THE PROFESSIONAL COBOT WELDING AUTOMATION SOLUTION



DEMMELER® COBOT WeldSpace 4.0® TABLE 24/12

## Automated welding in shuttle operation



Are you in need of welding capacity but finding it increasingly difficult to get welders?

## The solution: The DEMMELER welding table with digital welder.



\_ I enjoy working with people and I'm good at it, I'm easy to manage and a very fast learner. I'm robust yet careful enough for delicate tasks.

\_ I don't get any back pain from bending over.



\_ I pay for myself very quickly.
I'm also very economical to run, my energy costs are incredibly low at less than 1 €/h.



\_ My teachers
are pleased with
me because I have a
lot to offer, I'm easy to
teach and extremely
hard-working. I'm happy to
take on physically
demanding work

\_ I don't need
any extra protective
equipment and
I'm not bothered by heat,
particulate matter
or radiation.



\_ I don't have
any impact on
my surroundings.
I don't pose any risk
when welding because
I work in enclosed
spaces.



\_ In future, you will be able to observe and assess me at any time on request.



### LET ME INTRODUCE MYSELF - I'M YOUR DIGITAL WELDER:

MY SURNAME:

DEMMELER® COBOT WELDSPACE 4.0®

MY PREFERRED NAME:

TABLE AA1A2B

PLACE OF BIRTH:

**HEIMERTINGEN / GERMANY** 



\_ I achieve
successful results
from a single unit up
to large quantities,
without tiring and while
remaining very
consistent.

\_ I'm always learning and improving thanks to updates.

\_ If I nevertheless reach my limits despite my high performance, you can purchase digital twins of me at any time.

\_ I'm very
flexible and work
at up to
four stations.

\_ I devote complete concentration to my work and ensure precision down to 0.1 mm.

\_ I guarantee
at least 95%
performance
and availability!

\_ I'm the
best at producing
joins, whether in
aluminium, steel
or stainless
steel.



\_ I don't need
to take any breaks and can
work unlimited shifts. I don't
cost extra for overtime or
additional shifts. In fact,
the opposite is true –
the more hours
I work, the cheaper
I become.

\_ I enjoy welding small workpieces just as much as parts that are 2000 mm long and, once I've been given a job, I move to the ideal position.

The COBOT WeldSpace 4.0® welding cell from DEMMELER comes with everything you need.

# The complete package for a quick and professional introduction to automated welding



#### BASIC DEMMELER COBOT WeldSpace 4.0®

The most versatile welding automation solution with maximum efficiency and extremely simple operation as well as maximum environmental and operator protection.

#### BASIC Flexibility and efficiency

Up to four workspaces Space A (optional A1-A2) + Space B with perfect accessibility from all sides and crane loading for set-up and workpiece change.

#### BASIC Unique programming and operating concept

With the DEMMELER WeldSpace 4,0® Software, you can create complex welding programs intuitively without explicit programming knowledge.

#### BASIC Standard main time parallel shuttle operation

Standard main time parallel shuttle operation between two 3  $\mathrm{m}^2$  work areas Space A and Space B.

- 1 BASIC Universal Robots UR e-Serie
  Latest collaborative robot UR10e with six axes
  and force-torque sensor mounted overhead on
  gantry
- 2 BASIC DEMMELER WeldSpace programming and operating concept

With just three buttons on the multi-function handle almost everything can be programmed

BASIC DEMMELER welding table
Equipped with a DEMMELER® 3D welding table
2400 x 1200 mm in system size D28

- 4 OPTION Integrated and professional high-performance welding system FRONIUS Robot welding equipment
- 5 OPTION Two-axis manipulator
  Modular two-axis manipulator up to 500 kg
  payload for professional workpiece handling and
  circumferential seam welding with the rotary axis
- 6 OPTION Torch cleaning station
  Optimised and reliable cleaning of the gas nozzle
  ensures a reliable welding process and increases
  system availability





#### BASIC Central control unit

The DEMMELER WeldSpace  $4.0^{\circ}$  user interface guides you step by step to perfect welding results.

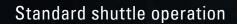
BASIC Crane loading possible due to movable gantry

Simple loading of the workpieces for setup and reclamping also by crane.

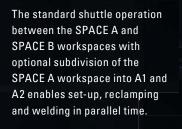


#### DEMMELER WeldSpace 4.0® Software

The best settings for the power source, welding process and torch with simple and fast operability.



