

THE welding table

# weldingnews M





DEMMELER ON THE ROAD TO EXPANSION – HALL EXTENDED BY 7,500 M<sup>2</sup> Page 2



QUICK AND EASY CLAMPING – THE RIGHT TOOL FOR EVERY CHALLENGE Page 4

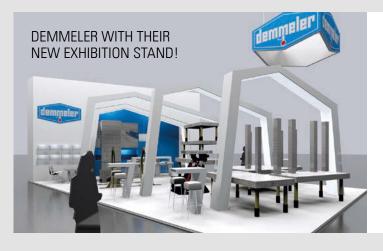


INNOVATIONS AND NEW PRODUCTS FROM DEMMELER Page 14



### We are making 7,500 m<sup>2</sup> of additional space for innovative products Assembly and logistics centre





#### Trade fair dates 2017/2018

DEMMELER is represented at the leading industry trade fairs, directly or through our distribution partners. We are happy to inform you about current products and innovations on site. We are looking forward to your visit!



Ladies and gentlemen, business partners and customers,

At the industries leading international trade fair, the **EMO** in Hanover and at **"Schweißen & Schneiden"**, which took place in Düsseldorf this year, we were able to present our innovations alongside new, and classic products. Despite various international challenges, the market situation is very good. We experienced this first hand with how popular our exhibition stand proved to be. We would like to take this opportunity to thank you for visiting us and for showing interest.

In addition to the new products that you will find on **page 14** and **15** of the current issue of **welding**news we have also redesigned all of our catalogues. Inside you will find all the latest innovations and developments from the think tank here at DEMMELER. Moreover, we were able to break in our exhibition stand in Düsseldorf. This enabled us to better present our products and to welcome you as our partner to future exhibitions.

As a driving innovative force in the industry and recognised **TOP100-Innovator 2017** we are constantly investing in the development of existing products as well as new products. On top of that we are currently building a new logistics and assembly centre. With **7,500** m<sup>2</sup> of new hall space, this is the largest investment in the history of the company. This really drives home our commitment to our company's site in Allgäu. DEMMELER represents **the idea behind "Made in Germany"** and is looking to continually expand upon its position as a leader when it comes to quality.

We hope you enjoy thumbing through this edition of weldingnews.

Kind regards Johannes Demmeler Executive Partner

Now available: The new DEMMELER main catalogue.





Shanghai Sales partners: Shanghai Welding & Cutting Engineering Co., Ltd. 07/11 – 11/11/2017

THE 19TH CHINA INTERNATIONAL

**INDUSTRY FAIR** 



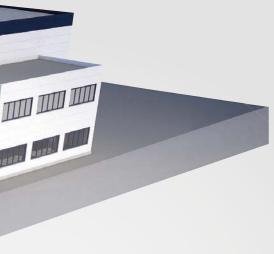
Paris Nord Villepinte Sales partners: Enomax 21/11 – 24/11/2017



Hamburg 23/01 – 26/01/2018



Düsseldorf 20/02 – 24/02/2018



D28 System



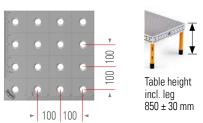


#### 3D welding table PROFIEcoLINE (PE) 28

# DEMMELER 3D welding table ProfiEcoLINE (PE) 28



	Table size TABLE WITH STANDARD LEG		DEMONT 760 M HARDENED	DEMONT 860 M HARDENED		
	1000 x 1000 mm	PE28-01001-001	PE28-01001-011	PE28-01001-021		
	1200 x 800 mm	PE28-11019-001	PE28-11019-011	PE28-11019-021		
	1500 x 1000 mm	PE28-01011-001	PE28-01011-011	PE28-01011-021		
	1200 x 1200 mm	PE28-01056-001	PE28-01056-011	PE28-01056-021		
	1500 x 1500 mm	PE28-01031-001	PE28-01031-011	PE28-01031-021		
	2000 x 1000 mm	PE28-01002-001	PE28-01002-011	PE28-01002-021		
	2000 x 2000 mm	PE28-01006-001	PE28-01006-011	PE28-01006-021		
		PE28-01003-001	PE28-01003-011	PE28-01003-021		
	3000 x 1500 mm	PE28-01004-001	PE28-01004-011	PE28-01004-021		
	4000 x 2000 mm	PE28-01005-001	PE28-01005-011	PE28-01005-021		
	4800 x 2400 mm	PE28-11085-001	PE28-11085-011	PE28-11085-021		



