TOP-QUALITY PRODUCTS ARE PRODUCED ON DEMMELER’S OUTSTANDING WELDING TABLES

Extension arm production for a TRUMPF TruLaser Cell

Page 4
Ladies and gentlemen, business partners and customers,

We are continuously investing in development and process optimisation in order to ensure that we can meet the growing demands for outstanding product quality coupled with short delivery times and fair market prices long into the future.

True to the motto HIGH PERFORMANCE 2019+, our new DEMMELER logistics centre is now fully up and running. Our many faithful regular customers: Thousands of craft operations, medium-sized companies and major corporations all around the globe enjoy outstanding success every day thanks to our top-quality welding tables, tools and manipulators.

And for us, it is the human operator with the specialist knowledge that is always the focus of our attention. It is our ambition to provide operators with optimum working conditions and help them achieve outstanding efficiency over many decades. Our patented DEMMELER Ergonomix series of manipulators not only boasts a space-saving footprint but also has a unique 180° swivel range. Thanks to this, the workpiece can always be moved to the optimum position for welding or assembly reliably and quickly. These operations are reproducible and therefore compatible with Industry 4.0 requirements thanks to our optional teach controller.

The DEMMELER original 3D welding tables and tools excel thanks to their exceptional flexibility and outstanding quality even in tough working conditions in the steel construction sector. Lightweight yet extremely stable aluminium-titanium clamping and locating angles can be optimally clamped for long-term use and without indents using our unique DEMMELER PPC bolts with polygons.

We hope you will enjoy discovering our welding news and look forward to welcoming you to our autumn exhibitions.

Kind regards
Johannes Demmeler
Executive Partner
Click and scroll through the entire range of DEMMELER 3D clamping systems and manipulators ...
Extension arm production for a TRUMPF TruLaser Cell on a DEMMELER 3D welding table with scissor lift.

Top-quality products are produced on DEMMELER’s outstanding welding tables.

DEMmeler 3D welding table (PE) D28
with scissor lift
- Work ergonomically and with maximum flexibility
- Continuously variable height adjustment with the DEMMELER scissor lift
- 4000 x 2000 mm DEMMELER 3D welding table (PE) D28 for unlimited clamping capabilities. Worktop with D28 system bores in a 100 x 100 mm grid. 3-row bore pattern on the table side plates.
Quality products that enjoy an excellent reputation around the world are manufactured in Ditzingen, Swabia. Applications for TRUMPF machine tools and lasers are used in a wide variety of industries, from the automobile industry to steel and sheet metal processing, aviation and aerospace to orthopaedics and medical technology.

MINIMAL DIMENSIONAL TOLERANCES FOR HIGH-TECH PRODUCTS

Precision is an essential characteristic of all TRUMPF products. Which is why TRUMPF counts on DEMMELER products in its manufacturing operations. Thanks to the sophisticated system and the comprehensive accessories, which are versatile in use and are easy to change over, manufacturing operations at TRUMPF would be inconceivable without DEMMELER welding tables. The minimal dimensional tolerances of the DEMMELER welding tables throughout their service life and the efficient manufacturing possibilities of the versatile systems are fundamental requirements for high-quality production at competitive global market conditions.

Production of the extension arm with Y-axis for the TRUMPF 3D laser cutting system, TruLaser Cell 7040. The Z-axis with the cutting head is attached to this

DEMMELER’s extensive and sophisticated range of clamping tools

- Permits unlimited clamping capabilities
- Clamping and locating angles for use as tall stop
- Screw clamps for fast, powerful and accurate work piece clamping
- The original DEMMELER PPC bolt – for self-centring, force-locked and low-wear clamping

Screw clamp 180° with spindle
Item no.: D28-07005-000

Clamping and locating angle aluminium-titanium 300
Item no.: P28-03002-002/-003

Original DEMMELER polygon bolts, short
Item no.: D28-06025-000

Even force distribution across the polygon bolts also reduces bore hole wear

Continuously variable angle adjustments

Adjustable
The optimum 3D welding table for every application.
Innovative details for even more efficiency.

SYSTEM SIZES AND PRODUCT ADVANTAGES OF THE 3D CLAMPING SYSTEM FROM DEMMELER!

Optimum positioning of the work piece not only makes work more accurate but also much more effective. In addition to hardness, system tables from DEMMELER have clear advantages compared to conventional tables. These include intelligent system grids, axis designations with fine scaling, additional drill holes and protective countersinks for optimum protection of tools and table surfaces.

