

81155

Machine shoes, zinc-plated design

Design

Machine shoes ensure the stability of machines and isolate vibrations in two respects:

1. They isolate the vibrations generated by a machine from the environment
2. They isolate precision machines against externally generated vibrations

Advantages:

You achieve a higher workpiece quality.

They reduce maintenance and repair costs, since premature wear caused by vibrations is reduced.

Applications

For presses, injection moulding machines, lathes, milling machines, saws and other machines.

How to select the right machine shoe:

1. Determine the weight of the machine.

2. Divide the weight of the machine by the number of mounting holes. Determine the maximum load per machine shoe.
3. The table below shows the corresponding sizes of the machine shoes.

Note:

Sizes 4 and 5 are especially suitable for machines in which large vertical and horizontal forces are generated, e.g. injection moulding machines and presses.

| Size | 81155 | ... |
|------|-------|-----|
| 1 | | 101 |
| 2 | | 102 |
| 3 | | 103 |
| 4 | | 104 |
| 5 | | 105 |



81155

| Art. no. | 81155 101 | 81155 102 | 81155 103 | 81155 104 | 81155 105 |
|-----------------------------------|--------------|-------------|-------------|-------------|-------------|
| Sizes | 1 | 2 | 3 | 4 | 5 |
| Diameter (mm) | 80 | 120 | 160 | 160 | 200 |
| Height incl. levelling plate (mm) | 41 | 49 | 59 | 59 | 69 |
| Level compensation (mm) | 18 | 18 | 25 | 25 | 25 |
| Stud bolt | M12x1.25x120 | M16x1.5x120 | M20x1.5x170 | M20x1.5x170 | M20x1.5x170 |
| Load per machine shoe (kg) | 50 - 500 | 400 - 1000 | 800 - 2500 | 1500 - 4000 | 3000 - 5500 |
| Load per machine shoe (kg) | | | | | |
| For presses | | | | | |
| with stroke count/min. 160 - 200 | 50 - 120 | 120 - 250 | 250 - 800 | 750 - 1400 | 1300 - 2400 |
| with stroke count/min. 125 - 160 | 60 - 140 | 120 - 350 | 350 - 1100 | 950 - 2100 | 1950 - 3500 |
| with stroke count/min. < 125 | 70 - 200 | 200 - 400 | 400 - 1400 | 1600 - 2800 | 2700 - 4000 |
| For injection moulding machines | Max. 180 | Max. 360 | Max. 990 | Max. 2475 | Max. 3735 |

81140

Hydraulic lifting devices



Design

Test mark UVV7-BGV8 for loads from 5 to 30 t. All hydraulic lifting devices can also be operated with an external hydraulic hand pump.

Applications

Safe lifting, easy to transport even in the tightest spaces.

Note:

All variants are also deliverable in a nickel-plated version.



81140 202

| Technical data: | Type | V5 | V10 | V15 | V20 |
|----------------------------------|------------|-----------------|-----------------|-----------------|-----------------|
| Art. no. | | 81140 201 | 81140 202 | 81140 204 | 81140 203 |
| Full load capacity | t | 5 | 10 | 15 | 20 |
| Working pressure | bar | 520 | 520 | 520 | 520 |
| Lowest application height | | | | | |
| with toe | mm | 15 | 20 | 25 | 30 |
| Lifting height | mm | 140 | 160 | 160 | 160 |
| Adjustability of the lifting toe | 3 x | 4 x | 4 x | 3 x | |
| External dimensions L x W x H | mm | 285 x 235 x 252 | 320 x 240 x 310 | 353 x 278 x 310 | 455 x 320 x 325 |
| Tare weight with oil filling | approx. kg | 21 | 32 | 53 | 72 |

81140 201 + 81151 102



| Type | 81140 | ... |
|------|-------|-----|
| V5 | | 201 |
| V10 | | 202 |
| V15 | | 204 |
| V20 | | 203 |

**Design**

2 versions of each transport chassis are available:
Type F with transversally adjustable frames and type L as a steerable chassis.

Applications

A transporting unit always consists of one model each of the F-type and L-type series.
 E.g. total load of F 3 and L 3 = 6 t.

81150**Design**

Type F Adjustable transport chassis.