- Worktop with D28 system bores in a 100 mm x 100 mm grid
- 3-hole drilling pattern in the table side plates with D28 system bores, 50 mm grid in the top row with additional 100 mm grid in the middle and in the bottom row
- 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  $30 \times 2$  threaded spindle, finely adjustable  $\pm 30$  mm **Leg sleeve** prevents pinching the welding hose and protects the threaded spindle against dirt.



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

Errors and changes reserved. Offer is non-binding.

DIFFERENT LEG VARIETIES ARE AVAILABLE UPON REQUEST.



Heavy-duty

wheel











Telescoping leg

Anchoring leg

eg Holding frame

Leg for spacer block Shifting leg

Scissor lift

#### 3D clamping system



Accessory sets



PROFIEcoLINE Set 732 Item no.: E28-52000-732 (74-pieces)







PE Set 732	ltem no.	Article designation
4	PE28-03001-000	ECO clamping and locating angle 175x175x50 mm
1	PL28-03002-000	Clamping and locating angle, right 300x275 mm
1	PL28-03002-001	Clamping and locating angle, left 300x275 mm
1	PE28-03003-000	PE clamping and locating angle, right 600x275x80 mm
1	PE28-03003-001	PE clamping and locating angle, left 600x275x80 mm
4	PE28-03008-000	ECO clamping and locating angle 275x175x50 mm
8	E28-05001-000	ECO universal stop / large 225x50x25 mm
2	E28-05002-000	ECO universal stop / small 100x50x25 mm
2	E28-05003-000	ECO stop-strip L 500 500x100x25 mm
2	E28-05003-001	ECO stop-strip L 800 800x100x25 mm
2	E28-05013-000	ECO locating disk 25-50 mm
2	E28-05013-001	ECO locating disk 25-75 mm
24	D28-06025-000	PPC bolt/short
10	E28-07005-000	ECO screw clamp 180° with spindle
4	E28-07009-000	ECO variable screw clamp 45° with spindle
4	E28-09003-000	ECO V-block locations Ø 58 mm / 130° for tubes up to Ø 70 mm
1	E28-10002-000	ECO round brush Ø 28 mm
1	E28-10008-000	ECO ball-head Allen key AF 8

You can individually assemble or supplement your sets from the BROAD SELECTION OF DEMMELER accessories. The DEMMELER general catalogue is available at www.demmeler.com.

Errors and changes reserved. Offer is non-binding.

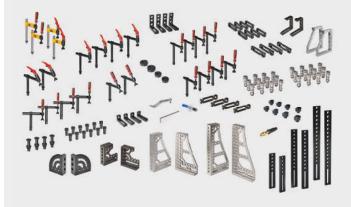


Accessory sets

#### PROFIPIUSLINE Set 731 Item no.: D28-52000-731 (120-pieces)



PROFIPremiumLINE Set 730 Item no.: P28-52000-730 (122-pieces)



