

# RUD TECDOS MECHANICAL ENGINEERING

PROFESSIONAL & PROGRESSIVE



Figures may differ from the standard version.

## POWERFUL IN ANY ENVIRONMENT

- ✓ Turning tools & moulds in seconds
- ✓ Easy, safe & ergonomic operation
- ✓ For different types and sizes of molds

# WELCOME TO THE WORLD OF RUD TECDOS MECHANICAL ENGINEERING

## 3 Machines – 3 Milestones – 3 Innovations

**Our goals: Process optimization, protection of your infrastructure as well as increase of occupational safety.**

The **RUD TECDOS TMB**, a novel 2-in-1 combination of workbench and turnover device, is the latest innovation from RUD. With the help of a cordless screwdriver, molds and tools weighing up to 2.5 tons can be efficiently turned and serviced on the RUD TECDOS TMB. The low weight and its compact form save much space and therefore allow simultaneously working on more than one mold at a time.

When it gets heavier, the **RUD TECDOS TM** can convince. Problem-free turning of tools, molds or voluminous machine parts weighing up to 64 tons is guaranteed by the RUD TECDOS TM series. In its professional and progressive generation, the innovative turning device offers the user a narrow table at an absolutely low working height and enables efficient and process-optimized turning at the push of a button and in less than one minute.

Additionally the **RUD TECDOS TS** offers the ideal complement for separating and closing injection molds, die casting molds and forming molds weighing several tons. At the push of a button, tools can be separated and closed quickly, safely and easily with the RUD TECDOS TS. Ergonomic working is guaranteed due to the ideal working height, as is simple spotting work.

RUD TECDOS mechanical engineering enables precise, uncomplicated and progressive work. The advantages are convincing! No danger to employees due to time-consuming turning maneuvers by hand or with the crane! No turning process lasting for hours! No time-consuming separation of mold forms! No wear and tear on your infrastructure!

## CAN BE USED IN A HUGE VARIETY OF MANUFACTURING SECTORS:

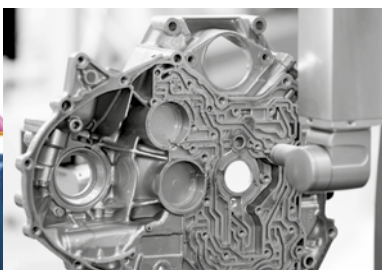
Injection moulding | Automotive | Tool-manufacturing | Aluminium die casting | Metal stamping or bending technology | Packaging | Containers | Electrical devices | Engine manufacturing | and many others



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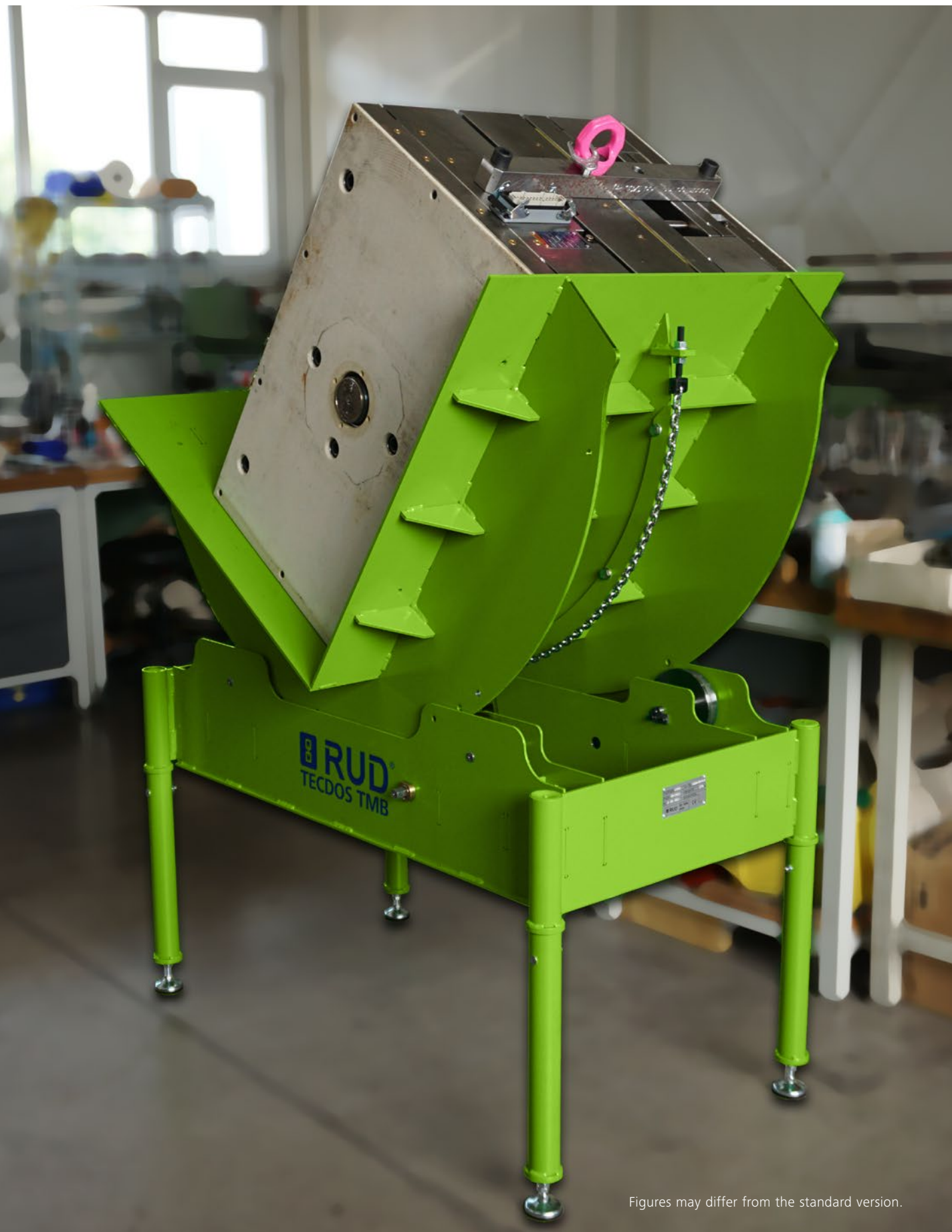
## RUD TECDOS mechanical engineering in use:



# 1. RUD TECDOS TMB

WORKBENCH AND TURNOVER DEVICE

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Figures may differ from the standard version.

## 1.1 PROPERTIES



Figures may differ from the standard version.

- Rotation objects and molding forms up to 90°
- Perfect fit of objects and molds in partly turned positions (for example 45°)
- Maintenance, assembly, and disassembly on the TMB
- Ergonomically correct working because of a perfect working height
- Turning and rotating without electrical, pneumatic, or hydraulic energy possible
- Perfect integration in existing processes
- Tenacious, with low maintenance and a long lifespan RUD TECDOS chain drive
- Max. load capacity of up to 2.5 tons

# 1. RUD TECDOS TMB

## 1.2 CONSTRUCTION AND DIMENSIONS

### Protection for human and machine

For **flexible and safe working**, the turning frame can be held in any swiveled position

Thanks to its **adjustable height**, the TMB can be easily integrated into existing workshop processes

The drive is carried out by means of a **cordless screwdriver**, therefore no use of electrical, pneumatic or hydraulic auxiliary power is necessary

**Easy movable via crane or forklift**



Type	Tabletop		Load-bearing capacity	Weight
	W (cm)	L (cm)	in kg	approx. in kg
TMB 08/08-2.5	80	80	2,500	270

Other sizes on request.

### Tabletop

80 x 80 cm

Additional: PE plates for damping and increasing safety

### Storage spaces

40 cm x 80 cm

For easy storage of your accessories and tools.

(optional)

### TECDOS Equipment

The built-in TECDOS drive is designed for efficient and quiet operation



Figures may differ from the standard version.



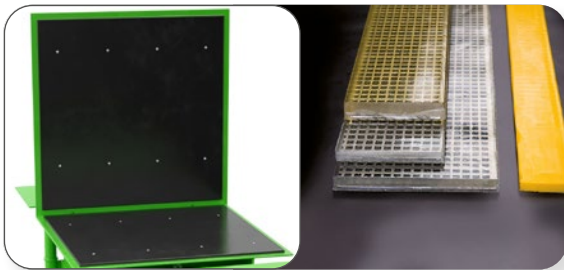
# 1. RUD TECDOS TMB

## 1.3 OPTIONAL COMPONENTS



### RUD TECDOS TMB storage spaces

- Lateral storage spaces
- For easy storage of your accessories and tools
- Facilitates working with molding forms and tools



### RUD TECDOS TMB surfaces

- Polyethylene table surface
- PU-Panel or steel mesh prevents slipping loads
- With adjustable recesses



### RUD attachment points

- RUD VLBG-Plus load ring
- Bracket adjustable in force direction
- Comprehensive range of threads



### RUD TECDOS TMB drawer

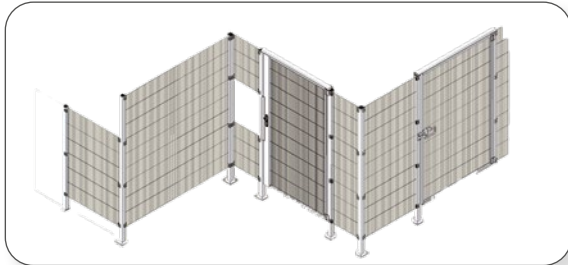
- High-quality drawer
- Storage of your accessories and tools within reach



### RUD TECDOS TMB screwdriver

- Cordless screwdriver for uncomplicated driving of the TECDOS TMB
- Cordless screwdriver makes handling TECDOS TMB easy





### RUD TECDOS TMB protective fence

- Total protection of the machine operator and the TMB
- Alternative for the photoelectric barrier or in combination with it



You will find more information about the RUD product portfolio at: [www.rud.com](http://www.rud.com)



RUD TECDOS TMB  
Hotline:  
**+49-7361-504-1457**

## 2. RUD TECDOS TM

TOOL MOVER

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Figures may differ from the standard version.

