ROTOBLOC

TOOL CHANGEOVER SYSTEM FOR LEAN MANUFACTURING

A SINGLE CONTACT TO DEAL WITH ALL YOUR TOOL NEEDS

www.rotobloc.com
COMPLETE RANGE OF QUICK DIE CHANGE SYSTEMS

Lean manufacturing solutions

Since 1985, we offer solutions to reduce tool changeover time.

SMED METHODS
“SINGLE MINUTE EXCHANGE OF DIE”
Single minute exchange of die is one of the lean manufacturing tool concept enabling you to increase a process productivity. It is a quick and easy way to change production type.

Due to the reduction of the series changeover time, the size of the economic batch quantity is also reduced which in turn will make it possible to unblock funds spent in stocked components throughout the production chain.

Before

After

TIME SAVED

SPACE SAVED

STOCK SAVED

MONEY SAVED

Contact:
contact@rotobl.com

Reducing tool changeover time and improving work conditions

All the specifications on www.rotobl.com

Change your tools safely - p. 4

Pull and push your tools easily - p. 8

Reduce time spent - p. 10

Load your tools effortlessly - p. 14

French manufacturer
APPROPRIATE MEANS TO EASILY AND EFFORTLESSLY MANIPULATE LOADS WEIGHING SEVERAL TONS

Loading a tool directly on a press bed is very dangerous using a lift cart and simply impossible to do with a crane. The bolster extension makes it possible to safely load a tool either with a lift cart or a crane. Besides making the operation safer, using an appropriate instrument will make you save a great amount of time. The bolster extensions are fitted out with rolls for heavy loads.

DETACHABLE BOLSTER EXTENSIONS : TCF

Thanks to the aluminium construction, the weight of the bolster extension makes it possible to handle it manually. Only the brackets are fixed to the press bed. The same pair of bolster extensions can be shared between the different presses of a workshop.

BOLSTER EXTENSIONS WITH SUPPORTING LEGS : TCP

The bolster extension with supporting legs can also be moved and, thanks to its legs, it can support up to 6 tons. The basic version has a fixed leg. The optional leg with caster makes it easier to move the bolster extension around.

ROTATING BOLSTER EXTENSIONS : TCRF

If the tools are very frequently changed, the rotating bolster extensions unfold themselves in an instant and automatically lock themselves in working position. Once the bolster extensions are folded against the press bed, the operator’s work area is completely cleared. The rotating bolster extensions, are permanently fixed to the press bed.

DETACHABLE BOLSTER EXTENSIONS : TCF

The extruded aluminium profile is a perfect balance between strength and lightness. Gripping it manually is easy for the operator. Its sturdy conception allows it to support heavy loads.

ARTICULATED BOLSTER EXTENSION : TCAF

Compared with the rotating bolster, the articulated bolster has a second pivot point. This enables the bolster to be installed in cramped location as for instance soundproof cabins.

PUSH AND PULL UNIT : ILU

The push and pull unit was designed to save the operator from physical strain. The tool is transferred to the table bed in a controlled way and with a steady speed. The movement is managed by the operator himself. The push and pull unit is entirely integrated in the press bed. Only the pushing crossbar moves over the table but without touching it. The unit is compatible with existing bolster extensions and rails.

LOADING A TOOL DIRECTLY ON A PRESS BED IS VERY DANGEROUS USING A LIFT CART AND SIMPLY IMPOSSIBLE TO DO WITH A CRANE. THE BOLSTER EXTENSION MAKES IT POSSIBLE TO SAFELY LOAD A TOOL EITHER WITH A LIFT CART OR A CRANE. BEHIND MAKING THE OPERATION SAFER, USING AN APPROPRIATE INSTRUMENT WILL MAKE YOU SAVE A GREAT AMOUNT OF TIME. THE BOLSTER EXTENSIONS ARE FITTED OUT WITH ROLLS FOR HEAVY LOADS.

CONTACT: contact@rotobloc.com

REDUCING THE RISK OF WORKPLACE ACCIDENTS

LIGHT AND STURDY

The extruded aluminium profile is a perfect balance between strength and lightness. Gripping it manually is easy for the operator. Its sturdy conception allows it to support heavy loads.

FAST SET-UP

With the tool brackets, it is very fast to attach the bolster extensions to the press and to make it fit different tool widths. It is also possible to share a pair of bolster extensions between different presses.