## Four workspaces with perfect accessibility from all sides



**SPACE A1** 

SPACE A2

**SPACE B** 

#### Standard main time parallel shuttle operation

TABLE | 2

COBOT WeldSpace 4.0°

**SPACE A** 





Equipped with a DEMMELER® 3D welding table 2400 x 1200 mm in system size D28.

The SPACE A workspace can optionally be divided into SPACE A1 and SPACE A2 by a partition wall.



SPACE B



Depending on requirements, the SPACE B workspace can be optionally equipped with another DEMMELER 3D welding table with a maximum size of 2,000 x 1,000 mm or with a two-axis manipulator with a payload of up to 500 kg. This enables highly productive welding in the flat position.

The cabins of the respective workspaces are closed during welding.

Intuitive programming and operating concept

### **DEMMELER®** WeldSpace 4.0® Software guides you step by step to the perfect welding result

The heart of the COBOT WeldSpace 4.0 is its ease of use. Developed by our welding experts the software is perfectly adapted to the robot and welding process. The new way to programming: by activating the Free-Drive function, the COBOT can be moved by hand to the place where welding is to be started and stopped. Waypoints and welds can be programmed by simply pressing a button. This allows you to create professional welding programs simply at the touch of a button. The welder has full access to all relevant functions of the welding system with only one control panel and can select, set and save parameters in the robot control.



Perfect interplay: The control of the COBOT



### All COBOT and welding parameters in one place



The intuitive user interface of the DEMMELER WeldSpace 4.0® Software for operating the COBOTS makes it easy to get started. Even employees without programming knowledge can easily learn to control the robot. All parameters relevant to welding must be selected, set and saved in the robot control.

The best settings for the power source, welding process and torch are always available. On the user interface of the DWSP, the operator has the option to access welding characteristics and parameters in the job library.

#### The multi-function handle: Settings at the touch of a button

The multi-function handle is the interface between the robot and operator. Using the buttons on the handle, you move the robot and select certain actions. At the same time, you are supported by the DEMMELER assistance system.

- Red button: Selection function button between movement and assistance modes. Display the Welding or Waypoint function.
- Blue button: Saving of waypoints as well as start and end points of welds.
- Green button: Free-drive button for guiding the robot.







## Welding at the highest level with ultimate flexibility





Schulz Fördersysteme GmbH specialises in metalworking. In addition to sheet metal parts, edge parts and welded assemblies, the company also produces conveyor systems. Around 100 members of staff work for the brands Schulz Fördersysteme and Blechbearbeitung Thüringen at the Geratal site in Thüringen. As a certified specialist business in accordance with DIN EN 15085-2 CL1, Schulz Fördersysteme has a special responsibility for producing highly safety-relevant components for rail vehicles. The fact that the company sees itself as a system supplier with a high vertical range of manufacture is also evident from its state-of-the-art production processes.

A few months ago, the company also started to use a COBOT WeldSpace 4.0 from DEMMELER alongside a DEMMELER manipulator and rail system. With the new COBOT system, Schulz Fördersysteme can quickly and easily adapt to varying component geometries or sizes in production. In addition to being easy to program, the COBOT WeldSpace 4.0 is designed to reduce the physical exertion of welders. Welders are often forced to work in uncomfortable positions as the weld seams are frequently hard to reach. This is why the SPACE B workspace of the COBOT system was equipped with a two-axis manipulator: Workpieces up to 500 kg can be easily clamped in the ideal flat position. There is no longer a need for time-consuming reclamping of workpieces and, thanks to the manipulator's rotary axis, even circumferential seams can be welded without any problems.

"We are a contract manufacturer specialising in sheet metal machining for a range of different industries: Automotive, rail, machinery and plant construction, conveyor technology, furniture and metal construction. Our flexibility has always been one of our greatest strengths compared to our competitors," states Carsten Stein, Managing Director at Schulz Fördersysteme. DEMMELER assists us with its large variety of products, which can be used to produce small and medium batch sizes. We appreciate the excellent quality of DEMMELER products – and the outstanding service!"