FOR DELICATE APPLICATIONS

D16 PROFIPlusLINE (PL)
- Diagonal grid 50 × 50 mm
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row

D16 PROFIEcoLINE (PE)
- Grid 50 × 50 mm
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row

FOR LIGHT AND MEDIUM-DUTY APPLICATIONS

D22 PROFIPremiumLINE (PP)
- Grid 50 × 50 mm
- 3-row bore pattern on the table side plates, 50 × 50 mm diagonal grid

D22 PROFIPlusLINE (PL)
- Diagonal grid 100 × 100 mm
- 2-row bore pattern on the table side plates, 50 mm grid
Original 3D welding tables from DEMMELER stand out due to their extreme robustness and durability. With the specially optimised DEMONT hardening process, you get the best surface properties with a hardness of up to 860 Vickers - making them even more wear-free and durable.

### 3D clamping system

**Overview**

- **Precision scaling**
- **Protective countersink**
- **Additional bores**
- **Foot sleeve**

### FOR EVERYDAY AND LARGE WELDING CONSTRUCTION

**D28 PROFIPremiumLINE (PP)**
- Grid 50 x 50 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle

**D28 PROFIProLINE (PL)**
- Diagonal grid 100 × 100 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle

**D28 PROFIEcoLINE (PE)**
- Grid 100 x 100 mm
- 3-hole drilling pattern in the table side plates, 50 mm grid in the top and bottom rows with additional 100 mm grid in the middle

**D28 HobbyLINE (H)**
- Grid 100 x 100 mm
- Worktop approx. 25 mm high with system bores in a 100 mm x 100 mm grid
For large welded constructions:

**DEMMELER 3D WELDING TABLE PROFIPlusLINE (PL) 28**

- Worktop with D28 system bores in a 100 mm x 100 mm double grid
- 3-hole drilling pattern in the table side plates, 50-mm grid in the top and bottom rows with an additional 100-mm grid in the middle
- Table sizes optionally available in hardened version, DEMONT 760 M and DEMONT 860 M, (up to 860 Vickers)
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

**Pivoting leg** with stable M 30 × 2 threaded spindle, finely adjustable ± 30 mm

**Leg sleeve** prevents pinching the welding hose and protects the threaded spindle against dirt.

### TABLE SIZE L x W

<table>
<thead>
<tr>
<th>TABLE SIZE  L x W</th>
<th>TABLE WITH STANDARD LEG</th>
<th>DEMONT 760 M HARDENED</th>
<th>DEMONT 860 M HARDENED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 x 1000 mm</td>
<td>PL28-01001-001</td>
<td>PL28-01001-011</td>
<td>PL28-01001-021</td>
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</table>
You can individually assemble or supplement your sets with the large selection of DEMMELER accessories.

The DEMMELER general catalogue is available at www.demmeler.com.

**Accessory sets PROFIPlusLINE (PL) 28**

- **PROFIPlusLINE (PL) 28 Set D 710**
  - Item no.: D28-52000-710 (44-piece)

- **PROFIPlusLINE (PL) 28 Set D 720**
  - Item no.: D28-52000-720 (81-piece)

- **PROFIPlusLINE (PL) 28 Set D 730**
  - Item no.: D28-52000-730 (120-piece)

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**PPC bolt surcharge**

- Set D710 D28-52000-711
- Set D720 D28-52000-721
- Set D730 D28-52000-731

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Demmeler Maschinenbau
PROFIEcoLINE (PE) 28 3D welding table

For large welded constructions:

DEMMELER 3D WELDING TABLE

PROFIEcoLINE (PE) 28

- Worktop with D28 system bores in a 100 mm x 100 mm grid
- 3 drilling pattern in the table side plates, 50 mm grid in the top row with additional 100 mm grid in the middle and bottom rows
- Table sizes optionally available in hardened version, DEMONT 760 M and DEMONT 860 M, (up to 860 Vickers)
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

Pivoting leg with stable M 30 × 2 threaded spindle, finely adjustable ± 30 mm
Leg sleeve prevents pinching the welding hose and protects the threaded spindle against dirt.

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<td>PE28-11085-011</td>
<td>PE28-11085-021</td>
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</tbody>
</table>

Special sizes available upon request! On request the table is also available in a stainless steel version!

