



LiquA  **Waterplex**
LIQUID TRANSPORT SOLUTIONS

E-FLEX
E-FLEX
WINE

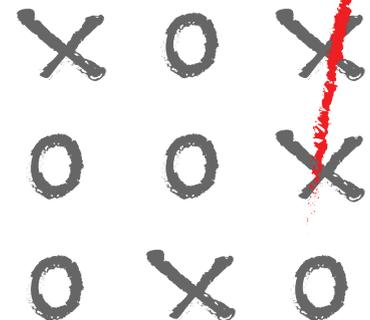
K-FLEX

H-FLEX

I-FLEX

R-FLEX 20 FOOT

THINK
OUTSIDE
THE BOX





JUICE

Companies transporting juice must pay special attention to current safety regulations. All our products are produced in a clean room according to requirements laid out by FSSC 22000. Depending on the cargo, we can use oxygen barriers, air vents, or aseptic solutions. Our flexitanks are also applicable for reefer containers or trucks that require a temperature-controlled journey. *We can help you ship all types of juice, including orange, apple, citrus, grape, aloe vera, berries, plum and more.*



EDIBLE OILS

Edible oils are extracted from vegetables and certain animal tissues. Our flexitanks are already being used all around the world for these types of shipments. Our cutting-edge technology and experience allow us to provide a safer transit for all of your shipments. *We can help you ship oils, including sunflower, olive, linseed, soybean, canola, cotton, nuts, fish and more.*



NON-HAZARDOUS CHEMICALS

Non-hazardous chemicals are something that we have a lot of experience shipping. It's through this experience that we have perfected and improved our flexitank designs for non-hazardous chemicals. We have solutions capable of shipping up to 27,000 Litres per container. We have the largest capacity flexitank in the world and we use cutting edge technology that's designed to improve safety at all levels of the shipping process. *We can help you ship non-hazardous chemicals, including Mono Ethylene Glycol (MEG), Diethylene Glycol (DEG), Linear Alkylbenzene (LAB), latex, Diethyl Phthalate (DOP), lubricants, base oil, furnace oil, biodiesel, glycerin, petrochemicals, oleochemicals and more.*



WATER

Water is an essential liquid that is required in almost every manufacturing process as well as direct human consumption. We have designed and certified a flexitank that can transport your drinking water safely, efficiently and hygienically for affordable packaging. *You can start bottling the water direct from our flexitank.*



SOLIDIFYING EDIBLE OILS

Buyers of such edible oils know all too well how difficult it can be to reheat liquids during the discharge process. Our years of research and development solved the heating/ discharging problem by lowering the heating duration down from weeks to hours. We have solutions ranging from 16,000lt to 27,000lt per container, making our flexitanks the highest capacity in the world. *We can help you ship solidifying edible oils, including palm oil, stearin, olein, coconut oil, fish oil, used cooking oil and more.*



MILK

Shipping milk and other dairy products requires a lot of care. The quality of the cargo has to be secured throughout the whole journey. With our years of experience and technological development, we can offer you the most efficient solution for transporting liquids in reefer containers and trucks. *We can help you ship dairy products, including fresh and extended shelf-life (ESL) milk, milk fat, milk cream, and more. Combining gamma-irradiation with our patented aseptic filling system even allows for the bulk transport of UHT Milk varieties – a world first.*



WINE

Wine is a delicate liquid that requires a certain level of care during shipping. LiquA has years of combined experience working with wine producers and shippers. Our flexitanks provide enhanced protection that prevents oxidation and enables stable transportation that will keep your product safe throughout transit. We have developed the highest capacity flexitank for the wine market. We ship 26,000lt / 26 tons of wine in 20' containers. *We can help you ship all types of wine, including, white wine, red wine, rose, vinegar and more.*



SYRUPS

Syrups contain a large amount of dissolved sugars which can cause issues for certain flexitanks. Our flexitanks are designed to handle viscous syrups with ease. We can help guarantee the safety of your shipments with innovative flexitank equipment designed specifically to handle syrups. *We can help you ship all types of syrups, including glucose, fructose, molasses, corn, and more.*