SCHULZ FÖRDERSYSTEME GMBH AN DER GLASHÜTTE 10 99330 GERATAL – OT GRÄFENRODA · GERMANY





 $Multiple\ parts, including\ different\ ones, can\ be\ welded\ simultaneously\ using\ the\ COBOT\ WeldSpace\ 4.0.\ The\ automatic\ enclosure$  $movement\ makes\ it\ possible\ to\ work\ in\ multi-station\ mode.\ While\ the\ robot\ is\ welding\ on\ one\ side,\ the\ operator-protected\ by$  $retractable\ roller\ doors\ with\ a luminium\ cladding\ and\ integrated\ welding\ protection\ glass-can\ set\ up\ and\ reclamp\ on\ the\ other$ side in parallel (two-station operation).

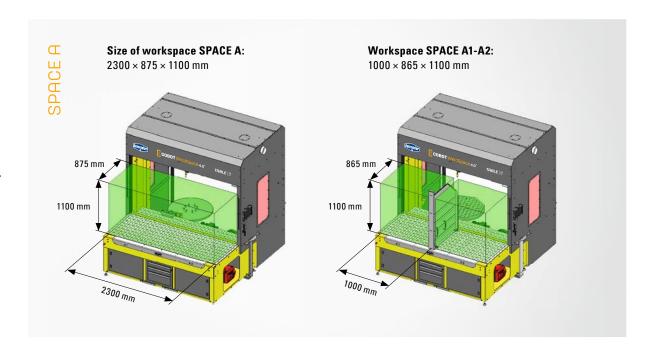
Dimensions of base cell / workspaces

## Maximum accessibility and compact design

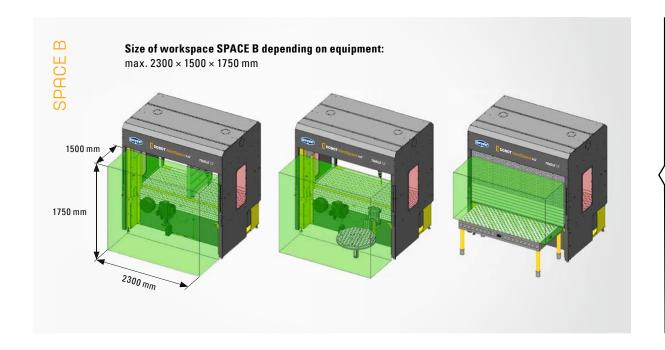
Enclosure closed state: 2850 × 1780 × 2750 mm 2850 × 2705 × 2750 mm 2750 mm