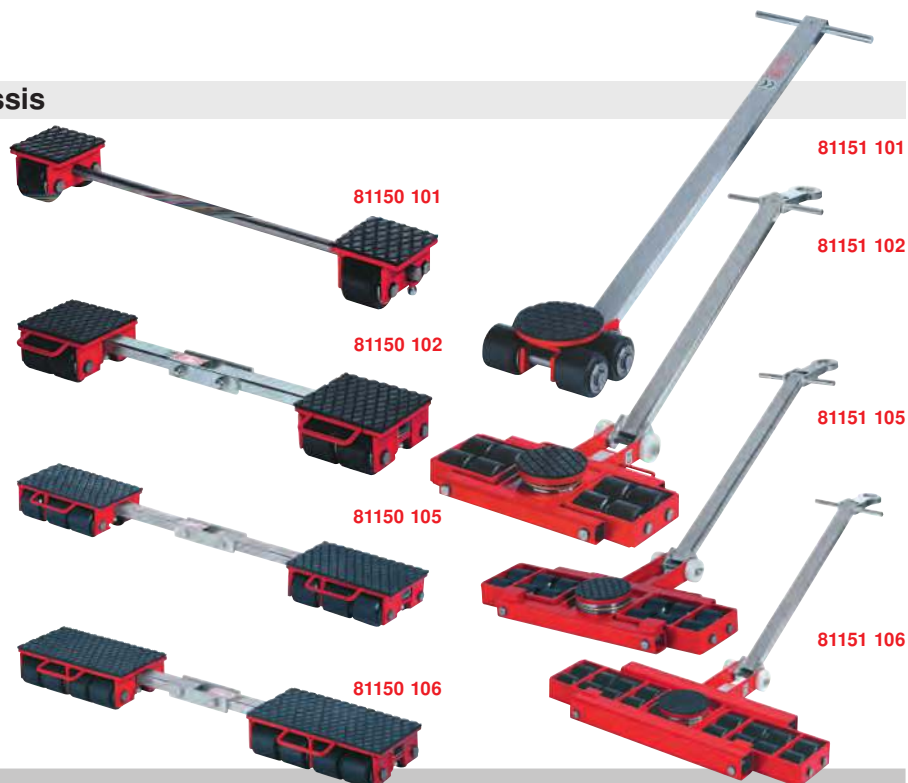
The frames of the F-Type series should always be used with connecting rods.

81151**Design**

Type L Steerable transport chassis.

Note:

Variants with a total weight of 6 t to 200 t and special designs deliverable on request. Also deliverable in nickel-plated version for clean rooms.

**Technical data:**

| Art. no. | 81150 101 | 81150 102 | 81150 105 | 81150 106 | 81151 101 | 81151 102 | 81151 105 | 81151 106 |
|---|------------------------|------------------------|------------------------|-------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Type | F 3, adjustable | F 6, adjustable | F 9, adjustable | F 12, adjustable | L 3, steerable | L 6, steerable | L 9, steerable | L 12, steerable |
| Load t | 3 | 6 | 9 | 12 | 3 | 6 | 9 | 12 |
| Load rollers 85 x 85 mm | 4 | 8 | 12 | 16 | 4 | 8 | 12 | 16 |
| Installation height of load rollers mm | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Contact surface per frame with non-slip waffle rubber pad mm | 150 x 150 | 200 x 220 | 200 x 320 | 200 x 407 | - | - | - | - |
| Spacer rod, adjustable mm | 300 - 1000 | 640 - 1030 | 840 - 1230 | 1014 - 1430 | - | - | - | - |
| Turntable with axial thrust bearing, swivelling, steering angle 180° mm Ø | - | - | - | - | 170 | 170 | 170 | 170 |
| Steering rod mm | - | - | - | - | 950 | 1080 | 1080 | 1080 |
| | - | - | - | - | - | With pulling eye | With pulling eye | With pulling eye |
| Length x width mm | - | - | - | - | 270 x 230 | 610 x 520 | 583 x 840 | 620 x 1030 |
| Weight kg | 15 | 30 | 43 | 52 | 12 | 41 | 59 | 80 |

| Type | Load t | Adjustable | | Steerable | |
|------|--------|------------|-----|-----------|-----|
| | | 81150 | ... | 81151 | ... |
| F 3 | 3 | | 101 | | |
| F 6 | 6 | | 102 | | |
| F 9 | 9 | | 105 | | |
| F 12 | 12 | | 106 | | |
| L 3 | 3 | | | | 101 |
| L 6 | 6 | | | | 102 |
| L 9 | 9 | | | | 105 |
| L 12 | 12 | | | | 106 |



Figures show
81150 102 and
81151 102

**81144****Design**

Can be rotated 360°. Contact surface of the turntable with non-slip waffle rubber pad Ø 170 mm.

Applications Particularly suitable for transporting machines and heavy goods that have to be manoeuvred into or out of narrow gaps. Loads can be moved and rotated in all directions. Multiple chassis can be used simultaneously depending on the contact point on the machine and weight.

Note:

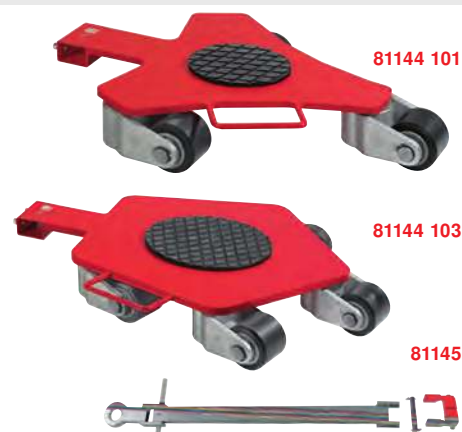
All variants are also deliverable in a nickel-plated version.

81145**Design**

Steering rod with pulling eye including coupling.
 Length 1,080 mm.

