



The virtual beverage truck



The parcel service brings your drinks safely home and pick up the empties to bring them back.
they are on the way anyway

Sustainable for fragile

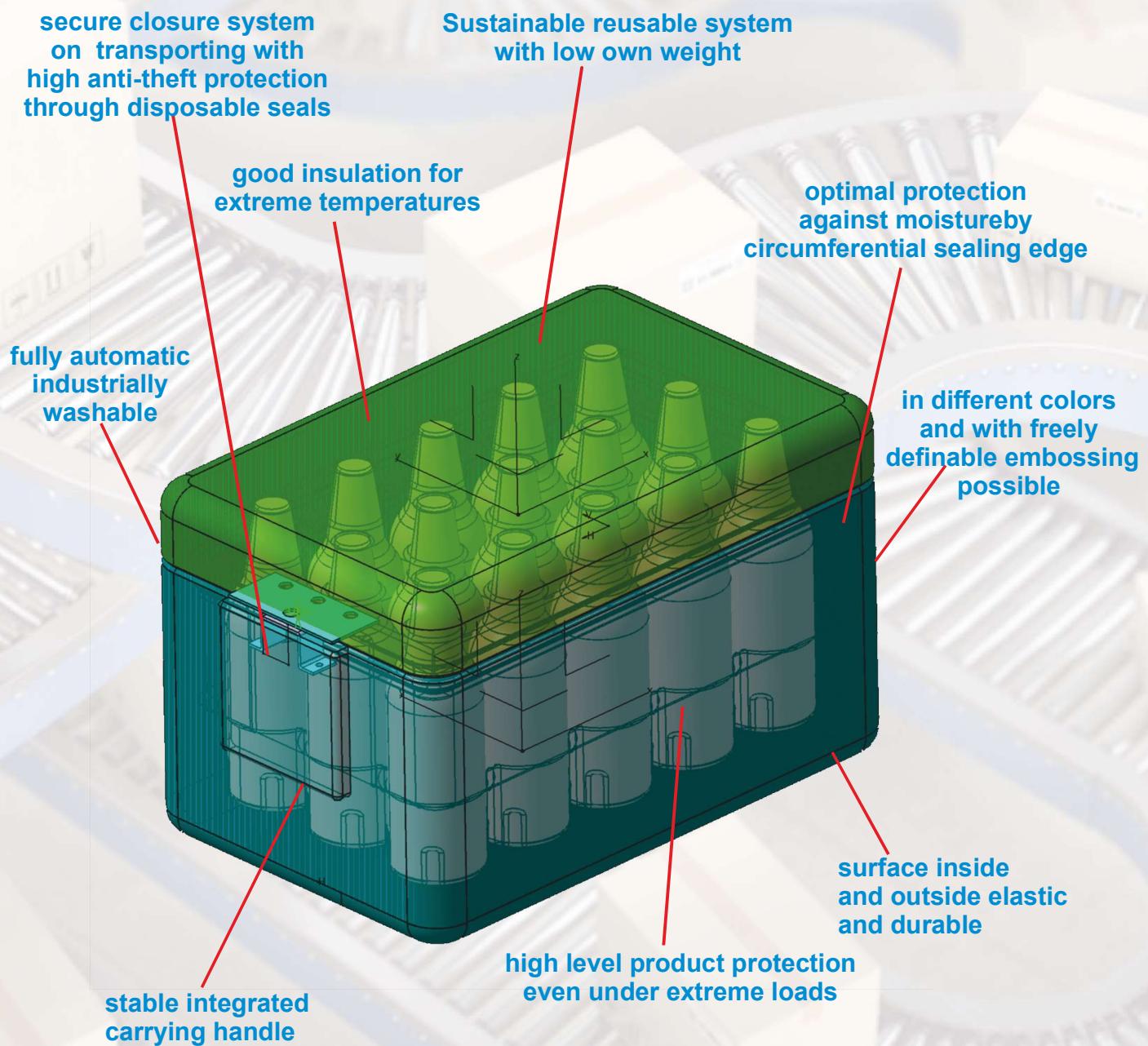


transport system and sensitive goods

SMA-TRA-BOX protects the content and the environment.