## 2.1 PROPERTIES



- Amortisation time <1 year
- Easy, ergonomic operation saves time and costs
- Operators not put at risk
- Can be used for all sizes of tool up to 64 t
- Different options available (tailored to your requirements)
- Digital twin in RUD Cockpit\*
- The low contact surface guarantees direct maintenance of opened tools
- Frequency-controlled drive ensures soft start-up and stopping
- Standard units produce audible warning signal during turn-over
- Turning table can be moved with a crane (attachment points) or fork lift truck (fork pockets)

\*Standard for RUD TECDOS TM from 16 t load bearing capacity.

# 2. RUD TECDOS TM

## 2.2 CONSTRUCTION AND DIMENSIONS

Smooth and ergonomic turning of molds and tools weighing tons

Safe turning by avoiding a tipping point

### Tabletop

80 x 130 cm to 250 x 350 cm

Up to 64 t

Optional: PE plates for damping and increasing safety

### Safety rail

(optional)

Easy movable via crane or forklift



■ MADE  
■ IN  
■ GERMANY

Figures may differ from the standard version.

Type	Table surface in cm		Table Top Height	Load-bearing capacity	Approx. unit weight
	W (cm)	L (cm)	in mm	in kg	in kg
TM 08/13-10	80	130	595	10,000	1,050
TM 13/13-10	130	130	595	10,000	1,150
TM 15/20-16	150	200	885	16,000	3,700
TM 20/20-20	200	200	885	20,000	4,000
TM 20/25-25	200	250	1,167	25,000	8,000
TM 25/25-32	250	250	1,167	32,000	8,000
TM 25/25-40	250	250	1,167	40,000	8,000
TM 25/35-64	250	350	2,075	64,000	17,000

Other sizes on request.

### TECDOS OMEGA DRIVE

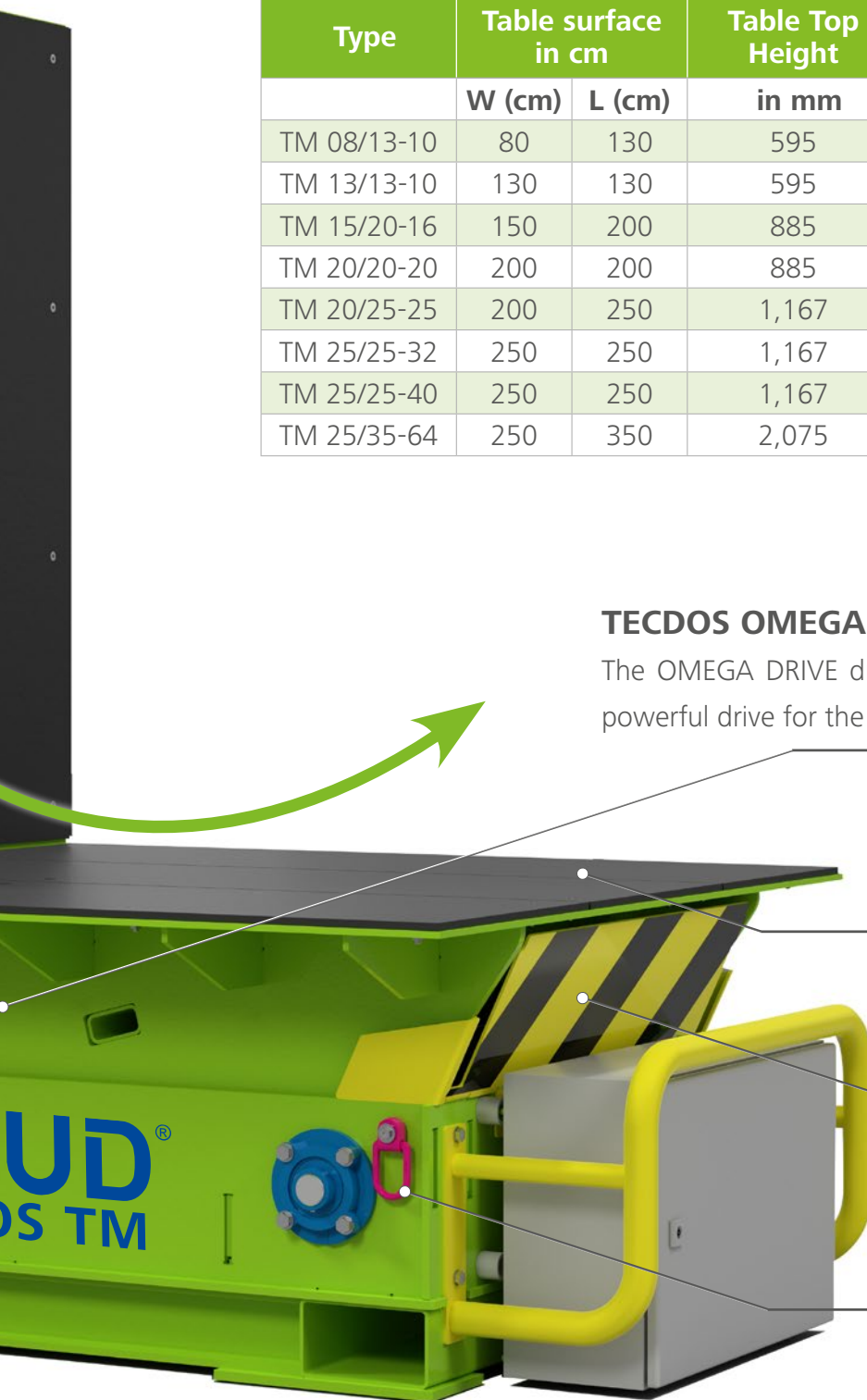
The OMEGA DRIVE drive system is a quiet, powerful drive for the RUD TECDOS TM