Note:

Connecting rods with lengths of 1500 mm and 2000 mm deliverable on request.



| Type | Load per frame t | Number of castors/ Ø mm | Installation height mm | Dimensions L x W x H mm | Weight approx. kg | Chassis | | Steering rod | |
|------|------------------|-------------------------|------------------------|-------------------------|-------------------|---------|-----|--------------|-----|
| | | | | | | 81144 | ... | 81145 | ... |
| RL 2 | 2 | 3 pieces/85 x 85 | 110 | 685 x 515 x 110 | 30 | | 101 | | 101 |
| RL 4 | 4 | 5 pieces/85 x 85 | 110 | 760 x 560 x 110 | 55 | | 103 | | 101 |

81304

CLAX folding trolley

81304 101

Design

- Handy and versatile
- Can be folded/unfolded at the touch of a button on the handle
- Wheels can be removed in a few steps and stowed in the floor platform to save space
- Upper platform can be folded up to transport bulky goods
- Strong aluminium and plastic structure
- Wheels: 2 steering rollers and 2 fixed castors with locking brake, solid rubber tyres on plastic rim
- Includes matching folding box with 46 litre capacity
- Colour: grey/green

81304 102

Folding box, individual

Applications

For CLAX folding trolley, art. no. 81304 101.

81304 102



81304 101



| Total load kg | Load of upper/lower platform kg | Overall dimensions L x W x H mm | Dimensions folded mm | Folding box dimensions L x W x H mm | Folding trolley 81304 | Folding box 81304 |
|------------------|------------------------------------|------------------------------------|-------------------------|--|--------------------------|----------------------|
| 60 | 20/40 | 550 x 890 x 1025 | 470 x 670 x 110 | 530 x 370 x 270 | 101 | 102 |

81305

Transport trolleys

fetra

Transportgeräte

Design

- First-class processed aluminium steel-tube construction
- Aluminium base plate
- High-quality plastic parts
- Hubs with roller bearing
- Hand grip made of comfortable, non-slip material
- Elastic tensioning strap and clamping bar for securing the transported goods
- Base plate and wheels foldable in one move
- Retractable grip
- Ready for use in just a few seconds

81305 200-201

Design

With blue-grey polymer tyres (trackless).

81305 202

Design

With pneumatic tyres.



Easy transport



Quick setup

81305 200



81305 201



81305 202



| Load capacity kg | Height mm | Base-plate length mm | Base-plate width mm | Total width mm | Folded H x W x D mm | Polymer tyres mm | Pneumatic tyres mm | Weight approx. kg | 81305 | ... |
|---------------------|--------------|-------------------------|------------------------|-------------------|------------------------|---------------------|-----------------------|----------------------|-------|-----|
| 50 | 1030 | 300 | 385 | 390 | 595 x 390 x 50 | 127 x 30 | - | 3.2 | 200 | |
| 125 | 1090 | 320 | 480 | 488 | 765 x 488 x 64 | 170 x 35 | - | 5.2 | 201 | |
| 250 | 1190 | 450 | 595 | 660 | 855 x 660 x 135 | - | 220 x 70 | 12.6 | 202 | |



81310

Steel-tube trolleys/aluminium trolley



Transportgeräte

81310 201-403 + 501

Steel-tube trolleys

Design

- Handy steel-tube trolley with sheet-steel base plate
- Sturdy welded construction
- Powder-coated
- Safety handles
- Sheet-steel base plate can be screwed on and, thus, replaced
- Wheels with pneumatic tyres on plastic rims
- Hubs with roller bearings
- Delivered disassembled
- Art. no. 81310 401 and 501 with replaceable plastic skids

81310 405

Aluminium trolley

Design

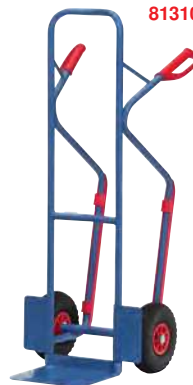
- Aluminium-tube trolley with aluminium base plate
- Very light and manageable
- Cleanly welded with natural finish
- Safety handles
- With replaceable plastic skids
- Aluminium-sheet base plate can be screwed on and, thus, replaced
- Wheels with pneumatic tyres on plastic rims
- Hubs with roller bearings
- Delivered disassembled



81310 403



81310 201



81310 401



81310 501



81310 405

| Load capacity kg | Height mm | Base plate L x W mm | Total width mm | Pneumatic tyres mm | Tare weight kg | RAL 5007 | | RAL 7016 | | Aluminium | |
|---------------------|--------------|------------------------|-------------------|-----------------------|-------------------|----------|-----|----------|-----|-----------|-----|
| | | | | | | 81310 | ... | 81310 | ... | 81310 | ... |
| 200 | 1150 | 250 x 320 | 570 | 260 x 85 | 11 | | 403 | | | | |
| 250 | 1150 | 150 x 400 | 590 | 260 x 85 | 12 | | 201 | | | | |
| 300 | 1300 | 250 x 320 | 580 | 260 x 85 | 15 | | 401 | | | 501 NEW | |
| 200 | 1300 | 250 x 320 | 590 | 260 x 85 | 9 | | | | | | 405 |

81312

Aluminium stairway trolley/stairway trolley



Transportgeräte

Applications

For the safe transport of round goods such as rolls, cans, buckets etc.

81312 200

Aluminium stairway trolley

Design

- Aluminium-tube with aluminium base plate
- Handy welded construction
- Safety handles
- Delivered disassembled
- 2 three-spoke wheel centres
- Each with 3 TPE wheels
- Hub with ball bearing
- Upper frame and cross braces bent

81312 100

Steel-tube stairway trolley

Design

- Sturdy welded construction
- Sheet-steel base plate
- Powder-coated, blue RAL 5007
- Safety handles
- Delivered disassembled
- 2 three-spoke wheel centres
- Each with 3 TPE wheels
- Hub with ball bearing
- Upper frame and cross braces bent

81312 103

Carry handle

Design

- 2 tubular handles
- Suspension hook
- Cross braces
- Welded
- Powder-coated, blue RAL 5007

Applications

For stairway trolleys, art. no. 81312 100 and 200.

81312 104

Star locking device

Applications

Attachment kit for stairway trolleys, art. no. 81312 100 and 200.
For problem-free trips on 2 wheels on even surfaces.
Easy self-assembly.



81312 200



81312 100



81312 103



81312 104

| | Load capacity kg | Height x width mm | Base plate W x L mm | TPE tyres mm | Tare weight kg | Aluminium | | RAL 5007 | |
|-----------------------------|---------------------|----------------------|------------------------|-----------------|-------------------|-----------|---------|----------|-----|
| | | | | | | 81312 | ... | 81312 | ... |
| Aluminium stairway trolley | 200 | 1300 x 590 | 320 x 250 | 160 x 40 | 14.0 | | 200 NEW | | |
| Steel-tube stairway trolley | 200 | 1300 x 590 | 320 x 250 | 160 x 40 | 18.0 | | | | 100 |
| Carry handle | 350 | 850 x 570 | - | - | 3.2 | | | | 103 |
| Star locking device | - | - | - | - | 2.0 | | | | 104 |

81315

Steel bottle carts

fetra

Transportgeräte

Design

- Solid rubber tyres
- Tubular steel construction
- Powder-coated, blue RAL 5007
- Bottle holders with chain lock
- Wheels with roller bearings

81315 201



81315 202



81315 203



81315 204



| Number of bottles x size Litres | Ø mm | Wheel Ø x width mm | Tyres | Weight approx. kg | 81315 | ... |
|------------------------------------|-----------|-----------------------|--------------|----------------------|-------|-----|
| 2 x 10 | 140 | 200 x 50 | Solid rubber | 6.0 | | 201 |
| 2 x 20 | 204 | 250 x 60 | Solid rubber | 20.0 | | 202 |
| 2 x 40 - 50 | 204 - 229 | 400 x 80 | Solid rubber | 30.0 | | 203 |
| 1 x 20 - 50 | 204 - 229 | 250 x 60 | Solid rubber | 12.5 | | 204 |

81400 - 81406

Sheet-steel steering rollers and fixed castors with screw-on plate

Blickle

we innovate mobility

81400

Sheet-steel steering rollers

Design

- Screw-on plate
- „stop-fix“ locking device
- **Wheel with standard solid rubber tyre**
- Sheet-steel rim
- **Electrically conductive** (art. no. 81400 202-205)

Housing:

- Pressed from sheet steel
- Twin ball bearings in rotating assembly
- Special shape of the floor panel and spherical washer protects the ball bearings
- The special dynamic Blickle riveting of the rotating assembly ensures that the rotating assembly has minimal play, runs smoothly and has a long service life thanks to the cold hardening of the ball tracks
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

81401

Sheet-steel fixed castors

Design

- Screw-on plate
- **Wheel with standard solid rubber tyre**
- Sheet-steel rim
- **Electrically conductive** (art. no. 81401 202-205)

Housing:

- Pressed from sheet steel
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

Solid rubber

| | |
|--------------------|-----------------|
| Rolling resistance | Satisfactory |
| Rolling noise | Very good |
| Ground protection | Very good |
| Surface hardness | 80° Shore A |
| Bearing type | Roller bearing |
| Tread colour | Black |
| Wheel body colour | Blue-passivated |



Electrically conductive

| Wheel | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81400 | ... | 81400 | ... |
|--------------|---------------|-------------------|---------------------|--------------------|------------------|-------|-----|-------|---------|
| Solid rubber | 100 | 30.0 | 70 | 125 | 100 x 85 | | 102 | | 202 NEW |
| Solid rubber | 125 | 37.5 | 100 | 150 | 100 x 85 | | 103 | | 203 NEW |
| Solid rubber | 160 | 40.0 | 135 | 195 | 140 x 110 | | 104 | | 204 NEW |
| Solid rubber | 200 | 50.0 | 205 | 235 | 140 x 110 | | 105 | | 205 NEW |