NON-FOOD PRODUCTS

- ✓ Adhesive
- ✓ Bio ethanol
- ✓ Detergents
- ✓ Diisononyl phthalate - DINP
- ✓ Dioctyl terephthalate - DOTP
- ✓ Emulsions
- ✓ Glycerin
- ✓ Heavy alkyl benzene - HAB
- ✓ Ink
- ✓ Linear alkyl benzene - LAB
- ✓ Lubricants
- ✓ Monoethylene glycol - MEG
- ✓ Paraffin
- ✓ Plasticizer
- ✓ Polyol
- ✓ Shampoo
- ✓ Sugar syrup
- ✓ Syrup concentrate
- ✓ Vegetable oil
- ✓ Base oils
- ✓ Defoamer
- ✓ Diethylene glycol - DEG
- ✓ Dioctyl phthalate - DOP
- ✓ Disinfectants
- ✓ Fatty acid
- ✓ Glycol
- ✓ Hydraulic oil
- ✓ Lanolin
- ✓ Liquid fertilizer
- ✓ Mineral oils
- ✓ Natural latex
- ✓ Pharmaceutical ingredients
- ✓ Polymer emulsions
- ✓ Printing oil
- ✓ Soy sauce
- ✓ Sunflower oil
- ✓ Tung oil
- ✓ Walnut oil

FOOD PRODUCTS

- ✓ Acid oil
- ✓ Castor oil
- ✓ Coconut oil
- ✓ Corn oil
- ✓ Feed supplement
- ✓ Flaxseed oil
- ✓ Fructose
- ✓ Fruit juices
- ✓ Hazelnut oil
- ✓ Milk
- ✓ Molasses
- ✓ Palm oil
- ✓ Rice bran oil
- ✓ Sauces
- ✓ Shea butter
- ✓ Soy oil/Silicate binder
- ✓ Synthetic resins
- ✓ Used cooking oil
- ✓ Water-based paints
- ✓ Wine
- ✓ Animal oils
- ✓ Cocoa oil
- ✓ Colza oil
- ✓ Egg liquid
- ✓ Fish oil
- ✓ Food additives
- ✓ Fruit juice concentrates
- ✓ Glucose
- ✓ Malt extract
- ✓ Mineral water
- ✓ Olive oil
- ✓ Peanut oil
- ✓ Salmon oil
- ✓ Sesame oil
- ✓ Sorbitol
- ✓ Styrene butadiene latex
- ✓ Tall oil
- ✓ Waste oil
- ✓ Water

E-FLEX

Edible oils, wine, juices, non-hazardous chemicals, and for water up to 27,000 L capacity.

H-FLEX

Palm oil, stearin, olein, fish oil, used cooking oil, coconut oil, syrups, glucose, fructose, and liquids with low melting points with a max capacity of 27,000 L.

R-FLEX 20FT

Flexitank for cargo that requires temperature control during transit. This model is compatible with 20ft reefer containers and can be used for juices, milk and more.

K-FLEX

Edible oils, wine, juices, non-hazardous chemicals, and water from 250 L up to 2,000 L capacity.

E-FLEX WINE

Delivering a higher quality wine up to 26,000 L capacity.

DUAL E-FLEX

Ability to load two different types of products in the same flexitank/container.

I-FLEX

Provides a storage solution or large volumes of liquids. Compatible with any liquid that can be transported with an E-Flex.



E-FLEX WINE - What is E-Flex Wine?

E-Flex Wine is LiquA's innovative wine flexitank with unmatched superior features that adds value to the wine industry by delivering a higher quality wine compared to any other bulk shipment alternative.

What are the main features and advantages of E-Flex Wine?

E-Flex Wine has some distinctive features:

Higher capacity: E-Flex Wine can load up to 26,000 litres. That is an 8.3% savings on overall freight cost compared to any other flexitank.

Higher wine quality at destination: E-Flex Wine has positive pressure which allows zero oxygen permeability. E-Flex Wine provides a more stable journey for wine with its patented Nnautilus Technology. A shipment with E-Flex Wine reaches destination with better wine quality compared to a shipment made with another flexitank.

Safety: Thanks to patented Nnautilus Technology E-Flex Wine is a self standing flexitank. It does not exert any pressure to the walls of the container, thus preventing any sidewall bulging or damage to container. Even a freefall will not result in E-Flex Wine damaging a container.

Why don't other flexitanks have the same positive pressure?

