



CARGO FLOOR®

HORIZONTAL LOADING-/UNLOADING SYSTEM

Only Quality generates Quality!™

MOVING FLOOR SOLUTIONS





COMPANY PROFILE

Cargo Floor is the leading manufacturer and supplier of horizontal (un)loading systems in the world. Managed and staffed by a professional team with over 30 years of experience in the industry, Cargo Floor delivers excellent quality with the very highest levels of customer service and support. **Globally recognized as a market leader**, Cargo Floor manufactures its product line in Coevorden, The Netherlands (Europe) under the ISO 9001-2015 quality label and exports all over the world. Before delivery, each “moving floor” system is rigorously tested for proper functioning, geometry, and sealing to ensure that every Cargo Floor product is easy to install by its customers and functions as designed anywhere in the world.

Cargo Floor has specialized knowledge and experience in the following areas:

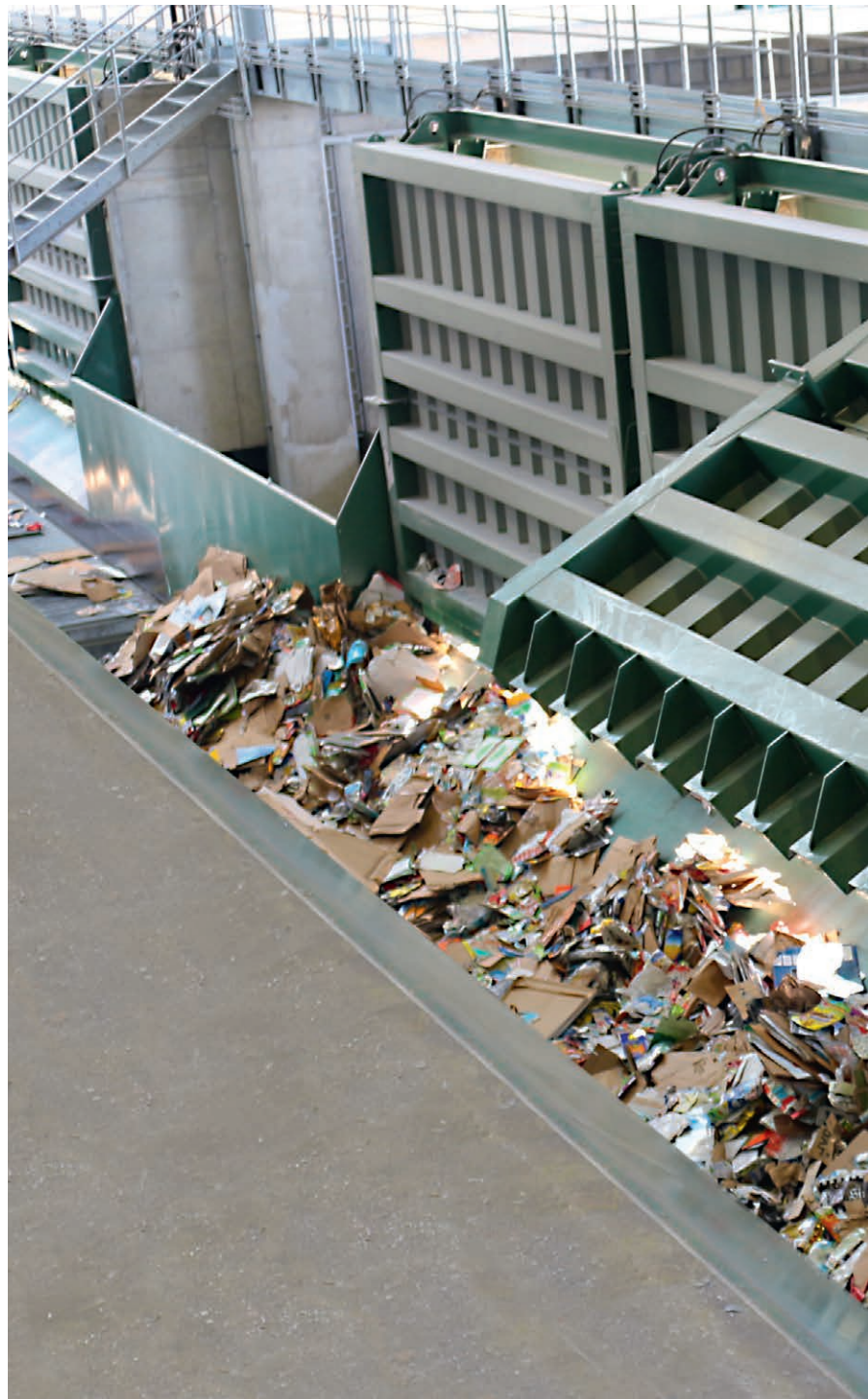
- Cargo Floor mobile systems for the truck and trailer industry
- Cargo Floor static systems for self-unloading transport/dosing systems in factories (3D-design, advice and implementation)
- CargoMatic “The Logistic Solution”, an automated dock-to-trailer system for fully (un)loading packed materials within 90 seconds
- Service and installation
- Trailer rental



