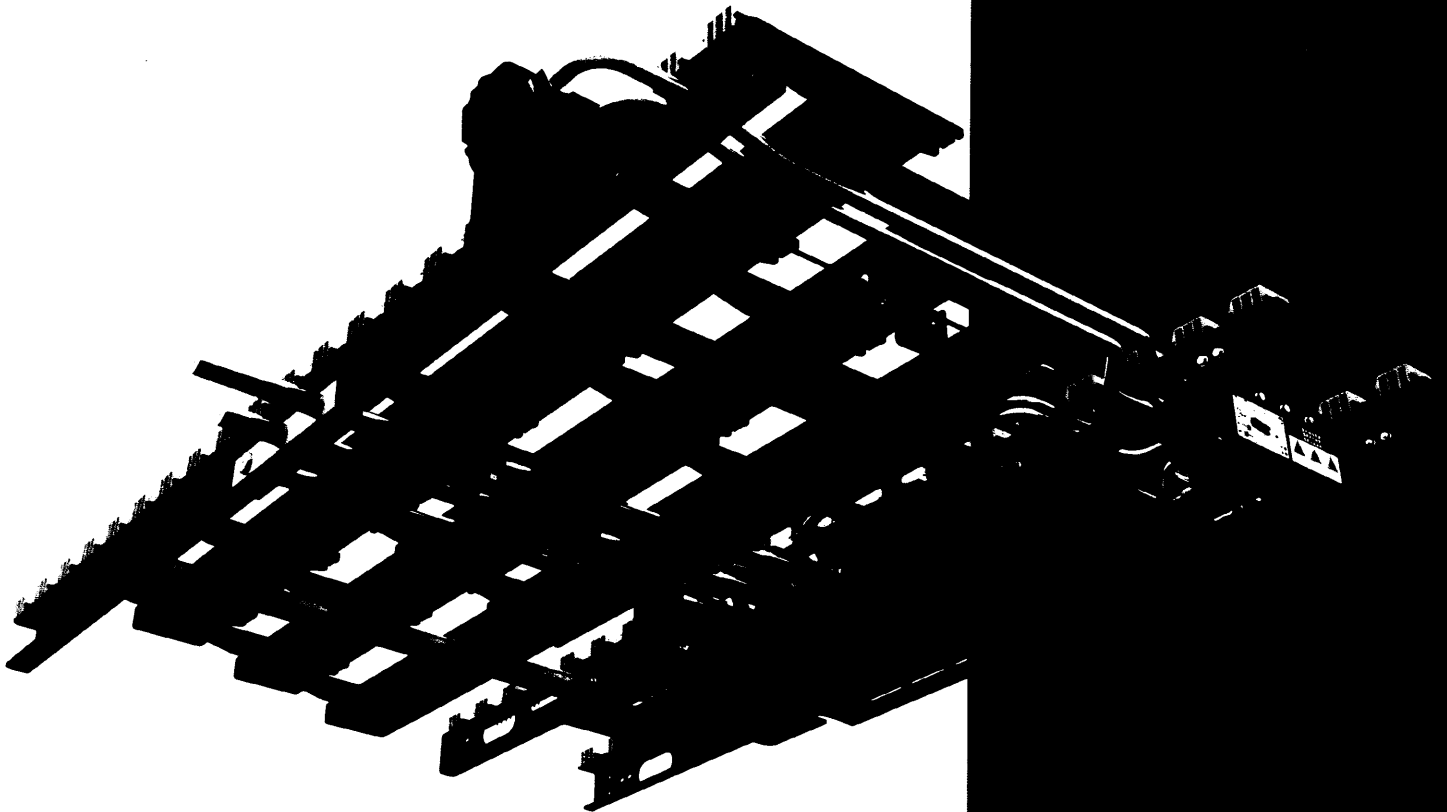


THE ORIGINAL LIVE FLOOR[®]

NEXUSTM
powered by **HALLCO**TM

HORIZONTAL
LOADING - UNLOADING
MOBILE SYSTEMS



ingenuity - innovation - excellence



The Original LIVE FLOOR®

Hallco, inventors of the reciprocating conveyor system, filing the first ever patent to sequence a group of at least three elongated slats arranged side by side to form a conveyor type truck bed.

Since this first development Hallco has continued to innovate in their field of expertise.

Oct. 20, 1970 O. A. HALLSTROM, JR 3,534,875
 RECIPROCATING CONVEYOR
 Filed Nov. 18, 1968 3 Sheets-Sheet 1

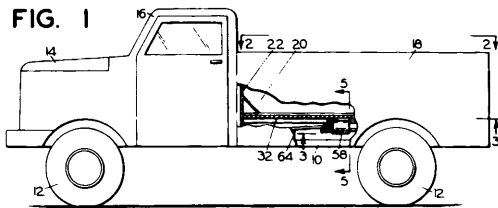


FIG. 2

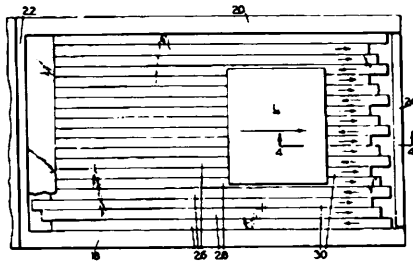
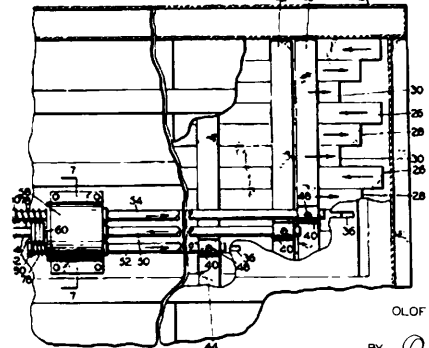


FIG. 3



OLOF A. HALLSTROM, JR
 INVENTOR
 BY *Olof A. Hallstrom, Jr.*
 AGENT

Oct. 20, 1970 O. A. HALLSTROM, JR 3,534,875
 RECIPROCATING CONVEYOR
 Filed Nov. 18, 1968 3 Sheets-Sheet 2

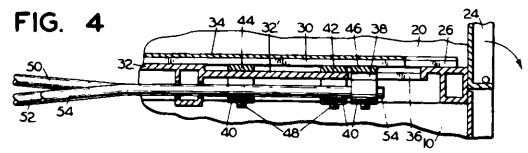


FIG. 5

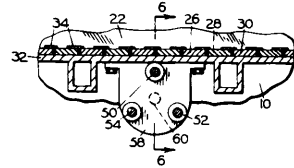


FIG. 6

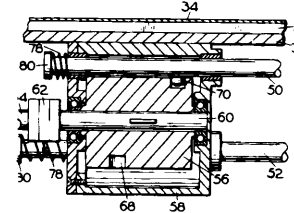
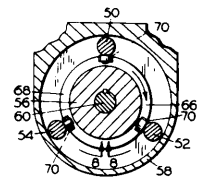


