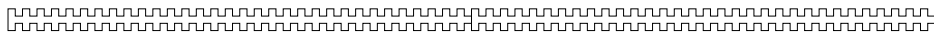
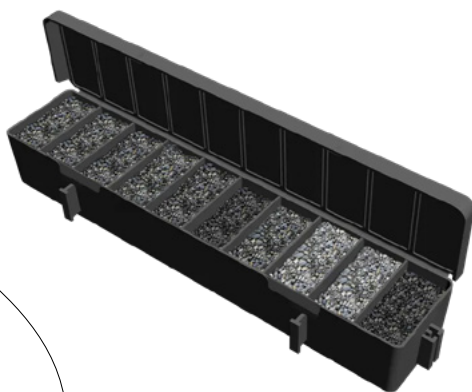


PRODUCT USAGE MANUAL



CHIPCASE MINI

PN 130030



Version: 1.1



CORE CASE®
SUSTAINABLE CORE BOXES

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Your safety and that of third parties are very important.
This manual and its associated product have many relevant safety-related messages.
Attention to these messages:



Standard symbol for safety-related messages. It warns us about situations that may pose risks to your life, injuries to you or third parties.



Risks related to personal or third party accidents, or severe damages, may occur should instructions not be followed right away.



Risk of personal or third party accidents, or severe damages, may occur, should instructions not be followed.

Cases are made in compliance with **ISO 9001 and 14001 quality standards.**

1 - MANUAL CASE USAGE AND TRANSPORT

Maximum care is required when moving and stowing plastic cases loaded with drill cores, so as to avoid injuries to users and damages to products and lithological materials stored. Since cases are lightweight, they may be transported by a single person, but good ergonomics and occupational practices (maximum 23 kg/person) must be followed. In such case, case must be grabbed at the specific location of the product intended for this purpose, at the side of case (B).

Fig. 1



All PPEs required for the activity must be worn, especially gloves and steel-toe boots.



2 - VEHICLE TRANSPORTATION

For transportation by open or even closed bed vehicles, closing cases with the product lid is recommended, so as to avoid material loss during transportation. Example of use with Chip Case (Fig. 2).

In Chip Case Mini, the lid is integrated into the product and does not come off as in Chip Case. This model also comes with the Connecting System, which allows one case to be joined to another when the hole requires more than 10 drill core compartments, so as to make organization, handling and transportation easier (Fig. 3).

Fig. 2



Fig. 3



DANGEROUS

We do not recommend stacking the cases, when they are loaded, to a height much higher than the limit of the dump height of pickups and trucks. This proceeding is important to avoid the risk of falls and subsequent loss of samples/materials, as well as severe accidents with users.

3 - STACKING AND FINAL STOWAGE

For case stacking, capacity recommended under item 13 of this manual must be complied with. By safety convention, most companies recommend that stack is no higher than 1.50 m (approximately 30 cases) (Fig. 4). Floor must be even and smooth where cases are stacked, so that product durability and stack stability is not compromised. Cases must ideally be stored indoors, with little or no influence of sunlight and rainfall (Fig. 5).

Fig. 4



Fig. 5



⚠ WARNING

Due to the thinner profile of Chip Case Mini, using the Connecting System to join units together is recommended, so as to increase stack stability and consistency and to avoid stack tipping over.

4 - CASE LOADING WITH DRILL CORES

For sample placement, cases must be free from other types of material that may contaminate material.

WARNING

For previous case inspection procedure, PPEs must be worn, especially gloves and mask, to avoid risks of venomous animal bite and dust inhalation.



5 - BOREHOLE INFORMATION TO BE RECORDED ON CASES

Chip Case Mini has no fitting for metal tags due to its smaller size compared to Chip Case (Fig. 6). For sample information to be recorded directly on cases, permanent markers or marker pens should be used.

However, not all markers labelled as permanent are actually good quality ones, appropriate to write information on plastic cases. Due to the fact that case surface is smooth, information written with low-quality markers fades out, especially when cases are exposed to sunlight.

Various types of industrial permanent markers and marker pens have been tested for activities with plastic drill core cases, and the conclusion reached is that CORE MARKER, manufactured by Allflex® (Fig. 7), is the most efficient marker due to the use of a distinctive ink and being easier to use than similar brands. Should erasing be needed, chemicals like thinner or solvent must be used.

