Product Portfolio



Lean manufacturing

www.LeanProducts.eu

K.HARTWALL

Logistics Efficiency through Innovation









The backbone of Lean manufacturing

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Keep things rolling with Lean Logistics

Benefits

- Improve work flow
- Reduce handling costs
- Enable reduction of stock level
- Reduce need for floor space
- Improve ergonomics
- Fast and safe truck loading

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 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

ACCESSORIES

• 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 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	- Next Generation (HADP10030, HADP10032,
Lean Adaptor Pallets	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









11		
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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	- Next Generation (HADP10030, HADP10032,
Lean Adaptor Pallets	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

















With 5 swivel wheels

With draw bar

With draw bar and plywood deck

EU	RO



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	- Next Generation (HADP10030, HADP10032,
Lean Adaptor Pallets	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 capacity1000 kg
	Working capacity in tugger train 4000 kg Max amount per tugger train6 units
	Surface treatmentBlue zinc plated acc. to EN-ISO2081
	Safe stackingup to 6 units (1680 mm) with "draw bar" (2,4 m)
	Recommended max speed6 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 swive
Wheel material PU and CPD
Working capacity1000 kg
Working capacity in tugger train 4000 kg Max amount per tugger train6 units
Surface treatmentBlue zinc plated acc. to EN-ISO2081
Safe stackingup to 6 units (1680 mm) with draw bar (2,4 m)
Recommended max speed6 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

















1200 x 800 x 600 mm
89 kg
160 mm wheels
2 fixed & 2 swivel 4 swivel 2 fixed & 4 swivel
Wheel material PU and PA
Working capacity1000 kg
Working capacity in tugger train 4000 kg Max amount per tugger train6 units
Surface treatmentBlue zinc plated acc. to EN-ISO2081
Safe stackingup to 1680 mm with "handlag" (2,4 m)
Recommended max speed6 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 dimensions1260 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 treatmentBlue 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 trains6 units

Recommended max speed6 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 bar2540 mm3001 mm

Space between dividers410 mm410 mm

Working capacity 750 kg750 kg

Tare weight 215 kg282 kg

Maximum Train load2250 kg2250 kg

Maximum speed 15 km/h12 km/h

Min. turning circle3800 mm4350 mm

Ramp elevation for Dollies72 mm80 mm

Ground clearance40 mm38 mm

Ground clearance40 mm30 mm

Steering system SpurTrak™All wheel SteerAll wheel Steer

Surface treatmentPowder coatingPowder 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®











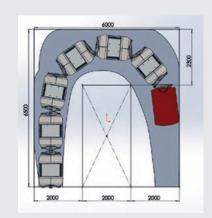


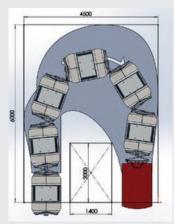
TECHNICAL SPECIFICATION	
External dimensions	820 x 620 mm, height when down/up 290/350 mm 1220 x 820 mm, height when down/up 290/350 mm 1220 x 1010 mm, height when down/up 290/350 mm
Ground clearance when down/up	0/60 mm
Tare weight with CPD wheels, no corners	18 kg
Wheel size	200 mm wheels
Wheel configuration	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 dimensions820 x 1450 x 1810 mm

Maximum working capacity 500-1000 kg

Shelf materialRotomoulding plastic

Number of shelves 1-4

Distance between shelves 365 mm

Tare weight65 kg

Wheel type2 swivel and 2 fixed

Wheel material Heavy-duty polyurethane wheels

Wheel size 200 mm

Surface treatmentBlue Zinc Plated

Amount per LiftLiner1 unit

TECHNICAL SPECIFICATION DAUGHTER CART

External dimensions840 x 1240 x 318 mm

Maximum working capacity 1000 kg

Tare weight29 kg

Wheel type 2 fixed and 2 swivel or 4 swivel

Wheel material Polyamide wheels

Wheel size 200 mm

Surface treatmentBlue Zink Plated

Amount per LiftLiner1 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

TECHNICAL SPECIFICATION	
External dimensions	598 x 798 mm
Material	Coated plywood
Max. load	500 kg
Supplied	Ready to use

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
	0.1.8
Wheel type and size	CPD 100 mm
	OI D 100 IIIIII
Supplied	Ready to use
""	ready to use

DESIGN

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

BENEFITS

• Ergonomic and safe way to move the dollies





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.

EASY STRAP To be used in connection with the Lean Adaptor Pallet and **FOR LEAN ADAPTOR PALLET** 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 dimensions604 x 404 mm MaterialPVC (Polyvinyl chloride) SuppliedReady 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	Blue zinc plated
treatment Supplied	Assembled ready to mount on the tugger
Supplied	

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.



Floor marking, visual management and Monorail Systems







LongLife Floor Marking Tape

TECHNICAL SPECIFICATION	

DESIGN

Available in different colors, sizes and surfaces

BENEFITS

sticks quickly, durable, for various substrates





eOX-Spot

TECHNICAL SPECIFICATION	
Luminous flux of 1.150 Luthe projector	men
Luminous duration35.000	hours
Input Voltage	220 – 240 V AC, 50 / 60 Hz
Ambient temperature-30	°C to +35 °C

DESIGN

Steel, Aluminium, powder coated, active cooling

BENEFITS

High-Power-LED, quickly interchangeable motifs, use on wall and ceiling

eOX-Station

TECHNICAL SPECIFICATI	ON
Voltage240 VDC	
SensorsMagnetic Hall Ser	isors
Reaction time< 1 Sek.	
Maximum number of 120 tracks	

DESIGN

Compatible with Lean Dollies

BENEFITS

FiFo station digitally enhanced, pick-by-light, calculation of the FiFo-Logic, input and output detection

MAKE THE NEXT SMART MOVE IN LOGISTICS



PRODUCTIVITY INCREASED BY UP TO 55%

3-4 TIMES LESS MANUAL HANDLING OPERATIONS PER TOTE





