Conventional flexitanks get their strength from the container; the weight of the wine is mostly on the container. Such flexitanks exert pressure to the container sidewalls, which at times can cause bulging. E-Flex Wine, is a self standing flexitank by design. Its patented design ensures that the weight of the wine is on itself rather than the container. Therefore the inner pressure is much higher compared to any other flexitank.

What is the global system Oxygen Transmission Rate (OTR) of E-Flex Wine?

It is zero due to positive pressure feature.

Does E-Flex Wine have any oxygen barrier in addition to positive pressure feature?

Yes. E-Flex Wine has a special EVOH barrier developed for this specific flexitank. The OTR of that EVOH is $< 0.4 \text{ cc/m}^2/24\text{hours}$. It is used as an extra measure of caution.

What is Nnautilus Technology?

Conventional flexitanks preserve the liquid inside but can not stop its movement. The movement causes the liquid to generate hydrodynamic forces, which puts stress on the container side walls and doors. Nnautilus technology is an innovative approach that's designed to minimize that movement. Thus it helps reduce the formation of hydrodynamic forces, keeping the cargo safe and stable during transportation.

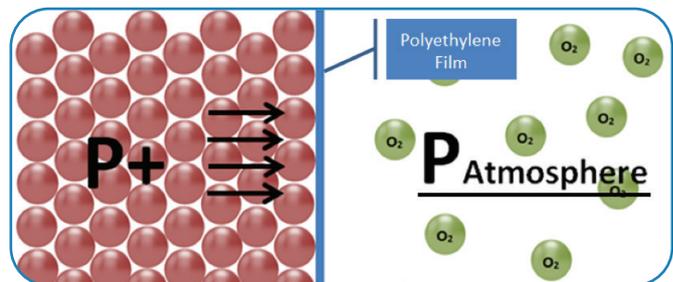
What is positive pressure?

Due to its unique patented design, the inner positive pressure of E-Flex Wine is always greater than the pressure on the surface of E-Flex. That ensures that no oxygen can get in.

Is there any scientific explanation regarding the positive pressure of E-Flex Wine?

Yes. It can be explained by Fick's law of diffusion: "If the pressure of the liquid is greater on one side than the other side of a membrane, liquid will flow from the higher pressure side to the lower pressure side until the pressure of both sides are in equilibrium." Based on the above principal, due to higher than exterior positive inner pressure from the wine throughout the surface, oxygen molecules on the air CANNOT penetrate through the liquid film and CANNOT cause any bacterial activity on the wine at any point. You can see that illustrated above. This is the case, even if there is no special oxygen barrier such as EVOH or Aluminum.

A simpler example to that would be a balloon filled with water. If a pin hole is opened on the surface of a balloon, water will flow out but air will not be able to get in due to the higher inner pressure.



LIQUA FLEXITANK - FAQ

What Are the Main Advantages of LiquA over other Flexitanks?

LiquA tanks are the highest capacity flexitank on the market.

20' STANDARD - 27,000 Litre capacity provides around 12% savings on overall freight costs thanks to the increased payload size. You can load base oils, palm oils, stearin, olein, soybean oil, olive oil, canola oil, vegetable oil, sunflower oil fish oil, used cooking oil and biodiesel making use of our high capacity flexitank.

20' REEFER - 22,000 Litre capacity provides at least 10% savings on overall freight costs. Perishable, temperature sensitive cargos like juice and dairy products are commonly carried.

A common problem with flexitanks is that they put pressure on the sidewalls of containers, causing bulging. After thousands of LiquA shipments, there has not been a single recorded case of container bulging having been caused by the E-Flex or R-Flex flexitank. Both E-Flex and R-Flex support the entire burden of the cargo, allowing any container can be used to transport a LiquA flexitank.

LiquA Flexitanks Have No Rigid Bulkhead.

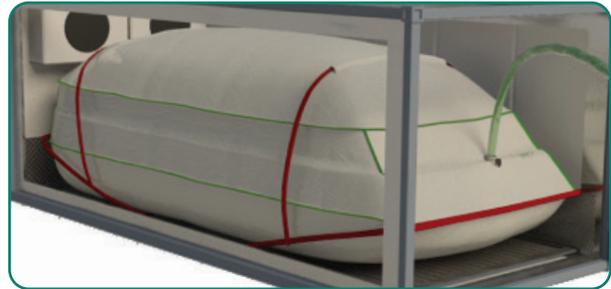
Not only is the LiquA design safe to transport, despite its lack of a rigid bulkhead, its integrated restraint system helps stabilise the liquid contents. Our anti-wave technology allows the E-Flex to control the movement of liquid and avoid accumulation of energy through the harnessing system: in other words, the tank is able to absorb forces that are applied to it during the shipping process and protect its contents.