FIG. 7



OLOF A. HALLSTROM, JR
 INVENTOR
 BY *Olof A. Hallstrom, Jr.*
 AGENT

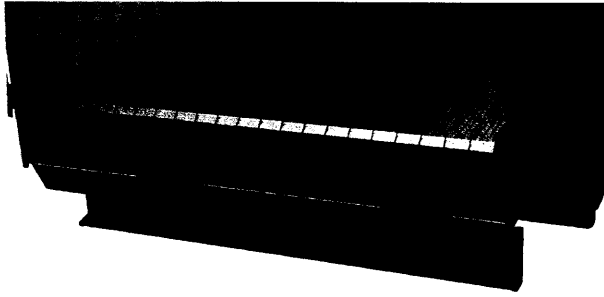
Hallco is the largest global LIVE FLOOR® manufacturer spread over 4 continents with 5 operating companies, 7 operational locations and 2 manufacturing facilities.

Identifying operational challenges with our customers, and wanting to be more efficient and productive. Our DNA is to think, visualise and believe differently to create solutions that improve and optimise uptime, weight, reduced operating costs, improved operational performance and smarter user experience for our customers.

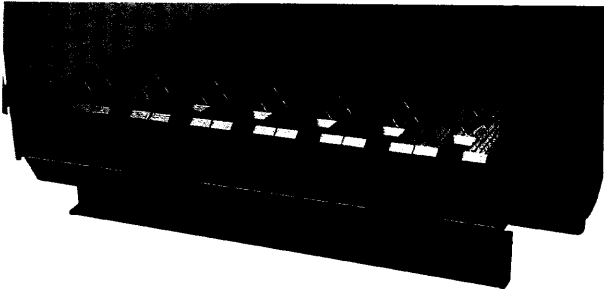
We use our heritage and DNA to transfer & move bulk smarter.

50+ Years of Ingenuity.

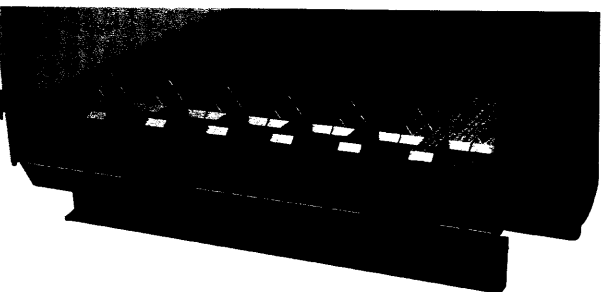
HALLCO LIVE FLOOR® movement



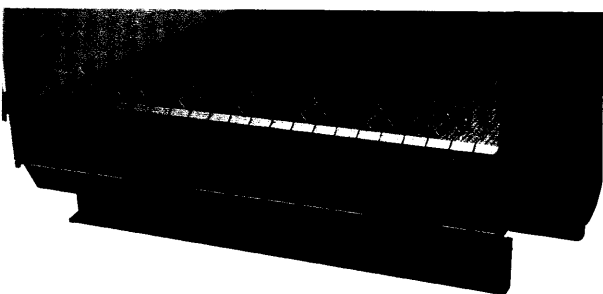
Floor Profiles
set to start
Load or Unload



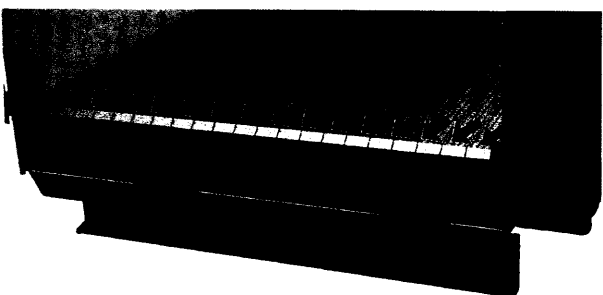
Group 1. (1/3)
Floor Profiles
Retract



Group 2. (2/3)
Floor Profiles
Retract



Group 3. (3/3)
Floor Profiles
Retract



Group 1+2+3
Floor Profiles
push out to
UNLOAD

LOAD

HALLCO LIVE FLOOR® is a reciprocating conveyor system, operating horizontally to load and unload; ideal for bulk materials loaded from the top into a vehicle body or stationary bin.

Palletised or packed goods can load and unload through the rear opening.

UNLOAD

LIVE FLOOR® is not dependant on flat level grounds and can be used to load and unload on many types of terrain.

Because it is horizontally loaded and unloaded there are no overhead issues to be concerned with in mobile operations, often a concern with bulk tipping vehicles.

REPEAT

Action reversed to LOAD



NEXUS Drive Unit



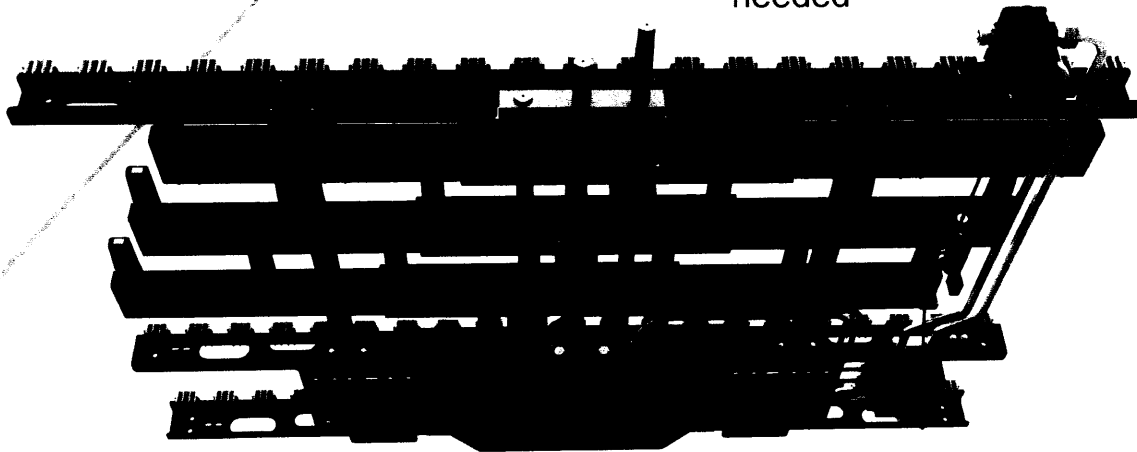
Hydraulic cylinder shafts High-Strength special steel-alloy, double chromated