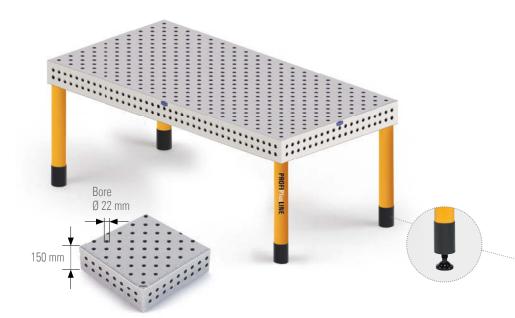
PL Set 731	PP Set 730	ltem no.	Article designation
1		PL28-03003-001	Clamping and locating angle, left 600x375 mm
1		PL28-03003-000	Clamping and locating angle, right 600x375 mm
1		PL28-03002-001	Clamping and locating angle, left 300x275 mm
1		PL28-03002-000	Clamping and locating angle, right 300x275 mm
	2	PL28-03001-015	Clamping and locating angle 225x200x50x125 mm, hardened (bore / bore / oblong hole)
4		PE28-03008-000	Clamping and locating angle 275x175x50 mm
4	4	PE28-03001-000	Clamping and locating angle 175x175x50 mm
	2	PP28-03001-017	Clamping and locating angle 250x300x50x150 mm, aluminium-titanium (bore / bore / oblong hole)
	1	P28-03002-001	PP clamping and locating angle, left 300x275 mm, hardened
	1	P28-03002-000	PP clamping and locating angle, right 300x275 mm, hardened
	1	P28-03004-001	PP clamping and locating angle, aluminium-titanium, left 800x375 mm
	1	P28-03004-000	PP clamping and locating angle, aluminium-titanium, right 800x375 mm
	1	P28-03003-003	PP clamping and locating angle, aluminium-titanium, left 600x375 mm
	1	P28-03003-002	PP clamping and locating angle, aluminium-titanium, right 600x375 mm
4	4	D28-03001-005	Clamping and locating angle / small 175x75x50 mm, scale on both sides
4		D28-05009-000	Universal stop L 300 - 300x50x25 mm
	4	D28-05001-010	Universal stop with scale 225x50x25 mm
	4	D28-05001-001	Universal stop / large with plunger 225x50x25 mm
4		D28-05001-000	Universal stop / large 225x50x25 mm
	1	D28-05013-012	PP angle bracket, left 200x200x75 mm, hardened
	1	D28-05013-011	PP angle bracket, right 200x200x75 mm, hardened
2		D28-05013-010	Angle-setting template, scale on both sides, 0 - 90°, 15°, 30°, 45°, 60°
	2	D28-05003-008	Stop-strip L 1000 - 1000x100x25 mm
2	2	D28-05003-001	Stop-strip L 800 - 800x100x25 mm
2	2	D28-05003-000	Stop-strip L 500 - 500x100x25 mm
2	2	D28-05013-001	Locating disk Ø 100 - stop dimension 25-75 mm, continuous
2	2	D28-05013-000	Locating disk Ø 75 - stop dimension 25-50 mm, continuous
4	8	D28-05015-000	Displacement stop - 150x50x25 mm, scale on both sides
2		D28-06026-000	PPC bolt/long – Ø 28-0,02, SW 14
24	24	D28-06025-000	PPC bolt/short – Ø 28-0,02, SW 14
12	12	D28-06009-000	Stop and positioning bolt Ø 28 / 40x74 mm
	4	D28-07009-033	Performance-clamp incl. spindle - vertical tube 250 mm, angle-adjustable +-50°
	2	D28-07009-012	Variable screw clamp 45° with quick-action clamping cylinder - vertical tube 350 mm
4	2	D28-07009-011	Variable screw clamp 45° with adjusting screw - vertical tube 350 mm
4		D28-07009-000	Variable screw clamp 45° with adjusting screw - vertical tube 220 mm
4		D28-07008-000	Variable screw clamp 90° - vertical tube 260 mm
	4	D28-07005-033	Screw clamp 180° with spindle - vertical tube 500 mm
4	4	D28-07005-015	Screw clamp 180° with quick-action clamping cylinder - vertical tube 350 mm
4	4	D28-07005-014	Screw clamp 180° with spindle - vertical tube 350 mm
4		D28-07005-000	Screw clamp 180° with spindle - vertical tube 220 mm
2	2	D28-07002-000	Compensating swing clamp 200 mm with spindle
-	2	D28-07001-001	Compensating swing clamp 150 mm with quick-action clamping cylinder
2	_	D28-07001-000	Compensating swing clamp 150 mm with spindle
2	4	D28-09001-005	Spacer set with thread - Ø 50x125 mm
2		D28-09001-000	Spacer set 11 pieces - Ø 50x125 mm
8	8	D28-09003-000	V-block locations blackened steel, Ø 58 mm - 130° - for tubes up to Ø 70 mm
1	1	D28-10002-000	Round brush Ø 28x260 mm
1	1	D00-10007-000	Bench stone 200x50x25 mm
1	1	D00-10009-000	Ground connector D16/D28 - for cable 50-70 mm², load up to 500 A
1	1	D00-10016-001	Extraction tool - 250x40 mm, AF 14
1	1	000-10010-001	

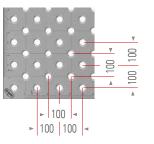


#### 3D welding table PROFIPIusLINE (PL) 22



# DEMMELER 3D welding table **PROFIPIusLINE (PL) 22**







- Worktop with D22 system bores in a 100 mm × 100 mm diagonal grid
- 2-hole drilling pattern in the table side plates with D22 system bores in 50 mm grid.
- 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

**Pivoting leg** with stable M  $28 \times 2$  threaded spindle, finely adjustable ± 30 mm Leg sleeve prevents pinching the welding hose and protects the threaded spindle against dirt.