Do Container Walls Bulge?

What Container Selection Criteria do you use?

One of the main selling points of LiquA flexitanks is that they do not exert any pressure to the side walls of a container. Almost any 20' container is compatible: we don't require any specifications aside from making sure that the container does not have sharp edges facing the flexitank.

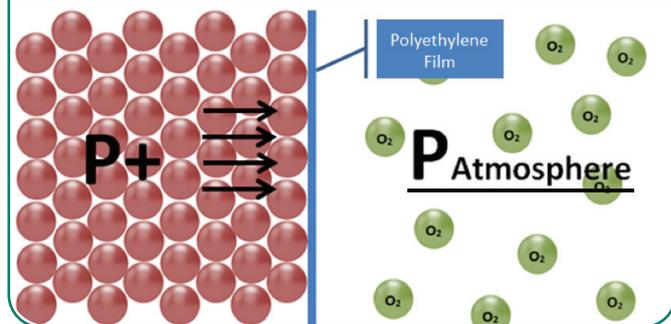
R-FLEX



E-FLEX



E-FLEX WINE



E-FLEX

The E-FLEX is one of our best-selling products, designed to outshine its competition in the shipping process. With a higher capacity, ability to use almost any container, faster fitting process, and guaranteed no bulging feature, E-Flex is the way to go if you're looking for the most cost-effective way to transport high volumes of liquid safely and efficiently.

Can I Transport Two Different Liquids in One Flexitank?

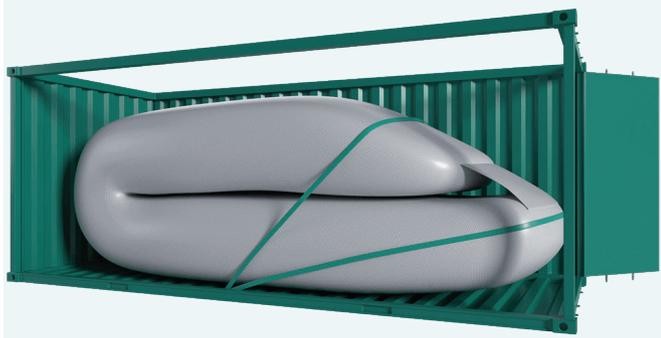
The Dual E-Flex flexitank is built precisely so that you can load two different products in the same tank. For example, we can load red and white wine in the same flexitank.

What Sizes are the E-Flex Available In?

E-Flex comes in 4 different sizes to enable loadings ranging from 12,000 litres to 27,000 litres. 27,000 litre size is the highest capacity on the market.

Where Is the Valve Located, and What Size Is It?

The design of our flexitanks is more advanced and innovative than the rest of the products in the industry. Our valve is considered as bottom load. However as there are no bulkheads it is not static and rises to waist height during loading. Our standard valve is 3" male camlock. An adaptor to reduce it to 2" is available upon request.

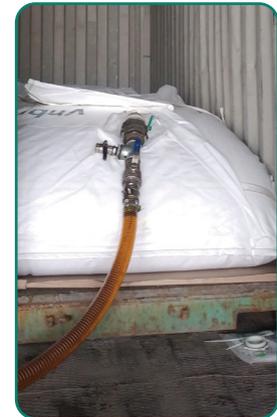


VOLUME	MATERIALS	FILLING / DISCHARGE	REPEAT USE
12,000 to 27,000 Litres	ANY Non-Hazardous liquid	Valve: bottom load. No bulkheads allows Flexitank to go up during loading. Standard valve: 3" male camlock. 2" adaptor : On request.	NO

USAGE / PREPARATION / STORAGE

Ideal for juices, oils, and wines as well as chemicals. Before we approve cargo, we will need to see the MSDS (material safety data sheet) to ensure that the substance is safe to transport.

E-FLEX



E-FLEX WINE

What are the main features and advantages of E-Flex Wine?