- lighter
- stronger

HALLCO P-coat

Strong surface protection coating for steel & aluminium

- no additional coating after installation needed



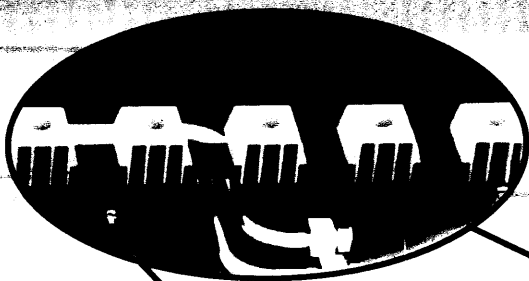
Common cylinder head & base manifolds

- simplified construction
- high flow
- easier maintenance

Steel tubing passivated with smooth radius bends

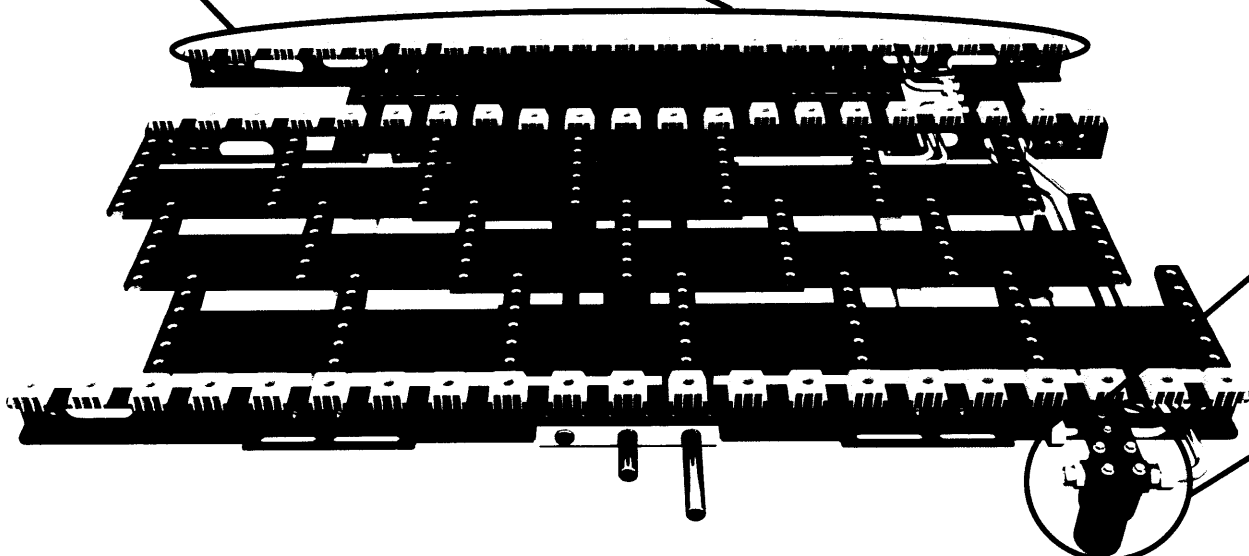
- less fluid turbulence
- reduced heat

NEXUS



Bearings 3rd row (*optional*)

- increased floor support over drive frame
- 1 less trailer crossmember
- forklift compatible



HALLCO hydraulics 50 year knowledge & experience of design, development and manufacture IN-HOUSE

- proven
- reliable
- trusted

HDS - Control Valve conveniently positioned

- easy side access
- safety - non operating with incorrect system connection/coupling
- increased flow

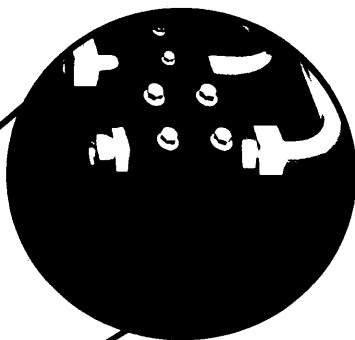
OPERATIONAL functions

- HDS-*Electric*
- HDS-*Hybrid*
- HDS-*Manual*

NEXUS™ Technical data
powered by **HALLCO**

365 kg	Weight (from)
E/H/M	Operating functions - HDS
100 mm	Cylinder bore
200 mm	Stroke
225 bar	Max. operating pressure
120 ltr	Max. operating flow
40T	Max. load capacity
5 min	Unload time 13.6 mtr <i>theoretical</i>
82 °C	Max. oil temperature

NEXUS



Pressure filter standard fit

- system protection
- vertical for easier maintenance access
- easy hydraulic connection

Further technical details available

HDS - Control Valve

Simple retrofit between
Electric, Hybrid or Manual
function

Modular components provide LIVE FLOOR®
multi-functional options

ELECTRIC

Touch Panel user operation

- start / stop
- load & unload
-  (option)

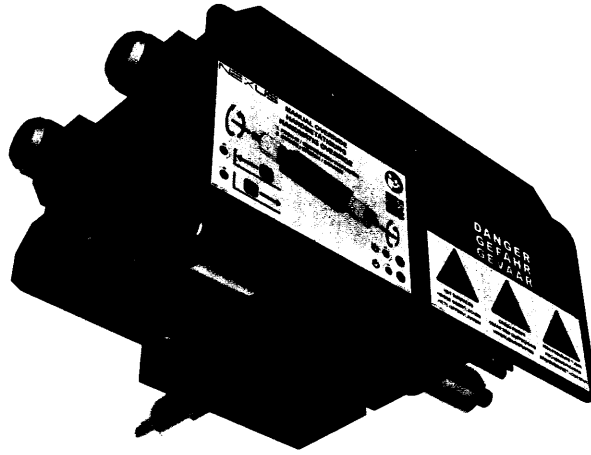
Manual override capability

- manual load & unload

Remote control options

- wired
- wireless

HDS-E



HYBRID

Touch Panel user operation

- start / stop
-  (option)