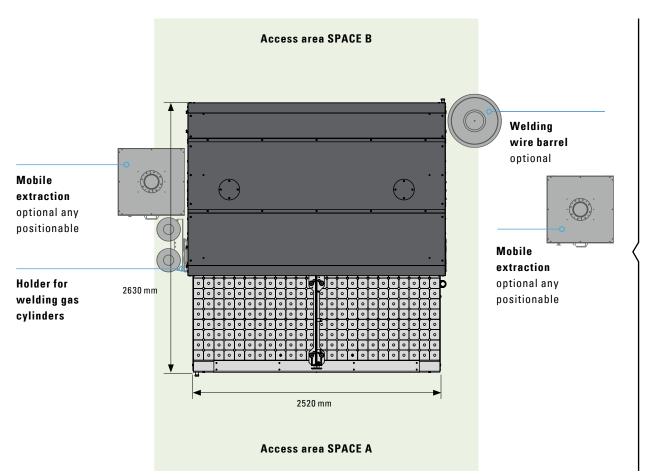
Dimensions of workspaces A / A1-A2

Dimensions of base cell









**Dimensions of footprint** 





#### **Equipment of the** COBOT WeldSpace 4.0® TABLE 24/12



#### COBOT WeldSpace 4.0® TABLE 24/12 Basic cell

from page 16



Work tables for basic cell page 19

**Optional** equipment options



**Equipment** in SPACE A1/A2

page 21



**Equipment in** SPACE B

from page 23



Welding current sources for robotics applications

page 25



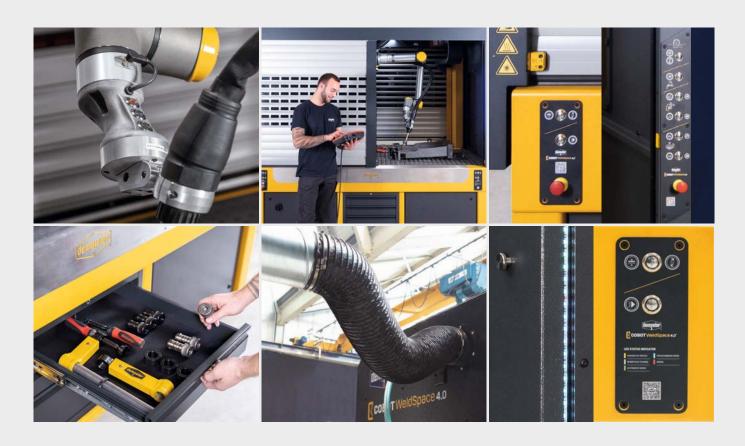


WeldSpace 4.0® software options

page 29

#### For a quick commissioning

## The basic equipment of the DEMMELER® COBOT WeldSpace 4.0® TABLE 24/12



#### **DEMMELER® COBOT WeldSpace 4.0® – basic equipment**

- Ready-to-operate cell with two large workspaces SPACE A and SPACE B
- Automatically moving protective enclosure with two roller shutter doors (aluminium cladding with viewing elements made of protective welding glass)
- UR10e collaborative welding robot (mounted overhead). Not to be confused with the approx. € 6000 cheaper UR10 (old model).
   The UR10e offers the highest accuracy and reliability with maximum sensitivity. Eliminate the need for your staff to perform dirty, dangerous and monotonous work and increase productivity by saving time.
- UR control panel
- DEMMELER® WeldSpace 4.0® software. Specially developed software with many functions which together with the innovative three-button handle takes the hassle out of creating complex welding programs. The software guides the operator intuitively through the menu and with the three-button handle, waypoints and spot welds can be transferred directly into the program. Planes can also be
- selected on the three-button handle to facilitate precise positioning at the selected point. Other functions such as FREEDRIVE (free movement of all axes), LIN (movement in one plane) and ROT (rotate around the ToolCenterPoint TCP) are a matter of course. An extensive job library that can be expanded at any time, in which parameters and characteristic curves for typical welding applications are stored, leads to the perfect welding result.
- Enabling button
- Smart toolbox with three lockable drawers
- Forklift pockets for easy transport
- Gas cylinder holder for up to two gas cylinders
- Connection options for a central production facility exhaust system on the left or right side and two at the top of the system
- LED strips on all side corners signify processes and machine statuses
- Equipped with a DEMMELER® 3D welding table 2400 x 1200 mm in system size D28





#### **DEMMELER® COBOT WeldSpace 4.0® TABLE 24/12 basic cell**





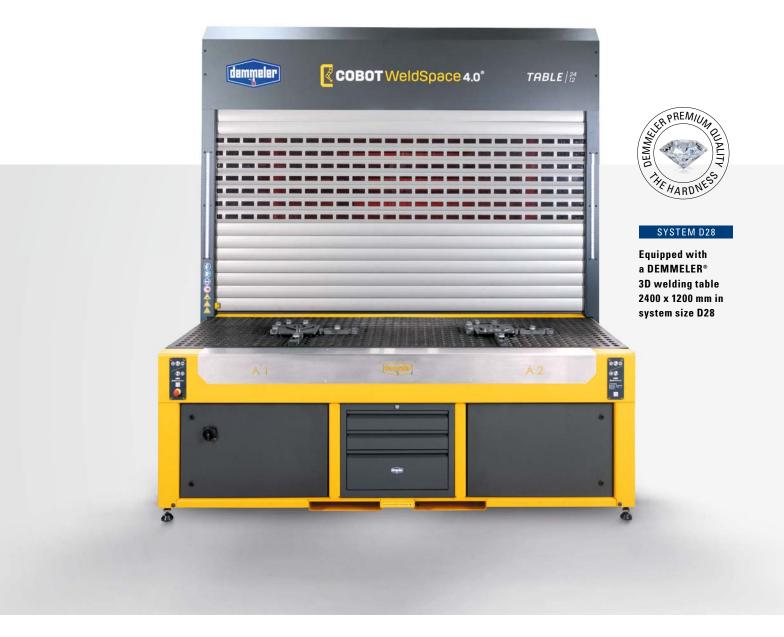
Item no.	00203831	
Max. load	Floor load	
	and welding torch accessibility	
Typical workpiece size	Workpiece size depends on workpiece geometry	
Dimensions	2300 x 1500 x 1750 mm	
Workspace SPACE B		
Repeatability	± 0.05 mm	
Working radius (ceiling mounting)	1300 mm	
Weight	33.5 kg	
Load capacity	12.5 kg	
Number of axes	6	
Туре	Collaborative industrial robot arm	
COBOT UR10e Series		
Max. load	3000 kg	
	and welding torch accessibility	
Typical workpiece size	Workpiece size depends on workpiece geometry	
Dimensions	2300 x 875 x 1100 mm	
Workspace SPACE A		
Rated current	30 A	
External fuse	Max. 32 A slow-blow (up to 400 A welding current)	
Control voltage	24 V DC	
Operating voltage	400 V	
Frequency	50 Hz	
Feed-in	3x 400 V/N/PE	
Electrical data		
Weight	Approx. 2325 kg	
Dimensions	2850 × 1780 (2705 mm) × 2750 mm	

BASIC

Configuration options for SPACE A

### Your work table in SPACE A





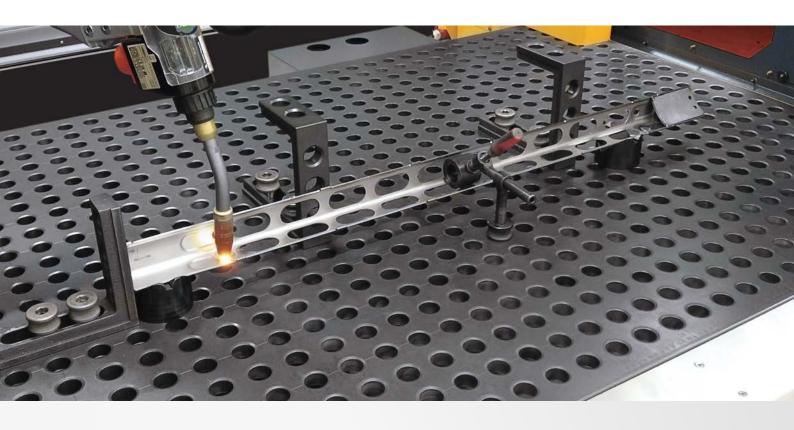


## Precision scaling Axis designation in x and y-direction. Standard version includes precision scaling.



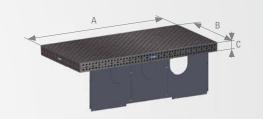
#### **Protective countersink**

Optimum bolt and clamp insertion with simultaneous protection of the tabletop against damage from materials, even in case of extreme strain on the system bore or when used with aluminium.



#### **DEMMELER® 3D welding table**

- Only in conjunction with the 00203831 basic cell
- Hardened version DEMONT 760 M
- All system bores with protective countersink and ultimate functionality
- Precision scaling with millimetre graduation
- Coordinate marking of the bores in the X and Y directions
- $\bullet\,$  Including mounting kit for COBOT WeldSpace 4.0  $^{\!0}$  basic cell and sheet metal cladding



D28

SPACEA

#### COBOT WeldSpace $4.0^{\circ}$ 3D welding table D28 PROFIPremiumLINE (PP)

D28



• Worktop with D28 system bores in a 50 x 50 mm grid

• Grid lines in X and Y alignment, 100 mm spacing throughout

A in mm	B in mm	C in mm	Approx. weight in kg	Description	Item no.
2400	1200	200	824	50 x 50 mm grid	00162637

#### Highest flexibility and efficiency

You can also draw from the extensive range of DEMMELER accessories when setting up your clamping fixtures.







OPTION

Equipment options for SPACE A

### Equipment options to extend SPACE A into SPACE A1/A2

With this extension set, the SPACE A workspace can optionally be divided in the centre into two workspaces — SPACE A1 and SPACE A2. This makes it possible to operate the welding cell in three-station mode. When the partition is removed, the full width of the SPACE A workspace can be used again.









Partition wall

Additional roller shutter doors 3 and 4 with viewing elements

#### Workspace A1 / A2

- Two additional roller shutter doors (aluminium cladding with viewing elements made of welding protection glass) for workspaces A1 and A2
- Fast and easy-to-install partition wall (dimensions: A 935 x B 150 x C 1300 mm, weight: 18.5 kg)
- Automatic detection of the partition wall by the control system
- Dimensions per Workspace 1000 x 865 x 1100 mm
- Max. load per Workspace 1500 kg





D28

tension set for Workspace A1/A2	D28
Set components:	Item no.
1x set of roller shutter doors 3 and 4, 1x partition wall, 4x PPC bolts	00201313





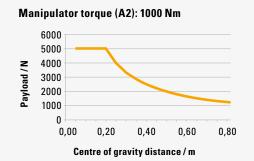
#### OPTION

Equipment options for SPACE B

Optimally position workpieces weighing up to 500 kg in the flat position with the two-axis manipulator







With the new two-axis manipulator, it is possible to position workpieces weighing up to 500 kg in an optimal flat position. This eliminates the time-consuming reclamping of workpieces and, thanks to the rotary axis (axis 2) of the manipulator, uniform circumferential seams can also be welded without any problems. The manipulator is fully integrated into the Demmeler® WeldSpace 4.0® Software. Simultaneous movement of the manipulator and robot axes is not possible with the COBOT. Programming is carried out in the simplest way by teaching the waypoints or by entering them in the graphic user interface of the teach panel.