The entire **SMA-TRA-BOX** System was manufactured from expanded Polypropylene (EPP).

EPP is not only stable and temperature-resistant, it is created without CFCs in the manufacturing process and it is fully recyclable





Reusable transport box (EPP)



EXCEPTIONALLY ROBUST AND STABLE

About the high material density and strength of EPP, is our Transport box dimensionally stable, shock-absorbing and scratch-resistant. The container is made of one piece with no seams or glued areas and therefore extremely unbreakable and also excellent for heavy weights suitable.



EASY HANDLING

With the low weight and her ergonomic molded, non-slip handles is the box easy and safe to use.

The container is mechanically up to 80 °C and also Easy to clean manually, so is the box particularly quickly ready for theirs next mission.

SEAL AND CLOSE

Neither moisture nor extreme temperatures can affect the content.

Thanks to the all-round, form-fitting connection between the bottom part and the lid, the high Material density nothing gets inside or outside



SECURE CLOSURE WITH SEALS

To prevent unwanted or unauthorized opening of the Box, is the bottom with the lid through Pin seals secured .

The recipient can easily remove them and the new seals will be used for returns.

A Keylock can also be used as an option.

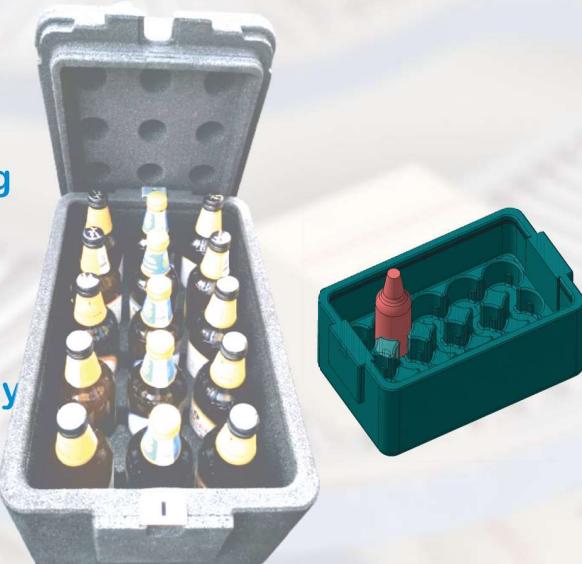


Reusable transport box (EPP)

HIGH PRODUCT PROTECTION

Every single product is through interlocking separators both fixed in the bottom part as well as in the lid.

The foamed, stable and shock-absorbent material protects the Products even against strong external influences optimally



RECYCLABLE

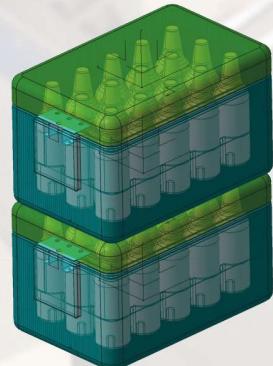
SMA-TRA-BOX protects the contents and the environment, the entire Thermobox range is out expanded polypropylene .

EPP is not only stable and temperature-resistant, but also protects the environment (and that already in the energy-saving production).

EPP is 100% recyclable and free of pollutants.

INSULABLE

very low water absorption closed cell structure EPP bead and hydrophobic surface property of high temperature resistance from -40 to a maximum of +120 °C



STACKABLE

The intelligent stacking system ensures a space-saving and safe transport.

