Nutting®

Tugger & Trailers VS. Forklifts





Nutting has been the premier manufacturer of high quality trailers for a wide variety of industry applications for hauling and transporting goods since 1891.

Our Trailers are the showcase of our product offering with QUAD-STEER (four-wheel steering) and DUAL-STEER (two-wheel steering) trailers utilizing four different configurations.

Our fabricating services include the usage of state-of-art equipment aimed at processing and producing at the highest and finest industry standards.

Our engineering services include specialized design expertise for custom-engineered products.

TUGGER & TRAILER BENEFITS

Utilization of a tugger with a train of trailers is the most popular and affordable trend today in managing your material handling logistics. With a single operator on the tugger, one is able to tow a train of trailers carrying a large capacity of parts, goods, products, packages, or components fore and aft in plants, centers, factories, and terminals.

As the best logistical solution, a tugger with a train of trailers holds the key to greater savings, higher output, less traffic, more flexibility, and better safety than the traditional alternative of using forklifts or lift trucks. The benefits of a tugger with a train of trailers is likewise superior to the capital intense

Consider just a few of the benefits provided by utilizing a tugger with a train of trailers:

Economics:

The saving benefits are two-fold; equipment and manpower. The "Tugger & Trailer" concept requires less capital equipment investment when compared with the traditional alternative of using forklifts or lift trucks. The reduction in manpower utilization is significantly less when comparing a tugger with a train of trailers Vs. forklifts or lift trucks. The saving benefits significantly favors the "Tugger & Trailer" concept.

Productivity:

The "Tugger & Trailer" concept offers higher yield and output by utilizing the most efficient method for transporting loads fore and aft. The tugger with a train of trailers provides excellent space utilization with the use of QUAD-STEER trailers, which offers positive tracking and trailing with precision steering geometry to follow the exact path of the tow vehicle (tugger) providing optimal maneuverability.

Congestion:

The "Tugger & Trailer" concept eliminates traffic bottlenecks by reducing the pieces of equipment (forklifts) required for material load transfer. The lower cost train of trailers are able to transport more load volume and weight in less trips compared with transporting loads utilizing traditional forklifts or lift trucks. Less traffic congestion on the floor space will prevent less equipment and product damage.

Flexibility:

The "Tugger & Trailer" concept allows for adaptation to changing production methods, product mix, or even a complete change of plans. The trailers are able to transport many different shapes and sizes; even odd shapes and sizes of goods for both internal or external usage. The trailer allows for creative and innovative options, changes, revisions, variations, adjustments, alterations, and modifications.

Safety:

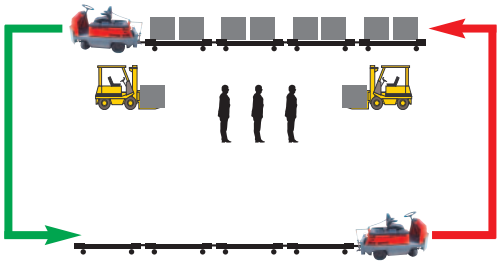
The operator of a tugger and train of trailers has no frontal view obstruction because the operator sits in front with the towed load behind. The operator of a forklift or lift truck has restricted frontal visibility due to the mask and transport load. Having unrestricted frontal visibility when driving in a busy congested facility makes the operation safer.

BENEFIT ANALYSIS

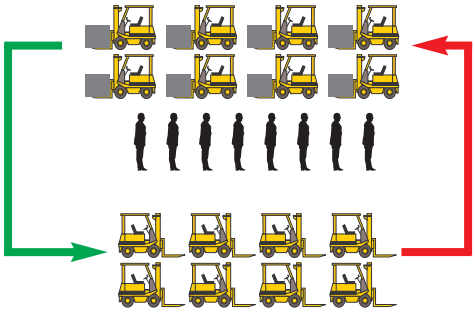
The Load Transfer Diagram - Compares "Tugger and Trailers" Vs. "Forklifts" or Lift Trucks (Forkllifts have been the most traditional method of material handling system)

LOAD TRANSFER COMPARISON

Tuggers & Trailers **VS.** **Forklifts or LiftTrucks**



Load Transfer Comparison
Simultaneous Dispatch
(8 - Pallets
Total 16,000 Lbs.)



Equipment Requirement:
1 - Tugger
4 - Trailers (4,000 Lbs. Capacity) Quad-Steer
2 - Forklifts (4,000 Lbs. Capacity)

Workforce Requirement (Personnel):
1 - Tugger Operator
1 - Forklift Operator - Loading
1 - Forklift Operator - Unloading

BIG SAVINGS

Based on the benefit analysis, the tugger and train of trailers is clearly the most cost effective and efficient method or concept for managing your material handling logistics. Today, many industries and companies are beginning or continuing to realize the significant financial benefits of replacing, switching, to mixing their existing operations with a tugger and train of trailers.