The ultimate Cargo Floor®

Moving Floor

Cargo Floor is the global leader in multifunctional horizontal (un)loading systems. The Cargo Floor system is based on a “work smarter, not harder” principle designed to facilitate fast, safe, and efficient transport of through floor movement. Rather than burdensome, time-consuming, and sometimes dangerous “lift-and-carry” methods, Cargo Floor technology enables the contents of every trailer to be loaded and unloaded in a matter of minutes by moving the trailer floor under the product. The system allows for a wide variety of bulk materials and other goods to be effortlessly transported, including pallets, bales, and even paper reels! The enormous success of Cargo Floor’s hydraulic-operated drive units is based on a simple and easy to install system that is generally suitable for all types of trailers, equipment, and freight. Cargo Floor’s standard system (CF500) can handle most transport applications, however, Cargo Floor designers and engineers have vast experience crafting all manner of dedicated applications for specialized or unique transport needs.



moving floor transport-/dosing system

Development

Cargo Floor prides itself on its extensive field experience (>30 years) collaborating with OEM engineers to craft and manufacture the best possible (un)loading systems. Cargo Floor technology relies this experience as well as market feedback from transport companies, material handling experts, logistic managers, and its customers to ensure that Cargo Floor is always in a position to develop the most reliable, strongest, and most durable system for every application, while still being lightest moving floor system in the world! By using the very latest technology and state of the art components, Cargo Floor strives to be the most innovative manufacturer and supplier of moving floor systems on the planet. All Cargo Floor drive units are powered by hydraulics, mechanically driven by internal valves in order to prevent atmospheric and external conditions (like dust, dirt, or grime) from impacting each system's operation and performance.

Value

Cargo Floor systems are not only designed to move product faster, safer, and smarter, but also cheaper than more conventional options. Countless factors must be considered to cost-effectively and efficiently transport goods and materials in the modern economy. Cargo Floor systems provide substantial benefits over conventional (un)loading methods by capitalizing on new efficiencies across all major factors, including maximum volume, lower tare weight, lower operational cost (maintenance free), durability, sustainability, as well as human safety and environmental friendliness. The Cargo Floor drive units are designed to meet all of these requirements and more in order to achieve a timely and favorable return on any capital investment.



The Cargo Floor moving floor principle

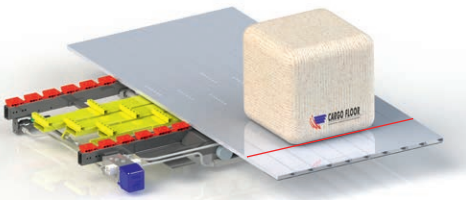
The Cargo Floor 'moving floor' System is a multi-functional, horizontal loading and unloading system for the fast and efficient transport of almost any product. The system is ideal for unloading a wide variety of bulk products, which typically are loaded from above and unloaded horizontally from the rear by the Cargo Floor 'moving floor' System. It can also be used to load and unload packed materials. The principle works in two directions, in other words the Cargo Floor 'moving floor' System can be used to LOAD and UNLOAD product.