SAFETY

The bolster extensions are fitted out with a retractable stop for low tonnage tools and a progressive ramp stop for high tonnage tools.

STORAGE

Double set-up to position tools on a background task.

All the specifications on www.rotobloc.com
CHANGE YOUR TOOLS SAFELY

Bolster extension : heavy series

APPROPRIATE MEANS TO EASILY AND EFFORTLESSLY MANIPULATE LOADS WEIGHING UP TO 25 TONS

Always attached to the press, these bolster extensions will make you save a lot of time and will enable your operators to safely do their handling operations. The studied technical layout enables these bolster extensions to be folded during production, which leaves a free access to the area for all your intervention (handling, checking) teams.

ROTATING BOLSTER EXTENSIONS : TCRSF/TCRDF

The articulation of the TCRSF/TCRDF bolster extensions makes it possible to fold them outward, contrary to the TCRDF extension bolsters which are articulated asymmetrically and fold themselves on each other inward. In both cases, the bolster extensions are used only by pairs.

<table>
<thead>
<tr>
<th>L (mm)</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
<th>1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCRSF/TCRDF</td>
<td>4 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>6 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

ROTATING BOLSTER EXTENSIONS : TCAF

These bolster extensions are used to quickly and safely change the tools on the press bed. They are permanently fixed to the front of the press bed with hinged brackets. They can adopt two set positions, the working position and the slide position, which allows complete access to the front of the press.

<table>
<thead>
<tr>
<th>L (mm)</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
<th>1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCAF</td>
<td>4 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>6 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

BOLSTER EXTENSIONS WITH SUPPORTING LEGS

Bolster extensions with supporting legs are particularly well suited for long tools. Thanks to their simple construction they are an affordable product. A detachable version is also available.

<table>
<thead>
<tr>
<th>L (mm)</th>
<th>1250</th>
<th>1600</th>
<th>2000</th>
<th>2500</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCPP</td>
<td>1.0 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>1.6 tons</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

All the specifications on www.roto bloc.com
Widely appreciated by cutting and stamping companies working in the automotive, metallic construction and building sectors. Our bolster extensions with supporting legs are stationary or detachable with crane:
- Very sturdy construction
- Fitted out with two rows of rollers for the very heavy tools

Motorized bolster extensions are of a one-piece design integrating the bolster extensions to support the tool and a push and pull system. The push and pull system can be activated a pneumatic motor or an hydraulic motor. The same system can be adapted to different presses and to different tool sizes. The whole set can be moved with a crane or a forklift.

Customer set-up:
- For one 15 tons tool (4500x1800 mm)
- For two 8 tons tools (1200x1800 mm)
- For three tools.

Thanks to a hydraulic crossbar it is possible to transfer the tool effortlessly and progressively. Different clamping systems are used depending upon the tools to load.

contact@rotobloc.com
PUSH AND PULL YOUR TOOLS EFFORTLESSLY
Transfer elements for press bed with slots

Moving a tool on a press bed can be a real hassle, but by integrating these segments to the press bed, the initial frictions will completely disappear. Moving your tools will be totally safe, nearly effortless and faster than ever before. You will also save time when cleaning it, as its one-piece construction prevents the shavings from piling up.

BALL BEARING RAILS OR ROLLER RAILS

Moving a tool on a press bed can be a real hassle, but by integrating these segments to the press bed, the initial frictions will completely disappear. Moving your tools will be totally safe, nearly effortless and faster than ever before. You will also save time when cleaning it, as its one-piece construction prevents the shavings from piling up.

MODULE TYPES

TWO DESIGNS ARE AVAILABLE:

- The mechanical version is made of a spring which is compressed when the tool is clamped.
- The hydraulic version has modules which go up and down similarly to a single-acting hydraulic cylinder. The system is manually operated by an operator.

HYDRAULIC AND MECHANICAL MODULES

With rollers

Ball bearing

MECHANICAL MODULE

HYDRAULIC MODULE

Ball bearing Rollers Ball bearing Rollers Model

2000 kg 4000 kg 8000 kg 18

3000 kg 6000 kg 12,000 kg 22

3600 kg 7200 kg 14,400 kg 28

5000 kg 10,000 kg 20,000 kg 36

Our segments, made in extruded high-strength aluminum alloy, are unbreakable. Because of their one-piece design, the leaking risk is minimized. Its set up is reliable and fast. Once it is fitted out with its module, the segment is totally sealed and no shavings can enter it. Some customized segments can be made upon request.