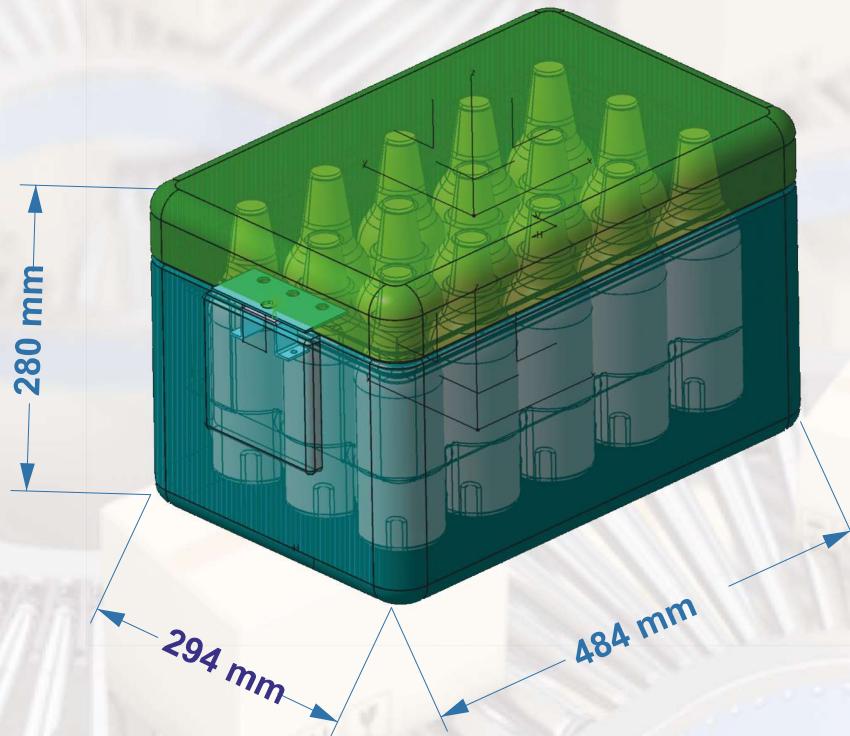
Box bottom and lid are constructed in such a way that they fit together perfectly, this prevents this slipping of the boxes during transport.



Reusable transport box (EPP)

Technical data

dimensions outside



Empty weight: approx. 1.5 kg

Contents:

**15 pieces(3 rows with 5 bottles each)
0.5 l or 0.33 l(Euro) beer bottles
with crown cap or screw cap**

Bottle Sizes:

**An adaptation of the box for other bottle sizes,
Numbers of items or products can be changed
by the Adjustment of the inlay and the height of
the box will be realized.**



EPP what is that, actually ?

EXPANDED POLYPROPYLENE



EPP is a polypropylene foam consisting of expanded, predominantly closed-cell foam particles.

The **EPP**-Pearls are filled with air and are therefore particularly environmentallyfriendly.

They guarantee good joint tightness of the molded parts and ensure excellent insulation and thermal insulation.

EPP is comfortable and clean and is doubly good for the environment. Manufactured without using halogenated hydrocarbons, and without compounds containing lead, cadmium, mercury or chromium.

EPP is free of blowing agents as a raw material.

The ingenious combination of robustness, lightness and at the same timeFlexibility makes **EPP** a popular material in many areas.

Anywhere where impact protection or heat and moisture protection is required, one appreciates expanding polypropylene for its Characteristics.

Impact resistance, resilience and lightness make **EPP** ideal asmaterial for high security and low weight.

smart - transport - box

A high energy absorption capacity combined with a very good resilience In addition to the good chemical properties and temperature durability are the characterizing properties of **EPP**.

The low water absorption due to the closed-cell structure and hydrophobic surface property, easy cleaning,the good thermal insulation capacity as well as its goodEnvironmental compatibility (= free of propellants and other chemicalblowing agents) complete the property profile of **EPP**.



The environmental balance



Particle foam, a sustainable material

Particle foams impress in addition to their excellent specific mechanical properties mainly due to their high eco-efficiency.

Ecologically safe, reusable and durable Molded parts made from particle foam can ultimately be 100% recycled and thus find a new place in the production chain.

The production takes place with steam, the result is pollutant-free flexible foams even after the product has been manufactured.

They contain neither CFC nor heavy metals, are not water dangerous and can be safely used in sensitive areas such as the food industry or in the production of toy.

Due to the very low weight of the material and at the same time very high , energy absorption, these materials are ideal for reusable packaging.

Our transport containers made of particle foam, is a comprehensive packaging protection, makes undamaged arrival of the goods at their destination sure

Through constant optimization of technologies Improvements in the overall environmental balance achieved

Our containers are very well insulated, protecting your product both, against extreme temperatures from outside and also provide a stable temperature inside the box safe.