Floor structure

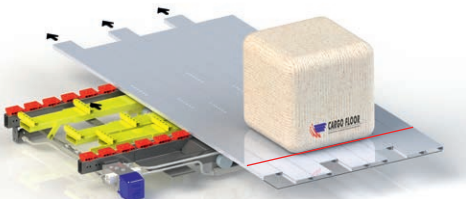
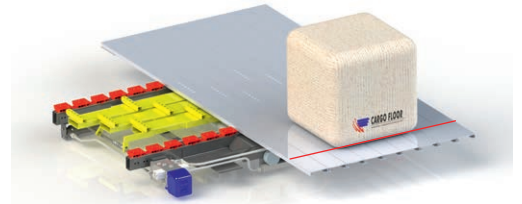
The Cargo Floor 'moving floor' System is composed of floor profiles installed lengthwise, parallel to each other. The Cargo Floor drive system moves the floor profiles back and forth within the power stroke of the three hydraulic cylinders. The floor profiles are made primarily from ALUMINUM, however they can also be supplied in high tensile STEEL or PLASTIC and other materials.

The space between the floor profiles is sealed and ensured by a high-quality plastic seal to avoid leakage; also SEALLESS, LEAK RESIST, Semi Leak Proof floors and even 100% LEAK PROOF solutions are available.

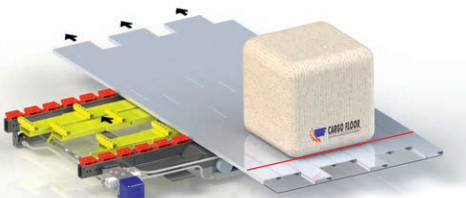
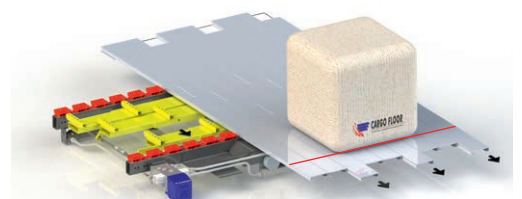
Bi-directional ← → product transportation



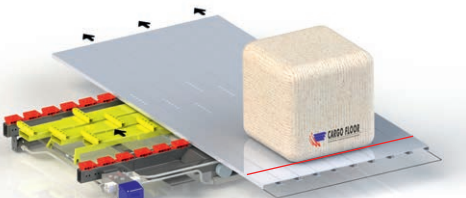
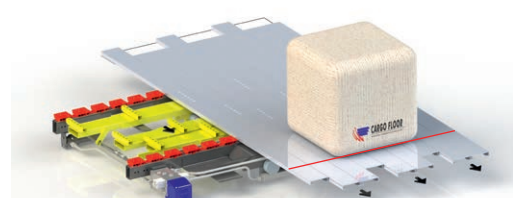
Step 1: three hydraulic cylinders move the entire floor as a whole in the selected direction, thereby transporting the cargo



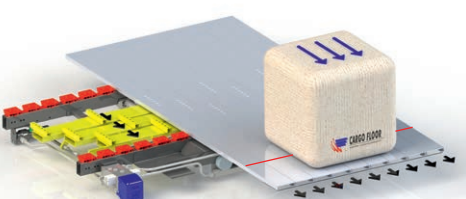
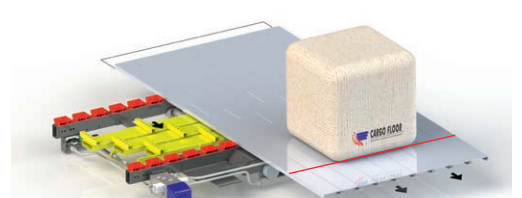
Step 2: one hydraulic cylinder pushes one group of floor profiles (= 1/3 floor section) underneath the cargo, while 2/3 of the floor section remains still, the cargo will hardly move as a result



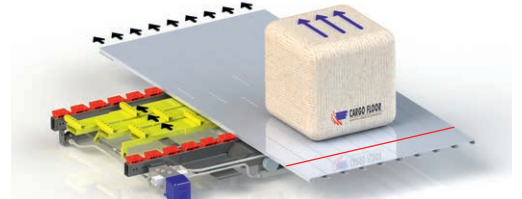
Step 3: one hydraulic cylinder pushes one group of floor profiles (= 1/3 floor section) underneath the cargo, while 2/3 of the floor section remains still, the cargo will hardly move as a result



Step 4: one hydraulic cylinder pushes the third and last group of floor profiles (= 1/3 floor section) underneath the cargo, while 2/3 of the floor section remains still, the cargo will hardly move as a result



Step 1 is repeated again. The frequency and thus the speed at which these steps are repeated depend on the output of the hydraulic pump. The available power at which the cargo can be moved depends on the available pressure of the hydraulic pump.