3 METER LONG IN A ONE-PIECE DESIGN

Our segments, made in extruded high-strength aluminum alloy, are unbreakable. Because of their one-piece design, the leaking risk is minimized. Its set up is reliable and fast. Once it is fitted out with its module, the segment is totally sealed and no shavings can enter it. Some customized segments can be made upon request.

STANDARD SLOTS

For further requests contact us and we will design a product meeting your specific needs

CUSTOMIZED SLOTS

The 650 din standard established the dimension for the standard slots

ASSEMBLY TYPE

In order to fit any kind of uses, two types of stops are available:

- BS “economic”: held by one or more screw.
- BL “fast assembly”: held by a lateral tightening in the slot. No machining of the press bed is necessary.

CARTRIDGE FOR THE PRESS BED

Single module mounted in a body enabling it to be easily fitted in a press bed.

Available: smooth body or threaded body with balls or rollers

For lengths less than 3000 mm, please contact us!
**REDUCE TOOL CHANGEOVER TIME**

Manual tightening clamping

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**THE EASIEST AND CHEAPEST SOLUTION ON THE MARKET**

![Image of clamps]

Lever-operated mechanical clamps:

- The clamp operates thanks to a lever mechanism operated by a self-locking cam. The clamps were specially designed to solve the very delicate issues occurring when clamping a tool to a press bed.
- Tightening them with a t-shaped wrench makes it easy and effortless to reach a tightening torque going from 80 to 100 Nm that is to say a clamping force going from 12 to 25 kN.

The clamping force obtained from CA clamps is usually higher than the clamping force of conventional clamping systems which is generally comprised between 6.8 and 7.2 kN for a system with screws and nuts.

<table>
<thead>
<tr>
<th>Model</th>
<th>Force (kN)</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS - 0</td>
<td>16</td>
<td>5.8</td>
</tr>
<tr>
<td>CAS - 1</td>
<td>18</td>
<td>3.1</td>
</tr>
<tr>
<td>CAS - 2</td>
<td>20</td>
<td>3.4</td>
</tr>
<tr>
<td>CAS - 3</td>
<td>24</td>
<td>4.2</td>
</tr>
<tr>
<td>CAD - 2</td>
<td>20</td>
<td>3.4</td>
</tr>
<tr>
<td>CAD - 3</td>
<td>24</td>
<td>4.2</td>
</tr>
<tr>
<td>CAM - 1</td>
<td>18</td>
<td>3.1</td>
</tr>
<tr>
<td>CAM - 2</td>
<td>20</td>
<td>3.4</td>
</tr>
<tr>
<td>CAM - 3</td>
<td>24</td>
<td>4.2</td>
</tr>
</tbody>
</table>

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**PRESSURE-SHIFTING NUTS WITH MANUAL TIGHTENING**

- The strength-multiplier nuts are clamps tightened by hand. They make it possible to obtain very high clamping forces without making any efforts.

<table>
<thead>
<tr>
<th>Clamping strength (kN)</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke NHLC (mm)</td>
<td>5</td>
<td>6.4</td>
<td>8</td>
<td>9.5</td>
</tr>
</tbody>
</table>

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**HYDRAULIC CLAMPING : HLC**

- Simple and affordable - clamp with a hydraulic lever.
- The clamping power is drawn directly from the hydraulic pressure.

<table>
<thead>
<tr>
<th>Clamping strength (kN)</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke HLC (mm)</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

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**CLAMPING NUT : HTB**

- Compact
- The clamping power is drawn directly from the hydraulic pressure.

<table>
<thead>
<tr>
<th>Clamping strength (kN)</th>
<th>28</th>
<th>44</th>
<th>72</th>
<th>102</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke HTB (mm)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

---

**NITROGEN CLAMPING : NHLC**

- Nitrogen clamp with hydraulic unclamping
- Fast clamping with a tool of standard thickness
- No pressure on the hose while the press is running
- The clamping strength generated by nitrogen is much steadier than the push of a mechanical spring.
- Controlling the nitrogen pressure with a manometer.

**Hydraulic pack => page 13**

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**ALL THE SPECIFICATIONS ON www.rotobloc.com**

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**Contact**: contact@rotobloc.com

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REDUCE TOOL CHANGEOVER TIME

Magnetic clamping system

THE FASTEST AND MOST RELIABLE SOLUTION ON THE MARKET

EFFICIENT AND EASY TO USE

SOLUTION BENEFITS:
- The tool is clamped in a matter of seconds just by pushing a button.
- No adjustments are needed to go from one tool size to another one. The magnetic poles adjust themselves according to the tool dimensions fitting the smallest and the biggest ones.
- No maintenance operations are needed as no parts are moving.

THE MOST RELIABLE SYSTEM ON THE MARKET:
- The clamping strength of each magnetic pole is monitored in real time.
- No risks to magnetize the active parts of the tool as the magnetic flux goes only up to 20 mm deep into the bottom of the die.
- No risk of unplanned unclamping. The clamping is electro-permanent. Electrical power is only needed during clamping and unclamping. Once the tool is clamped, the clamping is permanent.

SET-UP:
- Every plate is delivered with roller transfer rails.
- Every plate is designed according to the press dimensions, the press ram and the opening in the press bed.
HYDRAULIC GENERATOR

for roller or ball segments and for gas or hydraulic clamps

MANUAL PUMP : HPMAN

The manual pump is used when there is no more pneumatic power. It is both easy to set up and to use.

AFFORDABLE AND SIMPLE GENERATOR

It generates hydraulic pressure of either 100 bars or 300 bars using a 6 bar compressed-air system. Perfect for setting up both ball or roller rails and nitrogen clamping.

100 HPF and 300 HPF designs:
- Pressure : 100 or 300 bars
- Simple circuit with foot pedal (HPF)
- Double circuit with hand control (HPMD).

ELECTRICALLY OPERATED GENERATOR

Makes it possible to keep the hydraulic clamps power supply safe by setting up crossed clamping circuits. Electrically operated generator from 1 to 5 circuits. It is possible to integrate controls in a press control desk or a push button control.

ACCESSORIES : BDS

The security BDS block makes it possible to:
- Keep a circuit safe thanks to its pressure switch
- Stop the press in the event of an involuntary unclamping
- To prevent the press from running if the ball or roller rails are in a high position.

Hydraulic pipes, please contact us.
LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY
Tool handling for tools up to 1000 kg: carts and plates

TRANSFERRED YOUR TOOLS SAFELY AND EFFORTLESSLY

EASY TO USE:
- The lifting ball lever moves up and down by the means of a manual handle.
- Effortless loading: when loading the tool, it slides on the lifting balls.

SAFETY:
- When moving the tool around, the tool sits on the cover plate and the end stopper prevents it from sliding.
- When sliding the tool in the press, it is important that the table is locked to the press table or to the rack.

ADAPTABLE PLATE

The plate by itself is available to be mounted on a table or on the forks of a lift cart. The AQBF reference is to put up the plate on a forklift while the AQBT is for a table.

LIFTING OF THE BALLS/ROLLERS:
- Up to 1 ton model: manual lever
- Up to 2 tons model: hydraulic cylinder.
This model requires a hydraulic pack.

<table>
<thead>
<tr>
<th>Model</th>
<th>kg</th>
<th>PU (mm)</th>
<th>LU (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQBFM</td>
<td>1000</td>
<td>410</td>
<td>850 / 900 / 1000</td>
</tr>
<tr>
<td>AQBFM</td>
<td>1000</td>
<td>560</td>
<td>850 / 900 / 1000</td>
</tr>
<tr>
<td>AQBFM</td>
<td>1000</td>
<td>710</td>
<td>850 / 900 / 1000</td>
</tr>
<tr>
<td>AQBFH</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>AQBFH</td>
<td>1000</td>
<td>550</td>
<td>1250</td>
</tr>
<tr>
<td>AQBFH</td>
<td>1000</td>
<td>650</td>
<td>1250</td>
</tr>
<tr>
<td>AQBFH</td>
<td>1000</td>
<td>800</td>
<td>1250</td>
</tr>
<tr>
<td>AQRFH</td>
<td>2000</td>
<td>550</td>
<td>1250</td>
</tr>
<tr>
<td>AQRFH</td>
<td>2000</td>
<td>650</td>
<td>1250</td>
</tr>
<tr>
<td>AQRFH</td>
<td>2000</td>
<td>800</td>
<td>1250</td>
</tr>
</tbody>
</table>

MANUALLY OPERATED CARTS - LIFT

The Liftmatics are devices to transfer and lift tools manually, either thanks to a hydraulic pump operated with a pedal, either with a hydraulic pump operated by hand.
Two designs: 400 kg and 900 kg.
Electrical lifting table are available as an option.