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

Errors and changes reserved. Offer is non-binding.

Table size	TABLE WITH STANDARD LEG			
LxW				
1000 x 1000 mm	PL22-01001-001			

PL22-01002-001

PL22-01003-001

PL22-01004-001

PL22-01001-011	
PL22-01002-011	
PL22-01003-011	
PL22-01004-011	

DEMONT 760 M HARDENED



2000 x 1000 mm

2400 x 1200 mm

3000 x 1500 mm

SELLER

SELLER



wheel

Heavy-duty

Anchoring leg

HARDNESS

DEMONT 760 N

Demmeler Maschinenbau

Telescoping leg

Accessory sets



OUR PERFORMANCE makes THE DIFFERENCE

#### **PROFIPIusLINE Set 710**

Item no.: D22-52000-710 (26-piece)



PROFIPIUSLINE Set 720 Item no.: D22-52000-720 (57-piece)

item no.. Dzz-52000-720 (57-piece



PROFIPIUSLINE Set 730 Item no.: D22-52000-730 (77-piece)



PL Set 710	PL Set 720	PL Set 730	Item no.	Article designation	
		4	D22-06026-000	PPC bolt/long – Ø 22, SW 6	
10	16	20	E22-06025-000	EcoLINE bolt/short – Ø 22 SW 6	
	6	8	D22-06009-000	Stop and positioning bolts Ø 22/31 $\times$ 52 mm	
	2	2	D22-09001-005	Spacer set with thread – Ø 50 $\times$ 125 mm, height compensation 22-105 mm, continuous	
	2	2	D22-05013-000	Stop washer Ø 75 – stop dimension 25-50 mm, continuous	
	2	2	D22-09001-000	Spacer set 11 pieces – Ø 50 $\times$ 125 mm, height compensation 5-100 mm increment 1 mm	
4	4	4	D22-05015-000	Displacement stop – 100 $\times$ 50 $\times$ 18 mm, scale on both sides	
4		4	D22-05001-000	Universal stop /size 225 × 50 × 18 mm	
	4	4	PE22-03001-000	Clamping and locating angle 175 x 175 mm (bore/oblong hole)	
2	4	4	D22-05009-000	Universal stop L 300 - 300 × 50 × 18 mm	
	2	2	D22-05003-000	Stop strip L 500 – 500 × 100 × 25 mm	
	4	4	D22-07009-000	Variable screw clamp 45° with spindle – vertical pipe 250 mm	
4	4	4	D22-07005-000	Variable screw clamp 180° with spindle – vertical pipe 250 mm	
	4	6	D22-07001-000	Compensating swing clamp 180° with spindle – vertical pipe 300 mm	
1	1	1	D22-10002-000	Round brush Ø 22 with protective cap, for cleaning the system bore	
1	1	1	D22-10016-001	Extraction tool – $250 \times 40$ mm, AF 10	
	1	1	D00-10007-000	Bench stone $200 \times 50 \times 25$ mm	
		1	PE22-03003-001	Clamping and locating angle H 500, DEMONT 760 M Black Edition, hardened casting, left	
		1	PE22-03003-000	Clamping and locating angle H 500, DEMONT 760 M Black Edition, hardened casting, rt	
		1	PE22-03004-001	Clamping and locating angle H 750, DEMONT 760 M Black Edition, hardened casting, left	
		1	PE22-03004-000	Clamping and locating angle H 750, DEMONT 760 M Black Edition, hardened casting, rt	

You can individually assemble or supplement your sets from the BROAD SELECTION OF DEMMELER accessories. The DEMMELER general catalogue is available at www.demmeler.com.

Errors and changes reserved. Offer is non-binding.