Transportation speed (theoretical):

0-4,8 meter/min, this depends on the determined pump flow (variabel pumpflows are possible) and the efficiency between the floor and product.

Excellent dosage and almost continuous movement possible!



STORAGE - TRANSPORT - DOSAGE



BI-DIRECTIONAL TRANSPORTATION



ALTERNATIVE FUEL



'TURN KEY' SOLUTIONS



INTERMODAL TRANSFER



HIGH IMPACT RESISTANCE



DRIVEABLE



XTREME LOW FLOOR HEIGHT



“STEP-DECK” BUNKER



CERAMIC
PISTON ROD



“DE-LOADER” 100% LEAK-PROOF



CUSTOM MADE

- Easy link to external command actuators for example: sensors, timers, etc.
- Easy connection to other receiving systems such as: chain plate conveyors, belt conveyors, screw conveyors, etc.
- Fully supported sub-floor structure, capable of handling lorry and shovel traffic
- Selection of various types of systems, modified according to the product to be transported
- Floor profile material, selection from: steel, hardox, aluminium and other materials
- Tailor made solutions for every application (also 100% Leak Proof)
- Very easy, fast installation
- Almost unlimited floor capacity (1-500t.)
- Solid plastic guidance for the floor profiles over the entire length
- Transport speed can be precisely controlled from 0-2.5 mtr./min.
- Precise product dosing
- High operating reliability due to excellent, maintenance-free design



EASY INSTALLATION

Implementation in new and existing facilities



PROTECTED SEAL DOUBLE NOCK PROFILE

TOP MOUNT CLICK IN, NO SLIDING NECESSARY
LEAK RESIST, DUST FREE



(l x w) 45.000 x 3.000 mm.



BIOGAS



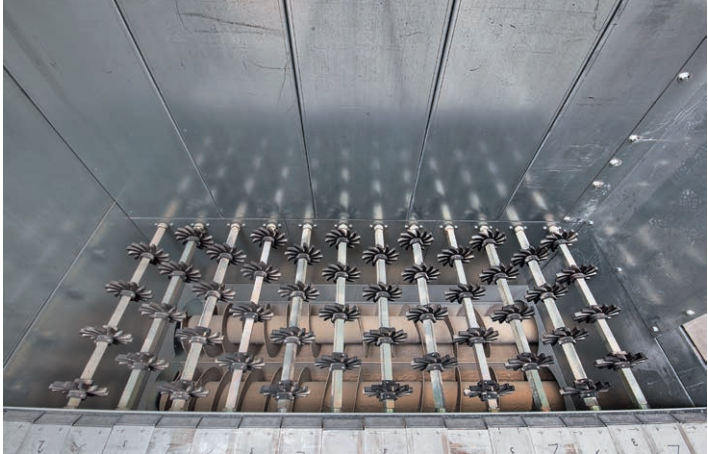
PREFAB CONTAINER



20 FT, 40 FT, 45 FT, SHIPPING CONTAINER

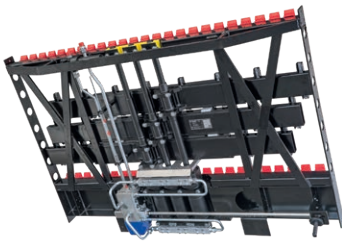
Cargo Floor has special drive systems and flooring available for easy mounting in all kind of prefab shipping containers. These are also very suitable to mount in a used container for a simple, cost effective and quick solution.

AUTOMATED DOSAGE SOLUTIONS

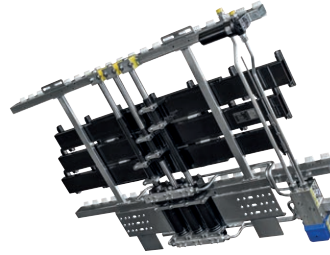




TECHNICAL SPECS



Center-mount (Perimeter-mount)