Equipment Requirement:
8 - Forklifts (4,000 Lbs. Capacity)

Workforce Requirement (Personnel):
8 - Forklift Operator - Loading/Unloading

HIGH $$$ COST











TRACKING/TRAILING GUIDELINES

90° Turn - Aisle Width Requirement
QUAD-STEER VS. DUAL-STEER

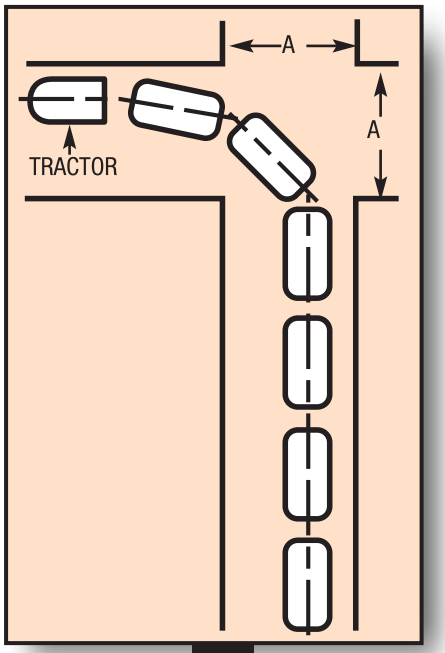
NUMBER OF TRAILERS					
1	2	3	4	5	6

QUAD-STEER

DECK SIZE	DIMENSION "A"					
36 x 60"	6'-3"	7'-3"	8'-1"	8'-9"	9'-3"	9'-9"
36 x 72"	6'-9"	7'-9"	8'-7"	9'-1"	9'-11"	10'-3"
48 x 96"	8'-5"	9'-5"	10'-4"	11'-2"	11'-11"	12'-5"

DUAL-STEER

DECK SIZE	DIMENSION "A"					
36 x 60"	7'-2"	8'-0"	8'-9"	9'-5"	10'-0"	10'-6"
36 x 72"	7'-8"	8'-6"	9'-3"	9'-11"	10'-6"	11'-0"
48 x 96"	10'-2"	11'-2"	12'-1"	12'-11"	13'-8"	9'-9"



180° Turn - Aisle Width Requirement
QUAD-STEER VS. DUAL-STEER

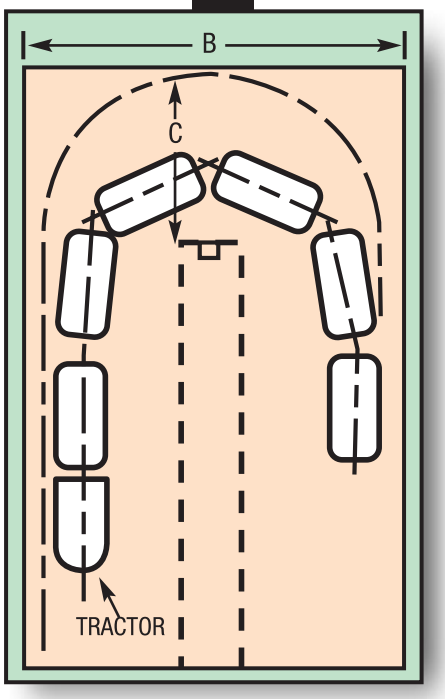
NUMBER OF TRAILERS					
1	2	3	4	5	6

QUAD-STEER

DECK SIZE	DIM "B"	DIMENSION "C"					
36 x 60"	15'-11"	6'-0"	6'-9"	7'-5"	8'-0"	8'-6"	8'-11"
36 x 72"	17'-6"	6'-6"	7'-3"	7'-11"	8'-6"	9'-0"	9'-5"
48 x 96"	22'-3"	7'-9"	8'-9"	9'-7"	10'-5"	11'-2"	11'-10"

DUAL-STEER

DECK SIZE	DIM "B"	DIMENSION "C"					
36 x 60"	18'-0"	7'-4"	8'-2"	8'-11"	9'-7"	10'-2"	10'-8"
36 x 72"	19'-9"	8'-0"	8'-10"	9'-7"	10'-3"	10'-10"	11'-4"
48 x 96"	27'-10"	9'-11"	11'-2"	12'-4"	13'-5"	14'-5"	15'-4"



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