Errors and changes reserved. Offer is non-binding.
## Accessory sets **ProfiEcoLINE (PE) 28**

### ProfiEcoLINE (PE) 28 Set E 710

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
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<tbody>
<tr>
<td>E28-03001-000</td>
<td>ECO clamping and locating angle 175 x 175 x 50 mm</td>
</tr>
<tr>
<td>E28-03002-000</td>
<td>Clamping and locating angle right 300 x 275 mm</td>
</tr>
<tr>
<td>E28-03002-001</td>
<td>Clamping and locating angle left 300 x 275 mm</td>
</tr>
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<td>E28-03003-000</td>
<td>PE clamping and locating angle right 600 x 275 x 80 mm</td>
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<tr>
<td>E28-03003-001</td>
<td>PE clamping and locating angle left 600 x 275 x 80 mm</td>
</tr>
<tr>
<td>E28-03008-000</td>
<td>ECO clamping and locating angle 275 x 175 x 50 mm</td>
</tr>
<tr>
<td>E28-05001-000</td>
<td>ECO Universal stop / size 225 x 50 x 25 mm</td>
</tr>
<tr>
<td>E28-05002-000</td>
<td>ECO Universal stop / size 100 x 50 x 25 mm</td>
</tr>
<tr>
<td>E28-05003-000</td>
<td>ECO Stop strip L 500 - 500 x 100 x 25 mm</td>
</tr>
<tr>
<td>E28-05003-001</td>
<td>ECO Stop strip L 800 - 800 x 100 x 25 mm</td>
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<tr>
<td>E28-05013-000</td>
<td>ECO locating disk 25-50 mm</td>
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<tr>
<td>E28-05013-001</td>
<td>ECO locating disk 25-75 mm</td>
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<tr>
<td>E28-06001-000</td>
<td>ECOLine bolt / short Ø 28 x 95 mm</td>
</tr>
<tr>
<td>E28-07005-000</td>
<td>ECO screw clamp 180° with spindle</td>
</tr>
<tr>
<td>E28-07009-000</td>
<td>ECO variable screw clamp 45° with spindle</td>
</tr>
<tr>
<td>E28-09003-000</td>
<td>ECO prism holder Ø 58 mm</td>
</tr>
<tr>
<td>E28-10002-000</td>
<td>ECO round brush Ø 28 mm</td>
</tr>
<tr>
<td>E28-10008-000</td>
<td>ECO ball-head Allen key AF 8</td>
</tr>
</tbody>
</table>

You can individually assemble or supplement your sets with the large selection of DEMMELER accessories. The DEMMELER general catalogue is available at [www.demmeler.com](http://www.demmeler.com).

### ProfiEcoLINE (PE) 28 Set E 720

### ProfiEcoLINE (PE) 28 Set E 730
For delicate applications:

**DEMMELER 3D WELDING TABLE**

**PROFIPlusLINE (PL) 16**

- Worktop with D16 system bores in a 50 x 50 mm double grid
- 3-row bore pattern on the table side plates, 50 mm grid in the top, middle and bottom row
- Table sizes optionally available in hardened version, DEMONT 760 M (up to 760 Vickers)
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y-direction

**HARDNESS**

**DEMONT 760 M**

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<td>3000 x 1500 mm</td>
<td>PL16-01004-001</td>
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¹Consists of 2x 1500 x 1500 x 100 mm.

**DIFFERENT LEG VARIETIES ARE AVAILABLE UPON REQUEST.**

- Telescoping leg
- Heavy-duty wheel
- Anchoring leg

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For delicate applications:

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<td>PE16-01003-011</td>
</tr>
<tr>
<td>3000 x 1500 mm²</td>
<td>PE16-01004-001</td>
<td>PE16-01004-011</td>
</tr>
</tbody>
</table>

'Consists of 2x 1500 x 1500 x 100 mm.

Special sizes available upon request! The table is also available in other materials (e.g. stainless steel) on request!

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You can individually assemble or supplement your sets with the large selection of DEMMELER accessories. The DEMMELER general catalogue is available at www.demmeler.com.
3D clamping system

tools

NEW DESIGN

HIGH PERFORMANCE – perfect handling with the DEMMELER performance screw clamp

Continuous swivelling. Rotation through 360°. Simplifies all-round operation!

