



OUR PERFORMANCE
makes THE DIFFERENCE



—
SMART
SYSTEMS.
FOR EFFICIENT
WORKING.
—

FLEXIBLE POSITIONING

DEMMELE Manipulators

ERGONOMIX M:
UNIQUE SWIVEL
RANGE UP TO
180 DEGREES



www.demmeler.com

INNOVATION +
PERFORMANCE
TECHNOLOGY FROM THE MARKET LEADER

Outstanding working environment with all the freedom you need

Ladies and gentlemen,
business partners and customers,

We are delighted to be able to present our up-to-date, newly developed range of handling devices to you in this catalogue.

As a family-run manufacturing company operating in the mechanical engineering field, we face new challenges every day in the worlds of welding, assembly and machining. At the same time, we are fully aware of our economic and social responsibilities in our dealings with our customers, partners and employees. We are absolutely committed to Germany as a centre of technology and we manufacture all our products at our headquarters in Heimertingen.

Alongside its many advantages, however, we are also aware of the challenges posed by our production location. High wage levels, a constantly ageing population, together with price and cost pressures, mean that continuous process optimization is essential.

Of course, you, too, are also perfectly familiar with these issues. One reason for our great innovative strength and quality consciousness is that we use our products ourselves.

They form the basis for our business success. That is why we have developed our manipulators – just like all our other products – in the light of the following criteria:

- + **Cut production costs**
- + **Improve quality**
- + **Enhance ergonomics**
- + **Improve safety at work**

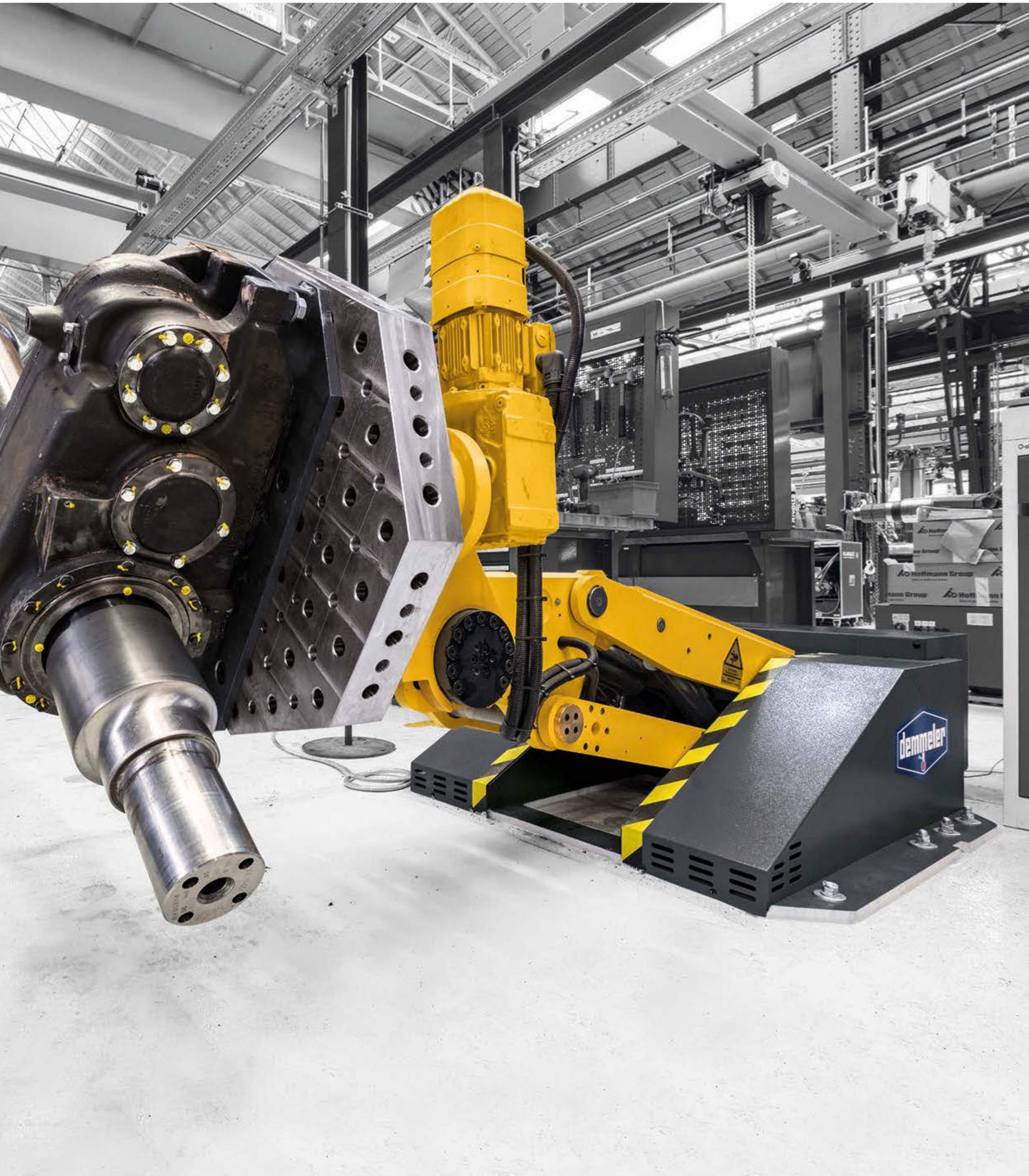
By using our products, you, too, can benefit from these four factors of success. Your customers and employees will tell you you have made the right decision!

I hope you enjoy reading and discovering our manipulator catalogue. If you have any questions or individual issues to discuss, our sales team will be delighted to advise you – wherever you are in the world! Because there is one thing we know for sure: "Our success depends on your success!"



Yours Johannes Demmeler
Managing Director Executive Partner





Our specialists in precise positioning

Work pieces to 40,000 kg lifting, turning, tilting



Unique swivel range up to 180 degrees.



Winner of the German federal prize for innovative performance in the trade

Ergonomix M

- Maximum work area with minimized footprint
- Low installation height
- Unique swivel range up to 180°
- Comfortable work
- High flexibility

Lifting / turning / tilting

Tilting from 0° to 180°

Bearing load up to 8,000 kg

From page 10

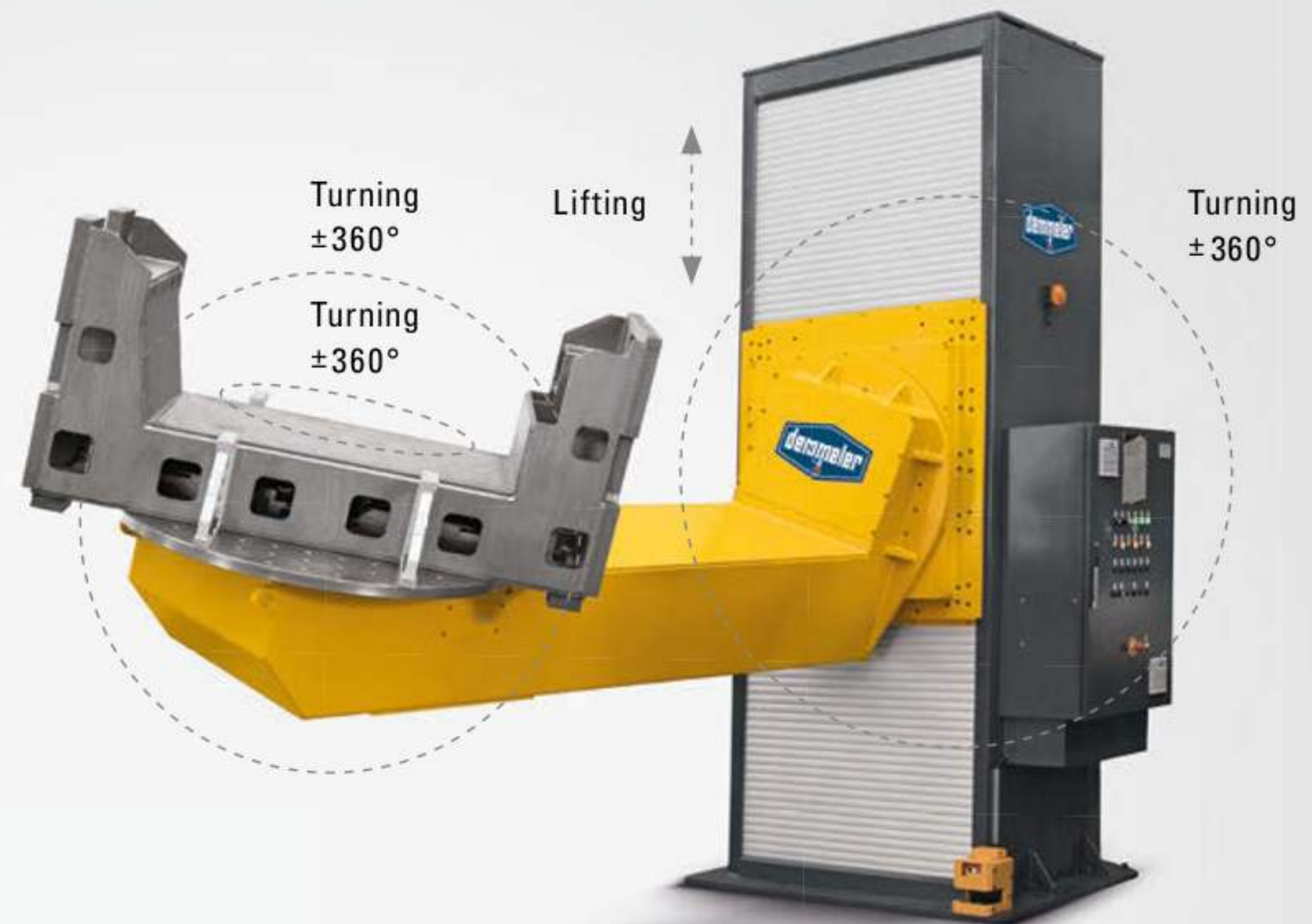
Robotix LP

- Enables positioning of work pieces with very high precision
- High repeat accuracy
- Two rotation axes and one lifting axis possible
- Suitable for integration in a robot cell

Lifting / Turning

Tilting Bearing load to 20,000 kg

From page 16



Robotix IP

- Flexible positioning of high-load work pieces
- Efficient manufacturing
- Comfortable work

Lifting / Turning /

Tilting Bearing load to 40,000 kg

From page 20

DEMMELER Manipulators

Excellent posture and maximum productivity

Increase the quality level

- Working in the ideal position and at the ideal height
- Less welding distortion through optimised welding sequences
- Consistent quality with optional teaching function to save reproducible sequences

Protection of health and safety

- Avoidance of overloading and poor posture, which means less staff absenteeism
- Ergonomically-optimised work environment
- Employees with physical constraints can perform tasks that they could not perform without the manipulator (possibly investment aid possible by means of funding)
- Dangerous handling of work pieces with a crane is significantly reduced

Increased productivity

- Multiple, time-consuming rotating and turning of the work pieces, for example with a crane, is eliminated for a major reduction in non-productive time and a significant increase in productivity
- Higher melting deposition efficiency when welding as most seams can be performed in the optimal position (flat position)
- Higher work performance due to fatigue-free working position