All the specifications on www.rotoBeSt.com
LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY

Electrical Liftmatic

ELECTRICAL LIFTMATIC - LIFT E09 1000-1000

- Electric powered truck specifically designed for tool handling
- Retractable ball plate for easy and safe Quick Die Change
- Hydraulically powered up and down for effortless process

TRUCK SPECIFICATIONS

<table>
<thead>
<tr>
<th>Plate height</th>
<th>LIFT E09-H1950</th>
<th>Maxi : 1950 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of the truck</td>
<td>800 mm</td>
<td></td>
</tr>
<tr>
<td>Length of the truck</td>
<td>1800 mm</td>
<td></td>
</tr>
<tr>
<td>Driver</td>
<td>Pedestrian</td>
<td></td>
</tr>
<tr>
<td>Battery loader</td>
<td>Integrated EU 220V plug</td>
<td></td>
</tr>
<tr>
<td>Length of the leg</td>
<td>1000 mm (standard)</td>
<td></td>
</tr>
<tr>
<td>Thickness of the leg</td>
<td>80 mm</td>
<td></td>
</tr>
<tr>
<td>Roundabout</td>
<td>1100 mm</td>
<td></td>
</tr>
</tbody>
</table>

PLATE SPECIFICATIONS

| Tool PU maxi          | 1000 mm        |
| Tool LU maxi with side endstop | 670 mm       |
| Tool LU maxi without side endstop | 1000 mm     |
| Tool maxi weight      | 900 kg         |

During tool transfer on press or storage, truck plate must be attached to the press/storage with connection part.

OVERALL DIMENSIONS

Length of the plate: 1800 mm
Length of the leg: 1000 mm
Length of the plate: 50 mm
Length of the plate: 40 mm

Easy to use:
- The lifting balls simply move up and down by the means of a manual handle
- Effortless loading: when loading the tool, it slides on the lifting balls.

Safety:
- When moving the tool around, the tool sits on the cover plate and the end stopper prevents it from sliding.
- When sliding the tool in the press, it is important that the table is locked to the press table or to the rack.

Retracted balls: safety
Activated balls: effortless movement

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LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY

Tables

ELECTRICALLY POWERED TABLE

The plate has a sturdy metal construction with a small turning radius. Its small size and its electrical engine enable you to easily move it around the pathways of your production sites. Easy to use thanks to its hydraulic lifting and lowering system. Moving the plate is only possible if the balls are withdrawn. Maximum tool dimensions: 1000 x 1000 mm

<table>
<thead>
<tr>
<th>Reference</th>
<th>Plate model</th>
<th>balls</th>
<th>flush</th>
<th>weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mult EF95</td>
<td>single chisel lifting action</td>
<td>•</td>
<td></td>
<td>950 kg</td>
</tr>
<tr>
<td>Mult EDF60</td>
<td>double chisel lifting action</td>
<td>•</td>
<td></td>
<td>600 kg</td>
</tr>
<tr>
<td>Mult EB90</td>
<td>single chisel lifting action</td>
<td>•</td>
<td></td>
<td>900 kg</td>
</tr>
<tr>
<td>Mult EDB55</td>
<td>double chisel lifting action</td>
<td>•</td>
<td></td>
<td>550 kg</td>
</tr>
</tbody>
</table>

MANUALLY OPERATED TABLE

The most convenient solution for your operator to move a tool from the press bed to the storage/workbench or from one press to another one.

- The transfer is manually operated
- A hydraulic pump operated by hand enables the lifting
- Tools are loaded and unloaded through the front
- Perfect for carrying small tools
- It is completely safe both for the operator and for the loaded material
- Tare weight 280 kg

<table>
<thead>
<tr>
<th>Reference</th>
<th>PU (mm)</th>
<th>LU (mm)</th>
<th>Ball bearing plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mult F10</td>
<td>1000</td>
<td>900</td>
<td>NO*</td>
</tr>
<tr>
<td>Mult B10</td>
<td>560</td>
<td>900</td>
<td>YES</td>
</tr>
</tbody>
</table>

* smooth plate

All the specifications on [www.rotobloc.com](http://www.rotobloc.com)
LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY

Tool handling for tools up to 2000 kg - TPI LIFTMATIC

DIE LOADING TABLE WITH PUSH-PULL SYSTEM FOR STANDARD FORKLIFT AND STACKER

The Push-pull system is powered by a hydraulic motor located inside the table. It is fitted out with hooks to grab the tools.