Electrically conductive

| Wheel | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81401 | ... | 81401 | ... |
|--------------|---------------|-------------------|---------------------|--------------------|------------------|-------|-----|-------|---------|
| Solid rubber | 100 | 30.0 | 70 | 125 | 100 x 85 | | 102 | | 202 NEW |
| Solid rubber | 125 | 37.5 | 100 | 150 | 100 x 85 | | 103 | | 203 NEW |
| Solid rubber | 160 | 40.0 | 135 | 195 | 140 x 110 | | 104 | | 204 NEW |
| Solid rubber | 200 | 50.0 | 205 | 235 | 140 x 110 | | 105 | | 205 NEW |

Continued



81403

Sheet-steel steering rollers**Design**

- Screw-on plate
- „stop-fix“ locking device
- **Wheel made of high-quality, break-resistant polyamide 6**

Housing:

- Pressed from sheet steel
- Twin ball bearings in rotating assembly
- Special shape of the floor panel and spherical washer protects the ball bearings
- The special dynamic Blickle riveting of the rotating assembly ensures that the rotating assembly has minimal play, runs smoothly and has a long service life thanks to the cold hardening of the ball tracks
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

81404

Sheet-steel fixed castors**Design**

- Medium-duty design
- Screw-on plate
- **Wheel made of high-quality, break-resistant polyamide 6**

Housing:

- Pressed from sheet steel
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

Polyamide

| | |
|--------------------|---------------|
| Rolling resistance | Excellent |
| Rolling noise | Satisfactory |
| Ground protection | Satisfactory |
| Surface hardness | 70° Shore D |
| Bearing type | Plain bearing |
| Tread colour | Natural white |
| Wheel body colour | Natural white |



Steering roller



Fixed castor

| Wheel | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81403 | ... | 81404 | ... |
|-----------|---------------|-------------------|---------------------|--------------------|------------------|-------|-----|-------|-----|
| Polyamide | 100 | 37 | 150 | 125 | 100 x 85 | | 102 | | 102 |
| Polyamide | 125 | 40 | 150 | 150 | 100 x 85 | | 103 | | 103 |
| Polyamide | 160 | 50 | 300 | 195 | 140 x 110 | | 104 | | 104 |
| Polyamide | 200 | 50 | 300 | 235 | 140 x 110 | | 105 | | 105 |

NEW

81407

Apparatus steering rollers**Design**

- Bolt hole
- **Plastic „stop-fix“ locking device**
(art. no. 81407 101 and 201)
- **Wheel made of high-quality, thermoplastic rubber elastomer (TPE)**
- Substance-to-substance, inseparable bond with the wheel body
- Wheel body made of high-quality, break-resistant polypropylene
- **Electrically conductive, trackless**
(art. no. 81407 201-202)

Housing:

- Pressed from sheet steel
- Twin ball bearings in rotating assembly
- Special shape of the floor panel and spherical washer protects the ball bearings
- The special dynamic Blickle riveting of the rotating assembly ensures that the rotating assembly has minimal play, runs smoothly and has a long service life thanks to the cold hardening of the ball tracks

- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

81408

Apparatus fixed castors**Design**

- Bolt hole
- **Wheel made of high-quality, thermoplastic rubber elastomer (TPE)**
- Substance-to-substance, inseparable bond with the wheel body
- Wheel body made of high-quality, break-resistant polypropylene
- **Electrically conductive, trackless**
(art. no. 81408 201-202)

Housing:

- Pressed from sheet steel
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

Rubber (TPE)

| | |
|--------------------|----------------|
| Rolling resistance | Very good |
| Rolling noise | Good |
| Ground protection | Good |
| Surface hardness | 85° Shore A |
| Bearing type | Plain bearing |
| Tread colour | Grey/Dark grey |
| Wheel body colour | Grey |

**Steering roller****Electrically conductive**

| Wheel | Locking device stop-fix | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81407 | ... | 81407 | ... |
|--------------|----------------------------|---------------|-------------------|---------------------|--------------------|------------------|-------|-----|-------|-----|
| Rubber (TPE) | Yes | 50 | 19 | 50 | 69 | 43 | | 101 | | |
| Rubber (TPE) | Yes | 50 | 19 | 30 | 69 | 43 | | | | 201 |
| Rubber (TPE) | No | 75 | 25 | 75 | 98 | 43 | | 102 | | |
| Rubber (TPE) | No | 75 | 25 | 50 | 98 | 43 | | | | 202 |

Fixed castor**Electrically conductive**

| Wheel | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81408 | ... | 81408 | ... |
|--------------|---------------|-------------------|---------------------|--------------------|------------------|-------|-----|-------|-----|
| Rubber (TPE) | 50 | 19 | 50 | 69 | 43 | | 101 | | |
| Rubber (TPE) | 50 | 19 | 30 | 69 | 43 | | | | 201 |
| Rubber (TPE) | 75 | 25 | 75 | 98 | 43 | | 102 | | |
| Rubber (TPE) | 75 | 25 | 50 | 98 | 43 | | | | 202 |



81409 - 81410

Apparatus steering rollers and fixed castors with screw-on plate

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81409

Apparatus steering rollers

Design

- Screw-on plate
- **Plastic „stop-fix“ locking device**
(art. no. 81409 101 and 201)
- **Wheel made of high-quality, thermoplastic rubber elastomer (TPE)**
- Substance-to-substance, inseparable bond with the wheel body
- Wheel body made of high-quality, break-resistant polypropylene
- **Electrically conductive, trackless**
(art. no. 81409 201-202)

Housing:

- Pressed from sheet steel
- Twin ball bearings in rotating assembly
- Special shape of the floor panel and spherical washer protects the ball bearings
- The special dynamic Blickle riveting of the rotating assembly ensures that the rotating assembly has minimal play, runs smoothly and has a long service life thanks to the cold hardening of the ball tracks
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

81410

Apparatus fixed castors

Design

- Screw-on plate
- **Wheel made of high-quality, thermoplastic rubber elastomer (TPE)**
- Substance-to-substance, inseparable bond with the wheel body
- Wheel body made of high-quality, break-resistant polypropylene
- **Electrically conductive, trackless**
(art. no. 81410 201-202)

Housing:

- Pressed from sheet steel
- Bolted wheel axle
- Zinc-plated
- Blue-passivated
- Cr6-free

Rubber (TPE)

| | |
|--------------------|----------------|
| Rolling resistance | Very good |
| Rolling noise | Good |
| Ground protection | Good |
| Surface hardness | 85° Shore A |
| Bearing type | Plain bearing |
| Tread colour | Grey/Dark grey |
| Wheel body colour | Grey |



Steering roller

| Wheel | Locking device stop-fix | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81409 | ... | 81409 | ... |
|--------------|-------------------------|------------|----------------|------------------|-----------------|---------------|-------|-----|-------|-----|
| Rubber (TPE) | Yes | 50 | 19 | 50 | 71 | 60 x 60 | | 101 | | |
| Rubber (TPE) | Yes | 50 | 19 | 30 | 71 | 60 x 60 | | | | 201 |
| Rubber (TPE) | No | 75 | 25 | 75 | 100 | 60 x 60 | | 102 | | |
| Rubber (TPE) | No | 75 | 25 | 50 | 100 | 60 x 60 | | | | 202 |

Electrically conductive



Fixed castor

| Wheel | Wheel Ø mm | Wheel width mm | Load capacity kg | Total height mm | Plate size mm | 81410 | ... | 81410 | ... |
|--------------|------------|----------------|------------------|-----------------|---------------|-------|-----|-------|-----|
| Rubber (TPE) | 50 | 19 | 50 | 71 | 60 x 60 | | 101 | | |
| Rubber (TPE) | 50 | 19 | 30 | 71 | 60 x 60 | | | | 201 |
| Rubber (TPE) | 75 | 25 | 75 | 100 | 60 x 60 | | 102 | | |
| Rubber (TPE) | 75 | 25 | 50 | 100 | 60 x 60 | | | | 202 |

Electrically conductive

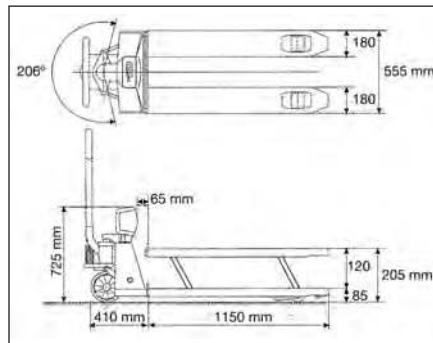
81508

Hand pallet truck with scales

KERN

Design

- Steering wheels: Solid rubber on aluminium rims
- Tandem tyres to drive over thresholds and obstacles more easily
- Evaluation unit: Plastic, dust and splash protection IP 65
- PRE-TARE function for manual subtraction of a known container weight, useful for fill level checks
- Swivel range of 206°
- Load forks: Dust and splash protection IP 67, short-term use in wet areas possible
- Large LCD, digit height of 28 mm
- Permissible ambient temperature range -10°C/+40°C

**NEW**

81508



| Load kg | Fork length mm | Carrying width mm | Lifting height mm | 81508 | ... |
|---------|----------------|-------------------|-------------------|-------|-----|
| 2000 | 1150 | 555 | 85 - 205 | | 601 |

81511

Hand pallet truck

NEW

fetra

Transportgeräte

Design

- Frame and forks in torsion-resistant shell construction
- Yellow powder coating, black tiller
- Hydraulic hand pump, maintenance-free mounting
- Control lever for the following functions: Lifting - Moving - Lowering
- Strong tubular steel tiller with counter bearing for pushing operation
- Steering deflection 2 x 100°