ERGONOMIX

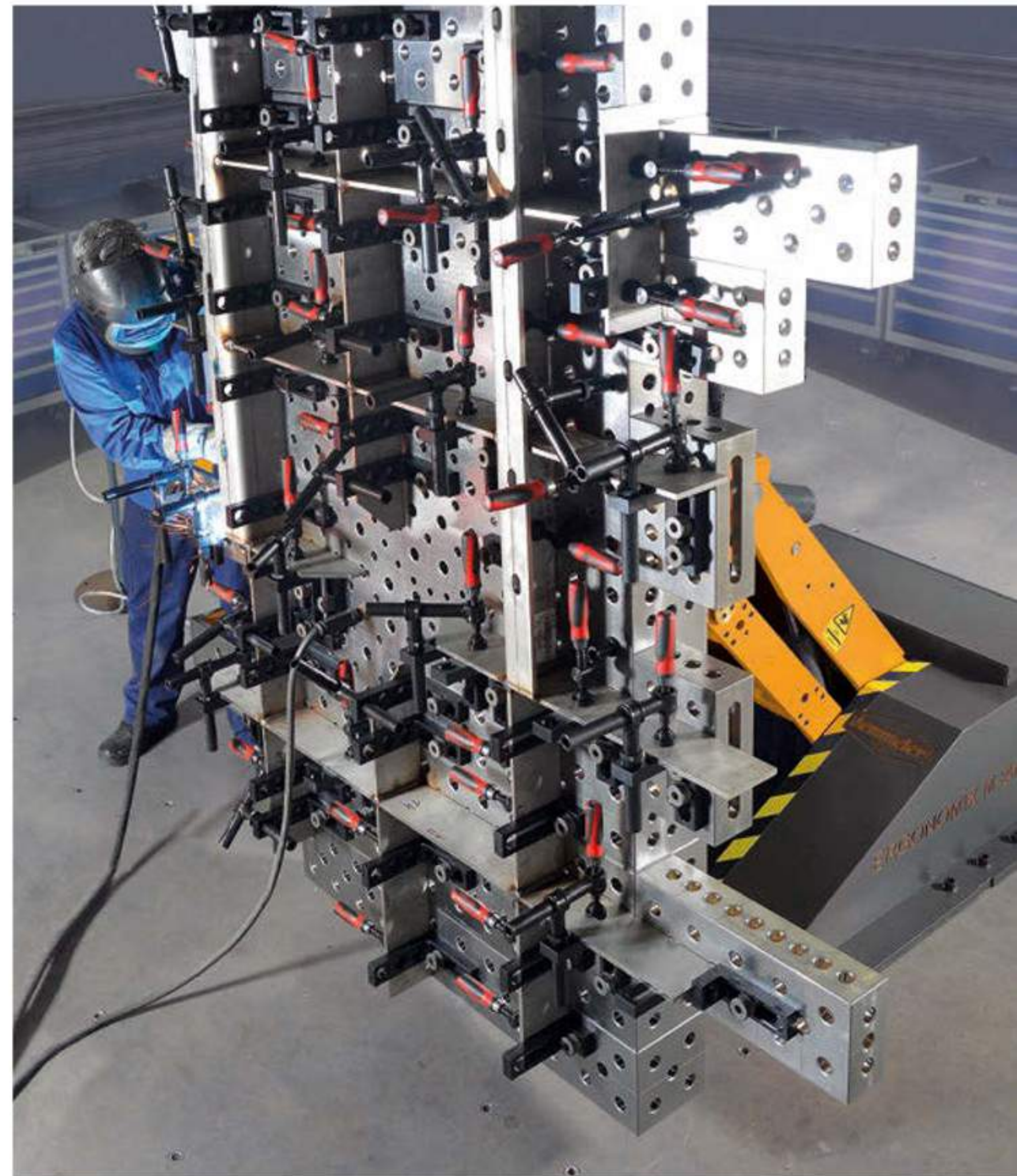
Unlimited opportunities

Manipulators in tough everyday working conditions



Welding and assembly – Simple, rapid work piece positioning

The size and bulkiness of work pieces often create difficulties during welding, because not all points can be seen well. However, an optimal overview is a prerequisite for clean and error-free work. Due to their dimensions, work pieces must be moved several times during the work process with a heavy device, usually with a crane. Reduce this safety risk with the manipulator from DEMMELER. The manipulator is a kind of lifting platform on which work pieces can be machined directly. You can extend the manipulator by the DEMMELER 3D Okto Table. This gives you a working surface that is precisely adapted to your work pieces. The fact that all locations are easily accessible simplifies welding, measuring and assembling.



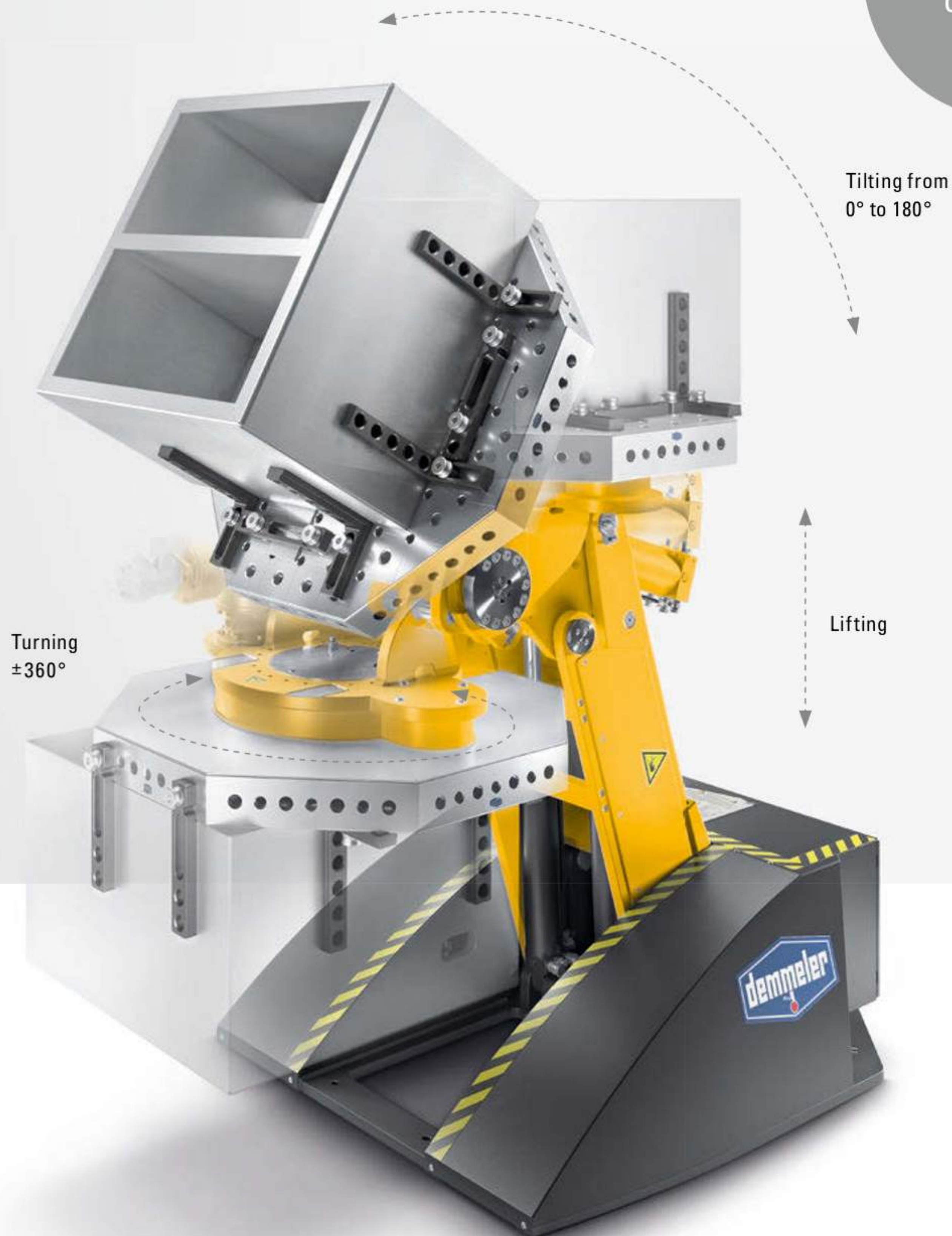
Since the tiltable manipulator can be adjusted in height and angle at the push of a button, you create an ergonomic working environment and avoid health problems for your employees with this handling device. The profitability and quality of your products are also increased significantly by using the manipulator. The manipulator allows for very precise work with an optimised welding sequence, which considerably reduces the welding distortion rate. In addition, simple and fast assembly is optimally possible with standard processes.

2 | 3 | 4 | 8 tons

Manipulator Ergonomix M

Outstanding flexibility during welding or assembly work thanks to swivel range of up to 180° as standard

Unique moment of tilt and torque.



Benefits

- Large work area
- Solid construction
- Low installation height
- Unique swivel range up to 180° as standard
- Comfortable working
- Greater flexibility
- Improved workplace safety
- Increased productivity



DEMMELER Ergonomix M:
Winner of the German federal prize
for innovative performance in the trade



Limited space. Unlimited possibilities.

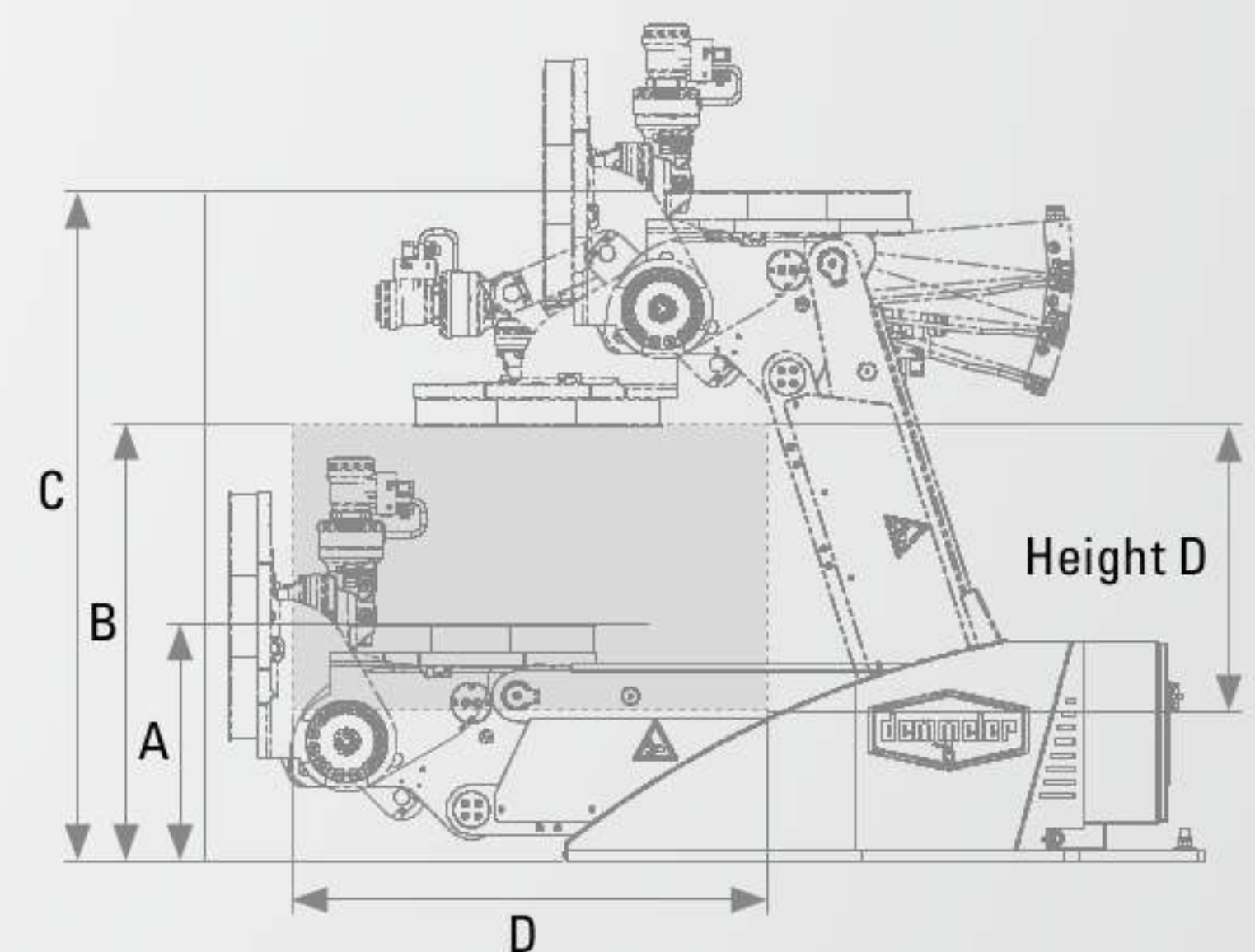
With the ingenious arrangement of the entire mechanism, the developers at DEMMELER were able to create a working space of unrivalled size combined with a small footprint for the Ergonomix M manipulator. The handling device consistently brings the highest payloads into the ideal position.