CF500 SLC-3.9 (Power Speed)*



CF600 HDC-4.7

	Type	CF500 SLC-3.9 (Power Speed)*				CF600 HDC-4.7	
		Metric		US/Imperial		Metric	US/Imperial
Weight (from)	kg / lbs	450		992		538	1186
Available in Cargo Bulkmove execution		yes	(yes)*	yes	(yes)*	yes	yes
Operating possibilities		E/B/A	(B/A)*	E/B/A	(B/A)*	E/B/A	E/B/A
Cylinder bore	mm / inch	100		3.9		120	4.7
Piston rod diameter	mm / inch	45		1.8		45	1.8
Working stroke	mm / inch	200		7.9		200	7.9
Cylinder volume	ltr / US gallon	2,82		0.7		4,2	1.1
Oil volume per cycle	ltr / US gallon	8,45		2.2		12,6	3.3
Working pressure	bar / PSI	170		2500		130	1900
Max. pressure	bar / PSI	225		3300		170	2500
Advised oil flow per minute	ltr / US gallon	110	(180)*	29	(48)*	110	29
Max. oil flow per minute	ltr / US gallon	130	(200)*	34	(53)*	130	34
Pressure filter	µm / micron	10	(2x10)*	10	(2x10)*	10	10
Speed at advised oil flow per minute	mtr / ft	2,6	(4)*	8.5	(13,1)*	1,7	5.6
Speed at max oil flow per minute	mtr / ft	3,1	(4,7)*	10.2	(15,4)*	2,1	6.8
Theoretical unloading time trailer 13.6mtr/45 ft	min / min	6	(3)*	6	(3)*	9	9
Max. loading capacity	ton / lbs	40		88000		50	110000
Max. loading capacity	ton / US ton	40		44		50	55
Advised pump capacity (2-line system):							
Flow per minute	ltr / US gallon	110	(180)*	29	(48)*	110	29
Pressure	bar / PSI	250		3600		200	3000
Pressure piping diameter	mm / inch	20x2	(25x2)*	¾x0.08	(1x0.08)*	25x2	1x0.08
Return piping diameter	mm / inch	25x2	(30x2)*	1x0.08	(1½x0.08)*	25x2	1x0.08
Oil tank filling at advised flow	ltr / US gallon	110	(180)*	29	(48)*	100	26
Oil tank filling at max. flow	ltr / US gallon	130	(200)*	34	(53)*	130	34
Max. oil temperature	°C / °F	100		212		100	212

Oil type: mineral and biological (HEES)

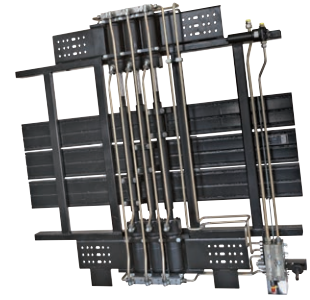
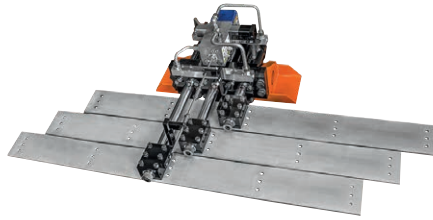
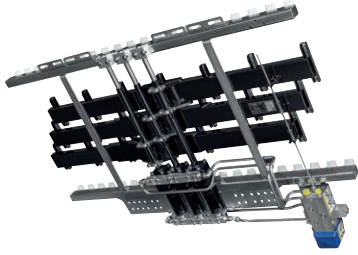
Normal temperature range -15 < 30°C / 5 < 86 °F ISO VG32

Low temperature range -25 < 0°C / -13 < 32 °F ISO VG22

High temperature range 15 < 40°C / 59 < 104 °F ISO VG46

DRIVE SYSTEMS WITH A LARGER CAPACITY ARE ALSO AVAILABLE.