81511 301

81511 302



| Load kg | Steering wheels | Steering wheels wheel Ø x width mm | Tandem fork rollers wheel Ø x width mm | Fork length mm | Carrying width mm | Lifting height min.-max. mm | Tare weight kg | 81511 | ... |
|---------|-----------------|------------------------------------|--|----------------|-------------------|-----------------------------|----------------|-------|-----|
| 2500 | Polyurethane | 200 x 50 | 80 x 70 | 1150 | 540 | 85 - 200 | 76 | | 301 |
| 2500 | Solid rubber | 200 x 50 | 80 x 70 | 1150 | 540 | 85 - 200 | 76 | | 302 |

81517

Scissor pallet truck

Design

- Load of 1000 kg with evenly distributed load
- Robust, durable welded steel construction
- Overload protection as standard
- Automatic stabilisers safely support the pallet truck in raised position
- 2 lifting speeds: quick for light loads, slow for heavy loads
- High-quality wheels: Steering wheels and scissor rollers with polyurethane tyres
- Yellow paintwork, black tiller

81517



| Load kg | Max. lifting height mm | Min. lifting height mm | Fork length mm | Fork width mm | Carrying width mm | Steering rollers mm | Scissors rollers mm | Tare weight kg | 81517 | ... |
|---------|------------------------|------------------------|----------------|---------------|-------------------|---------------------|---------------------|----------------|-------|-----|
| 1000 | 800 | 85 | 1150 | 163 | 540 | 180 x 50 | 75 x 50 | 118 | | 201 |

81512

High-lift truck

Design

- Hydraulic high-lift truck

- Solid and durable, permanently welded steel construction
- One-hand operation via safety tiller
- Lifting/Neutral/Lowering triple function in the handle
- Additional foot pedal to raise the forks without load
- Wheels with polyurethane tyres

- Both steering rollers with locking devices
- High-quality yellow and black powder coating

Applications

For easy work with pallets and bins.

Note:

Optional loading platform is deliverable as an accessory.

81512 101



81512 102



81512 103



| Art. no. | | 81512 101 | 81512 102 | 81512 103 |
|---------------------------------|--------------|-----------|-----------|-------------|
| Load | kg | 500 | 1000 | 1000 |
| Distance from centre of gravity | mm | 600 | 600 | 600 |
| Lifting height | mm | 1000 | 1600 | 2500 |
| Lowered height | mm | 90 | 90 | 90 |
| Lift | mm | 910 | 1510 | 2410 |
| Overall height | mm | 1490 | 2080 | * 1838/2925 |
| Fork length | mm | 1150 | 1150 | 1150 |
| Carrying width | mm | 550 | 550 | 580 |
| Fork width | mm | 170 | 170 | 170 |
| Fork profile height | mm | 61 | 61 | 61 |
| Device length | mm | 1705 | 1705 | 1705 |
| Device width | mm | 755 | 755 | 860 |
| Turning radius | mm | 1380 | 1380 | 1380 |
| Min. aisle width | mm | 1945 | 1945 | 1945 |
| Wheel base | mm | 1240 | 1240 | 1240 |
| Steering rollers | Ø x width mm | 150 x 40 | 150 x 40 | 150 x 40 |
| Tandem fork rollers | Ø x width mm | 82 x 60 | 82 x 60 | 82 x 60 |
| Lift/pump action | mm | 25 | 25 | 25 |
| Weight | kg | 185 | 210 | 286 |

* Telescopic mast

| Lifting height mm | Load kg | 81512 | ... |
|-------------------|---------|-------|-----|
| 1000 | 500 | | 101 |
| 1600 | 1000 | | 102 |
| 2500 | 1000 | | 103 |

Lifting tables

81526

HTH hydraulic handling lifting tables



Design

- Height-adjustable platform
- Single-scissor construction for evenly distributed loads
- Controller between the scissors
- Operated via pendant station
- Maintenance supports
- Circumferential contact strip
- Line-break safety device
- Lowering brake valve
- Operating voltage of 400V - 50 Hz
- Indoor ambient temperature range of 0°C to +40°C
- DIN EN 1570-1
- EC Machinery Directive 2006/42/EC

Advantage

- Ergonomic workstations

Applications

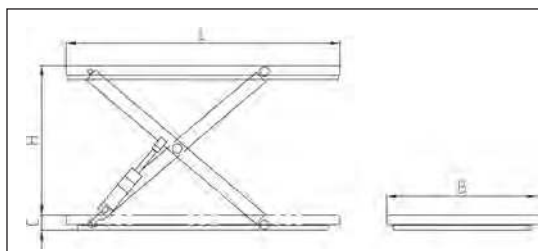
For assembly, packaging and maintenance work.
Indoor operation.

Quality

Smooth, sheet-steel platform.