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.

Exact positioning

The movement axes bring your work piece to the desired position at the touch of a button, no matter how often the process step is repeated. To make things even easier, the manipulators can be optionally equipped with the optional teaching controller. You move to the various positions manually and save them. Then the manipulator repeats the programme as many times as you want. You thus improve your productivity and quality.

- At the same time, you eliminate repeated, time-consuming turning and rotating of the work piece, for example using a crane. This greatly reduces non-productive times and leads to significant increases in productivity.
- Higher melting deposition efficiency when welding as most seams can be performed in the optimal position (flat position).
- Simple, fast assembly in the optimum position using standard processes.



Ergonomix M basic model

| Description | | M 2000 / V1250 | M 2000 / V2500 | M 4000 | M 8000 |
|--|-------------|----------------|----------------|---------------|---------------|
| Bearing load (w/o worktop) | [kg] | 2000 | 2000 | 4000 | 8000 |
| D=max. Interference area at 180° (w/o worktop) At height | [mm] | 1000 | 1000 | 1500 | 2000 |
| | [mm] | 650 | 650 | 520 | 600 |
| Max. rotation speed | [RPM] | 1,4 | 1,4 | 2 | 1.5 |
| Min. rotation speed | [RPM] | 0.75 | 0.2 | 0.2 | 0.2 |
| Torque | [Nm] | 1250 | 2500 | 5000 | 10000 |
| Tilt angle | [°] | 180 | 180 | 180 | 180 |
| Moment of tilt | [Nm] | 8000 | 8000 | 32000 | 64000 |
| A=min. Height (w/o worktop) | [mm] | 490 | 490 | 750 | 895 |
| B=max. Height at 180° swivel angle | [mm] | 970 | 970 | 983 | 1142 |
| C=max. Height at 90° swivel angle | [mm] | 1480 | 1480 | 1680 | 1940 |
| Pendant control panel | | ✓ | ✓ | ✓ | ✓ |
| Foot pedal | | ✓ | ✓ | ✓ | ✓ |
| 10-speed control | | ✓ | ✓ | ✓ | ✓ |
| Motors / rotary axis | | 1 | 2 | 2 | 2 |
| Item no. | | M02-02000-006 | M02-02000-007 | M04-04000-000 | M08-08000-000 |

Specifications without worktop. Other equipment details on request.

Equipment for the Ergonomix M

Work without compromise right from the very start

To allow you to enjoy maximum benefit from the many capabilities and advantages of your Ergonomix M, we have a range of accessory equipment for you to use. Thanks to these solutions, you will save valuable time and be able to work more comfortably and with less effort.

1 Operation with pendant control panel

- Potentiometer – enabling reproducible speed settings
- Axis activation at the touch of a button
- Cable length 5 m

2 Controller in the control cabinet

- Master switch
- Compact construction
- Housing integrated in the manipulator

3 Operation with foot pedal

- Foot switch to control the rotation axis of the manipulator by pressing the pedal for left / right rotation
- Foot switch with emergency stop function. Pressing the pedal down all the way stops movement of the rotation axis immediately (panic function)
- The enabling button does not have to be pressed while controlling the rotation axis with the foot switch

4 Teach controller

- Up to 100 programmes with 50 positions each
- Operation via touchscreen
- Start movement by pressing the enabling button
- Offline programming possible
- Editing programmes in a text editor possible
- Data transfer per USB interface
- 10" display

You can move to the positions manually with the buttons and save specific positions in the work piece programme using the teach controller by pressing buttons. This results in a consistent movement sequence from one position to the next. Several different work piece programmes can be stored and called up as needed.



Optimum extension capabilities

| Control options | M 2000 / V1250 | M 2000 / V2500 | M 4000 | M 8000 |
|---|----------------|----------------|---------------|---------------|
| Teach controller ④ | Z00-01001-008 | Z00-01001-008 | Z00-01001-011 | Z00-01001-012 |
| Laser scanner, radius 3 m ⑤ | Z00-01010-001 | Z00-01010-001 | Z00-01010-001 | Z00-01010-001 |
| Extremely fine adjustment of rotary axis (only with variable electrical drive) 0.01 - 1.5 rpm | – | Z00-01002-022 | Z00-01002-022 | Z00-01002-022 |
| Increase in speed of rotary axis (only with variable electrical drive) up to 3 rpm | – | Z00-01002-031 | Z00-01002-031 | Z00-01002-031 |

| Additional options | M 2000 / V1250 | M 2000 / V2500 | M 4000 | M 8000 |
|---|----------------|----------------|---------------|---------------|
| Rotary feedthrough for querying the state of fixtures, electrical ⑥ | Z00-01004-005 | Z00-01004-005 | Z00-01004-005 | Z00-01004-005 |
| Rotary feedthrough for pneumatic clamping fixtures ⑥ | Z00-01004-008 | Z00-01004-008 | Z00-01004-008 | Z00-01004-008 |
| Rotary feedthrough for hydraulic clamping fixtures ⑥ | Z00-01004-009 | Z00-01004-009 | Z00-01004-009 | Z00-01004-009 |
| Ground connector ⑦ max. 400 A at 60% ED | Z00-01000-002 | Z00-01000-002 | Z00-01000-008 | Z00-01000-003 |
| Ground connector ⑦ max. 700 A at 60% ED | Z00-01000-009 | Z00-01000-009 | Z00-01000-013 | Z00-01000-014 |
| Floor plate without forklift pockets | 00068212 | 00068212 | 00097630 | – |
| Floor plate with forklift pockets | 00096126 | 00096126 | 00106030 | – |

Select the right worktop for your manipulator from our extensive selection. See also p. 14-15. It is not included in the scope of delivery. We are happy to provide you with cutting data / connection data for customer clamping elements. All load data for the installation location are provided when you place an order.

● Series equipment ○ Special equipment



Scan radius 3 m



⑤ Laser scanner

- Personnel and component protection
- Scan radius 3 m (other ranges on request)
- Clearing after area infraction by key-operated switch integrated in the control cabinet door
- Safety zone status display in control cabinet door

⑥ Rotary feedthroughs

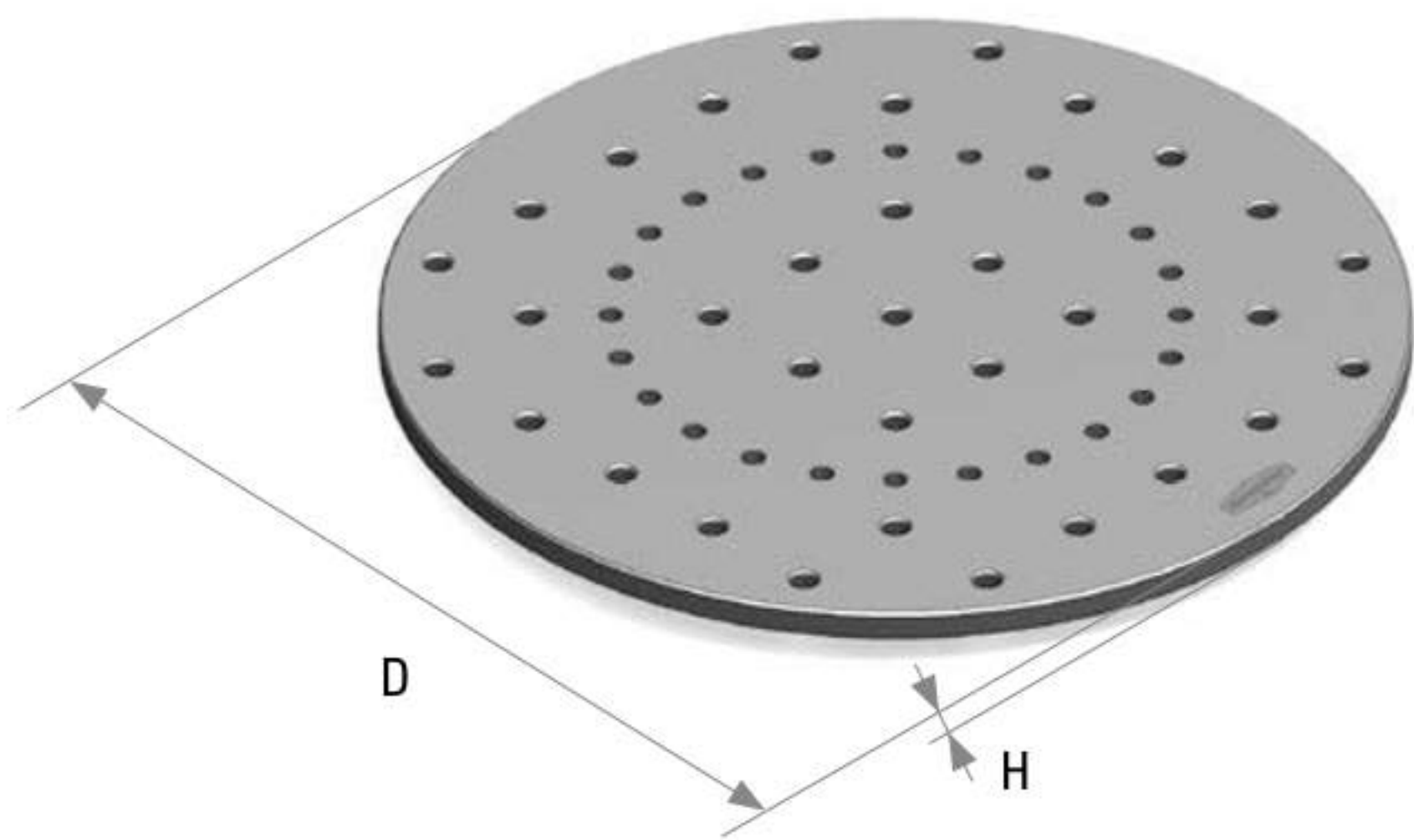
- Rotary feedthrough for querying the state of fixtures, electrical, 10 signals, teaching controller or controller in premises required
- Rotary feedthrough for pneumatic clamping equipment on worktop, pneumatic, 1-channel
- Rotary feedthrough for hydraulic clamping equipment on worktop, hydraulic, 1-channel

⑦ Ground connector

Ground connector for feeding the welding ground from the table to the interface next to the control cabinet, including sliding contact and quick coupling. Dinse connection 400 A at 60 % ED, optional 700 A at 60 % ED.