The box is also waterproof, so it can be easily cleaned with water



environment and costs

Reusable packaging is of course always more expensive than disposable packaging because the send back of the empties cause costs.

The resulting savings in the case of elimination of the disposable packaging will make up a big part of compensate for the return costs.

Substituting the cost of the elaborate disposable corrugated cardboard packaging which, depending on the version,



for glass bottles can cost about 3-6 € against it, will be amortize the system within a few cycles.

Thus, each SMA-TRA-BOX saves a new box with upholstery and therefore depending on the version additionally approx. 250 - 600 g of CO₂ and up to 10 liters of water per use!

**This means
shipping with the SMA-TRA-BOX
gets almost climate neutral.**



Sustainability is reusable

You have
fragile,
temperature sensitive
or highly sensitive products
that you want to bring safely to your customers.

✓ You want the customer can give you
empties or used products safely return .

✓ You want to reduce packaging material
and therefore, save costs
while protecting the environment sustainably relieving.

✓ You want optimize your internal shipping processes
and make them more sustainable

✓ You want reduce costs in your processes
and reduce effort, to
become as much carbon neutral as possible



Then please think about,
to use our SMA-TRA-BOX.



multiway why ?

It is clear to everyone that we have to reduce the amount of packaging, This means using the packaging multiple times to become climate neutral and to relieve our environment. Classic recycling is a nice slogan, but it doesn't work nearly as well as it should.

Is there a packaging deposit now coming ?

Many customers would be willing to return the packaging if they can be used more than once. Online shops are therefore recommended to charge a deposit. According to a survey by Austrian Post, 85 percent are the customer is willing to pay the deposit. After the packaging was returned received the customers get the money back.

Everyone is talking about sustainability. But with our daily consumption packaging is becoming more and more tailored to the needs of manufacturers, of the customer, the retail chains and the logistics.

Especially with bottles made of glass and other sensitive ones products, with a lot of packaging material becomes a high and also expensive effort to protect the product. And after that, a lot of it gets thrown away in the trash. These costs alone can be part of the resulting absorb transport costs of a reusable system.

Of course, reusable does not work in all purchasing processes. But more and more customers are procuring certain everyday items no longer needed at the dealer around the corner and want them no longer carry it home. To save time and effort leave the whole thing deliver to your doorstep, that's why it's becoming more and more important here to switch to new, practical and climate-neutral solutions.



a possible solution

How does the SMA-TRA-BOX solution work?

The Customer:

- receives the goods in the SMA-TRA-BOX by the parcel service
- he checks the tamper-evident seal using the seals
- he opens the seals (are destroyed by opening)
- now the customer can remove the lid
- There are new seals and an address sticker inside the SMA-TRA-BOX for the free return
- now the customer can put the empties in the smartbox or close it empty
- he sticks on the label for the return shipment and inserts the seals
- now the smartbox is securely closed and the contents are protected
- the parcel service can now pick up the SMA-TRA-BOX
- the customer receives the deposit as soon as the SMA-TRA-BOX arrives at the sender back, or the deposit for this will be dissolved

The following options for deposit processing now arise.

the customer can buy the SMA-TRA-BOX at the start, then it becomes his property and get in case of a new order only exchanged from the supplier

the supplier charges a deposit that is refunded after the return, or the customer receives a new delivery with a new SMA-TRA-BOX

the customer has not to pay a deposit for the box.
After the customer do not send back the box after an agreed time, the supplier will charge the SMA-TRA-BOX at the purchase price.
Then the box becomes the property of the customer.



The use of the SMA-TRA-BOX

Where can the SMA-TRA-BOX be used?

in the following sectors and for the following products
SMA-TRA-BOX box can be used

- beverage industry for beer, wine, spirits and juices in fragile glass bottles.
- when transporting fresh food and other temperature-sensitive products
- in the pharmaceutical industry where constant temperatures and high safety are important.
- in the chemical industry, e.g. for high product protection and on hazardous substances.
- electronic devices and other sensitive technical items.