Adjustment range of clamping spindle over 130 mm by rotating the retaining tube

Three exchangeable actuation modes (spindle, short boring spindle and quick-action clamping cylinder)

Adjustable circular tube

Continuously swivelling and 360° rotating

Can be folded together flat

max. 240 mm

Tube length 300 mm

Clamping pad with V-block: Self-centring clamping on the work piece

Performance screw clamp with spindle

- Universally usable for the horizontal/vertical and oblique clamping of work pieces
- Continuously swivelling and 360° rotating
- Adjustment range of clamping spindle over 130 mm by rotating the retaining tube without having to move the clamp (previous version: 68 mm)
- Can be folded together flat (less storage space required)
- With three exchangeable actuation modes (spindle, short boring spindle and quick-action clamping cylinder)
- Max. horizontal length 240 mm, C 300 mm
- Weight approx. 2.2 kg

Item no.: D28-07009-033

Adjustment screw with bushing and clamping pads
Item no.: D28-07020-000

Short boring spindle with bushing and clamping pads
Item no.: D28-07022-000

Quick-action clamping cylinder with clamping pads
Item no.: D28-07021-004
Flexible down to the details. Thanks to the modular system, the screw clamp adapts perfectly to different clamping situations. The continuous swivelling and rotation capability through ±360° permits the horizontal/vertical and oblique clamping of round and rectangular work pieces. The clamping pad with V-block, which is supplied as standard, always ensures self-centring clamping at the work piece. The V-block prevents slipping and tipping. Depending on the shape and characteristics of the item to be clamped, other support and pressure pieces are available for high-speed changeovers.

Other accessories and clamps can be found at www.demmeler.com.

Typical potential applications

Confined spaces. The DEMMELER performance screw clamp permits simple clamping even in hard-to-access locations. At the same time, the clamping pad with V-block ensures central force distribution.

High-precision clamping. The performance screw clamp also always provides a firm grip when work pieces are clamped obliquely. With continuous swivelling and 360° rotation, it is suitable for every clamping situation.

Extended adjustment range. Thanks to the new shape, it is possible to clamp nearby work pieces as well as pieces at a greater distance to the next system bore without difficulty.
Ergonomix M 2000

The ultimate in flexibility during welding and assembly.

Limited space. Unlimited possibilities. Outstanding flexibility during welding or assembly work thanks to swivel range of up to 180° as standard.

A special characteristic of the DEMMELER Ergonomix M product family is the large swivel range of up to 180°. This has the crucial advantage with many work pieces of being able to process them fully in one clamping cycle without turning them over. The excellent price-performance ratio of the DEMMELER products is the key feature.

Request our current manipulator brochure as well.
Equipment for the Ergonomix M 2000 and optimum extension capabilities

1. Controller
   Series equipment
   - with pendant control panel
   - with foot switch

2. Teach controller
   Item no. Z00-01001-008

3. Laser scanner
   Item no. Z00-01010-001

4. Rotary feedthroughs
   for querying the state of fixtures, electrical:
   Item no. Z00-01004-005
   for pneumatic clamping fixtures:
   Item no. Z00-01004-008
   for hydraulic clamping fixtures:
   Item no. Z00-01004-009

5. Ground connector
   max. 400 A at 60% ED:
   Item no. Z00-01000-002
   max. 700 A at 60% ED:
   Item no. Z00-01000-009

Using the teach controller, it is possible to store multiple different work piece programs and call them when needed.

Using the teach controller, it is possible to store multiple different work piece programs and call them when needed.

Basic model Ergonomix M 2000

<table>
<thead>
<tr>
<th>Description</th>
<th>M 2000 / V1250</th>
<th>M 2000 / V2500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearing load (w/o worktop) [kg]</td>
<td>2000</td>
<td>2000</td>
</tr>
<tr>
<td>D=max. interference area at 180° (w/o worktop) [mm]</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>At height [mm]</td>
<td>650</td>
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<tr>
<td>Max. rotation speed [RPM]</td>
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<td>Min. rotation speed [RPM]</td>
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<tr>
<td>Moment of tilt [Nm]</td>
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<tr>
<td>A=min. height (w/o worktop) [mm]</td>
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<tr>
<td>B=max. Height at 180° swivel angle [mm]</td>
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Specifications without worktop. Other equipment details on request.

Errors and changes reserved. Offer is non-binding.

Optional clamping solutions: Worktops and 3D worktables

3D worktable Okto (suitable for Ergonomix M2000)
- 3D worktable Okto with D28 system bores in 100 x 100 mm grid and M24 thread in diagonal grid
- Includes cover plate on the underside as collision protection
- Dimensions: SW 800, H 100 mm, weight: 155 kg

Item no.: D28-01013-032

Clamping and adapter plates (suitable for Ergonomix M2000)
- Clamping and adapter plate with D28 system bores in 100 x 100 mm grid and M24 thread in diagonal grid
- Includes cover plate on the underside as collision protection
- Dimensions: SW 800, H 25 mm, weight: 120 kg

Item no.: D28-02001-221
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