This marker brand is more expensive than conventional ones, however much longer-lasting when used on smooth surface plastic cases, while regular markers used on wooden cases, though cheaper, are damaged more easily in this type of application.

Red-ink markers are not recommended, they last less. Moreover, core shed work team is recommended to avoid stowing cases in bench portions with long exposition to sunlight.

Marker for Cases: CORE MARKER by Allflex®

The most efficient core marker, ensuring sharper and longer-lasting visibility.

FIG. 6



FIG. 7



6 - CASE CLEAN-UP AND CHEMICALS

Plastic cases are resistant to core cleaning products (grease detergents, etc.) usually applied during drilling activities, and even to hydrochloric acid (HCl) commonly used by geologists during drill core description. However, care must be taken when using such substances regarding texts written on cases, for they may be wiped out or become hard to read.

7 - DURABILITY VS. USAGE

Plastic case durability is directly associated to transport and stowing process. For longer product durability, cases are recommended to be stacked on even floor, with stacks of 30 cases maximum, on racks with shelves designed for this purpose. In such case, product service life is undetermined. For vehicle transport activities (trucks, pickup trucks, etc.), cases must be duly stabilized to avoid excessive vibration, specially when loaded with drilling samples. Ropes, tapes and straps must be used with appropriate pressure not to smash/dent and/or break cases.

Even if products have ultraviolet (UV) protection stabilizers, exposing plastic cases and accessories to weather (sunlight and rainfall) for a long period of time is not recommended.



8 - POTENTIAL ISSUES, CAUSES AND SOLUTIONS

ISSUE	CAUSE	SOLUTIONS
Case is brittle.	- Product has been exposed to weather (sunlight, rainfall, etc.) for too long; - Product is being subject to extremely low temperature ($< 50^{\circ}\text{C}$) for a long period of time.	- Store product indoors, in a well ventilated area.
Case is too flexible.	- Product is being subject to extremely high temperatures ($> 50^{\circ}\text{C}$) for a long period of time.	- Store product indoors, in a well ventilated area.
Case looks rough and easily scratchable.	- Product has been exposed to weather (sunlight, rainfall, etc.) for too long.	- Store product indoors, in a well ventilated area.
Case stack is rather unstable and steep.	- Floor is uneven and/or has irregular profile, jeopardizing correct product stacking.	- Stack product on even and smooth floor so that product durability and stack stability is not compromised.
Stack base case is breaking.	- Floor is uneven and/or has irregular profile, jeopardizing correct product stacking; - Excessive weight of material stored in stacked cases; - Excessive number of cases in stack.	- Stack product on even and smooth floor so that product durability and stack stability is not compromised; - Material load in cases must comply with capacity recommended under item 15 of this manual; - Case stacking must comply with capacity recommended under item 15 of this manual.
Case shows some localized breaks at base and product corners.	Inappropriate use or care by users during stack handling, assembly and dismantling and/or transport.	- Avoid dragging product when there are elements obstructing appropriate sliding of one case over the other, e.g. rock/core edges and parts, poorly placed core shocks, etc.
Side case fitting system for stacking stabilization broken.	- Forced sideways case removal when side case fitting system is locked.	- Appropriately unfit stacks by removing one case at a time from stack top.

9 - ENVIRONMENTAL MATTERS

Packaging

Core Case seeks to use as little packaging as practical. All is designed so that, when used, packaging is easily separated and, whenever practical, made of recyclable materials. Packaging (plastic wrap, plastic strap, and cardboard box) must be disposed of consciously, preferably to recyclers or appropriate recycling containers.

Product

This product has been made with 100% recycled raw material (polypropylene-PP). It can be recycled once more and/or reused for other activities. Thus, when disposing of this product and its associated accessories, preferably send it to plastic recycling companies.

Disposal

When disposing of this product, at the end of its service life, we recommend local existing legislation in force is complied with, aiming at best possible disposal.

10 - CONTACT CORE CASE

Should there be any questions or issues with the product and its accessories, contact Core Case Customer Service. When calling, have complete product data and information at hand.

Visit www.corecase.com to access updated information about our customer service.

11 - WARRANTY

Your Core Case product is warranted against manufacturing defects for 12 months from Invoice issuance date, including:

- 3 months - legal warranty;
- 9 remaining months - special warranty, granted by Core Case.

Warranty includes free replacement of products with proven manufacturing defects. Only Core Case professional team, or whoever appointed by Core Case, will be responsible for troubleshooting and product replacement. During warranty period, should defects identified be manufacturing defects, manufacturer holds itself obliged to replace products and/or provide free assistance to your product from the date Customer Service is contacted.

Legal and/or special warranty is automatically invalid should:

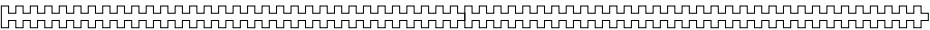
- Product is not exclusively used for rotating diamond drill core transportation and storage (Generation I, Generation II, Adapt, and Petro Case products), laboratory sample slurry (Generation I, Generation II, and Petro Case products), side, channel and plug samples (Petro Case line cases), and reverse circulation drilling chip samples (Chip Case line cases);
- Improper use, bad conservation, carelessness, aesthetical and/or functional changes occur;
- Signs of product violation and/or tampering be identified.

Legal and/or special warranty does not cover:

- Damages to product arising from excessive load, as well as animal action (insects, rodents or other animals), or objects inside the product, foreign to product purpose of use;
- Products or accessories that have been damaged due to falls brought about by the customer itself or third parties. Upon delivery, check for accurate Invoice information related to your purchase. Should you identify any conflicting item, do not accept delivery, pointing out the reason for refusal on the back of the Invoice, and contact the person responsible for sale or delivery;
- Products with insignificant aesthetic defects (scratch, dent, or stain) that do not keep product from being appropriately used for intended purpose;
- Drying or warping issues with proven cause due to the following factors:
 - Storage at location unprotected from weather;
 - Storage on uneven and irregular floor;
 - Storage at location close to intense heat source;
 - Exposure and/or contact with corrosive substances;
 - Application of inappropriate chemicals for cleaning, including use of dirty/rough materials or tools.

Special warranty does not cover:

- Products with defects that do not affect product functionality, such as dented, scratched, cracked, stained parts, etc.;



- Travel for service calls to products located outside Core Case headquarters municipality, for which Core Case may charge technician travel fee, previously approved by the customer, according to mileage table provided by Core Case;
- Parts subject to natural wear under normal use.

General considerations:

Core Case does not authorize any person or entity to assume, on its behalf, any other liability related to warranty of its products beyond those set forth herein.

Core Case reserves the right to change general, technical and aesthetic characteristics of its products without prior notice. This Warranty Term is valid for products sold and installed in Brazilian territory. For your peace of mind, keep the Consumer Manual with this Warranty Term and product purchase Invoice in a safe and easily accessible place.

ATTENTION: to enjoy warranty, preserve and keep in your possession the product purchase Invoice and Warranty Term. These documents must be presented to Core Case professional when Customer Service is contacted.

PRODUCT USAGE MANUAL

CHIPCASE
MINI

Raw material: 100% recycled Polypropylene (PP).

CO₂ reduction: Use of 100% recycled plastic reduces emissions by up to 4 times compared to virgin plastic and by 3 times compared to wooden boxes.

Standard color: Gray, with possible slight variations due to use of recycled raw material.

Post-use recycling possibility: Can be recycled and reprocessed after use.

Certification: Produced in a process aligned with quality management and environmental management standards certified by ISO 9001 and ISO 14001.

Production process: Plastic injection. Chemically inert material, poses no risk of contamination or chemical reactions in samples.

Chemical resistance: Resistant to industrial detergents and hydrochloric acid (HCl).

Legal protection: Core Case innovations are protected by patent and industrial design registrations.

Service life: Tests carried out on cases with samples stored for over 10 years have shown high durability, with structural integrity and functionality maintained, even under non-ideal storage conditions. Under ideal storage conditions (even, indoor area protected from weather), durability expectancy is over 20 years.

Raw material: 100% recycled Polypropylene (PP)

Post-use recycling possibility: minimum 5 times

Manufactured by plastic injection process

Chemically inert material, poses no risk of contamination or chemical reactions in samples.

TECHNICAL DATA:

Maximum load: 20 kg / 44.09 lbs (per case).

Maximum stacking: 600 kg / 1322.77 lbs.

Length: 300 mm / 11.8".

Width: 68 mm / 2.6".

Height: 45 mm / 1.7".

Compartments: 53 mm/2" x 27 mm/1" x 40 mm/1.5".

Weight: 0.14 kg / 0.30 lbs.



Core Case product innovations are protected by patents and industrial design registration in Brazil and abroad.



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