E-Flex Wine has some distinctive features that no other flexitank has:

Higher capacity: E-Flex Wine can load up to 26,000 litres. That is an 8.3% savings on overall freight cost compared to any other flexitank.

Higher wine quality at destination: E-Flex Wine has positive pressure which allows zero oxygen permeability. Also E-Flex Wine provides a more stable journey for wine with its patented Nautilus Technology. So a shipment with E-Flex Wine reaches destination with better wine quality compared to a shipment made with another flexitank.

R-FLEX 20ft

Transportation in reefer containers is not a straightforward process. Reefer units tend to be fragile and need to be treated accordingly. The R-Flex is built to accommodate that. It's designed to provide a safe way to transport liquids such as juices and dairy in reefer containers.

What is R-Flex 20ft?

R-Flex 20ft is a flexitank designed for transportation of products that require temperature-controlled environments such as juices or dairy, in 20ft reefer containers.

What Are the Main Advantages of R-Flex 20ft?

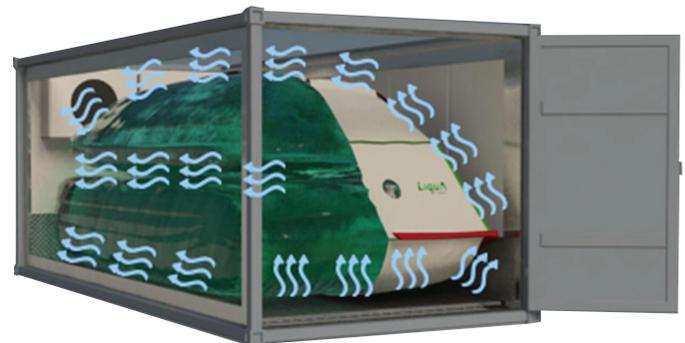
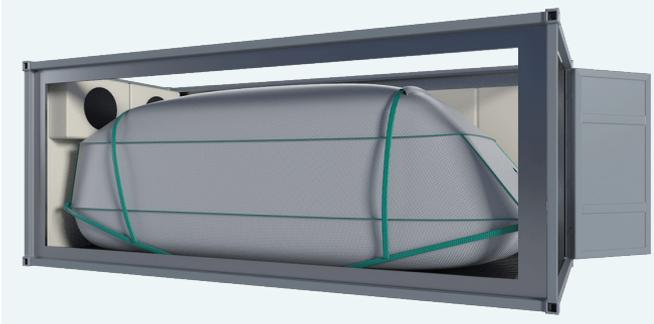
The R-Flex allows you to avoid transportation costs associated with high-cost packaging materials such as bins and drums. With the R-Flex, the loading and discharge operations are much faster and require less labour. The R-Flex is also guaranteed not to damage the reefer container or bulge the sidewalls.

VOLUME	MATERIALS	FILLING / DISCHARGE	REPEAT USE
22,000 Litres	Temperature controlled food: approved raw material	Valve: bottom load. No bulkheads allows Flexitank to go up during loading. Standard valve: 3" male camlock. 2" adaptor : On request	NO

USAGE / PREPARATION / STORAGE

The flexitanks are produced with food approved raw material, so they are ideal for food products such as juices, milk and other dairy products.

R-FLEX 20ft



I-FLEX

What is the I-FLEX?

The I-Flex is a Flexitank built for storage. It can be placed indoors or outdoors depending on your needs. The I-Flex flexitank is built to resist UV rays and is reusable.

What is the capacity of the I-Flex?

The capacity of I-Flex can be from 10,000LT to 70,000LT. We provide custom sizes according to our clients' specific needs.

Can I use it more than one time?

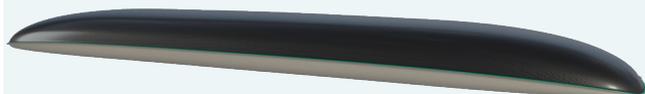
I-Flex is built to be used multiple times with the same product.

Can I just lay I-Flex on the ground?

We recommend using a tarpaulin type of fabric laid under the I-Flex to protect it from possible scrap and debris on the ground.

Is there any restriction in terms of the product to be stored in I-Flex?

The I-Flex can store any non-hazardous products that do not enter into chemical reaction with PE, PP or stainless steel.