#### Max. workpiece size



Max. workpiece size Axis of rotation: Diameter: 850 mm Length: 1500 mm



Max. workpiece size Pivot axis: Diameter: 850 mm Length: 1.500 mm

The actual available working range depends on factors such as accessibility of the workpiece, torch length, etc. and can therefore be considerably less.

#### Two-axis manipulator

- Powerful and fast two-axis manipulator with excellent repeatability for ideal positioning of the workpieces
- Galvanically isolated clamping plate
- Extensive range of DEMMELER accessories
- Earthing via double sliding contacts up to 500 A



SPACEB

#### **DEMMELER® COBOT WeldSpace 4.0® two-axis manipulator**



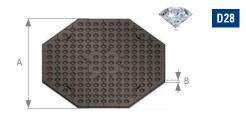
0.01–7 rpm (in 0.02 rpm increments)
±190°
±360°
500 kg
255 kg
850 mm (with 360° rotation)
1.500 mm
1.000 Nm
00215187

### Clamping plate D28 for the two-axis manipulator



#### **Clamping plates**

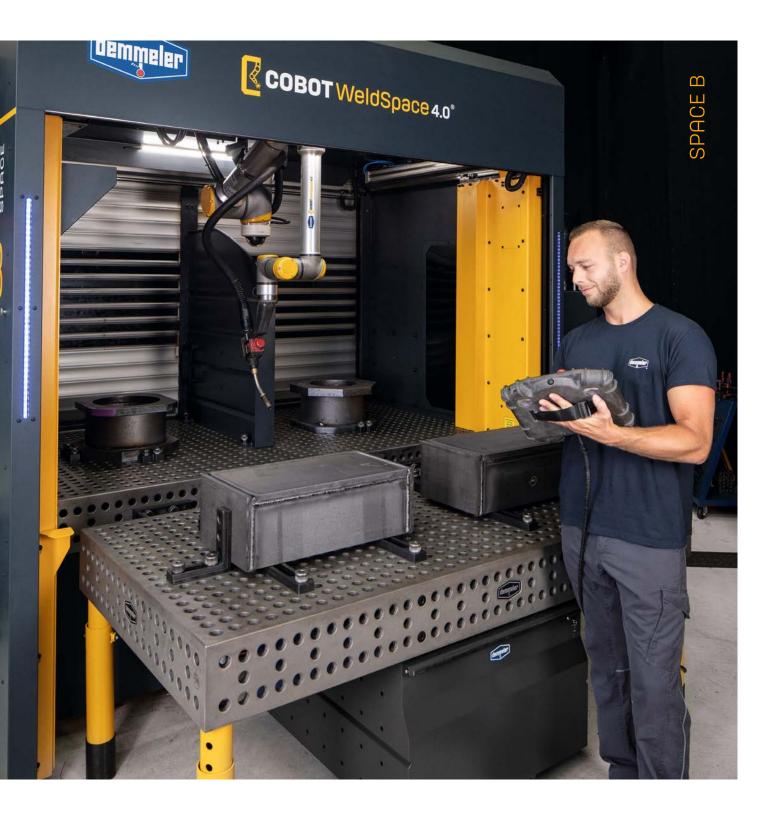
- M8 tapped holes on the side
- Grid lines in X and Y alignment, 50 mm spacing throughout
- Hardened version DEMONT 760 M
- Tailored to the two-axis manipulator
- Tapped holes in addition to system holes



#### Clamping and adapter plate D28



o. p.ato BEO	===			
A in mm	B in mm	Approx. weight in kg	Description	Item no.
WAF800	25	95	50 x 50 mm grid	00162810



### **Optional equipment for SPACE B**

The SPACE B workspace offers room for larger components and fixtures, which can also be placed directly on the floor of the production facility. SPACE B can optionally be equipped with an additional 3D welding table (max. dimensions  $2000 \times 1000 \text{ mm}$ ). You can choose from the entire range of the DEMMELER® 3D welding table and clamping system.

### Perfectly coordinated welding processes

#### **Welding systems**

- Welding systems designed for the COBOT WeldSpace 4.0®
- Robot welding equipment from the Fronius brand
- The welding device is integrated in the table base unit to save space
- . Only one main switch and power connection for the cell with welding system
- Extensive job libraries
- EMC emission class: A

#### Welding systems from the Fronius TPS400i series





- Technical device data:
- Mains voltage: 3x 400 V/mains voltage tolerance: ±15 %
- Mains fuse: 32 A slow-blow
- Mains frequency: 50/60 Hz
- Cos phi: 0,99
- MIG/MAG welding current range: 3-400 A
- Welding current at 10 min/40 °C: 40% 400 A/60% 360 A/100% 320 A
- MIG/MAG output voltage: 14.2-34.0 V
- Open-circuit voltage: 73 V
- Protection class: IP23
- Power source of the TPS 400i: Current range 400 A



#### Optionally available:

Fronius RC Panel Pro control panel (with 5 m cable) Item no. 00203955

	Fronius TPS400i 400 A Push water-cooled	Fronius TPS400i 400 A Push Pull water-cooled	Fronius TPS400i 400 A CMT water-cooled
Integration and software extension of the DEMMELER WeldSpace 4.0® software Input of the welding jobs from the power source and simple selection using a list on the control panel	•	•	•
Welding packages: Standard welding package, Pulse welding package	•	•	•
CMT welding package	-	-	•
Interface for COBOT WeldSpace 4.0®	•	•	•
CU 1100i recirculating cooler	•	•	-
CU 1400i recirculating cooler	-	-	•
Intermediate tube assembly	•	•	•
W25i wire feed unit	•	•	•
SB SplitBox	-	•	•
Tube assembly	•	•	-
CMT tube assembly	-	-	•
Torch body MTB 400i R / 22° / L241 / H50	•	-	-
Torch body MTB 400i W R / 22° / L241 / H50 with additional drive for wire feed unit in the torch	-	•	-
Robacta Drive/CMT push/pull torch / 22° / L241 / H50	-	-	•
Torch holder for COBOT UR10e	•	•	•
Range of application	Steel, stainless steel	Steel, stainless steel, Aluminium	Steel, stainless steel, Aluminium, Thin sheet metal < 4 mm
Item no.	00200728	00203951	00201304

#### ${\color{red} \textbf{Optional software extensions welding unit}}$

Item no.: Cycle Step (Software extension for CMT)	00200728
Item no.: Puls Multi Control	00213088
Item no.: Low Splatter Control	00213089



#### **Torch cleaning station**

#### Torch cleaning

- Cutter, specially adapted to the welding torch (item no. 00203883)
- Clamping V-blocks with diameter of 25 mm (item no. 00203884, others available on request)
- Powerful, high-quality air motor for powerful cleaning

#### Spraying unit

- Activated by the robot movement no output necessary
- Highly efficient spray function, minimal consumption
- Excess anti-splash agent is collected in a container
- Fully protected for a clean environment and safe work areas

#### **DAV** wire cutter

- Powerful, reliable cutting device with sharp cutting action for starting an arc safely
- Hardened cutting blade for a long service life



#### COBOT WeldSpace 4.0® torch cleaning station



.0® torch cleaning station		
Air consumption	Approx. 400 l/min	
Rated pressure	6 bar	
Operating pressure	6 – 8 bar	
Max. wire diameter at 6 bar	1.6 mm solid wire	
Control voltage	24 V DC	
Power consumption	2,8 W	
Operating voltage	10 – 30 V DC	
Continuous current	max. 100 mA	
Power consumption	Approx. 14 mA (4 V)	
Item no.	00201320	



#### MobiAirClean D1 welding fume extraction system

- The automatic cleaning system makes the mobile filter system ideal for welding work which involves non-alloy and alloyed steels, galvanised materials and aluminium and produces a high volume of fumes
- MobiAirClean D1 meets the safety requirements for devices from welding fume class "W3" (high-alloy steels that contain > 30% nickel)
- The specially developed cleaning system for any type of dirt gives the filter cartridge good cleaning characteristics, ensuring optimum extraction performance during the entire operation
- Including spiral tube and connecting tube
- Length (A)/width (B)/height (C): 665/1100/1495 mm