81526



| Model | Lifting load kg | Lifting height H mm | Platform L x W mm | Overall height C mm | Lifting time sec. | Motor output kW | Weight approx. kg | 81526 | ... |
|------------|--------------------|------------------------|----------------------|------------------------|----------------------|--------------------|----------------------|-------|-----|
| HTH 5-820 | 500 | 820 | 1300 x 800 | 190 | 15 | 0.75 | 160 | | 100 |
| HTH 10-820 | 1000 | 820 | 1300 x 800 | 190 | 25 | 0.75 | 220 | | 101 |
| HTH 20-820 | 2000 | 820 | 1300 x 800 | 190 | 40 | 0.75 | 280 | | 102 |
| HTH 30-800 | 3000 | 800 | 1300 x 800 | 220 | 26 | 1.50 | 320 | | 103 |

81520

Hand-operated lifting table trolleys

Design

- Pump action via foot lever
- Lowering via handle on the push handle
- High-quality polyurethane tyres as standard
- 2 steering rollers with locking device and 2 fixed castors
- Wheel Ø 125 mm, wheel width 35 mm
- Paintwork: yellow and black

Applications

For the internal transportation of loads.

81520 100



81520 101-102



81520 103



| Version | Load kg | Platform L X W mm | Retracted height mm | Extended height mm | Max. number of pedal movements | Tare weight kg | 81520 | ... |
|----------------|------------|----------------------|------------------------|-----------------------|-----------------------------------|-------------------|-------|-----|
| Single scissor | 150 | 740 x 450 | 225 | 740 | < 25 | 44 | | 100 |
| Single scissor | 500 | 855 x 500 | 340 | 900 | < 45 | 87 | | 101 |
| Single scissor | 800 | 1000 x 510 | 420 | 1000 | < 70 | 115 | | 102 |
| Double scissor | 350 | 910 x 500 | 350 | 1300 | < 60 | 105 | | 103 |



81303 101

xetto® mobile lifting table**Design**

xetto® moves, lifts and loads cargo and goes everywhere you go

xetto® moves

- With xetto®, you can easily transport up to 250 kilogrammes of cargo, without physical strain
- Thanks to its 160 mm rollers, it easily overcomes thresholds and uneven terrain as high as 25 mm
- The system negotiates vehicle sills, steps and comparable obstacles of up to 800 mm
- Measuring 1175 by 800 mm, the load area offers space for most things that might be transported as part of the daily routine
- Locking brakes prevent it from rolling away
- Special xetto® accessories optimise usage possibilities, provide protection against dirt and moisture and ensure cargo is transported safely

xetto® lifts

- The xetto® lifts heavy equipment and materials up to a height of more than one metre
- This allows tools and materials to be used ergonomically at eye level and working height with ease
- This turns the xetto® into a mobile assembly aid or a height-adjustable workbench at the job site

xetto® loads

- The core of the xetto® is the powerful micro hydraulic and kinematic system
- For loading, the xetto® lifts its load to a maximum sill height of 800 mm and into the vehicle, „climbs“ in behind it and stows itself beneath the cargo
- Unloading is equally simple: xetto® extends out of the vehicle and creates a solid footing for itself
- This allows the cargo to be conveniently unloaded and moved at the destination

...and goes where you go



81303 101

| Technical data: | xetto® mobile lifting table | |
|-----------------|-----------------------------|-----------------------|
| Maximum payload | kg | 250 |
| Lifting time | approx. sec. | 20 |
| Loading area | mm | 1175 x 800 |
| Sill height | max. mm | 800 |
| Weight | approx. kg | 95 |
| Drive unit | Li-Ion battery 14.4V/6 Ah | hydraulic, electronic |

81303 102**Airline-style lashing strap**

Automatic lashing strap to easily and securely fix the load.

81303 103**Airline-style lashing strap with hook**

Automatic lashing strap to ensure xetto® is secured easily and safely in the vehicle.

81303 104**Charger, 230 V**

For charging the rechargeable xetto® battery using a power outlet.

81303 105**Car charger, 12-24 V**

For the 12-volt socket in the vehicle.

81303 106**Additional battery**

Original xetto® additional battery.

81303 107**Loading ramp**

For loading and unloading.

Aluminium ramp with side roll protection and carry handle.

81303 108**Support foot**

Enables the use of the xetto® as a mobile workbench.

81303 109**Loading bridge**

For loading and unloading with raised loading platform.

81303 110**Roll-off protection**

Prevents the load from rolling off sideways from the xetto®.

81303 111**Airline-style cord netting**

Secures cargo to prevent it from sliding and/or falling out of bins.

81303 112**Airline-style tarpaulin**

Protects the cargo against moisture and dirt.

81303 113**Edge protection**

For the uniform distribution of lashing forces.



81303 102

81303 103



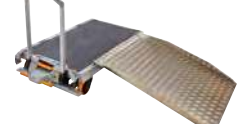
81303 104

81303 105



81303 106

81303 107



81303 108

81303 109



81303 110

81303 111



81303 112

81303 113



| 81303 | ... |
|-------------------------|-----|
| Mobile lifting table | 101 |
| Lashing strap | 102 |
| Lashing strap with hook | 103 |
| Charger 230 V | 104 |
| Car charger 12-24 V | 105 |

| 81303 | ... |
|---------------------|-----|
| Additional battery | 106 |
| Loading ramp | 107 |
| Support foot | 108 |
| Loading bridge | 109 |
| Roll-off protection | 110 |

| 81303 | ... |
|-----------------|-----|
| Cord netting | 111 |
| Tarpaulin | 112 |
| Edge protection | 113 |