



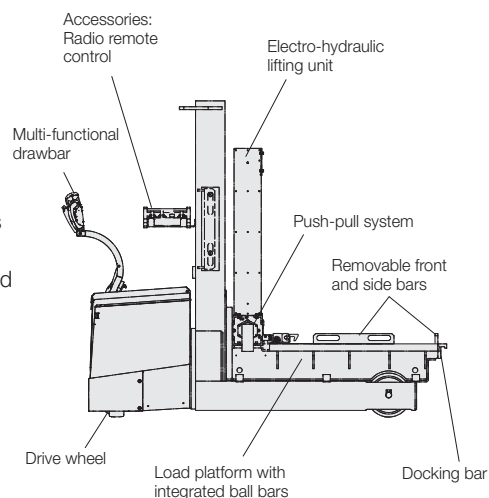
## Die Changing Carts RWA 2500/4000/6000

electrically movable, with electro-hydraulic lifting platform,  
push-pull system, max. load capacity 2,500, 4,000 or 6,000 kg



### Advantages

- Safe, non-destructive die transport of heavy dies
- Time-saving die change
- Integrated die changing table with hydraulic ball bars and push-pull system
- High degree of safety thanks to docking rails and lowerable ball bars
- Prevention of falling die thanks to inserted and secured front and side bars
- Simple and centralized operation with multi-functional drawbar
- Multi-function display on the drawbar
- Robust vehicle technology
- Modular design with standard drive



### Application

Die changing carts RWA 2500/4000/6000 are used for the transport and the change of heavy pressing and punching dies as well as injection and casting moulds.

### Description

The die changing cart RWT is an electrically driven walking and lifting cart, specifically equipped for the safe transport and change of dies.

The electro-hydraulic lifting platform is designed to function as a die changing table with integrated hydraulic ball bars and a push-pull system, which facilitate the automatic insertion of the dies onto the press table.

### Safety devices

Insertable front and side bars on the die changing table secure the die on all sides from falling during transport.

For transport, the centre of gravity of the load must be positioned in the centre of the cart and the lifting columns must be completely lowered.

During transport, the balls in the changing table are always lowered and the die is secured against slipping.

### Safety docking station

The docking bars on the changing table (included in delivery) and on the press table (accessory) ensure for precise locking of the die changing cart. Ball inserts can be lifted after successful docking to the press table.

### Versions

Die changing carts RWA are available with a maximum load capacity of 2,500, 4,000 or 6,000 kg and various equipment.

### Power supply

Power is supplied to the electric drive, the lifting platform and the ball bars via an installed 24 V DC battery with 240 Ah (2.5 t cart) / 345 Ah (4-6 t cart).

This battery can be completely charged with the supplied battery charger within 10 hours at 230 V and within 12 hours at 110 V.

### Push-pull system

The integrated push-pull system allows the user to automatically extend and retract the die at the push of a button without having to be in the danger zone. The dies are moved at a speed of 33 mm/s. Moving at creep speed enables precise positioning of the dies in the press table.

To load and unload the dies using the push-pull system, the dies must be fitted with die hooks (see accessories on page 3).

### Operation

The die changing cart RWA is operated entirely from the multi-functional drawbar.

- Steering by drawbar
- Rotary switch for continuous and sensitive driving (speed control)
- Toggle switch for reduced speed
- Push-button for driving with reduced speed for vertical drawbar position
- Tilting lever for sensitive lifting and lowering of the lifting platform
- Mushroom push-button for lifting/lowering balls
- Tilting lever for shifting dies
- Signal horn and key switch
- Main current safety switch (emergency stop)

### Multi-functional display

for display of

- Battery status and operating hours
- Maintenance intervals and error messages

### Accessories

see page 3

### Optional equipment upon request

see page 4

### Product selection

Configuration options at a glance  
see page 6

## Technical data

Max. die weight $F_g$	[kg]	2,500	4,000	6,000
Platform size, useable W × D	[mm]	1360 × 935	1360 × 935	1480 × 1145
Lifting mast		S5	S6	S8
Lifting range	[mm]	500–1850	500–1850	550–1850
Stroke of the ball bars	[mm]	2	2	2
Max. lifting force/bar	[kN]	16.5	16.5	16.5
Load capacity at the load centre of gravity	[kg]	2500	4000	6000
Load centre of gravity LSP	[mm]	400–600	400–575	500–750
Length base frame l1	[mm]	2214	2240	2511
Length to push-pull system l2	[mm]	1350	1375	1437
Length to lifting mast l3	[mm]	955	981	1042
Height h1	[mm]	2160	2160	2532
Drive-on height h2	[mm]	3185	3185	2860
Min. height platform h3	[mm]	500	500	550
Ground clearance h4	[mm]	45	45	52
Platform width b	[mm]	1400	1400	1520
Platform depth t	[mm]	1150	1150	1360
Track gauge s	[mm]	901	901	1100
Travel length w	[mm]	1400	1400	1500
Pull / push force F	[N]	2500	4000	6000
Wheel diameter	[mm]	250	300	200
Max. driving speed	[km/h]	5	5	5
Running performance at full load with 240 Ah battery	[h]	approx. 2.5	approx. 2	approx. 1.5
with 345 Ah battery	[h]		approx. 3.5	approx. 3
Empty weight*	[kg]	approx. 2250	approx. 2350	approx. 2600
Part no.		889132500	889134000	889136000

## Delivery

- Changing cart with built-in battery
- Battery charger
- Battery filling system Aquamatic  
Filling station with electric pump for fast filling of the batteries with water.
- Lifting platform with push-pull system and 6 installed ball bars
- Docking bar on the lifting platform
- Insertable side and front bars

## Versions as per customer's request

- Roller bars instead of ball bars
- 8 installed rollers or ball bars
- Individual ball or roller distance
- Individual dimensions of lifting platform

Please contact us.

## Accessories

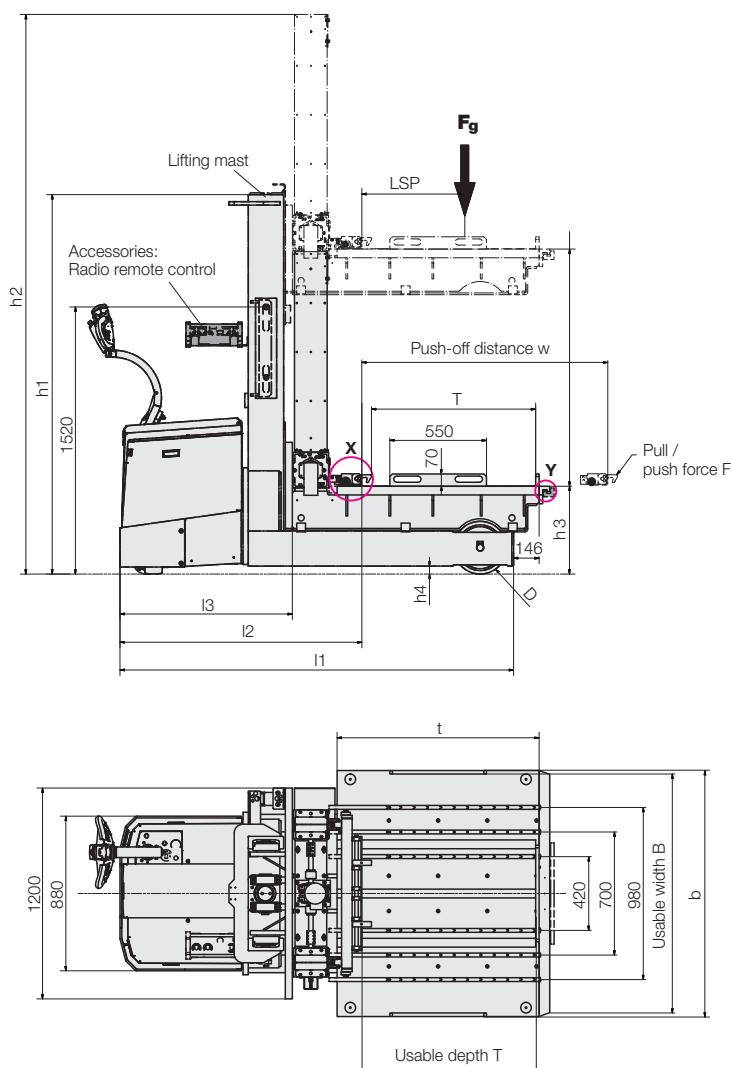
see page 3

## Optional equipment

see page 4

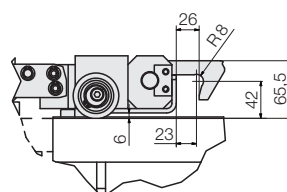
\* The empty weight depends on the battery  
(2.5 tonnes with 240 Ah battery, 4 / 6 tonnes with 345 Ah battery)

## Dimensions



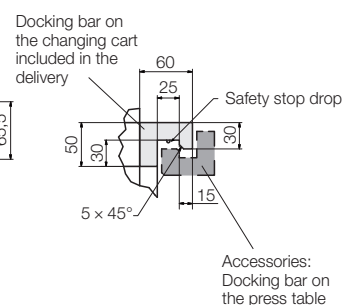
## Push-pull docking device

X (1:2)

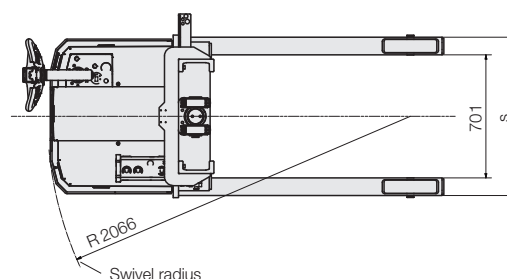


## Docking bar

Y (1:2)



## without lifting unit



### Docking bars

To achieve the exact insertion height on the press table, the lifting platform and press table are fitted with screwable docking bars. A docking bar on the changing cart is included in our delivery.

#### Docking bar

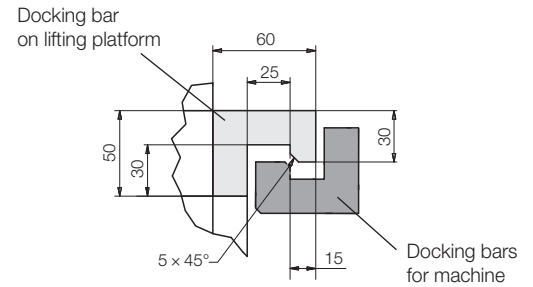
for fixing on the changing cart  
L = 1150 mm

**Part no. 889130022**

#### Docking bar on other machines/presses

for fixing at the machine/press  
L = 576 mm

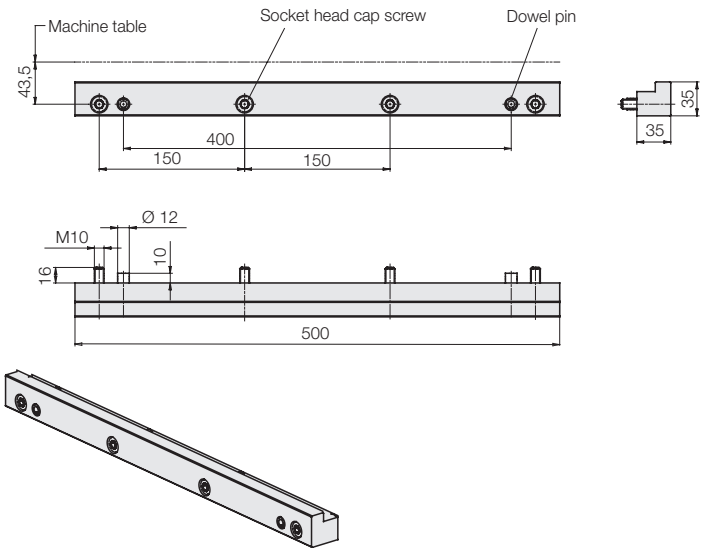
**Part no. 889130023**



#### Docking bar light

simplified docking bar for fixing at the machine/press  
L = 500 mm

**Part no. 789140003**



#### Protection plate for docking bar light

protects the surface of the machine/press from paint damage when docking  
L = 500 mm

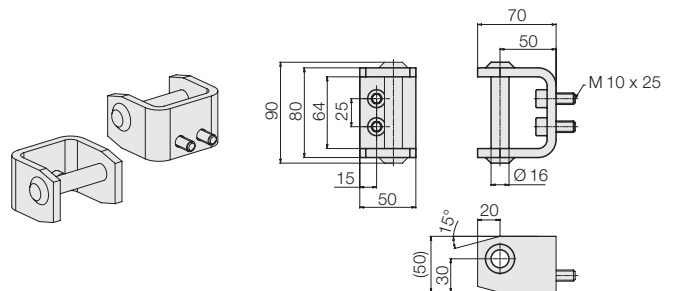
**On request**

### Die hook

for semi-automatic push-pull docking device

To load and unload the dies using the push-pull system, the dies must be fitted with a die hook.

**Part no. 718363000**



### Battery chargers

#### E 230 G 24/25 B50FP

Charging time: 10 h (at 240 Ah)  
Code class: IP 21

**Part no. 889130025**

#### E 110/230 G24/22 B50-FPO-WR

Charging time: 12 h (at 240 Ah)  
Code class: IP 21

**On request**

#### E 230 G24/35 B50 FP

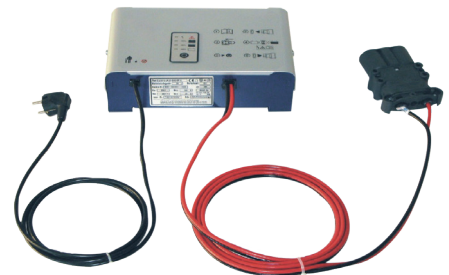
Charging time: 10 h (at 345 Ah)  
Code class: IP 21

**On request**

#### E 110 G24/40 B525 FP-WR

Charging time: 10 h  
Code class: IP 21

**On request**



## Optional Equipment upon Request

### Remote control

The die changing cart can be equipped with an additional cable or radio remote control as an option.

These allow the die changing cart to be operated from a safe distance and provide a better view of the docking point in complex docking situations.

With the functions:

- Lifting/lowering
- Driving forwards/backwards
- Chain forwards/backwards (optional)
- Hydraulic bar lifting
- Emergency stop

#### Cable remote control

(Mounting position see drawing on page 2)

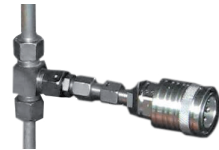


#### Radio remote control



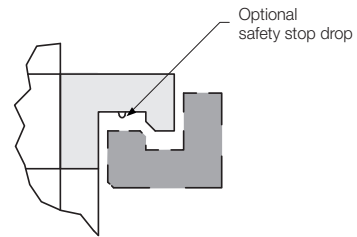
### Quick-disconnect coupler for external ball or roller bars

The die changing cart can be equipped with an additional hydraulic control circuit with quick-disconnect coupling (operating pressure 80 bar) as an option for the automatic operation of the hydraulic ball or roller bars in the press table.



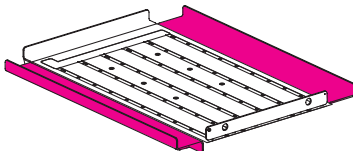
### Safety stop drop in the docking bar

The docking bar of the die changing cart can be equipped with a belt switch as an option. This switch prevents further lowering once the docking process is complete and serves as an additional safety precaution to prevent damage to the press/rack system/die changing cart.

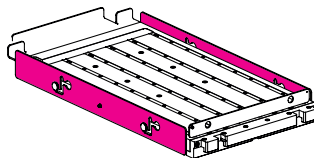


### Safety bars for changing tables

**Widened lateral die guide** facilitates the centric mounting of extra-wide dies

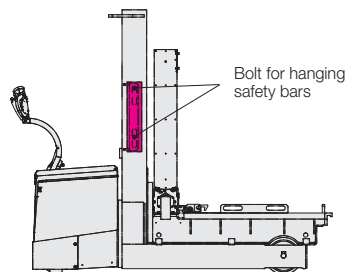


**Lateral separator plates** can be lowered for dies that are larger than the platform



### Storage location for insertable safety bars

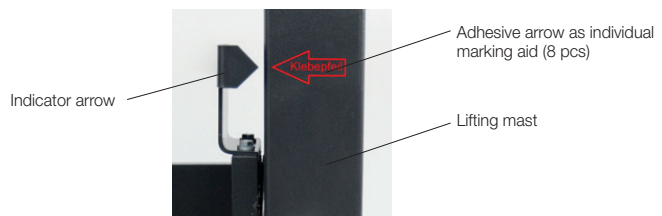
The die changing cart can be equipped with a storage location on the lifting mast for attaching the insertable safety bars as an option. To transport extra-wide dies, the insertable bars can be removed and attached to the side of the cart.



### Indicator arrows for position markings

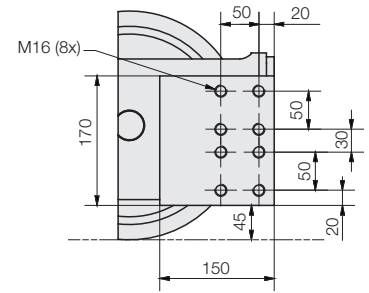
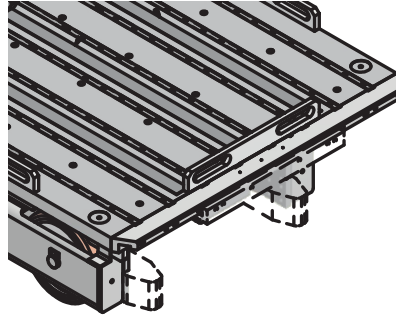
The die changing cart can be equipped with an indicator arrow as an option.

Eight adhesive arrows for position markings made by the customer allow individual die change heights to be marked on the lifting mast, thus reducing the time needed for height adjustment.



### Welded-on mounting plate for attaching a centring aid

The die changing cart is available with mounting plates as an option. They are welded to the base frame and allow the customer to attach a centring aid to the die changing cart.



## Product Selection

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### Configuration options

You can choose the desired version and equipment of the changing cart:

#### Changing carts

☐ RWA 2500

☐ RWA 4000

☐ RWA 6000

#### Equipment

☐ **Docking bars** for other machines/presses **Quantity requested:** \_\_\_\_\_

☐ **Docking bars, light version** for other machines/presses **Quantity requested:** \_\_\_\_\_

☐ **Protection plate for docking bars**

☐ **Die hook**

☐ **Cable remote control**

☐ **Radio remote control**

☐ **Quick-disconnect coupler for external ball/roller bars**

☐ **Safety stop drop in the docking bar of the changing cart**

☐ **Widened lateral die guide**

☐ **Lateral separator plates**

☐ **Storage location** for insertable safety bars

☐ **Indicator arrows** for position markings

☐ **Welded-on mounting plate** for centring aid provided by the customer