Optional clamping solutions

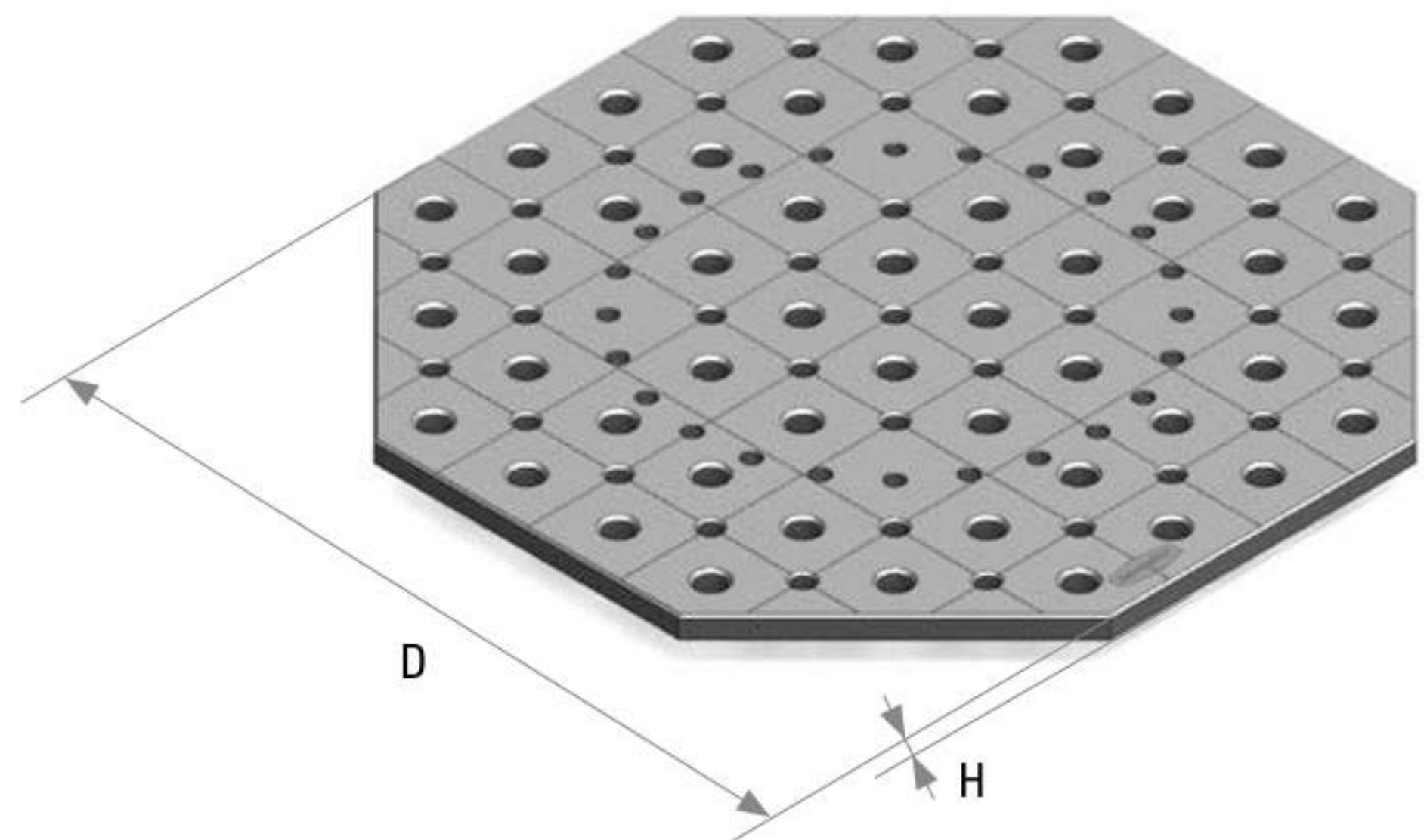
Worktops and 3D Worktables



Worktops with Thread M24

- Worktop with Thread M24
- Includes protective plate on the underside as collision protection

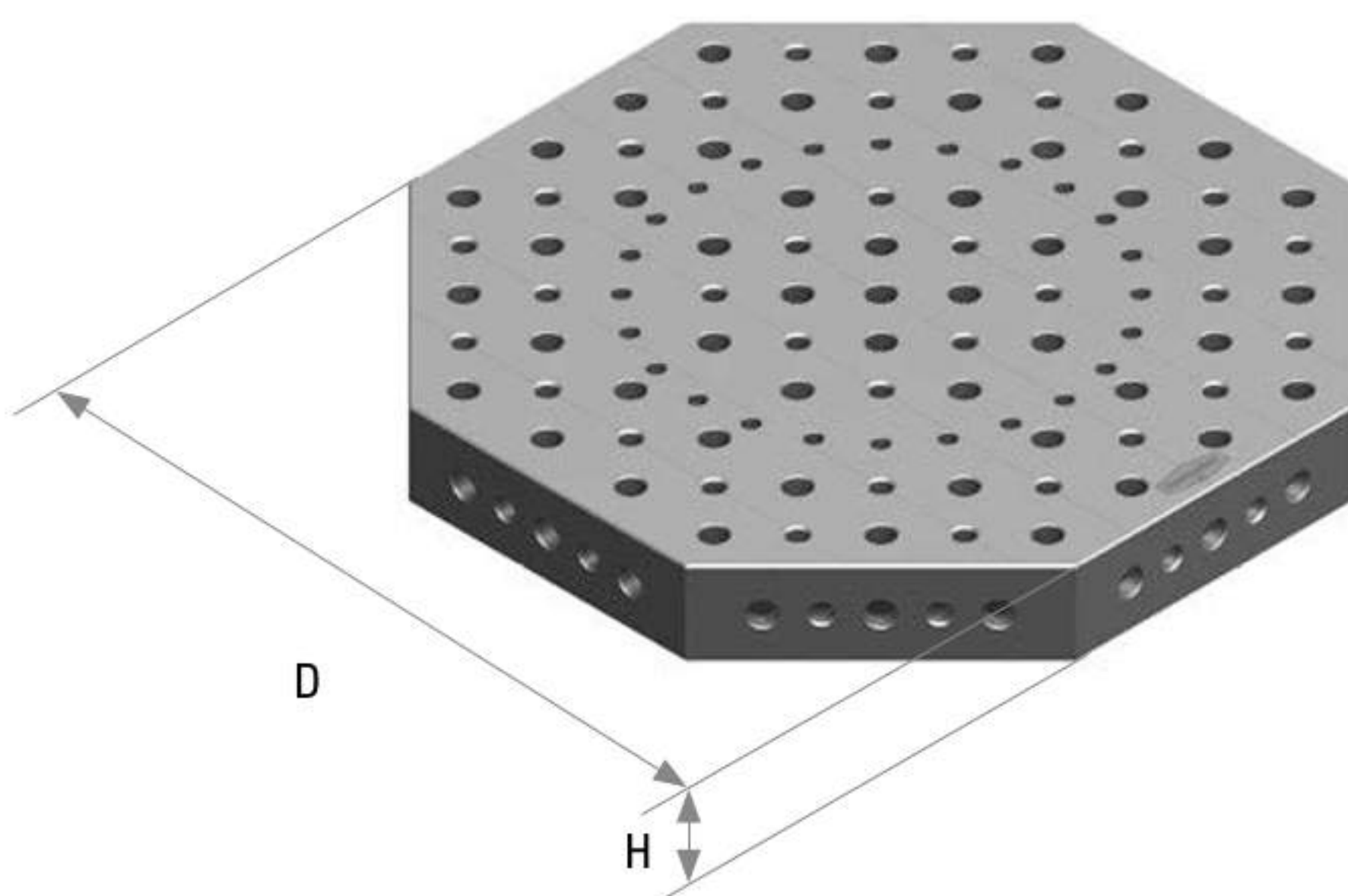
| Type | D* | H* | Weight in kg | Grid | Item no. |
|-------|--------|----|--------------|---------|----------|
| M2000 | ∅ 800 | 25 | 110 | 100x100 | 00059396 |
| M3000 | ∅ 1000 | 25 | 210 | 100x100 | 00117028 |
| M4000 | ∅ 1000 | 30 | 210 | 100x100 | 00071838 |
| M8000 | ∅ 1500 | 45 | 700 | 100x100 | 00064406 |



Clamping and Adapter Plates

- 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

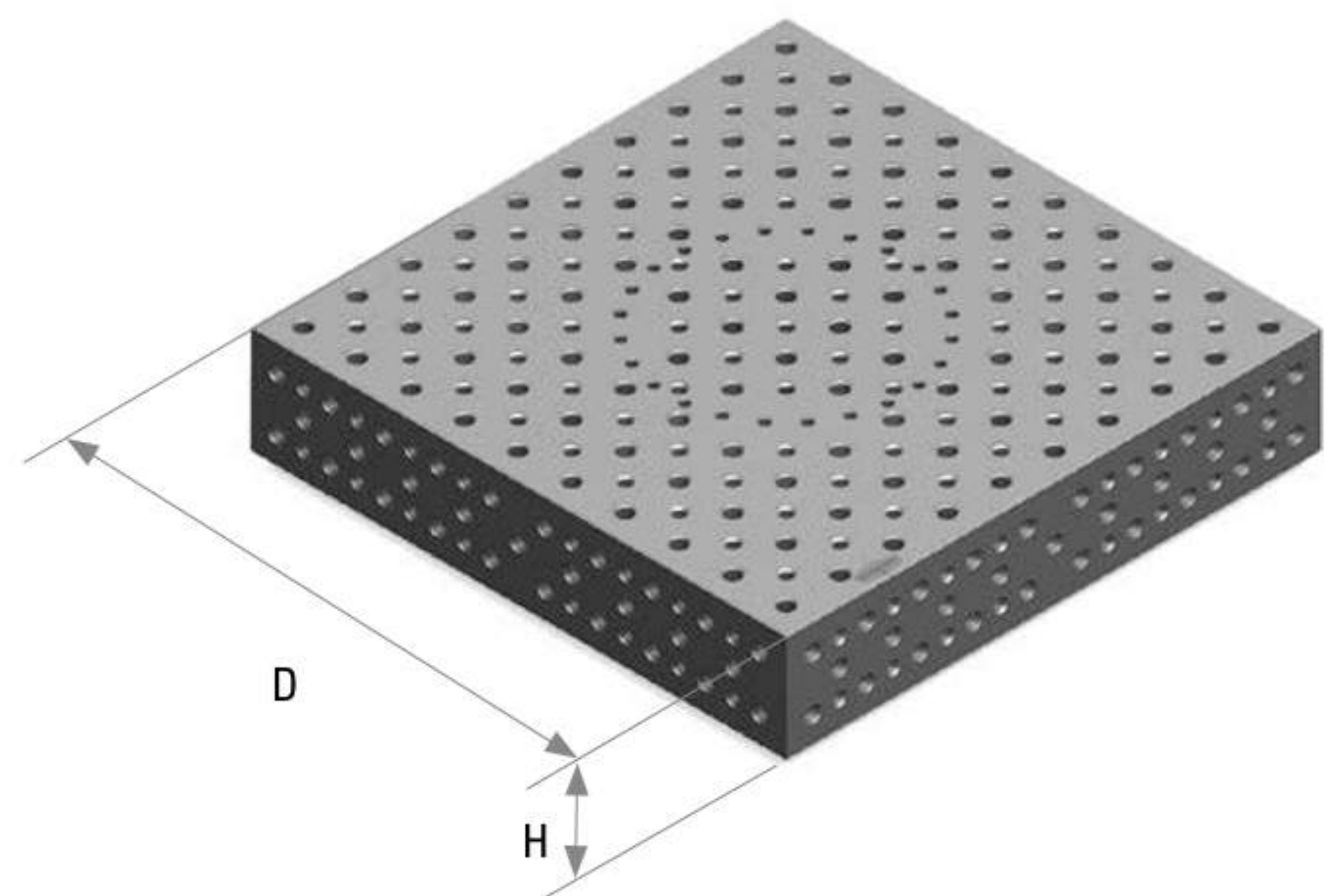
| Type | D* | H* | Weight in kg | Grid | Item no. |
|-------|---------|----|--------------|---------|---------------|
| M2000 | AF 800 | 25 | 120 | 100x100 | D28-02001-221 |
| M3000 | AF 1000 | 25 | 270 | 100x100 | D28-02001-471 |
| M4000 | AF 1000 | 30 | 270 | 100x100 | D28-02001-255 |
| M8000 | AF 1500 | 45 | 620 | 100x100 | D28-02001-251 |



3D Worktable Okto

- 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

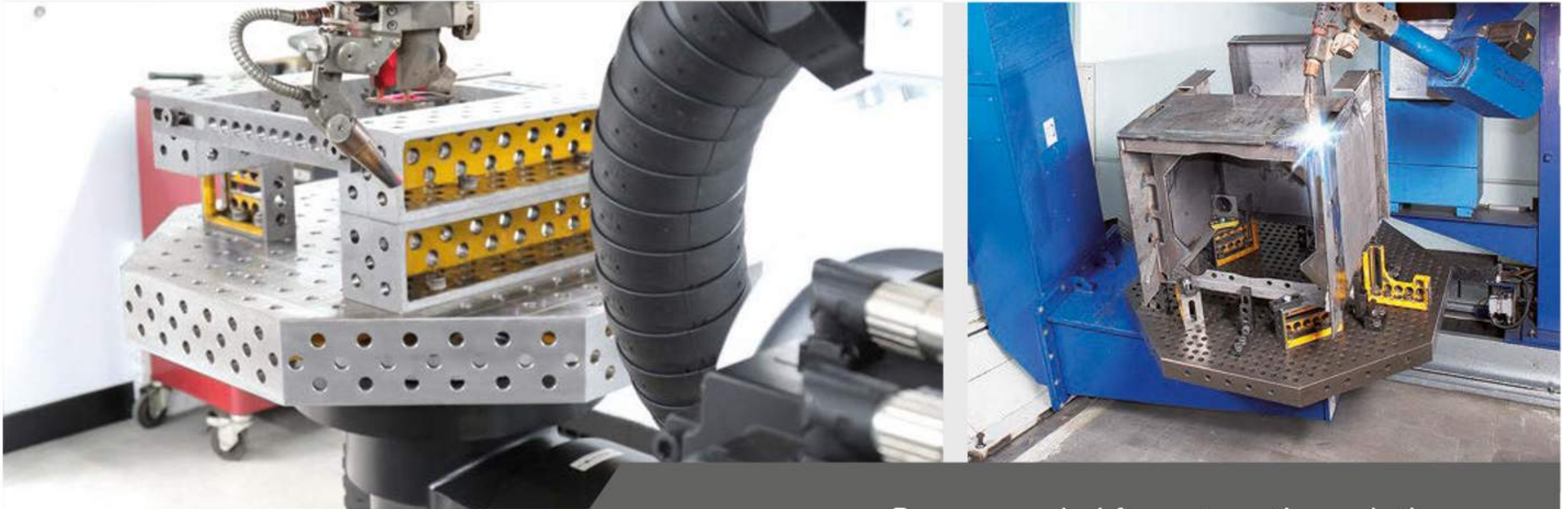
| Type | D* | H* | Weight in kg | Grid | Item no. |
|-------|---------|-----|--------------|---------|---------------|
| M2000 | AF 800 | 100 | 155 | 100x100 | D28-01013-032 |
| M3000 | AF 1000 | 100 | 380 | 100x100 | D28-01038-064 |
| M4000 | AF 1000 | 100 | 380 | 100x100 | D28-01038-028 |
| M8000 | AF 1500 | 200 | 770 | 100x100 | D28-12009-003 |



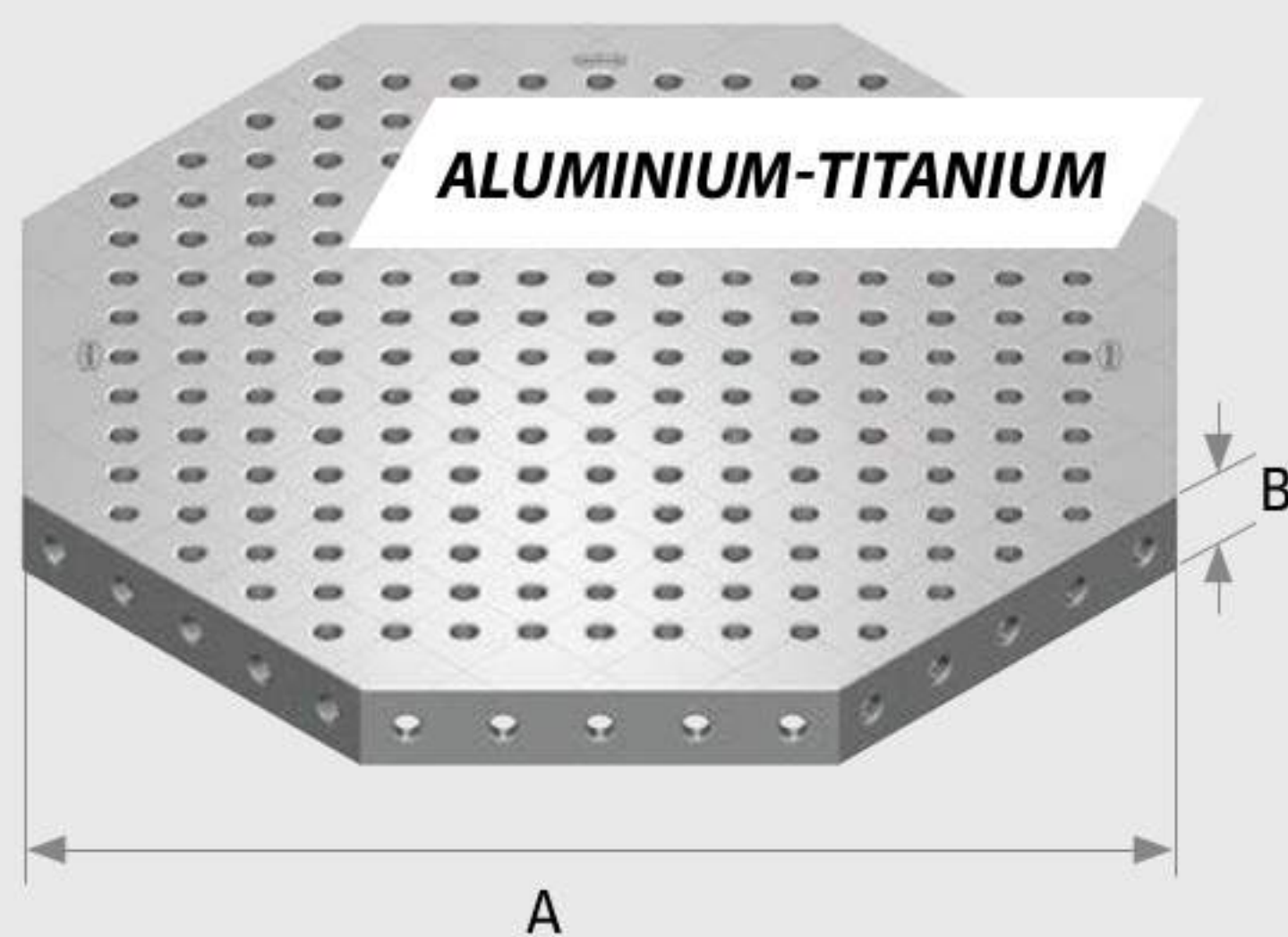
3D Work and Welding Table

- 3D Worktable 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

| Type | D* | H* | Weight in kg | Grid | Item no. |
|-------|-----------|-----|--------------|---------|---------------|
| M2000 | 1000x1000 | 200 | 355 | 100x100 | D28-01001-132 |
| M3000 | 1200x1200 | 200 | 540 | 100x100 | D28-01056-064 |
| M4000 | 1200x1200 | 200 | 540 | 100x100 | D28-01056-053 |
| M8000 | 1500x1500 | 200 | 675 | 100x100 | D28-01031-071 |



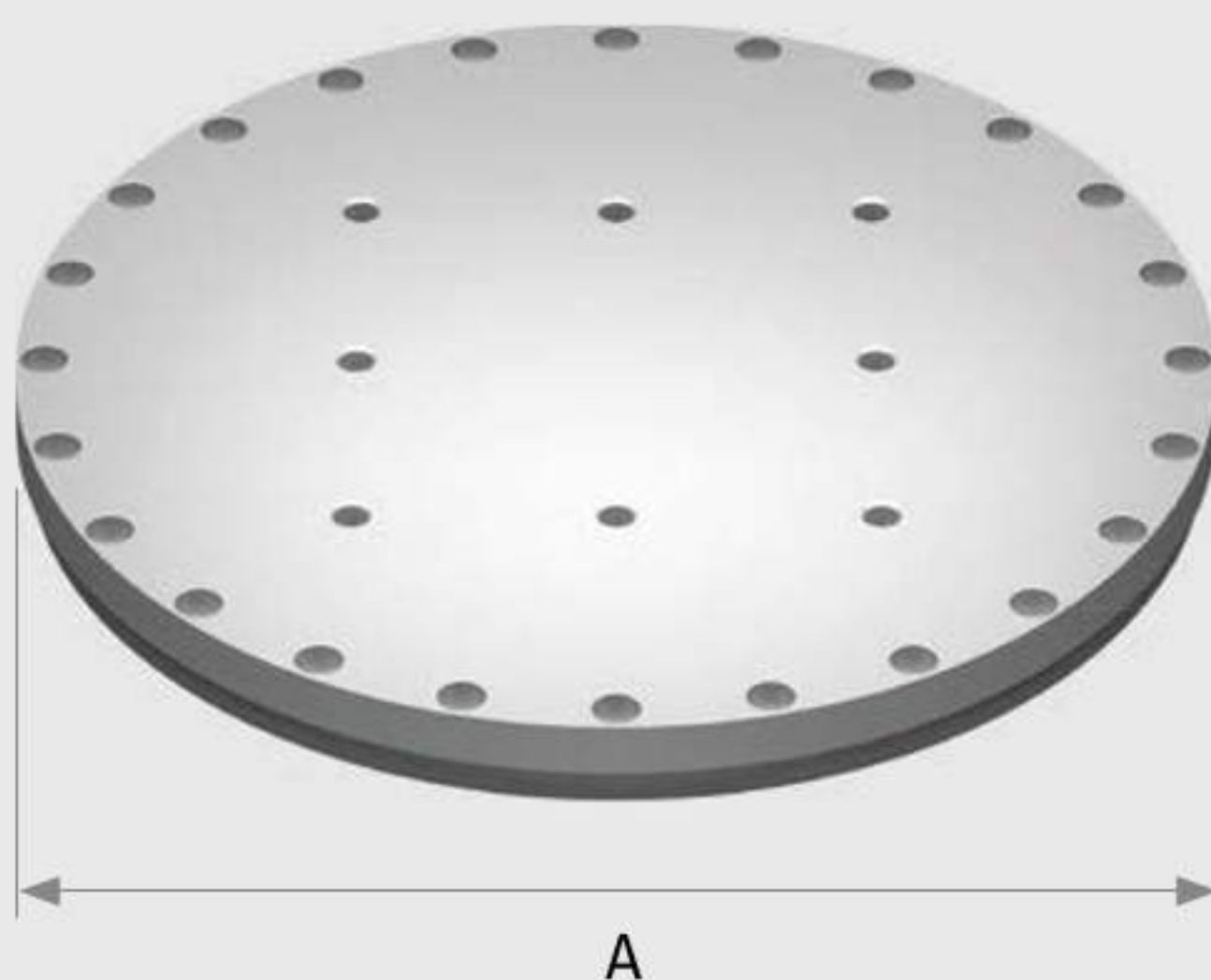
Recommended for automation solutions,
robotics applications and use on manipulators



3D Okto 100 Worktable

- Preferred use with manipulators in robot cells
- Numerous clamping possibilities on all nine clamping surfaces
- In the D22 bore grid 100x100
- Diagonal boring in M16 version
- High-strength aluminium-titanium alloy for ~ 60 % weight reduction and ~ 10 % higher bending strength
- Together with Adapter Plate, with special connection drilling pattern, adapted to the face plate of your manipulator (please include manipulator type and drawing of the face plate with enquiry)

| A* | B* | Description | Item no. |
|---------|-----|-------------------------|----------------|
| AF 600 | 100 | Diagonal grid 100 x 100 | PL22-11008-001 |
| AF 800 | 100 | Diagonal grid 100 x 100 | PL22-01013-001 |
| AF 1000 | 100 | Diagonal grid 100 x 100 | PL22-01038-001 |



Adapter Plate

- Interface element for adaptation of Okto 100 D22 3D Worktable to welding robot or manipulator
- Interface hole pattern produced in accordance with customer's wishes
- Including mounting screws