I-FLEX



H-FLEX

The H-Flex Steam Liner is an enhanced version of our E-Flex tank that contains an integrated heating system to allow for fast heating of liquids for discharge. With our state-of-the-art heating system, the loading and unloading processes are sped up 20 times compared to any other flexitank.

What Is a Steam Liner?

The steam liner isolates the flexitank from the floor and side walls of the container. Steam directly transmits heat to the cargo from all directions, rather than just bottom of the tank like a conventional heating pad.

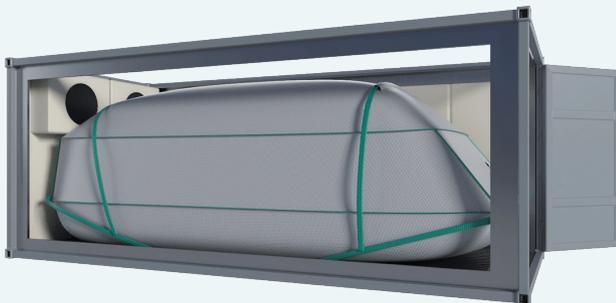
Once the energy in the steam has been transferred, the steam condenses into normal cold water, which can be easily drained and disposed of.

How Does the Heating Process Work?

Steam at 4 bars of pressure and 130 °C is inserted through the inlet of the steam liner. The hot steam starts from the bottom and then circulates all around, permeating the entire surface of the flexitank. This results in an even distribution of heat, which allows for rapid heat transfer to the cargo.

Which Cargo Can I Transport With H-Flex Steam Liner?

H-Flex is specifically designed to work well with cargos which need to be melted down at the destination for discharge. Products such as palm oil, stearin, olein, fatty acids, fish oil, used cooking oil (UCO), fructose and molasses are perfect for transportation with H-Flex.



H-FLEX



K-FLEX

COLLAPSIBLE DRUM IBC

K-FLEX is a low cost alternative for IBCs. It is easy to store as it is collapsed when empty. K-Flex is a good solution both for shipping and storage for much less than an IBC.

What Sizes Are Available for the K-Flex?

K-Flex starts from 220LT and goes up to 2000LT capacity. Based on your requirements we can design a custom K-Flex for you to provide the exact capacity needed.

Can I Use Your K-Flex Instead of a Regular IBC?

The K-Flex has same characteristics as a standard IBC. You can fill it in the top and discharge through the bottom. Compared to the IBC, the K-Flex is a very cost-effective solution. The only restriction on K-Flex is that it cannot be used with hazardous products.

Can I Use It More Than One Time?

The outer fabric of the K-Flex tank is reusable. We provide you with replacement liners, which need to be changed for each new load.

What Material Is K-Flex Made Of?

Outer fabric: polypropylene. Inner liner: polyethylene.

Which Transportation Method Should I Use?

We provide different models of K-Flex which are suitable for 20ft and 40ft containers, as well as for direct transport with trucks.

Does the K-Flex Tank Need to Be Additionally Secured?

No. K-Flex is built to be stable for safe and easy transport. Some models of the K-Flex are even stackable.



VOLUME	MATERIALS	FILLING / DISCHARGE	REPEAT USE
220 to 2000 Litres PLUS Custom Sizes	Transport : ANY Non-Hazardous Products	Top Fill with PE Bonnet. Any non-hazardous products that do not enter into chemical reaction with PE, PP or stainless steel. Bottom Discharge.	YES - The outer fabric is reusable. We provide you with replacement liners to change each Load

USAGE / PREPARATION / STORAGE

- Use almost any type of non-hazardous liquid
- No need to use pallets
- 20 loaded K-Flex units fit into a 20ft (stacked 2 high) or 40ft (no stacking) container.
- Truck capacity: 20 loaded units (no stacking).

DETAILS

- The outer fabric is made of polypropylene and the inner liner is made of polyethylene.
- We provide different models of K-Flex which are suitable for 20ft and 40ft containers, as well as for direct transport with trucks.
- K-Flex is built to be stable for safe and easy transport. Some models of the K-Flex are even stackable.
- You can transport almost any type of non-hazardous liquid.
- There is no need to use pallets with the K-Flex. It is designed to be able to stand on its own. However you can use it if you want to.

I Need to Transport Granular Cargo or Bitumen.

Talk to us about Big Bags, Bitumen Bags and Container Liners.

K-FLEX



THINK
OUTSIDE
THE BOX