D16 Syste

#### 3D welding table PROFIEcoLINE (PE) 16

### DEMMELER 3D welding table **ProfiEcoLINE (PE) 16**



Table size L x W	TABLE WITH STANDARD LEG	DEMONT 760 M HARDENED
1000 x 500 mm	PE16-01000-001	PE16-01000-011
1000 x 1000 mm	PE16-01001-001	PE16-01001-011
1200 x 800 mm	PE16-11019-001	PE16-11019-011
1500 x 1000 mm	PE16-01017-001	PE16-01017-011
1200 x 1200 mm	PE16-01056-001	PE16-01056-011
1500 x 1500 mm	PE16-01011-001	PE16-01011-011
2000 x 1000 mm	PE16-01002-001	PE16-01002-011
SELLER 2400 x 1200 mm	PE16-01003-001	PE16-01003-011
3000 x 1500 mm <sup>1</sup>	PE16-01004-001	PE16-01004-011

<sup>1</sup>Consists of 1500 x 1500 x 100 mm twice. Special sizes available upon request! On request the table is also available in a stainless steel version!

Telescoping leg

DIFFERENT LEG VARIETIES ARE AVAILABLE UPON REQUEST.



Heavy-duty wheel

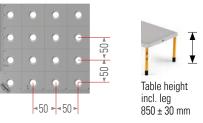
Anchoring leg



HARDNESS

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

version!



- Worktop with D16 system bores in a 50 mm x 50 mm grid
- 3-row bore pattern on the table side plates with D16 system bores, 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

**Pivoting leg** with stable M 24 × 2 threaded spindle, finely adjustable ± 30 mm. **Leg sleeve** prevents pinching the welding hose and protects the threaded spindle against dirt.





3D clamping system



Accessory sets

PROFIEcoLINE Set 710

Item no.: E16-52000-710 (29-piece)



PROFIEcoLINE Set 720 Item no.: E16-52000-720 (79-piece)



PROFIEcoLINE Set 730 Item no.: E16-52000-730 (114-piece)



PE Set 710	PE Set 720	PE Set 730	ltem no.	Article designation	
	4	4	E16-03008-000	ECO clamping and locating angle 140 x 90 x 25 mm	
4	4	10	E16-03001-000	ECO clamping and locating angle 90 x 90 x 25 mm	
2	4	4	E16-03001-002	ECO clamping and locating angle 90 x 37.5 x 25 mm	
	2	1	E16-03002-000	ECO clamping and locating angle right 200 x 137.5 x 50 mm	
	2	1	E16-03002-001	ECO clamping and locating angle left 200 x 137.5 x 50 mm	
2		4	E16-05002-000	ECO universal stop small L55	
4	4	12	E16-05001-000	ECO universal stop / large L115	
	4	2	D16-09001-000	Spacer set 9 pieces	
	4	2	E16-05015-000	ECO displacement-stop L150	
		4	D16-05003-000	Stop strip 250 mm	
	2	2	D16-05003-001	Stop strip 400 mm	
4	8	8	D16-07005-000	Screw clamp 180° with spindle	
2	8	8	D16-07009-000	Variable screw clamp 45° with adjusting screw	
	4	8	D16-09003-000	V-block location Ø 80 mm	
1	1	1	D16-10002-000	Round brush Ø 16 mm	
1	1	1	D00-10007-000	Bench stone	
1	1	1	E16-10008-000	Hexagonal wrench AF 5	
		4	D16-06003-000	Connection bolt / short	
	2	4	E16-06002-000	ECO clamping pin / long	
8	24	32	E16-06001-000	ECO clamping pin / short	
		1	D16-11001-002	Accessory cart D16	

You can individually assemble or supplement your sets from the BROAD SELECTION OF DEMMELER accessories. The DEMMELER general catalogue is available at www.demmeler.com.

Errors and changes reserved. Offer is non-binding.

The New Generation



180°

 $M_{\nu} = 19.000 \, \text{Nm}$ 

# ERGONOMIX M 3000

# THE NEW GENERATION



Unique swivel range up to 180°!

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

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







Request our current manipulator brochure as well.