Easy adjustment and clamping of the hooks position. 2 long hooks are used for the positioning of dies up to 350 mm long, into the press bolster.

2 short hooks are used for deeper tools. A sensor located in the table detects its correct positioning, in front of a press bolster or a storage rack. When in position, this sensor will allow the movement of the push-pull device. A second sensor will detect the push-pull back position, so the cart is allowed to move away.

This table can be easily assembled (or dismantled) on your standard forklift, thanks to quick connections (mechanical, hydraulic and electrical).

A vat located below the table collects slugs and oil. The top of the table is covered with a sliding plate.

TOOL HOOK:
Tool hook must be set-up on each tool (sold separately).

PLATE ATTACHMENT:
Press table and storage rack must be fitted out with pair of plate attachment (sold separately).

TPI PLATE FEATURES

<table>
<thead>
<tr>
<th>Reference plate</th>
<th>Tool maxi dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weight (kg)</td>
</tr>
<tr>
<td>20.600</td>
<td>2000</td>
</tr>
<tr>
<td>20.800</td>
<td>2000</td>
</tr>
</tbody>
</table>

LIFTMATIC TPI FEATURES

<table>
<thead>
<tr>
<th>Ref. Liftmatic TPI</th>
<th>Tool maxi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weight (kg)</td>
</tr>
<tr>
<td>10.600</td>
<td>1000</td>
</tr>
<tr>
<td>10.800</td>
<td>1000</td>
</tr>
<tr>
<td>20.600</td>
<td>2000</td>
</tr>
<tr>
<td>20.800</td>
<td>2000</td>
</tr>
</tbody>
</table>

Note:
- Overall plate 820 mm
- Mini lower position 265 mm
- Maxi higher position 1600 mm

LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY

Tool handling for tools up to 2000 kg - TPI LIFTMATIC

DIE LOADING TABLE WITH PUSH-PULL SYSTEM FOR STANDARD FORKLIFT AND STACKER

The Push-pull system is powered by a hydraulic motor located inside the table. It is fitted out with hooks to grab the tools.

Easy adjustment and clamping of the hooks position. 2 long hooks are used for the positioning of dies up to 350 mm long, into the press bolster.

2 short hooks are used for deeper tools. A sensor located in the table detects its correct positioning, in front of a press bolster or a storage rack. When in position, this sensor will allow the movement of the push-pull device. A second sensor will detect the push-pull back position, so the cart is allowed to move away.

This table can be easily assembled (or dismantled) on your standard forklift, thanks to quick connections (mechanical, hydraulic and electrical).

A vat located below the table collects slugs and oil. The top of the table is covered with a sliding plate.

TOOL HOOK:
Tool hook must be set-up on each tool (sold separately).

PLATE ATTACHMENT:
Press table and storage rack must be fitted out with pair of plate attachment (sold separately).

TPI PLATE FEATURES

<table>
<thead>
<tr>
<th>Reference plate</th>
<th>Tool maxi dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weight (kg)</td>
</tr>
<tr>
<td>20.600</td>
<td>2000</td>
</tr>
<tr>
<td>20.800</td>
<td>2000</td>
</tr>
</tbody>
</table>

LIFTMATIC TPI FEATURES

<table>
<thead>
<tr>
<th>Ref. Liftmatic TPI</th>
<th>Tool maxi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weight (kg)</td>
</tr>
<tr>
<td>10.600</td>
<td>1000</td>
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</tr>
<tr>
<td>20.600</td>
<td>2000</td>
</tr>
<tr>
<td>20.800</td>
<td>2000</td>
</tr>
</tbody>
</table>

Note:
- Overall plate 820 mm
- Mini lower position 265 mm
- Maxi higher position 1600 mm

LOAD AND UNLOAD YOUR TOOLS EFFORTLESSLY
APPLICATIONS

Cryla - SKF - A.Raymond - Bosal - Caillau

SOLUTION FOR TOOL CHANGE WITHOUT HANDLING EQUIPMENT

- Capacity of two 900 kg tools
- Moving onto rolls or balls
- Tools secured in position
- Moveable table
- Production change time of 2 min 30 seconds
- Table attached to the press.

Advantages of this solution:
- Time saver, tools availability
- No more waiting time of handling equipment in order to change production.