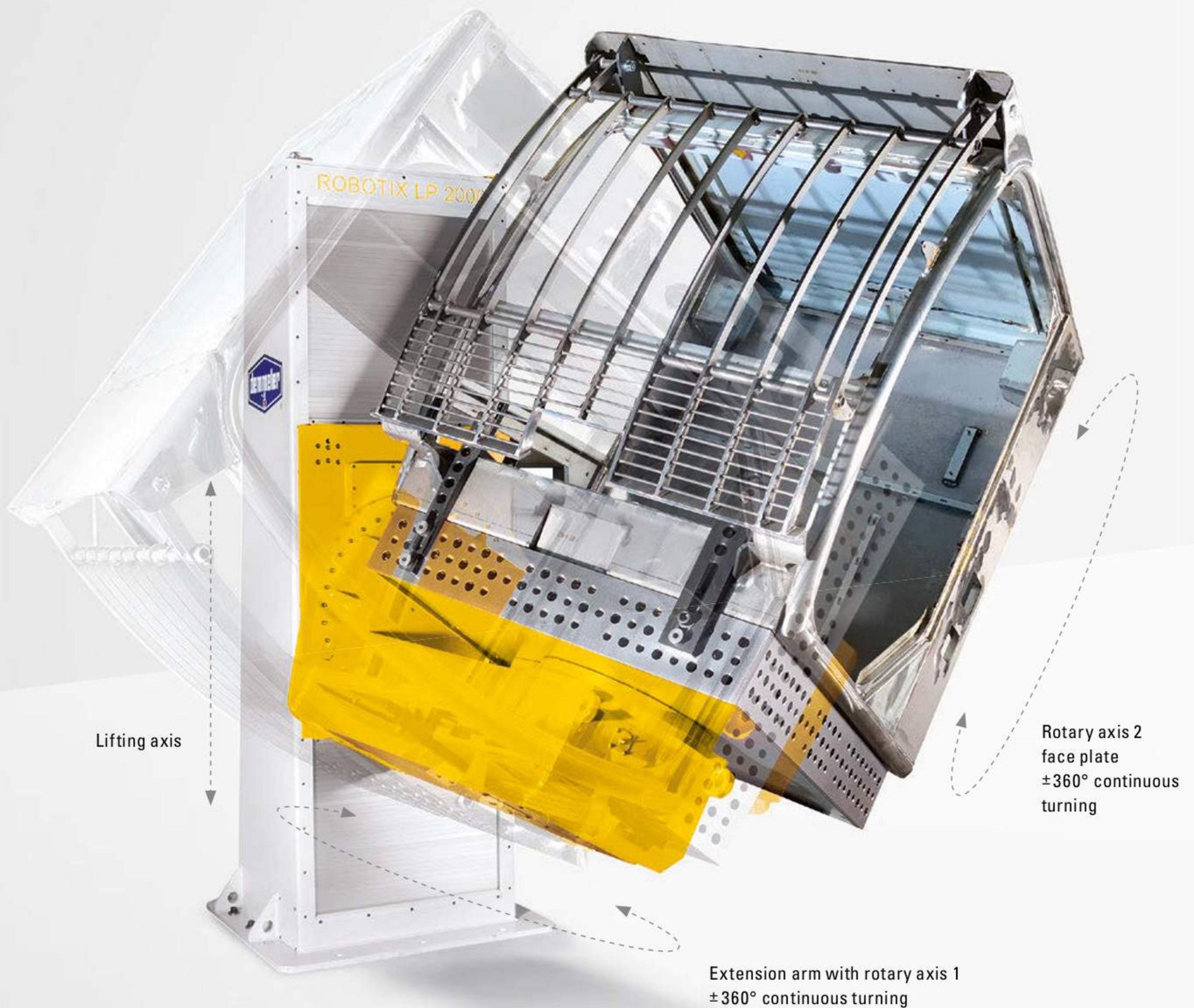
| A* | Description | Item no. |
|---------|---------------------------------|----------|
| AF 600 | Adapter Plate for table AF 600 | 00116157 |
| AF 800 | Adapter Plate for table AF 800 | 00116159 |
| AF 1000 | Adapter Plate for table AF 1000 | 00116160 |

*Specifications in mm

1.5 | 3 | 6 | 10 | 20 tons

Manipulators Robotix LP

So that hard work doesn't feel hard



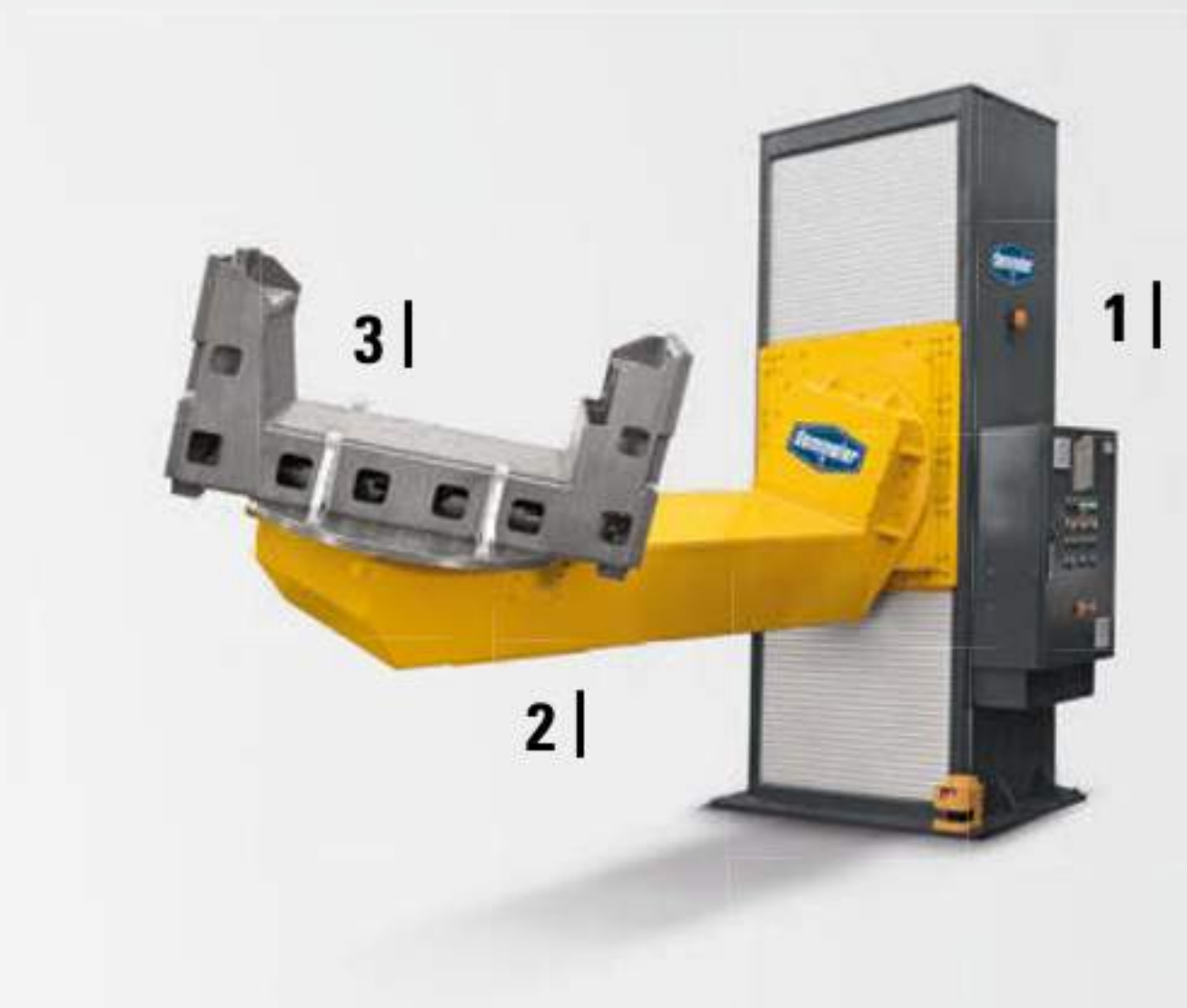
The models in the DEMMELER Robotix LP series of manipulators

Our Robotix LP series excels thanks to a range of unmissable strengths, for example a compact construction and versatility in operation. The models vary in their equipment and the available accessories. Irrespective of the solution you choose: You can be sure that every model will provide outstanding performance in compact format – just as you would expect from DEMMELER.

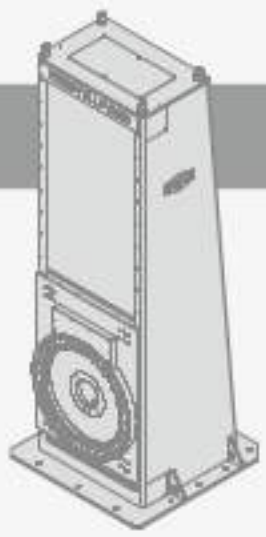


Benefits

- Enables positioning of work pieces with very high precision
- High repeat accuracy
- Two rotation axes and one lifting axis
- Suitable for integration in a robot cell
- Solid construction
- Lifting axis via servo-hydraulic system, speed continuously adjustable

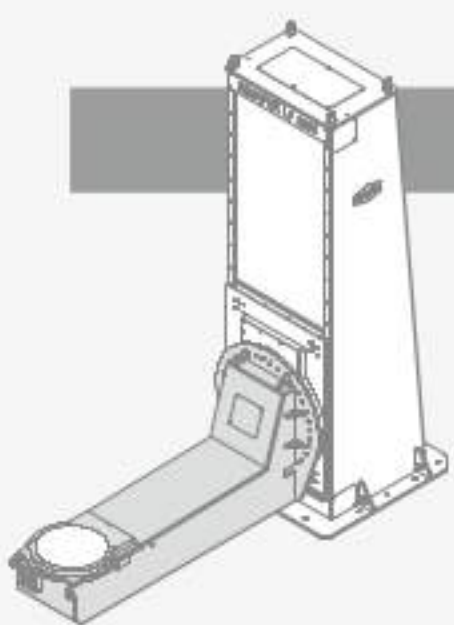


1 | Robotix basic device



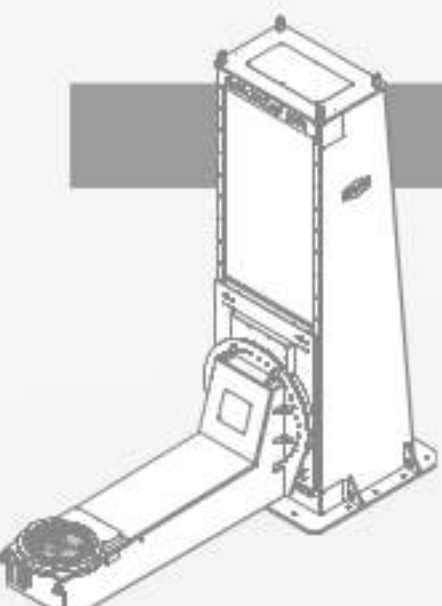
| Description | Unit | IP 6000 | IP 10000 | IP 20000 |
|-----------------------------------|-------|----------------|----------------|----------------|
| Bearing load (without worktop) | kg | 6000 | 10000 | 20000 |
| Lifting axis: | | | | |
| > Drive | | servohydraulic | servohydraulic | servohydraulic |
| > Lifting speed | m/min | 1.5 | 1.5 | 1 |
| > Max. lifting height | mm | 2000 | 2200 | 2450 |
| > Minimum height | mm | 820 | 1050 | 1050 |
| > Maximum height | mm | 2820 | 3250 | 3500 |
| Rotary axis 1 / tilt axis: | | | | |
| > Min. - max. speed | RPM | 0.2 - 1.0 | 0.2 - 1.0 | 0.2 - 1.0 |
| > Angle of rotation | ° | ±360 cont. | ±360 cont. | ±360 cont. |
| > Torque | Nm | 20000 | 24000 | 50000 |
| Controller at the control console | | ✓ | ✓ | ✓ |
| Item no. | | I06-01000-100 | I10-01000-100 | I20-01000-100 |

2 | Extension arm option



| Description | Unit | LP 6000 | LP 10000 | LP 20000 |
|--------------------------------------|------|---------------|---------------|---------------|
| Extension arm for Robotix | | Z06-01000-000 | Z10-01000-000 | Z20-01000-000 |
| > Maximum interference area diameter | mm | 5000 | 5500 | 6500 |

3 | Rotary axis 2 on extension arm option



| Description | Unit | LP 6000 | LP 10000 | LP 20000 |
|----------------------------|------|---------------|---------------|---------------|
| Rotary axis 2 | | Z06-01000-001 | Z10-01000-001 | Z20-01000-001 |
| > Min. - max. speed | RPM | 0.2 - 1.4 | 0.2 - 1.4 | 0.2-0.75 |
| > Angle of rotation | ° | 360 | 360 | 360 |
| > Torque | Nm | 10000 | 15000 | 40000 |
| > D=max. interference area | mm | 5000 | 6000 | 6000 |

Adapter plates for L-manipulators on request (see page 14/15 for version).
Other equipment details on request.

Equipment for the Robotix series

Stress-free work from the very beginning

① Controller at the control console

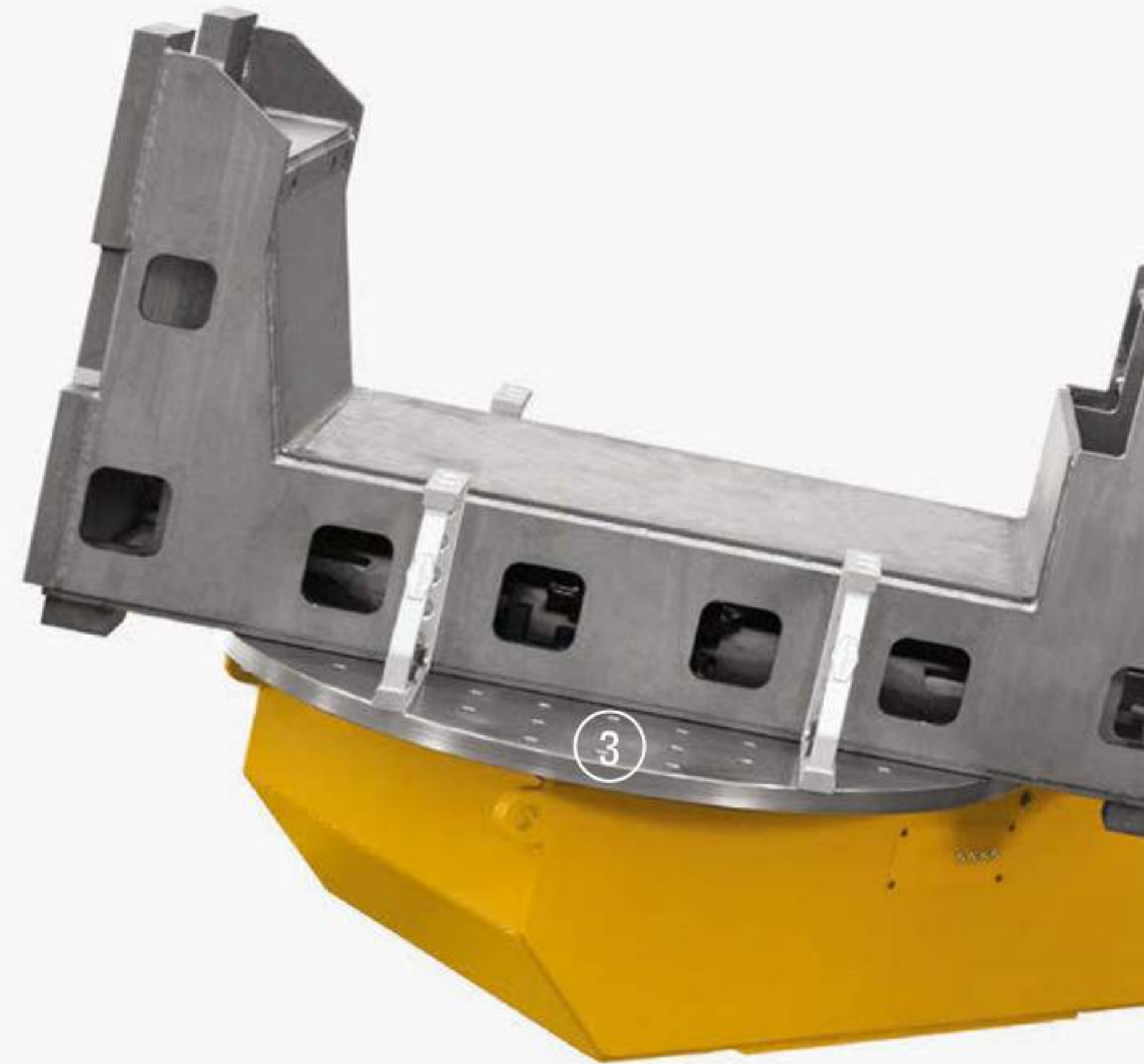
- Master switch
- Compact construction
- Housing integrated in the manipulator
- Potentiometer – enabling reproducible speed settings
- Axis activation at the touch of a button

② Laser scanner

- Personnel and component protection
- Scan radius 3 m (other ranges on request)
- Clearing after area infraction by key-operated switch integrated in the control cabinet door
- Safety zone status display in control cabinet door

③ Rotary feedthroughs

- Rotary feedthrough for querying the state of fixtures, electrical, 10 signals, teaching controller or controller in premises required
- Rotary feedthrough for pneumatic clamping equipment on worktop, pneumatic, 1-channel
- Rotary feedthrough for hydraulic clamping equipment on worktop, hydraulic, 1-channel



Optimum extension capabilities

| Control options | LP 6000 | LP 10000 | LP 20000 |
|-------------------------------------|---------------|---------------|---------------|
| Laser scanner ② | Z06-01000-101 | Z10-01000-101 | Z20-01000-101 |
| Teach controller ⑤ | Z06-01000-102 | Z10-01000-102 | Z20-01000-102 |
| Connection as additional robot axis | Z06-01000-103 | Z10-01000-103 | Z20-01000-103 |

● Series equipment ○ Special equipment



④ **Ground connector**

Ground connector for feeding the welding ground from the table/fixture setup to the interface next to the control cabinet, including sliding contact and quick coupling.

⑤ **Teach controller**

- Up to 100 programmes with 50 positions each
- Touch screen operation
- Start movement by pressing the enabling button
- Offline programming possible
- Editing programmes in a text editor possible
- Data transfer per USB interface
- 10" display

You can move to the positions manually with the buttons and save specific positions in the work piece programme using the teach controller by pressing buttons. This results in a consistent movement sequence from one position to the next. Several different work piece programmes can be stored and called up as needed.



| Additional options | LP 6000 | LP 10000 | LP 20000 |
|---|---------------|---------------|---------------|
| Rotary feedthrough for querying the state of fixtures, electrical ③ | Z06-01000-104 | Z10-01000-104 | Z20-01000-104 |
| Rotary feedthrough for pneumatic clamping fixtures ③ | Z06-01000-105 | Z10-01000-105 | Z20-01000-105 |
| Rotary feedthrough for hydraulic clamping fixtures ③ | Z06-01000-106 | Z10-01000-106 | Z20-01000-106 |
| Ground connector for welding device ④ | Z06-01000-107 | Z10-01000-107 | Z20-01000-107 |

12 | 20 | 40 tons

Manipulator Robotix IP

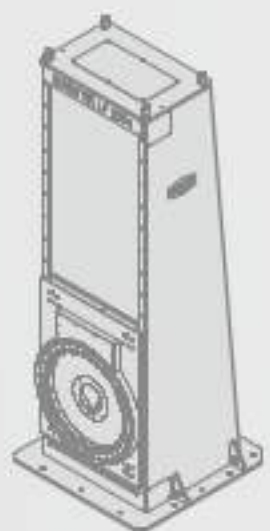
When you have something big in mind

Stress-free assembly and efficient welding

Those who think in big dimensions need equipment that offers numerous possibilities. With the Robotix IP manipulator, you can position your work pieces flexibly, manufacture efficiently and work ergonomically. In a relaxed posture, a welding seam can be welded far more exactly. Optimum positioning of the work piece also enables an ideal production process: No flowing of the welding material.

We offer the right product for you out of numerous solutions.

On request, we design, construct and produce individualized clamping devices for you



Robotix basic device

| Description | Unit | IP 12000 | IP 20000 | IP 40000 |
|-----------------------------------|-------|----------------|----------------|----------------|
| Bearing load (without worktop) | kg | 12000 | 20000 | 40000 |
| Lifting axis: | | | | |
| > Drive | | servohydraulic | servohydraulic | servohydraulic |
| > Lifting speed | m/min | 1.5 | 1.5 | 1 |
| > Max. lifting height | mm | 2000 | 2200 | 2450 |
| > Minimum height | mm | 820 | 1050 | 1050 |
| > Maximum height | mm | 2820 | 3250 | 3500 |
| Rotary axis 1 / tilt axis: | | | | |
| > Min. - max. speed | RPM | 0.2 - 1.0 | 0.2 - 1.0 | 0.2 - 1.0 |
| > Angle of rotation | ° | ±360 cont. | ±360 cont. | ±360 cont. |
| > Torque | Nm | 20000 | 24000 | 50000 |
| Controller at the control console | | ✓ | ✓ | ✓ |



Optional equipment

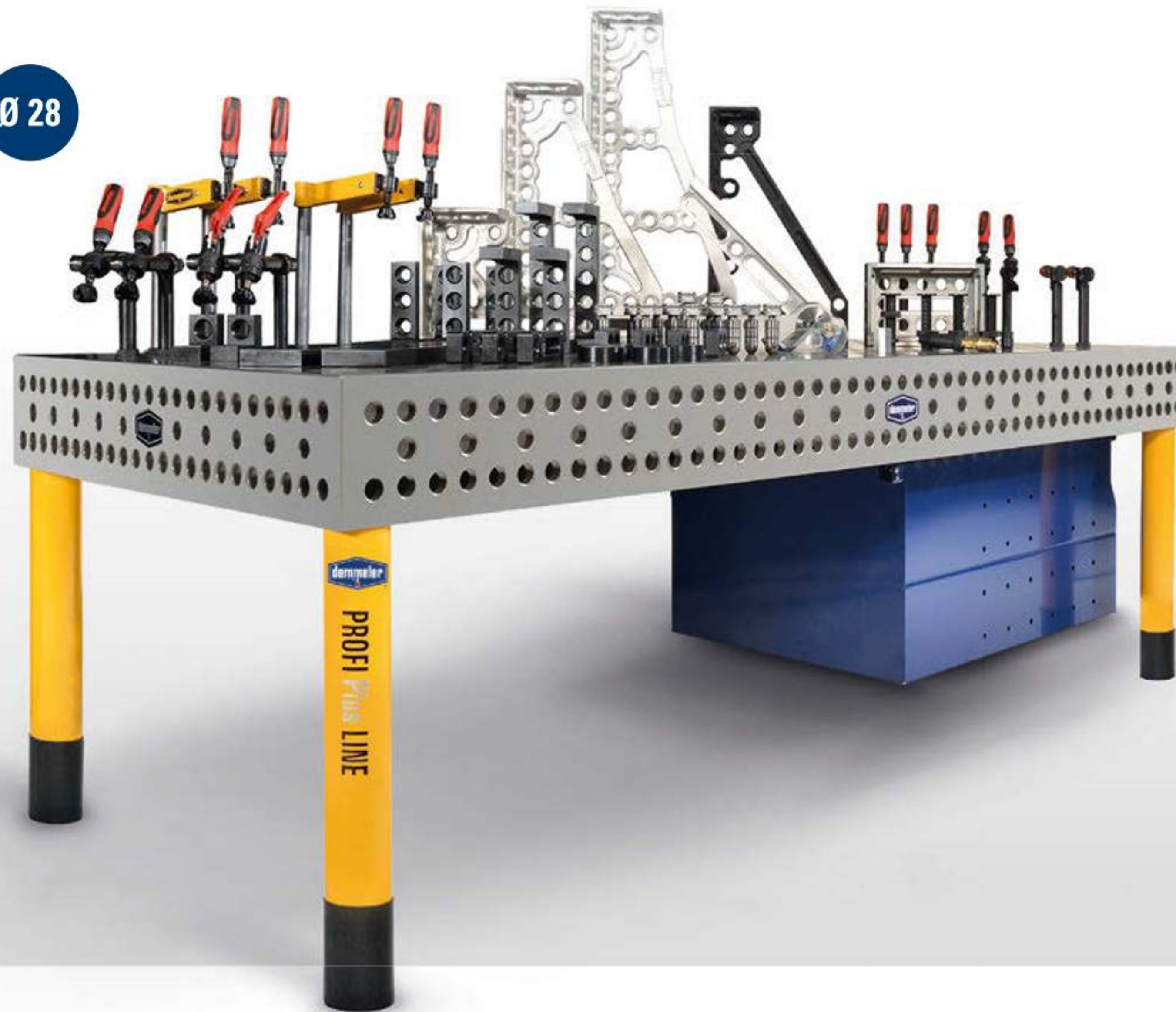
| Control options | IP 12000 | IP 20000 | IP 40000 |
|-------------------------------------|---------------|---------------|---------------|
| Teach controller | Z06-W1000-102 | Z10-W1000-102 | Z20-W1000-102 |
| Laser scanner | Z06-W1000-101 | Z10-W1000-101 | Z20-W1000-101 |
| Connection as additional robot axis | Z06-W1000-103 | Z10-W1000-103 | Z20-W1000-103 |
| Counterpiece for rotary axis 1 | Z06-W1000-108 | Z10-W1000-108 | Z20-W1000-108 |

| Positioning options | IP 12000 | IP 20000 | IP 40000 |
|---|---------------|---------------|---------------|
| Preparation for assembly on DEMMELER track system for each lifting column | Z06-W1000-109 | Z10-W1000-109 | Z20-W1000-109 |
| DEMMELER track system (per metre) | D28-W2003-000 | D28-W2003-000 | D28-W2003-000 |

| Additional options | IP 12000 | IP 20000 | IP 40000 |
|---|---------------|---------------|---------------|
| Rotary feedthrough for querying the state of fixtures, electrical | Z06-W1000-104 | Z10-W1000-104 | Z20-W1000-104 |
| Rotary feedthrough for pneumatic clamping fixtures | Z06-W1000-105 | Z10-W1000-105 | Z20-W1000-105 |
| Rotary feedthrough for hydraulic clamping fixtures | Z06-W1000-106 | Z10-W1000-106 | Z20-W1000-106 |
| Ground connector for welding device | Z06-W1000-107 | Z10-W1000-107 | Z20-W1000-107 |

The optimum 3D worktable for every application – the intelligent system grids boost productivity

Ø 28



Ø 16



SYSTEM SIZES AND PRODUCT BENEFITS OF THE DEMMELER 3D CLAMPING SYSTEM!

With our 3D clamping system, you have the right solution at hand to overcome any challenge for clamping, turning and positioning work pieces. Optimum positioning of the work piece not only makes work more accurate but also more effective. In particular, the intelligent system grid and selection of flexible, sophisticated clamping tools offer unlimited clamping possibilities for you. Products from the original DEMMELER 3D clamping system set themselves apart with extreme robustness and durability. Our 3D welding tables have the best surface characteristics and a hardness of up to 860 Vickers thanks to the special, optimised DEMONT hardening process – making them even more wear-resistant and durable.

For delicate applications

- D16** PROFIPlusLINE (PL)
 - Diagonal grid 50 x 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 x 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 x 50 mm
 - 3-row bore pattern on the table side plates, 50 x 50 mm diagonal grid



- D22** PROFIPlusLINE (PL)
 - Diagonal grid 100 x 100 mm
 - 2-row bore pattern on the table side plates, 50 mm grid





Precision scaling



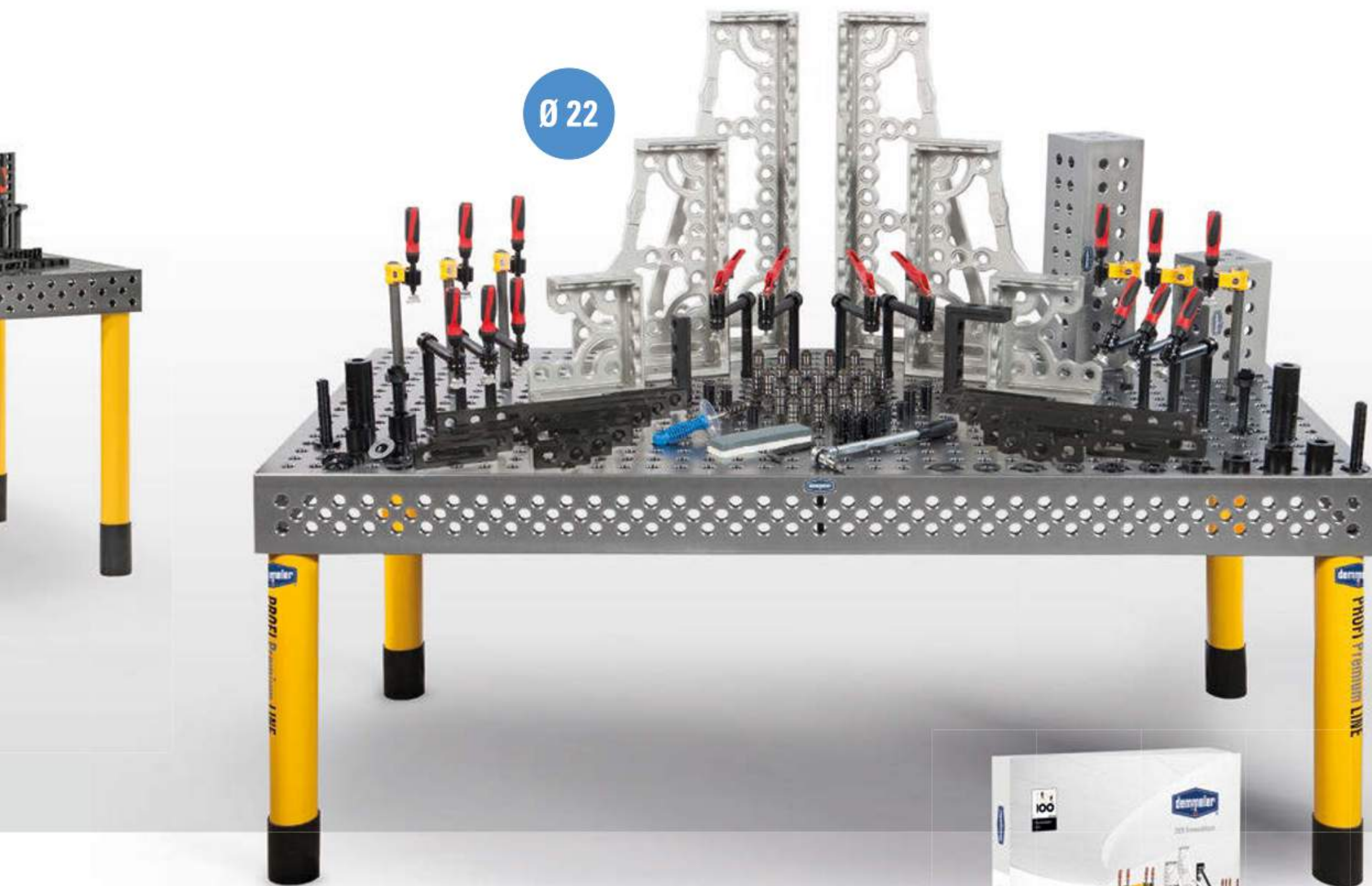
Protective countersink



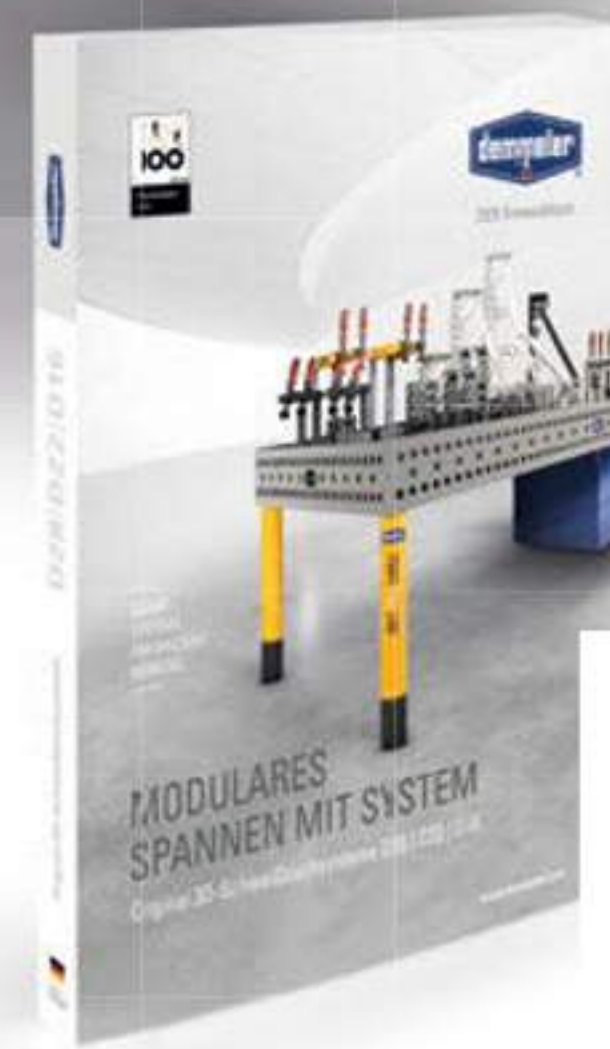
Additional bores



Leg with sleeve



As the inventor of the modular 3D welding table and clamping systems, we shape our development and innovation around the modular clamping and manipulation of components. Our general catalogue comprises 620 pages and offers a complete overview of our entire product line with many interesting example applications.



THE GENERAL
CATALOGUE
FROM DEMMELE
IS AVAILABLE IN
13 DIFFERENT
LANGUAGES:
DOWNLOAD OR
REQUEST NOW

For everyday, large welded constructions

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 PROFIPlusLINE (PL)

- Diagonal 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 PROFIEcoLINE (PE)

- Grid 100 x 100 mm
- 3-hole 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



D28 HobbyLINE (H)

- Grid 100 x 100 mm
- Worktop approx. 25 mm high with system bores in a 100 mm x 100 mm grid





OUR PERFORMANCE
makes THE DIFFERENCE

3D WELDING TABLES
MANIPULATORS
NC ROTARY AND TURNING TABLES
TOOL ARENAS
CONTRACT MANUFACTURING



DEMMELE
Maschinenbau GmbH & Co. KG
Alpenstraße 10
87751 Heimertingen / Germany
Phone: +49 8335 9859-0
Fax: +49 8335 9859-27
sales@demmeler.com
www.demmeler.com

DEMMELE
Automatisierung & Roboter GmbH
Alpenstraße 10
87751 Heimertingen / Germany
Phone: +49 8335 9859-0
Fax: +49 8335 9859-27
sales@demmeler.com
www.demmeler.com

Your authorised dealer:



Cím: 9700 Szombathely, Nári külső út 2/D
Tel.: +36 30/281 20 40
Email: szikra@szikrahegesztes.hu
Web: www.szikrahegesztes.hu

We accept no liability for technical changes, dimensions or misprints.
Figures may deviate from the original.

