil dimensions and that store coils up to 2 levels.

Lankhorst Mouldings have over 35 years of experience in safe coil storage. Our selection of raw materials guarantees an extreme long lifetime. When subject to loading, the KLP® RollCradles flex slightly, yet will return to their original shape immediately afterwards. This will avoid damage to your precious coils.

KLP® RollCradles are also available for use inside (steel) UNP-channels. Please contact us for more details.



Type	Application	Maximum diameter (mm)	Maximum load (tons) using 2 Roll-Cradles
RC 40	Standard	1900	40
RC 80	Standard	2100	80

Our KLP® RollCradle System is also available in 'Weather Resistant' quality.



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KLP® STORAGEBLOCKS & OILTRAYS

Not all coils are stored in multiple levels. Sensitive material may not be stacked due to the risk of damage. Sometimes regular coils are stored temporarily awaiting further processing and slit coils are usually too narrow for stacking.

For these applications Lankhorst Mouldings have developed a wide range of KLP® Storageblocks and KLP® Oiltrays. These are V-shaped floor pads that can easily be installed in any warehouse. Sometimes they are fixed to the floor, but this is not always necessary.

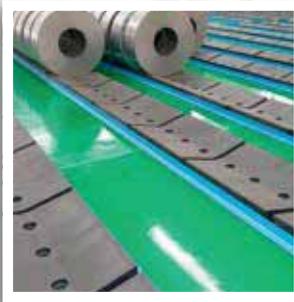
We offer our KLP® Storageblocks in a variety of dimensions (see table). Chock angles up to 15° allow optimal support for (slit) coils. KLP® Oiltrays usually have a groove in the centre of the product. This allows the drainage of oil which may drip from the coil.

For storage of narrow strip we recommend the use of a steel frame around our KLP® Storageblocks or KLP® Oiltrays. More information upon request.



STORAGEBLOCKS

For safe storage of your (slit) coils



Product	Type (cm)	Length (mm)	Width (mm)	Height (mm)	Chock angle (°)	Diameter range (mm)	Maximum load (tons)
Storageblock	74 x 80 x 14	740	800	135	15	500 - 2400	25
Storageblock	100 x 80 x 14	1000	800	135	15	500 - 2400	60
Storageblock HR	100 x 80 x 14	1000	800	135	15	500 - 2400	60
Storageblock	150 x 80 x 14	1500	800	135	15	500 - 2400	60
Storageblock	100 x 60 x 7	1000	600	70	7	500 - 2500	50
Oiltray	165 x 45 x 5	1655	455	55	6	500 - 2500	50
Oiltray*	150 x 45 x 5	1500	455	55	6	500 - 2500	50
Oiltray HR*	150 x 45 x 5	1500	455	55	6	500 - 2500	50
Oiltray*	200 x 45 x 5	2000	455	55	6	500 - 2500	50

* available in three models (Straight, Straight-stopped, Reservoir).

HR = Heat Resistant up to 110°C.





RESEARCH & DEVELOPMENT QUALITY CONTROL PRODUCT SUPPORT

Development and manufacturing of safe coil storage systems is an on-going process that needs strong Research & Development and Quality Control departments. Our engineers use 3D CAD systems and finite element analyses for new developments. During and after manufacturing our quality engineers regularly perform high pressure tests to ensure that all of our products comply with the highest standards.

KLP® Coilstacker software

Most of our storage systems allow two or three level stacking of coils. Safety certificates, issued by German health and safety authority TÜV, ensure safety in the warehouse while using our systems. However, our customers often ask us how their coils, usually with a

variety in diameters, should be stored on our blocks. As such a question cannot always be answered easily we have developed our KLP® Coilstacker software.

KLP® Coilstacker allows a simple yet effective simulation of your Lankhorst coil storage system and your coils. You define the coils (diameter + weight) and the program will show you whether the stacking is safe or not. It will also tell you how many coils may be stored per row, giving you easy insight into your total warehouse capacity.

KLP® Coilstacker software is available **free of charge** for all of our customers!



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LANKHORST MOULDINGS ALL OVER THE WORLD

Our coil storage systems can be found all over the globe. It is our goal to offer our customers the best possible service, world wide. Therefore we have a team of highly qualified (sales) engineers in our office in Sneek, the Netherlands.

Besides the home office we have local representatives and stockholders in many countries like Austria, Spain, UK, Scandinavia, Italy, Turkey, Greece, Poland, USA, Canada, Mexico, Brazil, Egypt, United Arab Emirates, South Africa, India, Russia, China, Japan, Korea, Malaysia, Thailand, Indonesia and Australia.



COIL STORAGE SYSTEMS



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