IDEAL SOLUTION FOR TOOL CHANGE WITHIN LIMITED SPACE

- Manual Liftmatic, electrically driven upward and downward
- Flat surface
- 400 kg capacity
- Compact design for easy travel between presses
- Retractable and moveable side safety.

SPECIAL PLATE FOR FORKLIFT

- Special plate AQBFM* to set-up on forks
- Capacity 1000 kg
- Very easy manual moving of the tool with balls in upper position
- Secure use of the handling equipment with balls in lower position.

Additional safety:
- Sensor preventing handling equipment to move when balls are in upper position
- Side safety removable and moveable for smaller tools
- Fixed side safety for larger tools
- Integrated dripping oil collection tray.

The tool can be safely moved from the racking to the press and vice versa with the balls in lower position.

ELECTRICAL MULTIMATIC 2 TOOLS

- Changing a tool simplicity itself!
- Rotating plate table, with retractable rollers.
- Minimum footprint.
- Maximum manoeuvrability.

TECHNICAL DATA : TOOL

<table>
<thead>
<tr>
<th>Reference</th>
<th>MULTIMATIC E2x400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pedestrian</td>
</tr>
<tr>
<td>Truck movement</td>
<td>Electric</td>
</tr>
<tr>
<td>Lowering Height</td>
<td>800 - 1400 mm</td>
</tr>
<tr>
<td>Plate rotation</td>
<td>180°</td>
</tr>
</tbody>
</table>

TECHNICAL DATA : TRUCK

<table>
<thead>
<tr>
<th>Reference</th>
<th>MULTIMATIC E2x400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pedestrian</td>
</tr>
<tr>
<td>Truck movement</td>
<td>Electric</td>
</tr>
<tr>
<td>Lowering Height</td>
<td>800 - 1400 mm</td>
</tr>
<tr>
<td>Plate extension</td>
<td>500 mm</td>
</tr>
<tr>
<td>PU x LU (mm)</td>
<td>650 x 710</td>
</tr>
</tbody>
</table>

ELECTRICAL MULTIMATIC WITH ADDITIONAL EXTENSION / PLATE TO GO OVER OBSTACLES

- 500 kg capacity
- Hydraulic plate moving when balls are activated
- Moving electrical forkift
- Retractable and moveable side safety.

TECHNICAL DATA : TRUCK

<table>
<thead>
<tr>
<th>Reference</th>
<th>MULTIMATIC E500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pedestrian</td>
</tr>
<tr>
<td>Truck movement</td>
<td>Electric</td>
</tr>
<tr>
<td>Lowering Height</td>
<td>800 - 1480 mm</td>
</tr>
<tr>
<td>Plate extension</td>
<td>500 mm</td>
</tr>
<tr>
<td>PU x LU (mm)</td>
<td>650 x 710</td>
</tr>
</tbody>
</table>

ELECTRICAL MULTIMATIC WITH PUSH-PULL UNIT

- Minimum footprint and with push pull unit

TECHNICAL DATA : TOOL

<table>
<thead>
<tr>
<th>Reference</th>
<th>MULTIMATIC EP 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pedestrian</td>
</tr>
<tr>
<td>Truck movement</td>
<td>Electric</td>
</tr>
<tr>
<td>Pushing tool load</td>
<td>925 mm travel</td>
</tr>
<tr>
<td>PU x LU (mm)</td>
<td>650 x 710</td>
</tr>
</tbody>
</table>

Contact@rotobloc.com

All the specifications on www.rotobloc.com
TOOL

<table>
<thead>
<tr>
<th>Smallest tool (mm)</th>
<th>Biggest tool (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>d</td>
<td></td>
</tr>
<tr>
<td>w</td>
<td></td>
</tr>
<tr>
<td>e</td>
<td></td>
</tr>
<tr>
<td>k</td>
<td></td>
</tr>
<tr>
<td>m</td>
<td></td>
</tr>
</tbody>
</table>

Weight (kg) min: max

Value if T°C > 70°C = °C

Press table and ram

Machining your slot upon request

Press table

Position table / press basement

Press

Simple effect tonnage of the press kN

Several effects, other load => specify:

PARTICULAR CASES

+ Smaller
+ Flushing
+ Larger

“C-frame” press

Straight side press

Other:

Tool plate material:
- Steel
- Aluminium
- Other:

 ram (T)

 Slot

Scrap & part clearance

Other (attached drawing, pictures)

PARTICULAR CASES