CF100 SLL-3.1

<i>Metric</i>	<i>US/Imperial</i>
295	650
yes	yes
E/B/A	E/B/A

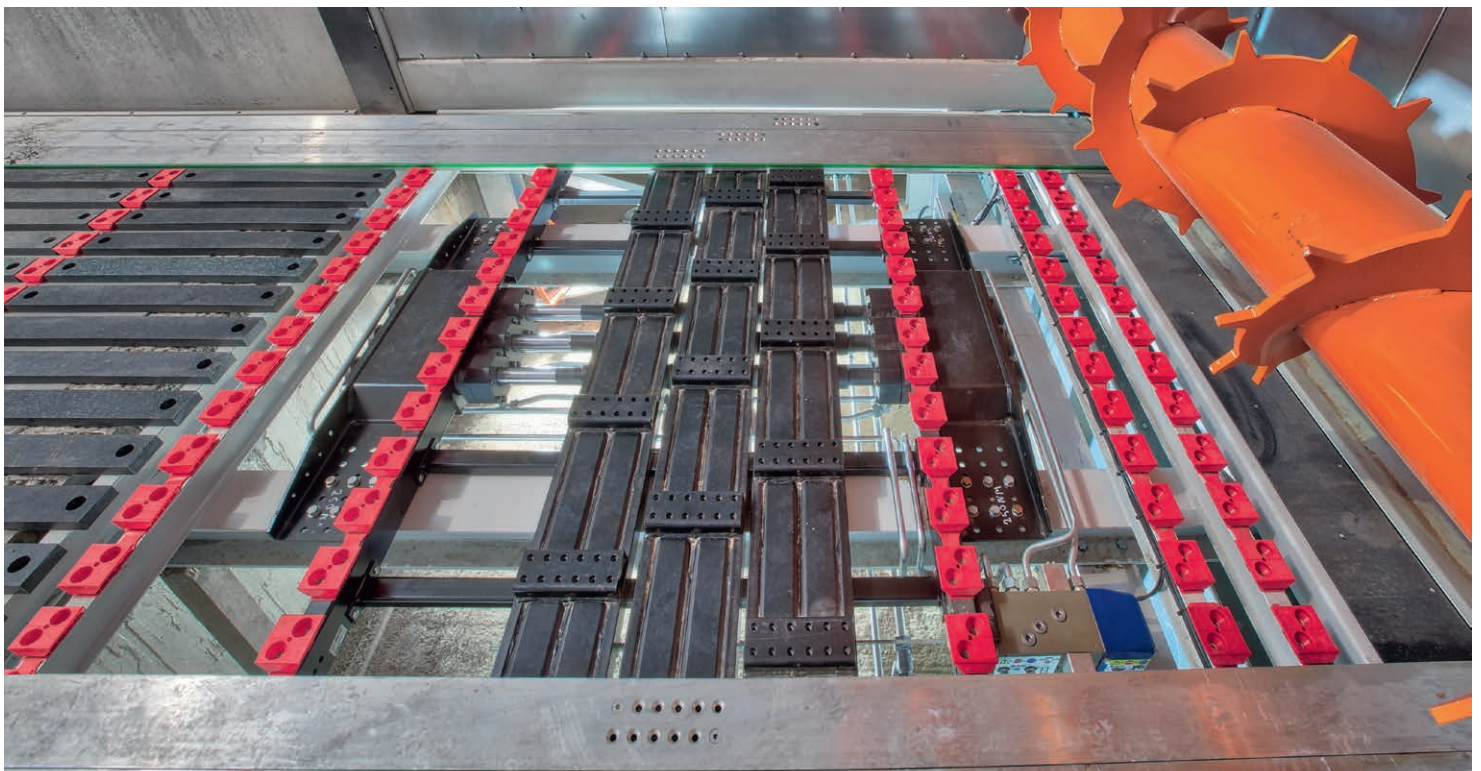
CF3 LP-4.9

<i>Metric</i>	<i>US/Imperial</i>
310	683
yes	yes
E/B/A	E/B/A

CF800 HD-6 cyl.

<i>Metric</i>	<i>US/Imperial</i>
1038	2288
yes	yes
E/B/A	E/B/A

80	3.1	125	4.9	100	3.9
35	1.4	60	2.4	50	2.0
150	5.9	150	5.9	200	7.9
1,36	0.4	3,26	0.9	5,5	1.5
4,09	1.1	9,77	2.6	16,5	4.4
130	1900	125	1800	170	2500
175	2500	150	2200	225	3300
70	18	130	34	110	29
80	21	170	45	130	34
10	10	10	10	10	10
2,6	8.5	2,0	6.6	1,3	4.3
2,9	9.5	2,6	8.5	1,6	5.2
n.v.t.	n.v.t	7	7	12	12
20	44000	35	77000	80	176500
20	22	35	39	80	88
70	18	130	34	110	29
200	2900	175	2500	250	3600
20x2	¾x0.08"	20x2	¾x0.08"	20x2	¾x0.08"
25x2	1x0.08"	25x2	1x0.08"	25x2	1x0.08"
70	18	130	34	100	26
80	21	170	45	130	34
100	212	100	212	100	212



WASTE TRANSFER

The Strongest ..
Simply The Best!



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