Sustainable, reusable transport system for
fragile and sensitive goods

No more lugging around shopping

More and more customers are ordering their drinks, such as beer and wine, or high-quality ones Groceries directly online and have the goods delivered directly to their home. For this purpose, these are packed with various solutions made of corrugated cardboard. This packaging is usually thrown away after unpacking. During the production of such single-use solutions arise depending on the design approx. 200 to 600 gr Co2 and costs approx. 2-4 € per box.

Sustainability through reusability

Everyone knows that we need to reduce the amount of packaging, that means using the packaging several times to become climate-neutral and to protect our environment. Classic recycling is a nice catchphrase, but it doesn't work as well as it should.

We have the solution **SMA-TRA-BOX**

- consists of climate-neutral EPP- protects your transported goods from external influences
- insulates the contents from temperature changes
- Prevents theft through tamper-evident closure
- withstands all standardized drop tests of the parcel services- is robust and has a stable outer shape for many rounds
- is secured by seals or keylocks
- Low weight for easy handling

An adaptation of the box for other bottle sizes
Numbers of pieces or products can be done simply,
by the Modification of the inlay and the height of
the box will be realized
The outer contour remains unchanged

Dimensions (Bsp. Bottlebox 0,5 Eu:)

outside:	L = 485 mm	inside:	L = 485 mm
	B = 295 mm		B = 295 mm
	H = 280 mm		H = 280 mm

weight: (Bsp. Bottlebox 0,5 Eu:)

ap.1,4 Kg



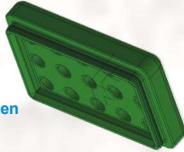
BESONDERS ROBUST UND FORMSTABIL

Dank der hohen Materialdichte und Festigkeit von EPP ist unsere Transportbox formstabil, stoßdämpfend und kratzfest.
Der Behälter ist ohne Naht- oder Klebestellen aus einem Stück gefertigt und damit äußerst bruchsicher und auch für hohe Gewichte hervorragend geeignet.



EINFACHES HANDLING

Mit ihrem geringen Gewicht und den ergonomisch geformten, rutschsicheren Griffen ist die Box einfach und sicher in der Handhabung.
Das Gebinde ist maschinell bis zu 80 °C und auch manuell leicht zu reinigen, damit ist die Box besonders schnell wieder bereit für ihren nächsten Einsatz.



DICHTUNG UND VERSCHLUSS

Weder Feuchtigkeit noch extreme Temperaturen können dem Inhalt etwas anhaben.
Durch die umlaufende, formschlüssige Verbindung zwischen Bodenteil und Deckel und die hohe Materialdichte gelangt nichts nach innen oder außen.



SICHERER VERSCHLUSS DURCH PLOMBEN

Um ein ungewolltes bzw. unauthorizedes Öffnen der Box zu verhindern ist er Boden mit dem Deckel durch Stiftplomben gesichert.
Der Empfänger kann diese leicht entfernen, für den Rückversand werden neue Plombe eingesetzt.
Optional kann auch ein Schloss eingesetzt werden.

HOHER PRODUKTSCHUTZ

Jedes einzelne Produkt wird durch formschlüssige Separatoren sowohl im Bodenteil als auch im Deckel fixiert.
Das geschäumte, stabile und schockabsorbierende Material schützt die Produkte auch bei starken äußeren Einflüssen optimal.



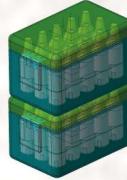
RECYCLEBAR

Box schützt den Inhalt – und die Umwelt:
Das gesamte Thermobox Sortiment ist aus expandiertem Polypropylen (EPP) hergestellt.
EPP ist nicht nur stabil und temperaturbeständig, sondern schont auch die Umwelt (und das schon bei der energiesparenden Herstellung).
EPP ist zu 100% recycelbar und frei von Schadstoffen.



ISOLIERFÄHIG

sehr geringe Wasseraufnahme durch geschlossenzzellige Struktur der EPP-Perle und hydrophobe Oberflächen-eigenschaft hohe Temperaturbeständigkeit von -40 bis maximal +120 °C



STAPELBAR

Das intelligente Stapelsystem gewährleistet einen platzsparenden und sicheren Transport.
Kistenboden und Deckel sind so konstruiert, dass sie sich perfekt ineinanderfügen, dies verhindert ein Verrutschen der Boxen beim Transport.

EPP EXPANDIERTES POLYPROPYLEN was ist das eigentlich ?



EPP ist ein Polypropylen-Schaumstoff bestehend aus expandierten, vorwiegend geschlossenzzelligen Schaumstoffpartikeln.

Die **EPP**-Perlen sind mit Luft gefüllt und daher besonders umwelt-freundlich.

Sie garantieren eine gute Fugendichtheit der Formteile und sorgen für eine hervorragende Isolierung und Wärmedämmung.

EPP ist komfortabel und sauber und tut der Umwelt gleich doppelt gut.
Ohne Verwendung von halogenierten Kohlenwasserstoffen, und ohne blei-, cadmium-, quecksilber- oder chromhaltigen Verbindungen wird **EPP** hergestellt, **EPP** ist als Rohstoff treibmittelfrei.

Die geniale Kombination aus Robustheit, Leichtigkeit und gleichzeitiger Flexibilität macht **EPP** zum beliebten Werkstoff in vielen Bereichen.
Überall wo Stoßschutz oder Wärme- und Feuchtigkeitsschutz erforderlich ist, schätzt man expandierendes Polypropylen für seine Eigenschaften.

Stoßfestigkeit, Widerstandskraft und Leichtigkeit machen **EPP** zum idealen Werkstoff für hohe Sicherheit und geringes Gewicht.

Ein hohes Energieaufnahmevermögen verbunden mit einem sehr guten Rückstellverhalten sind neben der guten Chemikalien- und Temperatur-beständigkeit kennzeichnende Eigenschaften von **EPP**.

Die geringe Wasseraufnahme durch die geschlossenzzellige Struktur und hydrophobe Oberflächeneigenschaft, die leichte Reinigung, das gute Wärmedämmungsvermögen sowie seine gute Umweltverträglichkeit (= frei von Treibgasen und anderen chemischen Treibmitteln) runden das Eigenschaftsprofil von **EPP** ab.

Umwelt und Kosten

Mehrwegverpackungen sind naturgemäß immer teurer als Einwegverpackungen, alleine schon weil der Rückversand des Leerguts Transportkosten verursacht.

Die dabei entstehende Einsparung beim Wegfall der Einwegverpackung wird jedoch einen Großteil der Rücksendekosten ausgleichen.

Setzt man die Kosten für die aufwändige Einwegverpackung aus Wellpappe,



die, je nach Ausführung, bei Glasflaschen ca. 3-6 € kosten kann dagegen, wird sich das System innerhalb weniger Umläufe amortisieren

Somit spart jede smartbox einen neuen Karton mit Polsterung und damit je nach Ausführung zusätzlich ca. 250 - 600 g CO2 und bis zu 10 Liter Wasser pro Nutzung ein!

Damit wird, der Versand mit der sma-tra-box nahezu klimaneutral.



An intelligent system avoids multiple waste

The per capita consumption of paper, cardboard and cardboard is in Germany at approx. 100 kg per year, a large part of this is produced by mail order. As an intelligent reusable box, our **SMA-TRA-BOX** would reduce waste. With a standardized solution, the processes at the parcel services and further optimized in terms of delivery.

SMA-TRA-BOX could be hundreds of millions of packages worldwide and thus the corresponding amounts of CO₂ and the deforestation of a gigantic number of trees per year obsolete.

More and more products that are shipped are fragile or may not be exposed to large temperature fluctuations, all these requirements can be fulfilled by our **SMA-TRA-BOX** in the various versions.

The **SMA-TRA-BOX** is closed with small security seals and is at the same time an originality seal. Optionally, keylocks can also be used.

The advantages of the SMA-TRA-BOX at a glance

- Reusable system with non destructive opening
- stable, safe and shockproof
- insensitive to moisture from inside and outside