The **low table height** allows maintenance of your tool directly on the TECDOS TM

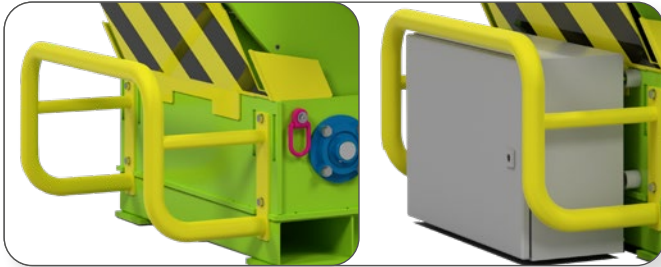
**Contact protection**  
(optional)

**RUD VLBG-PLUS Load ring**  
(optional)



## 2. RUD TECDOS TM

### 2.3 OPTIONAL COMPONENTS



#### RUD TECDOS TM safety rail

Hoop construction as distance protection

- for the front zone
- rear zone



#### RUD TECDOS TM contact protection

- Protects operators from reaching into the danger zone (danger of being crushed)
- Protective guard, yellow/black



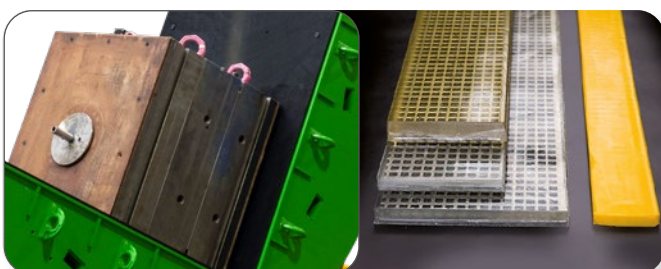
#### RUD attachment points

- RUD VLBG-PLUS load ring
- Bracket adjustable in force direction
- Comprehensive range of threads



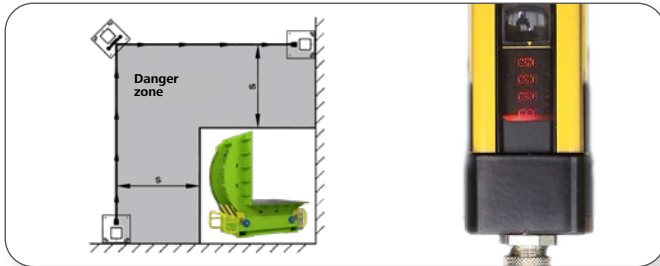
#### RUD TECDOS TM operator devices

- Can be operated safely outside the danger zone
- Two-hand operator device
- Radio control system



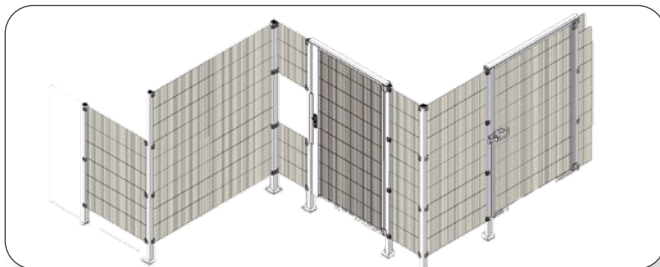
#### RUD TECDOS TM surfaces

- Table surface with different recesses
- Polyethylene table surface
- Steel mesh/polyurethane anti-slip surface



### RUD TECDOS TM light curtain

- Stops inadvertent or unauthorised entry to the danger zone
- Protects operators at or near the RUD TECDOS TM turning fixture



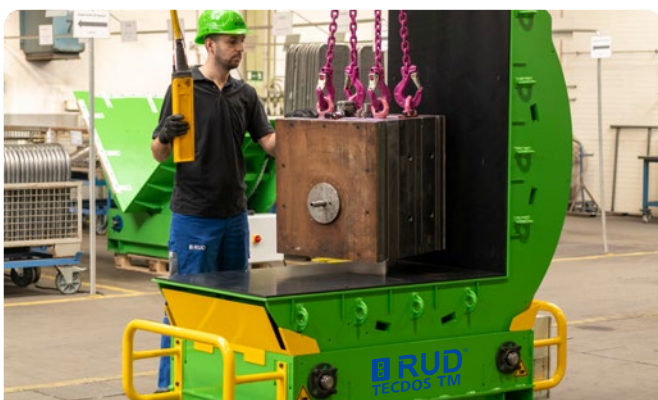
### RUD TECDOS TM protective fence

- Complete protection for the operator and the RUD TECDOS TM
- An alternative to the light curtain – can also be installed together



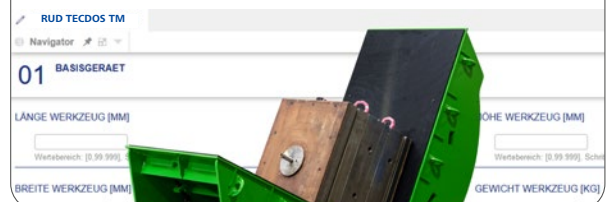
### RUD TECDOS TM working platform

- For attaching attachment points and lashings safely
- Custom working platform configurations, stationary safety enclosures or mobile working platforms available



### RUD TECDOS TM Configurator

Configure your RUD TECDOS TM tool-handling machine quickly and easily, to meet your needs!



You will find more information about the RUD product portfolio at:  
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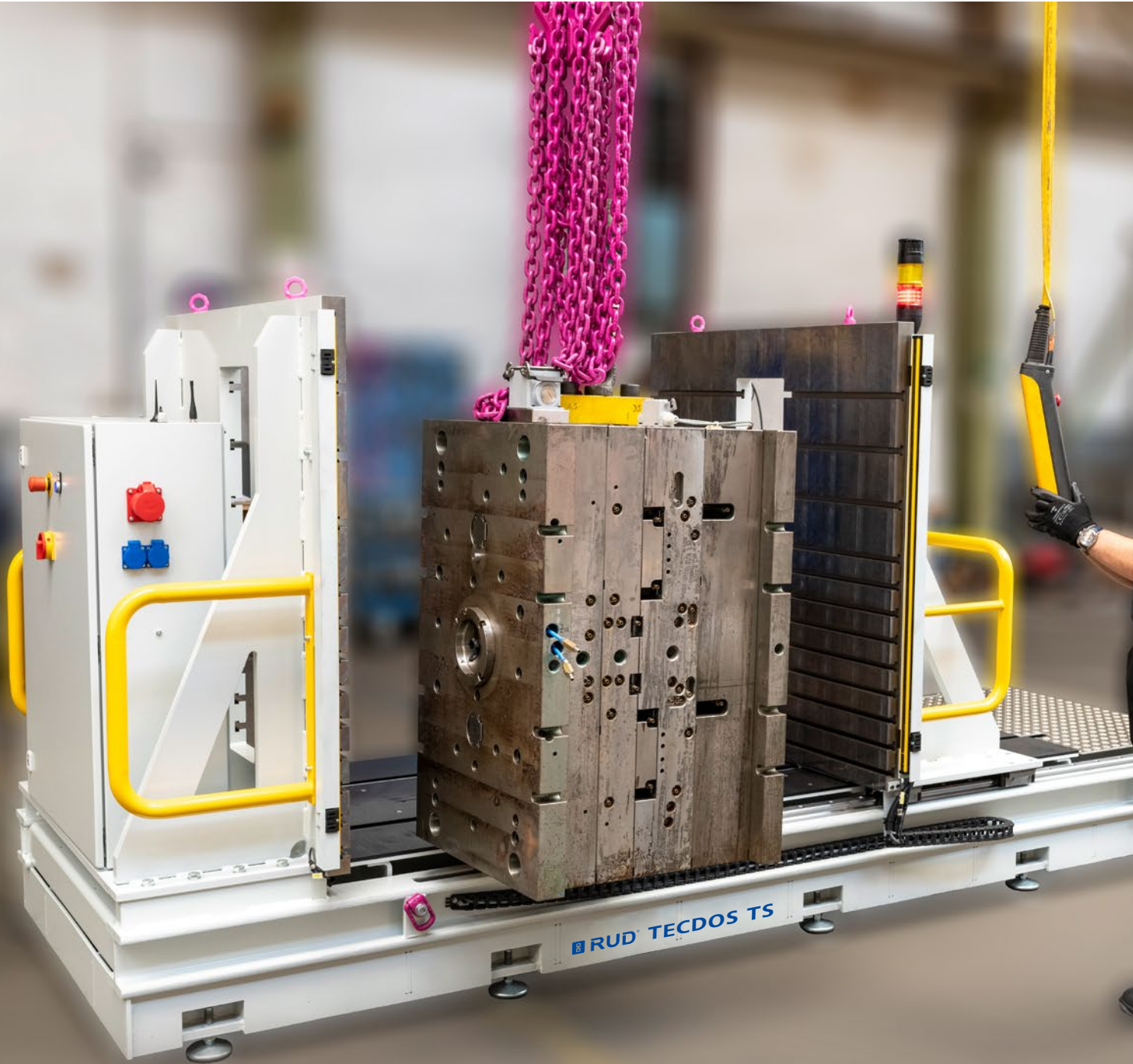
### RUD TECDOS TM Hotline:

+49-7361-504-1457

# 3. RUD TECDOS TS

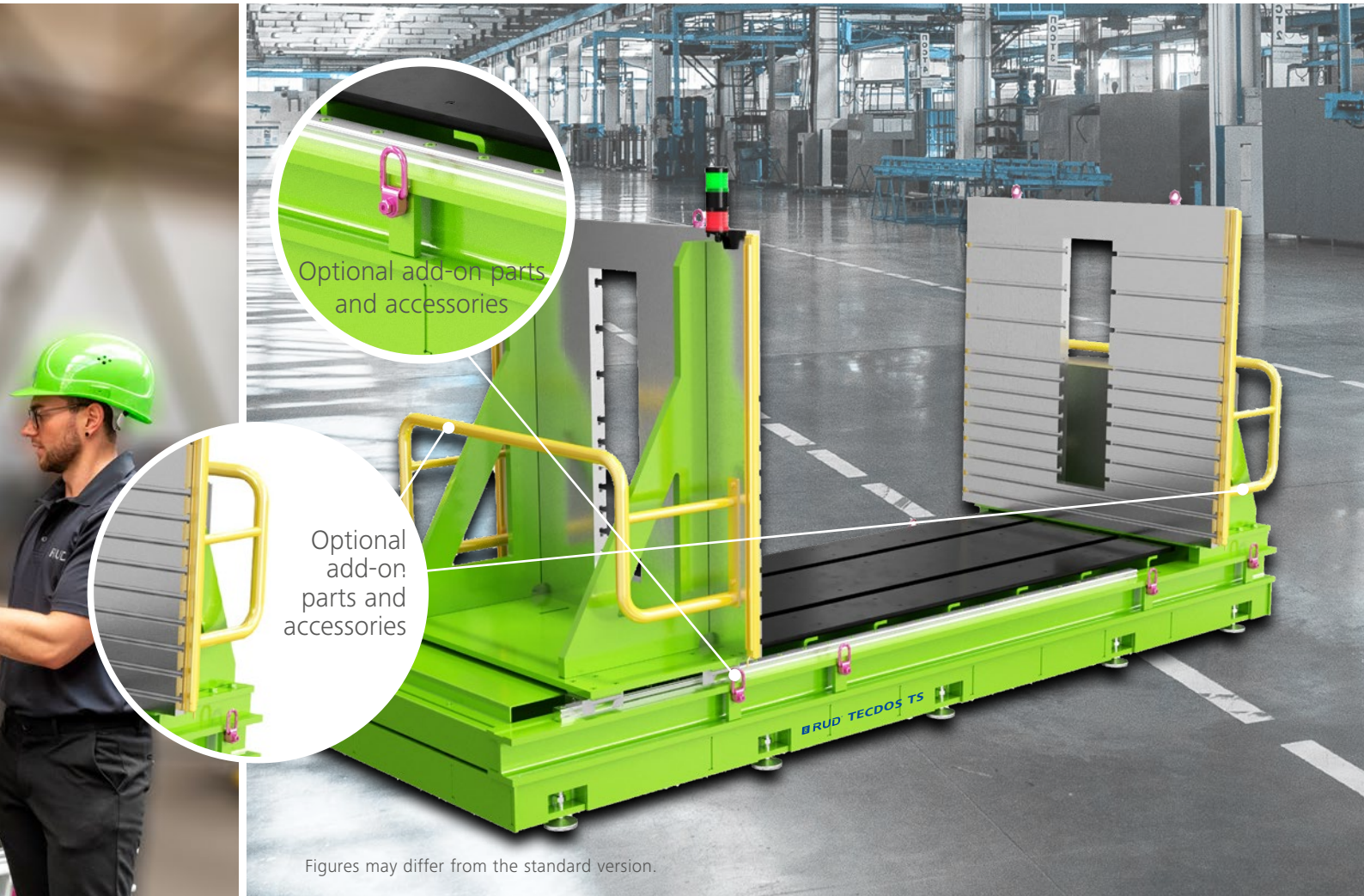
TOOL SEPARATOR

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### 3.1 PROPERTIES



- Amortisation time <1 year
- Tool halves can be opened gently and closed accurately with controlled force and speed
- Precise, uncomplicated tool-handling
- Assembly and maintenance work are reduced
- Less down time due to maintenance work
- Ergonomic working positions at the tool
- Guarantee can be extended
- Intelligent operational optimization
- Digital twin in RUD Cockpit

# 3. RUD TECDOS TS

## 3.2 CONSTRUCTION

### Mounting plate

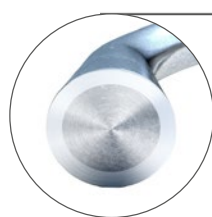
(1.300 mm x 1.300 mm)

### Protection guards

(optional)

### Sliding surface

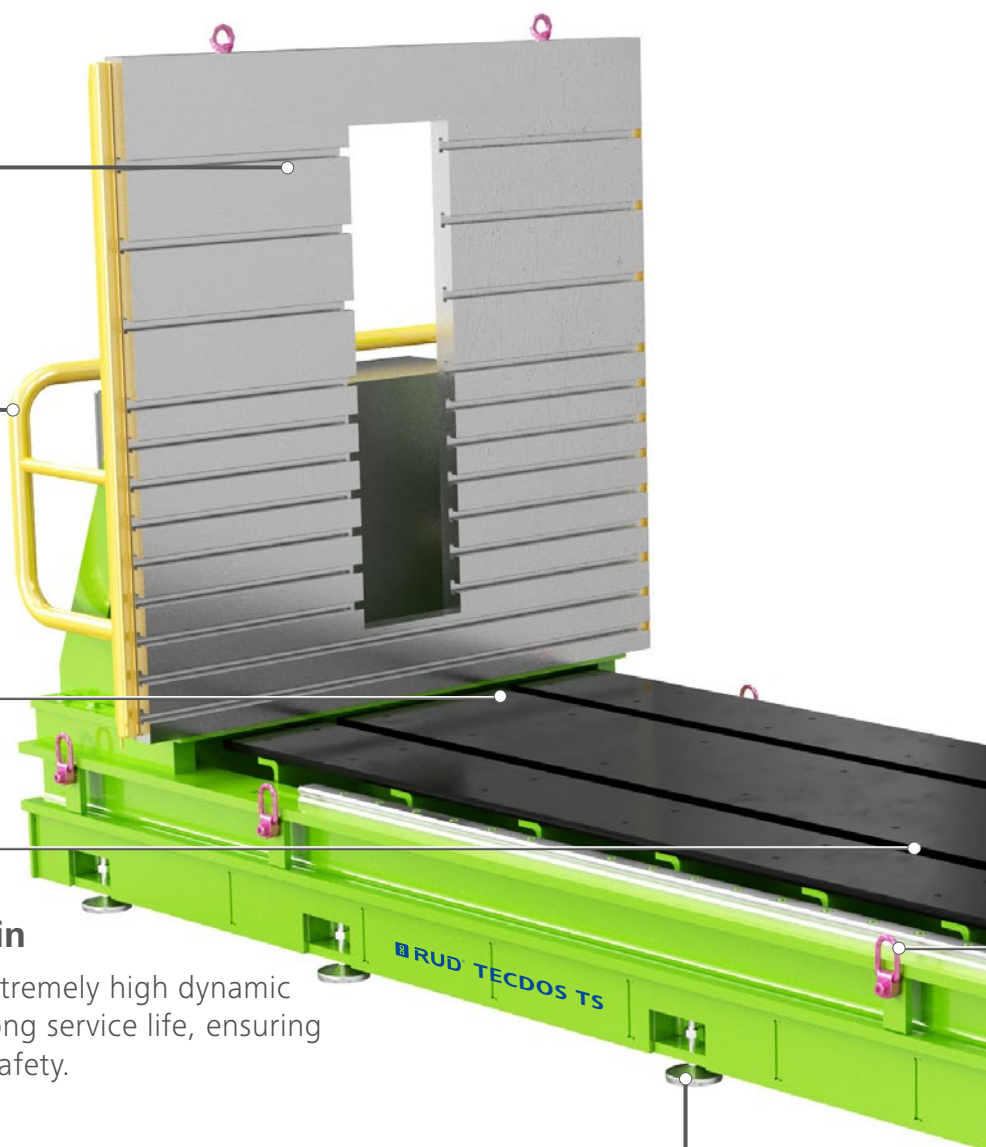
Surface is only  
380 mm high



### RUD TECDOS premium chain

This chain has extremely high dynamic strength and a long service life, ensuring max. operating safety.

### Levelling feet



■ MADE  
■ IN  
■ GERMANY

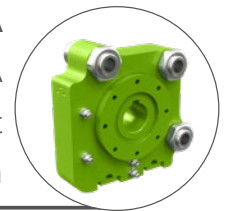


**Warning light**  
(Visual and acoustic signal)

**Safety light curtain**  
(optional)

**RUD TECDOS PI-GAMMA**

The built-in TECDOS PI-GAMMA drive is designed for efficient and quiet operation



**RUD VLBG-PLUS  
load ring**  
(optional)

**Adjustable force  
and speed**

Figures may differ from the standard version.

# 3. RUD TECDOS TS

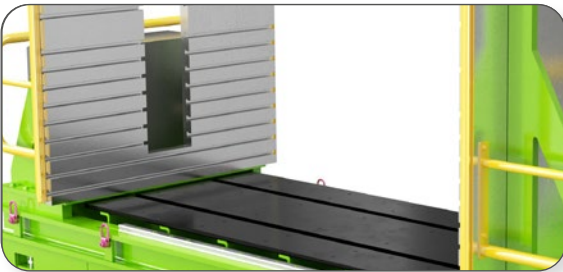
## 3.3 OPTIONAL COMPONENTS



### RUD TECDOS TS protection guards

Hoop design provides distance protection

- For the front zone
- For the rear zone



### RUD TECDOS TS mounting plate

- For easy tool attachment
- Other mounting plates are optionally available



### RUD TECDOS TS operator devices

- Safe operation outside the danger zone
- Two-hand operation
- Radio control system



### RUD TECDOS TS sliding surface

- The sliding surface makes it easy to separate and close the tool halves
- Replaceable UHD PE plates



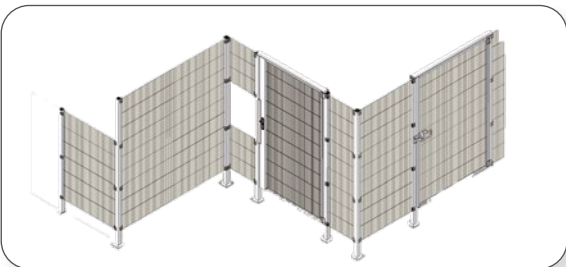
### RUD attachment points

- RUD VLBG-PLUS load ring
- Bracket adjustable in force direction
- Comprehensive range of threads



### RUD TECDOS TS light curtain

- Stops unauthorised or inadvertent entry to the danger zone
- Protects operators at or near the RUD TECDOS TS



### RUD TECDOS TS protective fence

- Complete protection for the operator and the RUD TECDOS TS
- An alternative to the light curtain – can also be installed together



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Hotline:  
**+49-7361-504-1457**

# 4. SERVICE CONCEPT

Service Nr.:  
 +49(0)36074-36642  
 (Mon. - Fri. 8:00 a.m. to 2:00 p.m.)

Mail: [salesfa@rud.com](mailto:salesfa@rud.com)

## Scope of service

Checking and adjusting chain tension and lubrication			Check condition of optional add-on parts to ensure people and the tool are protected
	Visual inspection (paint damage, dents)		
Check machine parts			inspection of the TECDOS Drive components

## Service



## Guarantee



\*On request.

## 5. ERGONOMIC AND SAFE

### Ergonomic work

Cast and injection-formed objects, and stamping and pressing tools, can be turned over safely, economically and quickly, using the RUD TECDOS machines. Handling heavy, easily damaged tools is made easier, protecting your staff in industrial workplaces and helping prevent serious damage to joints and backs.

### Safe working

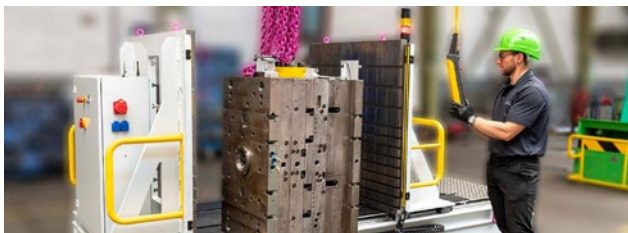
Normal turning and rotating fixtures conceal enormous risks for the operator. Not only can handling them cause damage to expensive tools if they are not pulled in a straight line, but the health of staff can also be put at risk. Using the RUD TECDOS machines guarantees that all kind of objects, no matter what shape, can be moved easily and safely.



SAVING A LIFE IS PRICELESS



## RUD Conveyor & Drives



### RUD TECDOS mechanical engineering

Cool moves for heavy tools and bulky items: With the **RUD TECDOS TM TOOL MOVER**, the **RUD TECDOS TMB** workbench with turnover device and the **RUD TECDOS TS TOOL SEPARATOR**, handling tools has never been so safe, efficient and effective in terms of costs or processing.



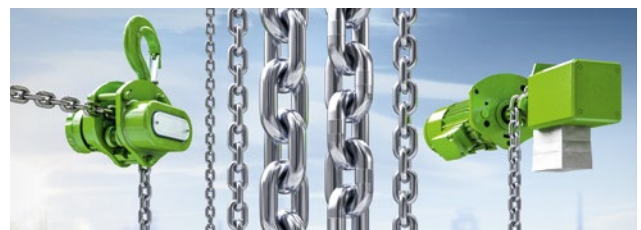
### RUD TECDOS drive technology

The RUD TECDOS team develops and produces drive solutions for rotating, lifting, moving, telescoping or pushing. In addition to the components range, TECDOS OMEGA and PI-GAMMA drives are also available as complete system drives.



### RUD conveyor technology

Combinable components & individual parts for conveyor technology, conveyor systems and mining. RUD offers you perfectly coordinated systems and components for horizontal, vertical and ascending conveyors.



### RUD industrial chains

RUD components are the first choice worldwide for leading hoisting equipment manufacturers. We also offer a wide range of round link chains for different industries and areas, such as food, fishing and awnings.