#### COBOT WeldSpace 4.0® MobiAirClean D1 welding fume extraction system



no modian occur by welang lame extraction system	
Fan output	1860 m³/h
Stress	2900 Pa
Operating point	1100 m³/h at 1900 Pa
Pre-filter	Baffle plate
Filter area	10 m <sup>2</sup>
Filter cartridge	Dust class M
Motor power	1.1 kW
Input voltage	400 V/50 Hz
Power consumption	2.5 A
Noise level	Approx. 72 dB (A)
Current type	3Ph+N+PE
Weight	180 kg
Item no.	00204525

#### **Network camera**

- Check and document welding results by means of live transmission and videos
- Digital zoom
- With autofocus and wide dynamic range, ideal for difficult lighting conditions (welding light)

#### COBOT WeldSpace 4.0® network camera



Item no. 00208481





#### **COBOT WeldSpace 4.0® control panel terminal**

- Perfect storage option for the UR control panel, enabling button, Fronius panel and industrial tablet
- Holder for UR control panel and enabling button
- Extra heavy design prevents tipping over and, with the brakes on each castor, the terminal stays where you need it
- Four swivel castors with brakes



#### **COBOT WeldSpace 4.0® control panel terminal**



A in mm	B in mm	C in mm	Approx. weight in kg	Item no.
1382	520	403	38	00162810



### WeldSpace 4.0® software options



WELDSPACE 4.0® SOFTWARE

### These tools simplify the work steps and guide you to perfect welding results

#### COBOT WeldSpace 4.0® "line seam" software option



- With this tool, you can create line seams or tack seams by entering the weld seam length and the gap, also circularly, without much programming effort
- With the COBOT, you only have to calibrate the start and end points of the weld seam; the tool takes
  care of the division of the line seams or tacking points

Item no. 00201676

#### COBOT WeldSpace 4.0® "weave" software option



- With this tool, you can create perfect weave seams for linear as well as circular weld seams
- Simply calibrate the start and end points with the COBOT and enter the weave length and width, as well as the delay time, to define the weave seam
- This function can be used, for example, to create larger weld seams in one layer or to bridge gap seams

Item no. 00201677

#### COBOT WeldSpace 4.0® "several identical workpieces" software option





- This function is used to move and rotate individual seams and to have these programs executed in a different location
- This function can be used to program workpieces once and execute them several times (weld several
  identical workpieces). Please note that the seam and programming shift depends on the kinematics
  and tube guidance of the robot.

Item no. 00201674

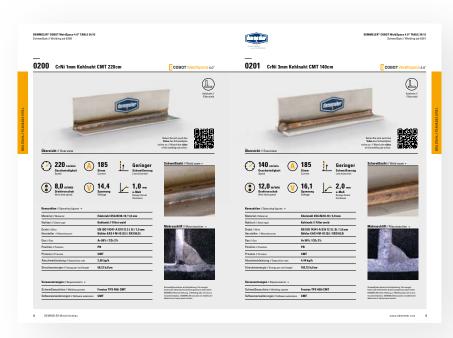




High-performance welding jobs developed in DEMMELER's welding laboratory

## Extensive protected DEMMELER® job library

The job library in the DEMMELER® WeldSpace 4.0® software currently offers access to 100 protected welding jobs including all important parameters tailored to the material, power source, welding process and torch. These jobs can be assigned by simply selecting the seams — whether you're welding in the thin aluminium sheet sector or in steel construction. This leads to improved weld quality and consequently also to a significant efficiency increase in production.



Registered users have access to all jobs in the DEMMELER® WeldSpace 4.0® software. You can also view the videos on the welding processes via QR codes on the stored data sheets.





The dream team from DEMMELER. Unbeatably versatile.

Highly efficient and flexible welding production all along the line.



Our dream team for your welding production. With our original DEMMELER\* 3D welding table systems and the Ergonomix M\* manipulator, you have the right solution for all your the right solution for clamping, turning and positioning workpieces. A professional introduction to robot-automated welding production is provided by our DEMMELER COBOT WeldSpace 4.0\* – through a quick commissioning and an extremely extremely simple and user-friendly programming.







3D CLAMPING SYSTEMS
MANIPULATORS
COBOT WELDSPACE 4.0®
NC ROTARY TABLES
TOOL ARENAS
CONTRACT MANUFACTURING







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