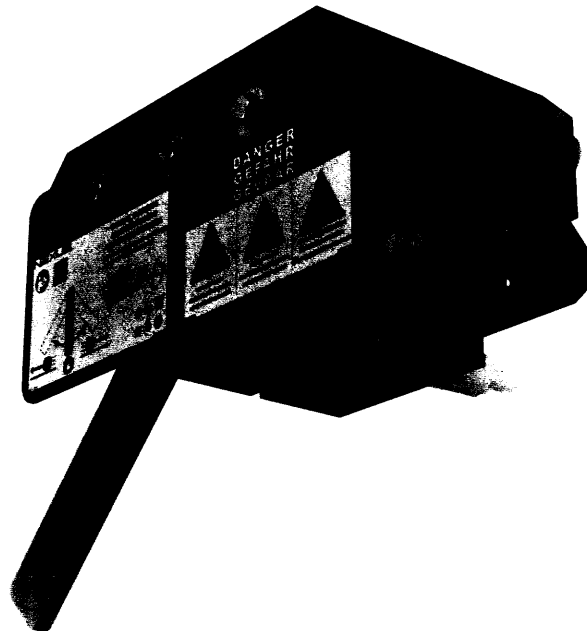
Manual override capability

- manual load & unload

Remote control options

- wired
- wireless

HDS-H

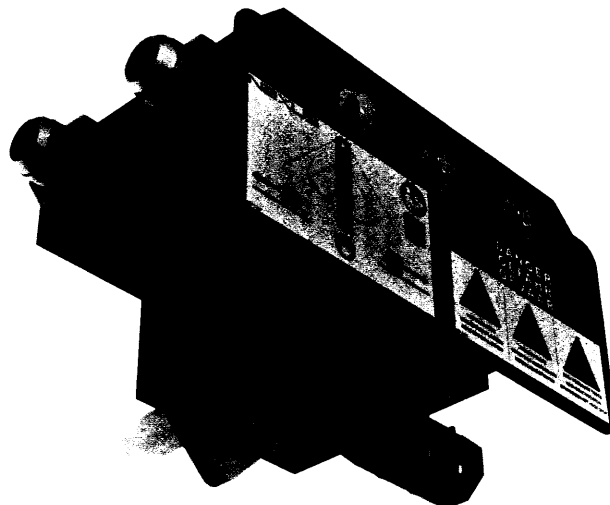


MANUAL

Operation user logic

- handle directional operation logic
 - push rearwards to unload
 - push forwards to load
 - push centre to stop

HDS-M



HALLCO Base Controller



Surface Mount Control

- direct access to function buttons
- easy system operation

User Operation Buttons

- visual identification
- safe knowledge of active operation
- synchronised

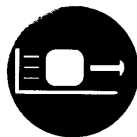
E-Stop Surface Mounted

- safety always accessible



STOP button

Lights up when system in stopped state



UNLOAD button

Lights when pressed
Other buttons go dark



LOAD button

Lights when pressed
Other buttons go dark



ACCELERATOR UNLOAD

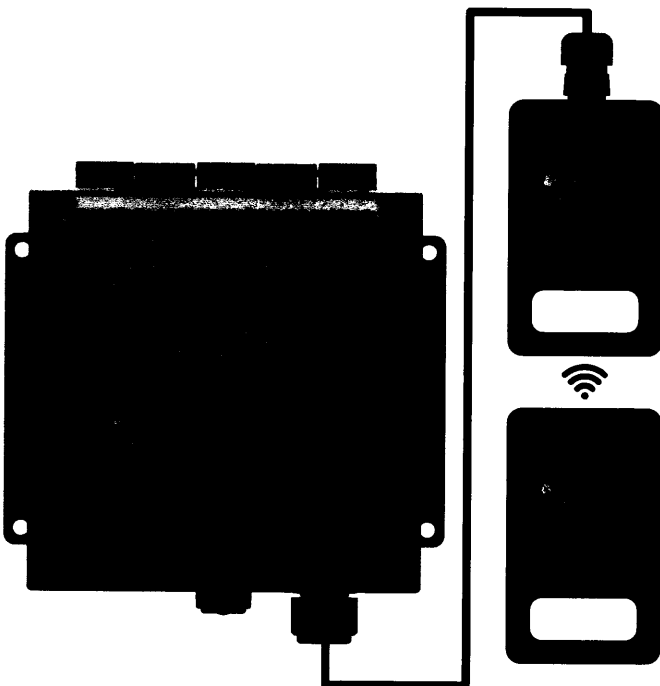
Lights when pressed
Other buttons go dark

Clear User Interface

- coloured function buttons
- infographic function

Great User Experience

- operate from one controller pick up directly from the other
 - base control
 - wired remote
 - wireless remote



Remote

- wired
- wireless

Simple Retrofit

- add either controller

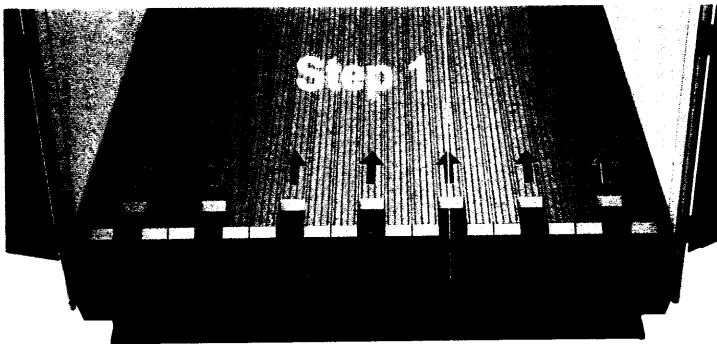
Storage Box

- secure storage for remote controllers

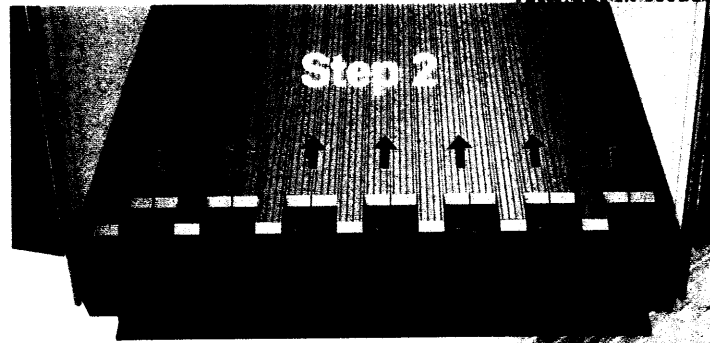


Some loads only need the force of a 2-step cycle, ACCELERATOR switches your floor from a standard 3-step operation to a 2-step all within the same system.

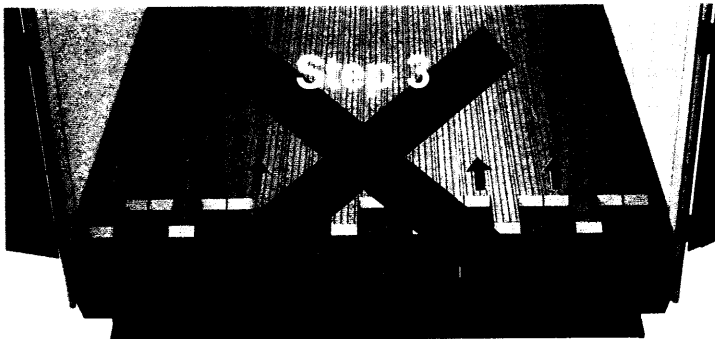
ACCELERATOR unload allows you to choose at the touch of a button.



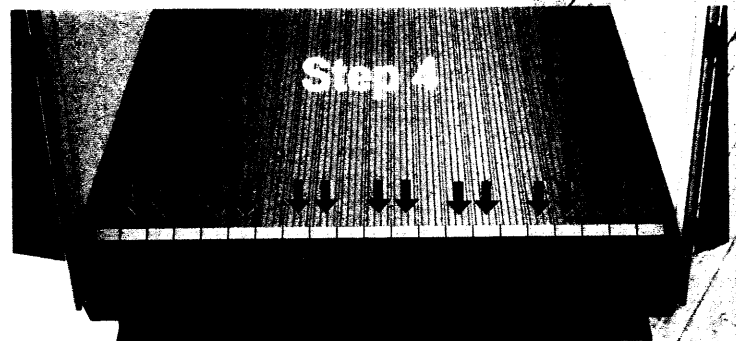
Step 1. (1/3)
Floor Profiles
Retract



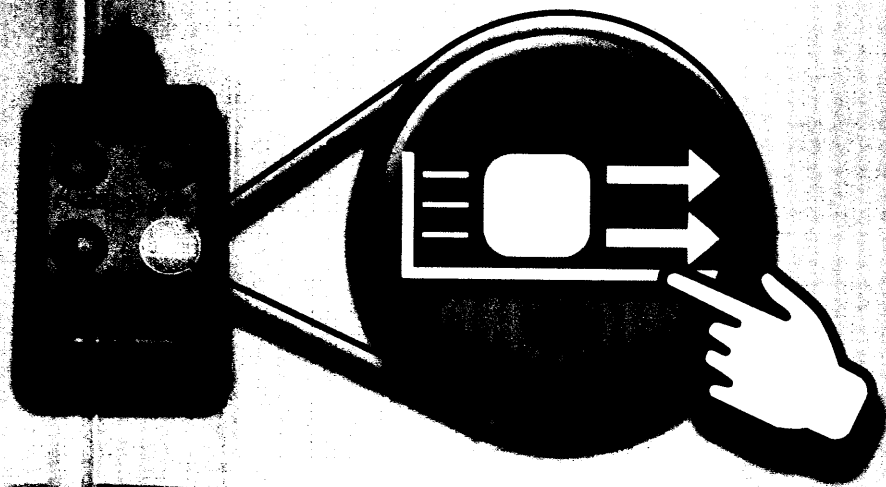
Step 2. (2/3)
Floor Profiles
Retract



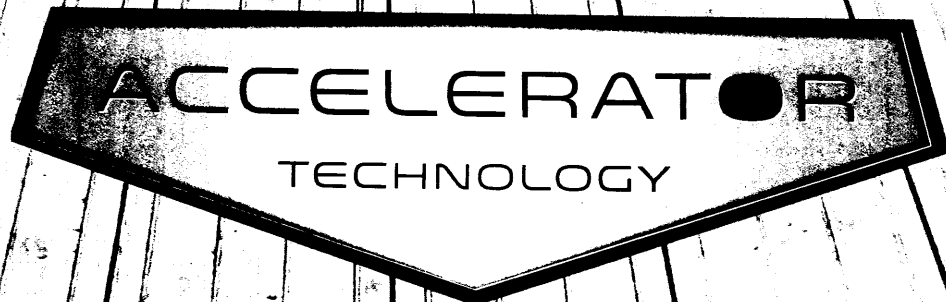
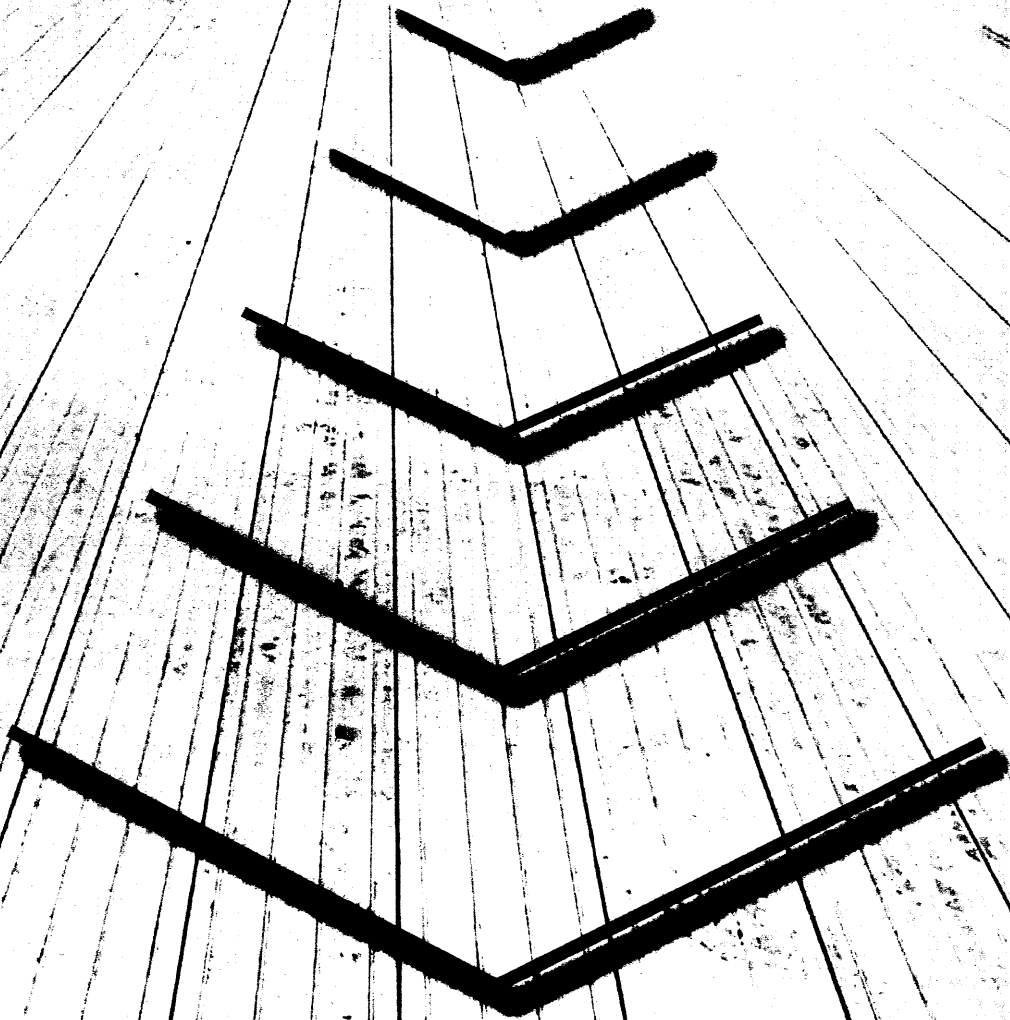
ACCELERATOR engaged
Step 3. (3/3)
Floor profiles
DO NOT retract



Step 1+2 (2/3)
Floor Profiles
push out
30% faster UNLOAD



30% faster unload* with



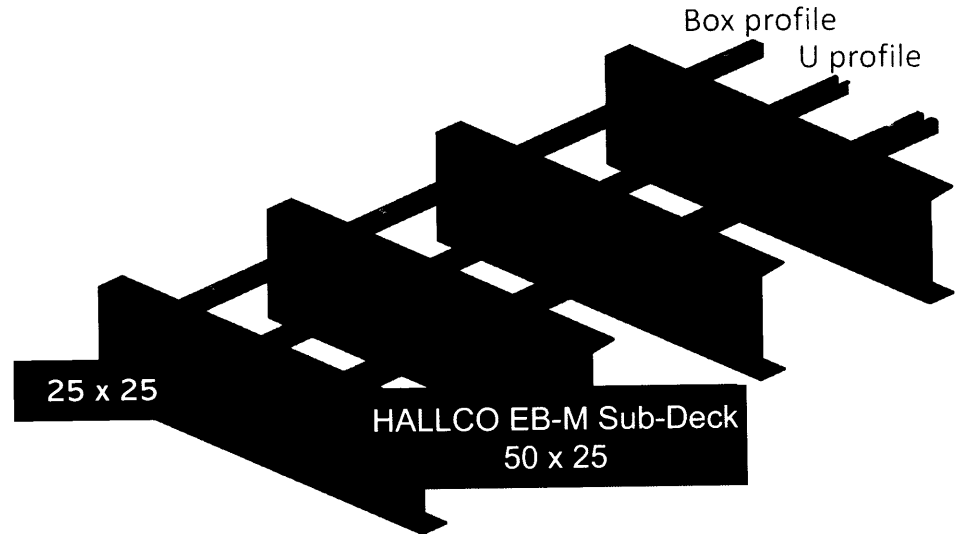
*** 2-Step functions best with larger sized material, especially when they interlock together**

Strong & Stable Base

Wider and stronger

- 100% wider sub-deck
- greater bearing & floor support at 50 mm wide
- 4 vertical supporting legs
- increased support between crossmembers
- may allow wider crossmember spacing - resulting in reduced trailer weight
- 25% stronger in vertical direction
- 200% increased resistance against twist, this can help reduce the twist of the trailer chassis

EB-M Sub-Deck



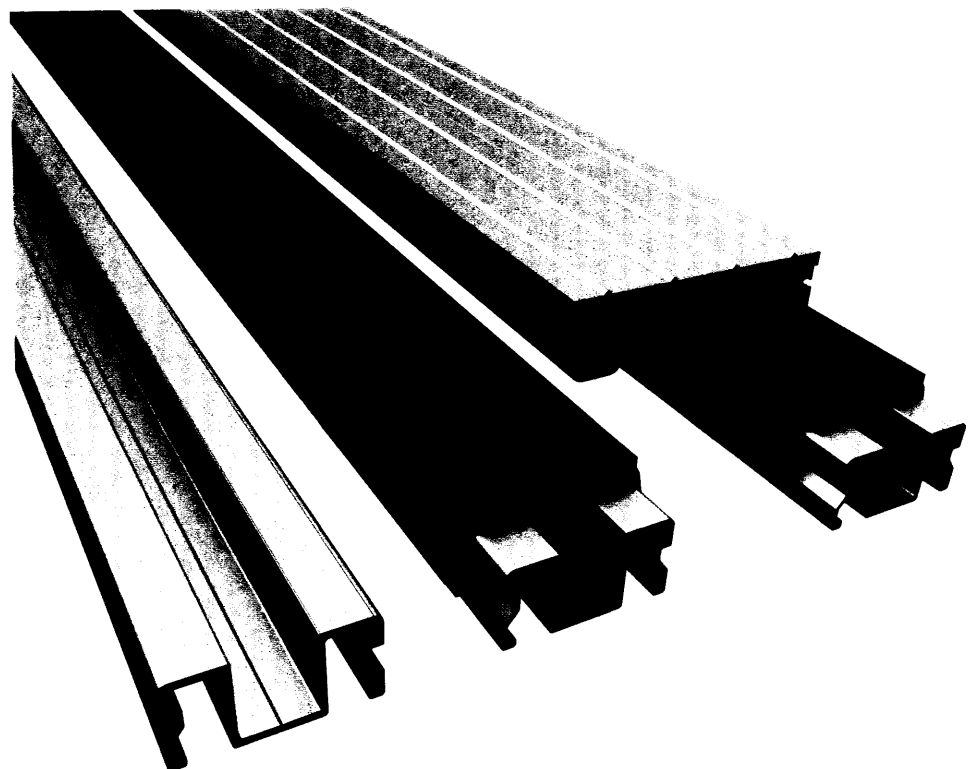
Universal bearing install

- Easy Bearing
- FlicOn individual bearing

Continuous bearing length of sub-deck

- supports the floor the full length of sub-deck
- over 50 mm wide for increased floor support
- reduces floor lift/twist
- easy install 42 bearings on a 21 floor profile system as opposed 800+ individual bearings

Easy Bearing



Longer life, smoother operation

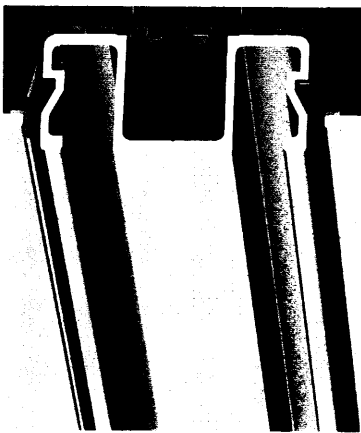
EB-M Sub-Deck & Easy Bearing

Easy Bearing - continuous length of trailer sub-deck



EB-M Sub-Deck & Easy Bearing

Individual bearings & Tube



Easy Bearing

Enclosed full length of subdeck

Bearing seals underside of floor

No road wash spray & grit entry



Individual Bearing

Open between chassis sub frame

Maximum entry point for road wash spray & grit

Premature bearing & under floor surface wear

Maximum protection from above and below

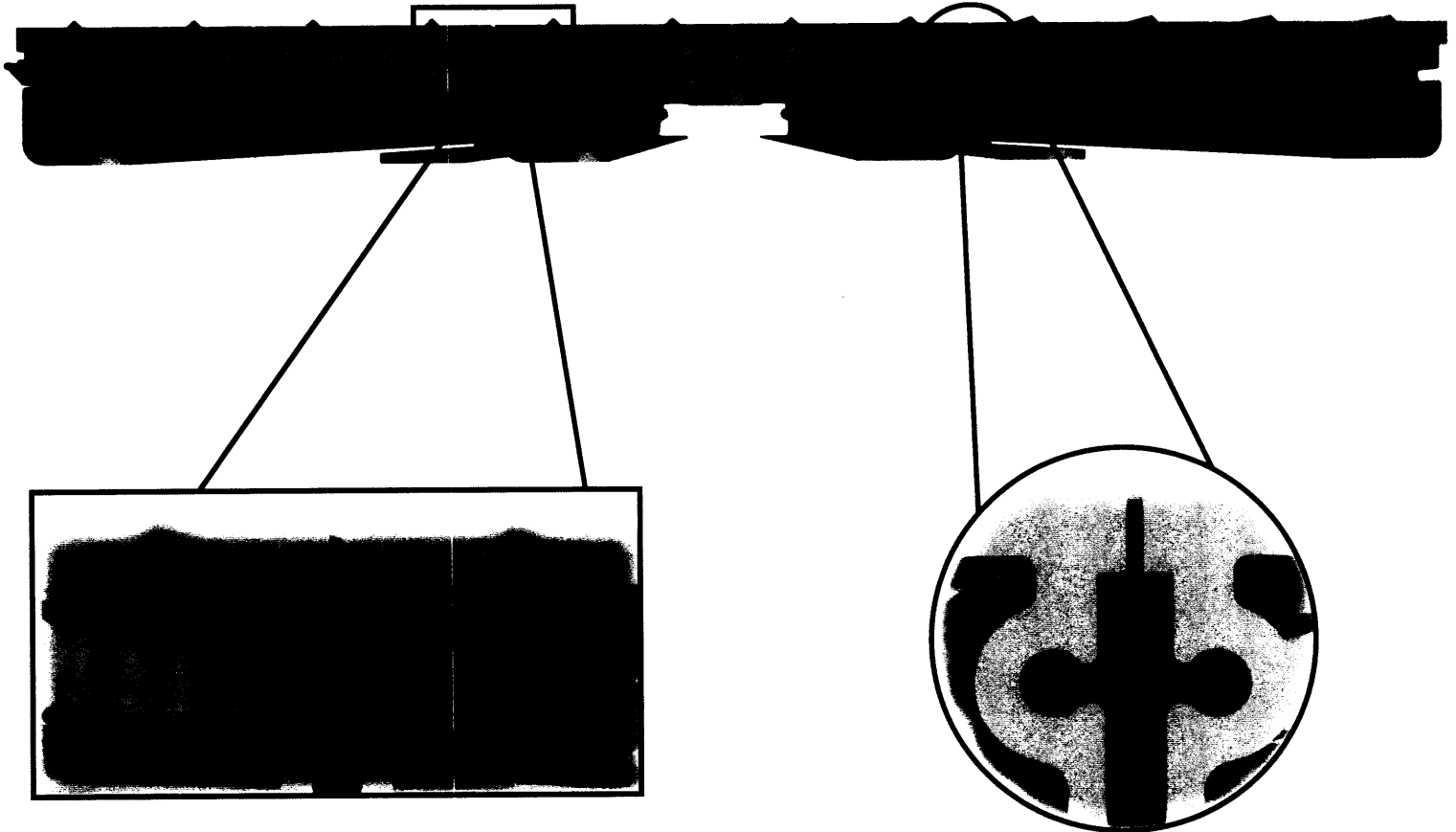
Supported between crossmembers

- stops floor deflection from imposed load
- improved reciprocation during operation
- smoother operation
- more efficient
- reduced floor twist whilst unloading

Increased life expectancy

- underside of floor closed & sealed from road wash/grit entry

Floor profile and seal perform together



Floor shoulders

Y-Seal

LoadKeeper

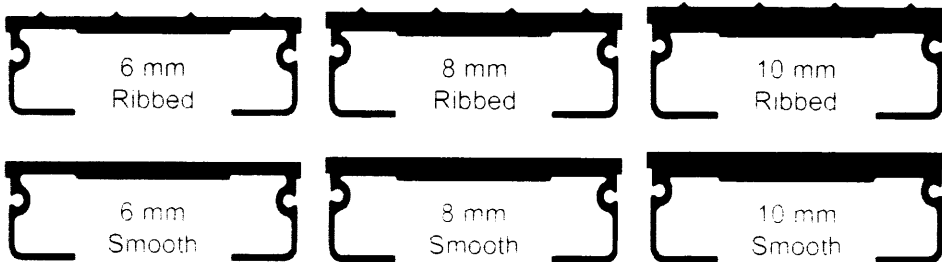
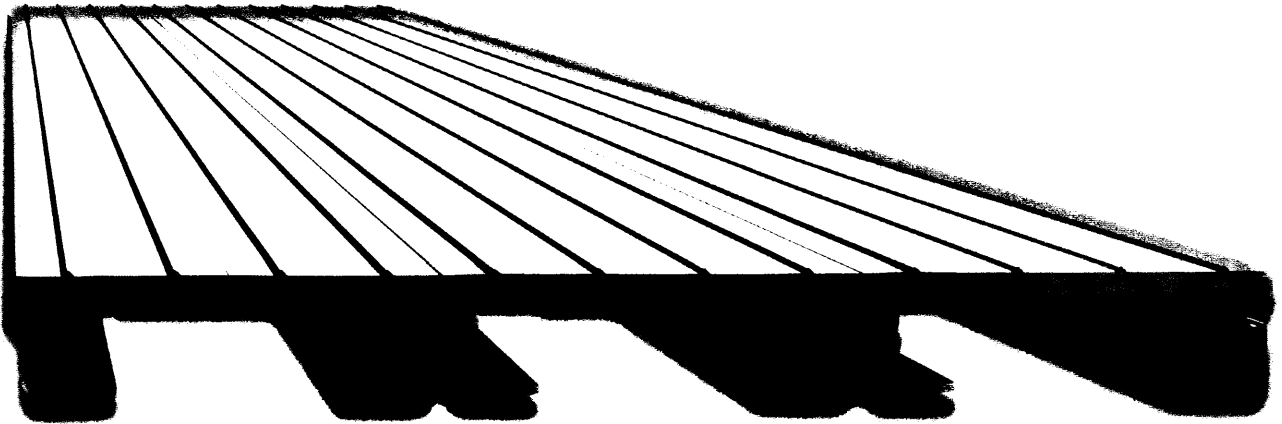
Extended floor shoulders

- eliminates seal being trapped
- no side load force on seal whilst floor reciprocates
- optimised space for effective seal location

Protected load

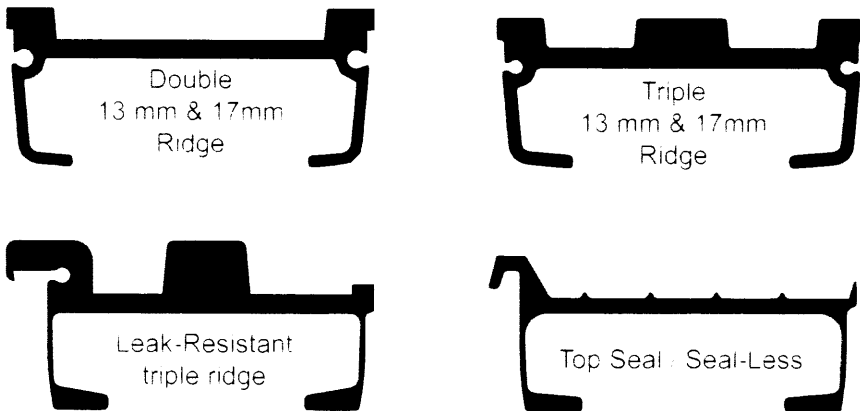
- Y shape seal efficiently closes space between floor profiles
- stops load sifting through to the road
- reduce road wash into load from forced underside road spray

Floor Profiles, Side Trims & End Caps



Standard floor profiles

- ribbed
- smooth



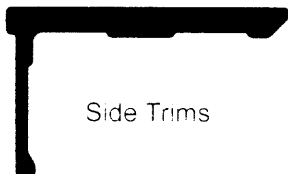
Special floor profiles

- double ridge
- triple ridge
- leak resistant
- Top Seal (seal-less)

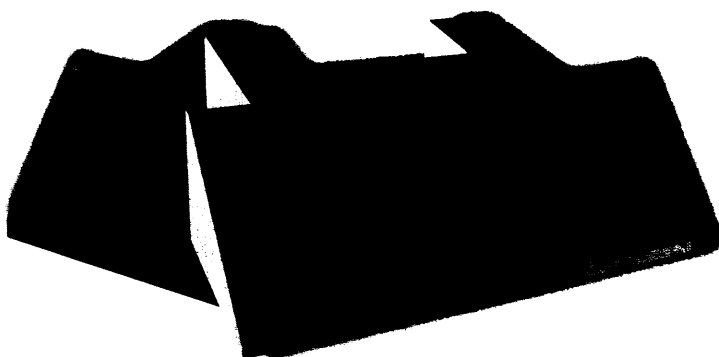
Overlap creates 3rd ridge
load presses seal to
create leak resistant closure

Overlap closes deck gap
creating seal-less closure

Additional profiles available on request

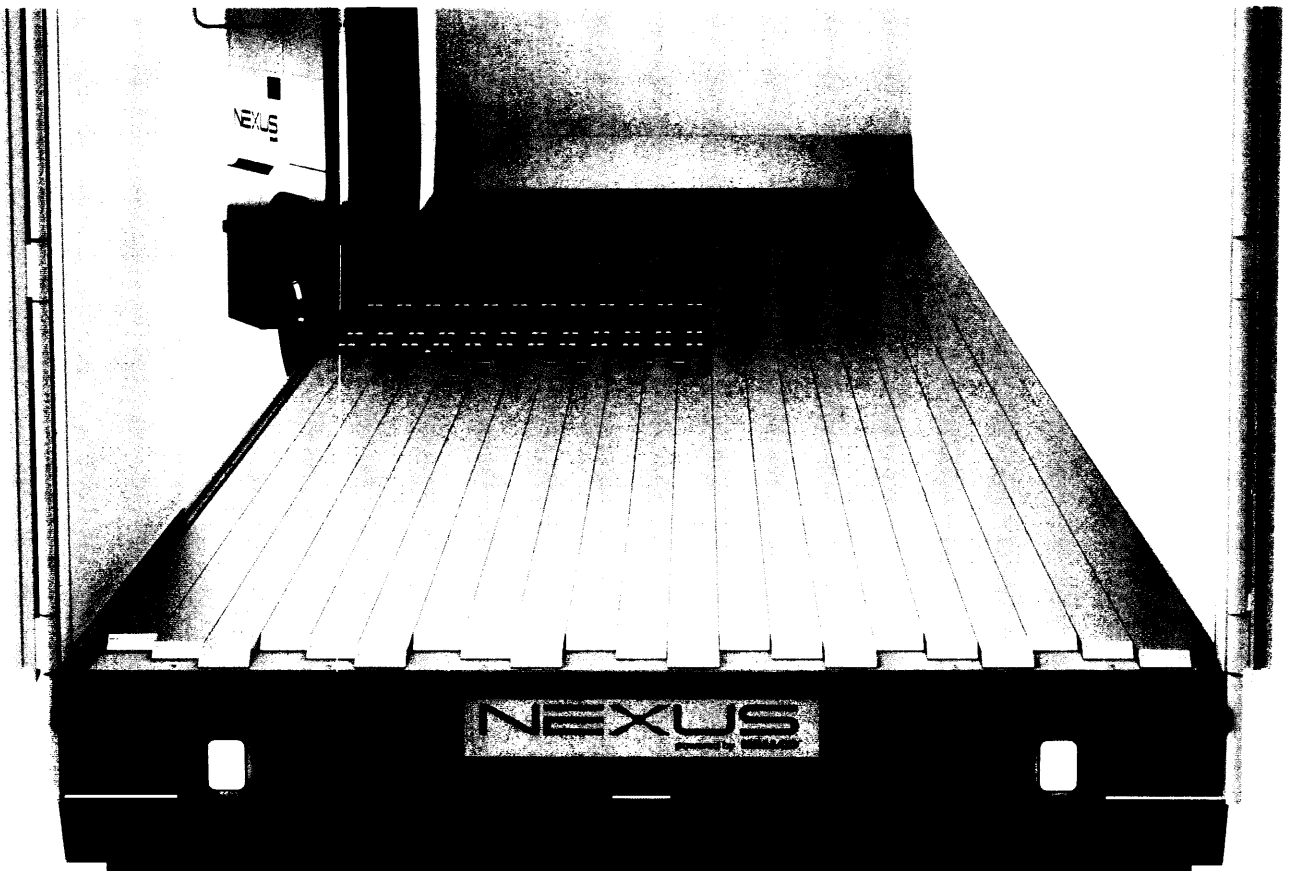


Side Trims



End caps

- aluminium
- plastic




THE ORIGINAL LIVE FLOOR®


HORIZONTAL
LOADING-UNLOADING
SYSTEMS



North America – South America – Europe – Australasia

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