Product Portfolio









The backbone of Lean manufacturing

Lean Dolly Type I



















TECHNICAL SPECIFICATION	
External dimensions	600 x 400 x 162 mm
Tare weight with CPD wheels, no corners	6,5 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 2 swivel
Wheel material	CPD, rubber or PU
Working capacity - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	250 kg 250 kg 250 kg
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1950 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID and Tracking compatibility
- Corner supports
- ESD compatibility

ALSO AVAILABLE IN ISO- AND US-DIMENSIONS

- 600 x 500 mm
- 24" x 15"
- 24" x 22.5"

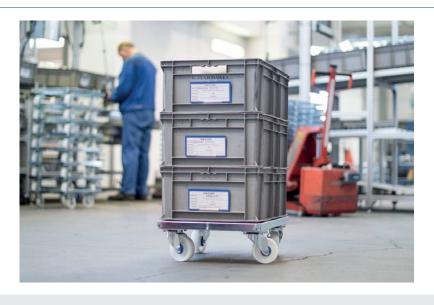
DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 400 mm
- 2 stacks of 300 x 400 mm
- 4 stacks of 300 x 200 mm

- Ergonomic handle
- Strapping device
- Oil dripping pan

Lean Dolly Type II





















TECHNICAL SPECIFICATION	
External dimensions	600 x 400 x 162 mm
Tare weight with CPD wheels, no corners	7,0 kg
Wheel size	100 mm wheels
Wheel configuration	4 swivel
Wheel material	CPD, rubber or PU
Working capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	250 kg 250 kg 250 kg
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1950 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID and Tracking compatibility
- Corner supports
- ESD compatibility

ALSO AVAILABLE IN ISO- AND US-DIMENSIONS

- 600 x 500 mm
- 24" x 15"
- 24" x 22.5"

DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 400 mm
- 2 stacks of 300 x 400 mm
- 4 stacks of 300 x 200 mm

- Ergonomic handle
- Strapping device
- Oil dripping pan

Lean Dolly Type III









TECHNICAL SPECIFICATION	
External dimensions	400 x 400 x 178,5 mm
Tare weight with CPD wheels	6 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 2 swivel or 4 swivel
Wheel material	CPD, rubber or PU
Working capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	160 kg 160 kg 160 kg
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 8 units (1200 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- ESD compatibility

DESIGNED TO CARRY SLC'S AND TRAYS

• 1 stack of 400 x 400 mm

- Ergonomic handle
- Strapping device

Lean Dolly Type V

















TECHNICAL SPECIFICATION	
External dimensions	604 x 404 x 157 mm
Tare weight with CPD wheels, with corners	7,5 kg
Wheel size	100 mm wheels
Wheel configuration	4 swivel
Wheel material	CPD, rubber or PU
Working capacity: - CPD – standard and ESD - Rubber– standard and ESD - PU – standard and ESD	250 kg 250 kg 250 kg
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1950 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- ESD compatibility

ALSO AVAILABLE IN ISO- AND US-DIMENSIONS

- 600 x 500 mm
- 24" x 15"
- 24" x 22.5"

DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 400 mm
- 2 stacks of 300 x 400 mm
- 4 stacks of 300 x 200 mm

- Ergonomic handle
- Strapping device
- Oil dripping pan

Lean Dolly Type VII



TECHNICAL SPECIFICATION	
External dimensions	604 x 404 x 162 (382) mm
Tare weight with CPD wheels, no corners	7 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 2 swivel
Wheel material	CPD, rubber or PU
Maximum Load Capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	250 kg 250 kg 250 kg
Working capacity in tugger train Max amount per tugger train	1000 kg 7–8 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1955 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)
Recommended max speed	6 km/h

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- Stealth version sliding tow system
- ESD compatibility

ALSO AVAILABLE IN ISO AND US-DIMENSIONS

• 600 x 500 mm, 24" x 15", 24" x 22.5"

DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 400 mm
- 2 stacks of 300 x 400 mm
- 4 stacks of 300 x 200 mm

- Ergonomic handle
- Strapping device
- Oil dripping pan

Lean Dolly Type VIIC with Elevated Deck









TECHNICAL SPECIFICATION	
External dimensions	612 x 404 x 683 mm
Tare weight with CPD wheels, no corners	18 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 2 swivel
Wheel material	CPD, rubber or PU
Maximum Load Capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	70 kg 70 kg 70 kg
Working capacity in tugger train Max amount per tugger train	1000 kg 7–8 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 3 units (1955 mm)
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)
Recommended max speed	4 km/h

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- ESD compatibility

DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 400 mm
- 2 stacks of 300 x 400 mm
- 4 stacks of 300 x 200 mm

- Ergonomic handle
- Oil dripping pan

Lean Dolly 600 x 800 mm

















TECHNICAL SPECIFICATION	
External dimensions	600 x 806 x 158 (495) mm
Tare weight with CPD wheels	12 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 3 swivel or 5 swivel
Wheel material	CPD, rubber or PU
Maximum Load Capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	500 kg 500 kg 500 kg
Working capacity in tugger train Max amount per tugger train	1600 kg 5–6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1955 mm) with towing arm 2,3 m
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)
Recommended max speed	6 km/h

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- Draw bar
- ESD compatibility

ALSO AVAILABLE IN ISO-DIMENSIONS

• 600 x 1000 mm

DESIGNED TO CARRY SLC'S AND TRAYS

- 1 stack of 600 x 800 mm
- 2 stack of 600 x 400 mm
- 4 stacks of 300 x 400 mm
- pallets, foldable cages and stillages

- Strapping device
- Multipurpose plywood deck

Lean Dolly 1200 x 800 mm









TECHNICAL SPECIFICATION	
External dimensions	1212 x 800 x 162 (502) mm
Tare weight with CPD wheels	19 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed & 4-5 swivel
Wheel material	CPD, rubber or PU
Maximum Load Capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	4 swivel 300 kg 5 swivel 500 kg 4 swivel 300 kg 5 swivel 500 kg 4 swivel 300 kg 5 swivel 500 kg
Working capacity in tugger train Max amount per tugger train	1600 kg 5–6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1955 mm) with towing arm 2,3 m
Compatibility with Lean Adaptor Pallets	- Next Generation (HADP10030, HADP10032, HADP10045)
Recommended max speed	6 km/h

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- Draw bar
- ESD compatibility

DESIGNED TO CARRY SLC'S AND TRAYS

- 3 stacks of 800 x 400 mm
- 4 stack of 600 x 400 mm
- 8 stacks of 300 x 400 mm
- pallets, foldable cages and stillages

- Strapping device
- Multipurpose plywood deck

Lean Dolly 800 x 600 mm









TECHNICAL SPECIFICATION	
External dimensions	800 x 600 x 162 (499) mm
Tare weight with CPD wheels	10,5 kg
Wheel size	100 mm wheels
Wheel configuration	2 fixed and 2 swivel
Wheel material	CPD, rubber or PU
Maximum Load Capacity: - CPD – standard and ESD - Rubber – standard and ESD - PU – standard and ESD	500 kg 500 kg 500 kg
Working capacity in tugger train Max amount per tugger train	1600 kg 5–6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 15 units (1955 mm) with towing arm 2,3 m
Recommended max speed	6 km/h

OPTIONS

- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- Draw bar
- ESD compatibility

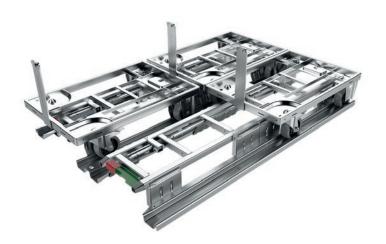
DESIGNED TO CARRY SLC'S AND TRAYS

- 2 stack of 600 x 400 mm
- 4 stacks of 300 x 400 mm
- pallets, foldable cages and stillages

- Strapping device
- Multipurpose plywood deck

Lean Adaptor Pallet



















TECHNICAL SPECIFICATION	
External dimensions	1210 x 800 x 149 mm
Tare weight	32 kg
Working capacity	1000 kg
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking - loaded in transport - loaded at warehouse - empty	2 units 3 units 15 units

DESIGNED FOR ALL STANDARD LEAN DOLLIES

OPTIONS

- Non-slip features
- RFID & Tracking compatibility
- ESD compatibility

ALSO AVAILABLE IN ISO AND US-DIMENSIONS

- 1200 x 1000 mm
- 48" x 30"
- 48" x 45"

- EasyStrap
- Compatible with industry standard lids

Lean Pallet Size Dolly















TECHNICAL SPECIFICATION	
External dimensions	1200 x 800 x 275 (1017) mm
Tare weight	66 kg
Wheel size	160 mm wheels
Wheel configuration	2 fixed & 2 swivel 4 swivel 2 fixed & 4 swivel
Wheel material	PU and CPD
Working capacity	1000 kg
Working capacity in tugger train Max amount per tugger train	4000 kg 6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 6 units (1680 mm) with "draw bar" (2,4 m)
Recommended max speed	6 km/h

COMPATIBLE WITH ALL LEAN DOLLIES, LEAN SHELF WAGON, TAXI WAGON AND TAXILINER.

OPTIONS

- Available with anti slip material or plywood deck
- Integrated strapping device
- ESD compatibility
- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- 360° spinning on 6 wheels
- Catch for towing one or two lines of Lean dollies
- Wheel spacer
- Forklift guide

ALSO AVAILABLE IN ISO- AND US-DIMENSIONS

- 1200 x 1000 mm (72 kg)
- 48" x 45" (77 kg)
- 32" x 30" (53 kg)

DESIGNED TO CARRY SLC'S, PALLETS AND BOXES

- Pallet sizes: Euro, ISO & 48" x 45"
- SLC's in Euro, ISO or US boxes
- Cages and foldable boxes

Mini Lean Pallet Size Dolly













TECHNICAL SPECIFICATION	
External dimensions	923 x 600 x 280 (1019) mm
Tare weight	55 kg
Wheel size	160 mm wheels
Wheel configuration	2 fixed & 2 swivel or 4 swivel
Wheel material	PU and CPD
Working capacity	1000 kg
Working capacity in tugger train Max amount per tugger train	4000 kg 6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 6 units (1680 mm) with draw bar (2,4 m)
Recommended max speed	6 km/h

COMPATIBLE WITH ALL LEAN DOLLIES, LEAN SHELF WAGON, TAXI WAGON AND TAXILINER.

OPTIONS

- Available with anti slip material or plywood deck
- Integrated strapping device
- ESD compatibility
- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- Catch for towing one or two lines of Lean dollies
- Wheel spacer

ALSO AVAILABLE IN US-DIMENSIONS

• 32" x 30"

DESIGNED TO CARRY SLC'S, PALLETS AND BOXES

- Pallet sizes: 800 x 600 mm or 32" x 30"
- Cages and foldable boxes

Lean Pallet Size Dolly with elevated deck















TECHNICAL SPECIFICATION	
External dimensions	1200 x 800 x 600 mm
Tare weight	89 kg
Wheel size	160 mm wheels
Wheel configuration	2 fixed & 2 swivel 4 swivel 2 fixed & 4 swivel
Wheel material	PU and PA
Working capacity	1000 kg
Working capacity in tugger train Max amount per tugger train	4000 kg 6 units
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Safe stacking	up to 1680 mm with "handlag" (2,4 m)
Recommended max speed	6 km/h

COMPATIBLE WITH ALL LEAN DOLLIES, LEAN SHELF WAGON, TAXI WAGON AND TAXILINER.

OPTIONS

- Available with anti slip material or plywood deck
- Integrated strapping device
- ESD compatibility
- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- Corner supports
- 360° spinning on 6 wheels
- Catch for towing one or two lines of Lean dollies
- Wheel spacer
- Forklift guide

ALSO AVAILABLE IN ISO- AND US-DIMENSIONS

- 1200 x 1000 mm (97 kg)
- 48" x 45" (90 kg)

DESIGNED TO CARRY SLC'S, PALLETS AND BOXES

- Pallet sizes: Euro, ISO & 48" x 45"
- SLC's in Euro, ISO or US boxes
- Cages and foldable boxes

Lean Shelf Wagon













TECHNICAL SPECIFICATION	
External dimensions	1260 x 806 x 1680 mm
Tare weight (2 shelves + floor)	113 kg
Wheel size	160 mm wheels
Wheel configuration	2 fixed and 2 swivel
Wheel material	PU and CPD
Surface treatment	Blue zinc plated acc. to EN-ISO2081
Working capacity	Per Shelf: 150 kg or 250 kg (heavy-duty) Per Unit: 450 kg or 800 kg (heavy-duty)
Max amount in tugger trains	6 units
Recommended max speed	6 km/h

COMPATIBLE WITH ALL LEAN DOLLIES, LEAN SHELF WAGON, TAXI WAGON AND TAXILINER.

OPTIONS

- ESD compatibility
- Total brake on 1 or 2 swivel wheels
- RFID & Tracking compatibility
- 6 wheel option for 360° spinning
- Catch for towing one or two lines of Lean dollies
- Wheel spacer
- Forklift guide

DESIGNED TO CARRY SLC'S AND TRAYS AND OTHER BOXES

ACCESSORIES

• Transport & non-contamination cover

Lean Taxiliner



TECHNICAL SPECIFICATION	3 Bay Version	4 Bay version
External dimensions	2031 x 1425 x 725 mm	2496 x 1430 x 725 mm
Length including the draw bar	2540 mm	3001 mm
Space between dividers	410 mm	410 mm
Working capacity	750 kg	750 kg
Tare weight	215 kg	282 kg
Maximum Train load	2250 kg	2250 kg
Maximum speed	15 km/h	12 km/h
Min. turning circle	3800 mm	4350 mm
Ramp elevation for Dollies	72 mm	80 mm
Ground clearance	40 mm	38 mm
Steering system SpurTrak™	All wheel Steer	All wheel Steer
Surface treatment	Powder coating	Powder coating

COMPATIBLE WITH ALL LEAN PALLET SIZE DOLLY AND LEAN SHELF WAGON.

DESIGNED TO CARRY

- 600 x 400 mm Dollies
- Also ISO and US sized Dollies

BENEFITS

- Ideal for logistic flows where the sequence cannot be controlled
- Reduce handling costs
- Enables the delivery of multiple article numbers in one delivery sequence
- Improve ergonomics
- Fast and safe internal transport
- Excellent tracking and steering stability

OPTIONS

- Non-slip feature for the ramps
- Double locking device
- Additional floor guidance
- ESD compatibility
- RFID & Tracking compatibility
- 600 x 800 mm Dollies compatibility

LiftLiner®





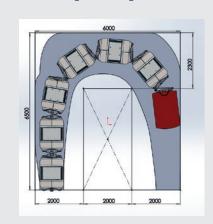
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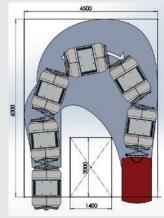
TECHNICAL SPECIFICATION	
External dimensions	820×620 mm, height when down/up 290/350 mm 1220 x 820 mm, height when down/up 290/350 mm 1220 x 1010 mm, height when down/up 290/350 mm
Ground clearance when down/up	0/60 mm
Tare weight with CPD wheels, no corners	18 kg
Wheel size	200 mm wheels
Wheel configuration	2 per wagon
Wheel material	PU
Maximum Load Capacity	1000 kg
Tare weight	approx. 180 kg
Coupling: - Lenght - Type	200 mm A&A crossbar coupling system
Maximum speed	16 km/h
Surface treatment	Powder coating
Time to lift	Less than 3 seconds

BENEFITS

- Easy one man operationNo turnaround needed

- Extremely manoeuvrable
 No additional routing needed
 Safe and high track stability
 Loading/unloading from both sides





elephantboard® and Daughter Cart for the LiftLiner









TECHNICAL SPECIFICATION ELEPHANTBOARD (4 SHELVES)	
External dimensions	820 x 1450 x 1810 mm
Maximum working capacity	500–1000 kg
Shelf material	Rotomoulding plastic
Number of shelves	1–4
Distance between shelves	365 mm
Tare weight	65 kg
Wheel type	2 swivel and 2 fixed
Wheel material	Heavy-duty polyurethane wheels
Wheel size	200 mm
Surface treatment	Blue Zinc Plated
Amount per LiftLiner	1 unit

TECHNICAL SPECIFICATION DAUGHTER CART		
External dimensions	840 x 1240 x 318 mm	
Maximum working capacity	1000 kg	
Tare weight	29 kg	
Wheel type	2 fixed and 2 swivel or 4 swivel	
Wheel material	Polyamide wheels	
Wheel size	200 mm	
Surface treatment	Blue Zink Plated	
Amount per LiftLiner	1 unit	

Also available in ISO size.

OPTIONS

- Eliminate the need for forklifts and reduce the risk of accidents at manufacturing and assembly lines
- Lower maintenance costs
- Reduce overall operator costs
- Require only one operator making multiple deliveries on one route trip
- Enable to carry smaller and kitted loads in addition to pallet units in the same train
- Faster delivery rates takes seconds to unload

Accessories – Wheel overview

Ø 100 MM WHEELS



CPD WHEEL



RUBBER WHEEL



POLYURETHANE WHEEL



ESD RUBBER WHEEL



ESD HYBRID WHEEL NON-MARKING



ESD POLYURETHANE WHEEL



- All our wheels are equipped with ball bearings to ensure
 - lower rolling resistance
 - lower noise
 - long life span
- Very high load capacity and quality
- The wheels are designed to be used also in a tugger train



CLEAN WHEEL





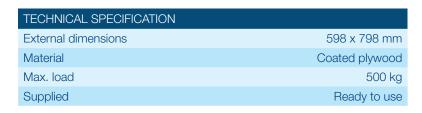




Accessories – Safety and ergonomics



MULTIPURPOSE DECK FOR 600 X 800 MM LEAN DOLLIES



DESIGN

• Compatible with 600 x 800 Lean Dollies

BENEFITS

- Provides a close deck for smaller packages
- Easy to use
- Equipped with two ergonomic handles



TECHNICAL SPECIFICATION	
External dimensions	470 (L) x 405 (W) x 900 (H) mm
Surface treatment	Blue zinc plating
Weight	5 kg
Wheel type and size	CPD 100 mm
Supplied	Ready to use

DESIGN

• Both for 600 x 400 and 600 x 800 Lean Dollies

BENEFITS

• Ergonomic and safe way to move the dollies



EASY STRAP
FOR LEAN ADAPTOR PALLET

TECHNICAL SPECIFICATION	
Modular length	2300 – 3800 mm
Material	Textile with metal hook
Max. load to be tripped	1000 kg = max. load to be distributed on one or more Adaptor Pallets
Max. load by stacking	1000 kg in total
Supplied	Ready to use and to be attached to the Adaptor Pallet.

To be used in connection with the Lean Adaptor Pallet and secure the transported boxes.

DESIGN

- Adjustable length
- Directly attached to the Lean Adaptor Pallet

BENEFITS

- Safer transportation
- Easy to attach
- Reusable

Accessories – Dirt prevention



COVER FOR LEAN SHELF WAGON

TECHNICAL SPECIFICATION	
External dimensions	806 x 1260 x 1680 mm
Material	PVC (polyvinyl chloride)
Packing	Delivered as complete kit for 1 unit
Supplied	Delivered ready for use and to be attached to the Adaptor Pallet

Designed for closed transportation of the Lean Shelf Wagon between warehouses or from for example unloading areas outside to inside. The cover is very easy to flip over and open as well as closing.

DESIGN

- Access from both long and short sides if needed
- Easy manual handling due to Velcro-closing
- Flip-up and attach sides for less space consuming handling

BENEFITS

- Weather protection
- Protection against contamination
- Transport safety under truck transportation
- Internal transport safety
- Easy manual handling
- Space friendly solution



DRIPPING PAN FOR 600 X 400 MM LEAN DOLLIES

TECHNICAL SPECIFICATION	
External dimensions	604 x 404 mm
Material	PVC (Polyvinyl chloride)
Supplied	Ready to use

Designed to be placed between the Dolly and the packages transported.

BENEFITS

- Prevents liquid dripping from boxes on the floor
- Prevents accidents
- The solution stays stackable while being attached with the dripping pan

Accessories – Connecting devices



TOW TRACTOR DRAW BAR

TECHNICAL SPECIFICATION	
Max. load on the draw bar	6000 kg
Max. load on the pin	2000 kg
Compatible with	Lean Dolly 600 x 500 mm Lean Dolly 600 x 400 mm Lean Dolly 600 x 800 mm Lean Dolly 600 x 1000 mm Lean Pallet Size Dolly Lean Shelf Wagon
Surface treatment	Blue zinc plated
Supplied	Assembled ready to mount on the tugger

DESIGN

For the tractor types: Jungheinrich EZS350 and Linde P30/P50. It can also be adjusted for other tractor types.

BENEFITS

• Enable towing of all Lean Dollies in various combinations.



MAKE THE NEXT SMART MOVE IN LOGISTICS

COST SAVINGS UP TO 40 %

PRODUCTIVITY INCREASED BY UP TO 55%

3–4 TIMES LESS MANUAL HANDLING OPERATIONS PER TOTE



