#### Ergonomix M basic model

0				GENERATION
Description		M 2000 / V1250	M 2000 / V2500	M 3000
Bearing load (w/o worktop)	[kg]	2000	2000	3000
D=max. interference area at 180° (w/o worktop) at height	[mm] [mm]	1000 650	1000 650	1000 650
Max. rotation speed	[RPM]	2	2	2
Min. rotation speed	[RPM]	0.75	0.2	0.2
Torque	[Nm]	1250	2500	3500
Tilt angle	[°]	180	180	180
Moment of tilt	[Nm]	8000	8000	19000
A=min. height (w/o worktop)	[mm]	490	490	525
B=max. Height at 180° swivel angle	[mm]	970	970	960
C=max. Height at 90° swivel angle	[mm]	1480	1480	1480
Pendant control panel		$\checkmark$	$\checkmark$	$\checkmark$
10-speed control		$\checkmark$	$\checkmark$	$\checkmark$
All axes adjustable via servo-hydraulic system		_	-	$\checkmark$
Motors / rotary axis		1	2	1
ltem no.		M02-02000-006	M02-02000-007	M03-03000-00

Specifications without worktop. Other equipment details on request.

THE NEW



# New from DEMMELER

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. We have developed and redesigned countless new products. A selection of which can be see on this two page spread. We are happy to send you additional in-depth information in our new general catalogue in either printed, or digital format.



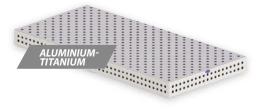


#### WORKTOPS AND 3D WORKTABLES



## **D28** 3D Measuring, assembly and adjustment table

- Outstanding precision for adjusting, measuring and assembling components (Evenness 0.1mm/m)
- Hardened version DEMONT 860 M (up to 860 Vickers)



#### D22 PROFIPIusLINE Aluminium-titanium 3D table

- Recommended for automation solutions and robotics applications
  D22 outem because a discourse leaded
- D22 system bores in a diagonal grid 100 mm x 100 mm



#### D22 3D Worktable Okto 100

- Preferred use with manipulators in robot cells for automation solutions
- High-strength aluminium-titanium alloy, for ~ 60 % weight reduction and ~ 10 % higher bending strength
- D22 system bores in a diagonal grid 100 mm x 100 mm



#### CLAMPING AND LOCATING ANGLE / SCREW CLAMPS



# **D28 PROFIPIUSLINE Clamping and** locating angle casting hardened

- Hardened casting: ultimate stability and ductility
- Three full clamping sides with system bores
- Angle heights: 300 mm, 600 mm, 800 mm

### **D28** PROFIEcoLINE Clamping and locating angle casting hardened

- Hardened casting: ultimate stability and ductility
- Three full clamping sides with system bores
- Angle heights: 600 mm, 800 mm





#### D16 Base bridges

- Powerful in application on 3D laser machines
- Available in many additional lengths
- D28 D16 Spacer block U-form hardened
- Spacer block with hardened surface, DEMONT 760 M
- For use as a table extension

# D22 Spacer block U-form, aluminium-titanium

- Recommended for automation solutions and robotics applications
- Grid 50 x 50 mm



#### Convenient online ordering DEMMELER Online and Webshop

Discover our entire product range for clamping systems, tools and accessories on our webpage and conveniently submit your order online.



Subscribe to our new YouTube Channel that showcases many products and example applications.

#### Fax order form - Fax no.: +49 (0) 83 35 98 59-27

Quantity	ltem no.	Article designation	Unit price	Total price



#### "Original 3D clamping systems and welding tables"

Our general catalogue comprises 620 pages and offers a complete overview of our entire product line with many interesting example applications.

Please send me the general catalogue.

Your address / company stamp / signature

Would you like more information about our products? We will gladly send you a free product brochure. Please use check marks.

PDFs of the brochures are also available for download at www.demmeler.com.



CNC clamping system



REXIBLE PRECISION POSITIONING AND ROTATION



Tool change systems



OUR PERFORMANCE makes THE DIFFERENCE

DEMMELER Maschinenbau GmbH & Co. KG Alpenstraße 10, 87751 Heimertingen/Germany Tel.: + 49 (0) 83 35 98 59-0 Fax: + 49 (0) 83 35 98 59-27 Email: vertrieb@demmeler.com Website: www.demmeler.com Your authorised dealer: