



Englisch – English Version 6.0

THE ORIGINAL
Made in Germany

3D Work- and Welding Table D16

Award winning design



Innovative technology improved

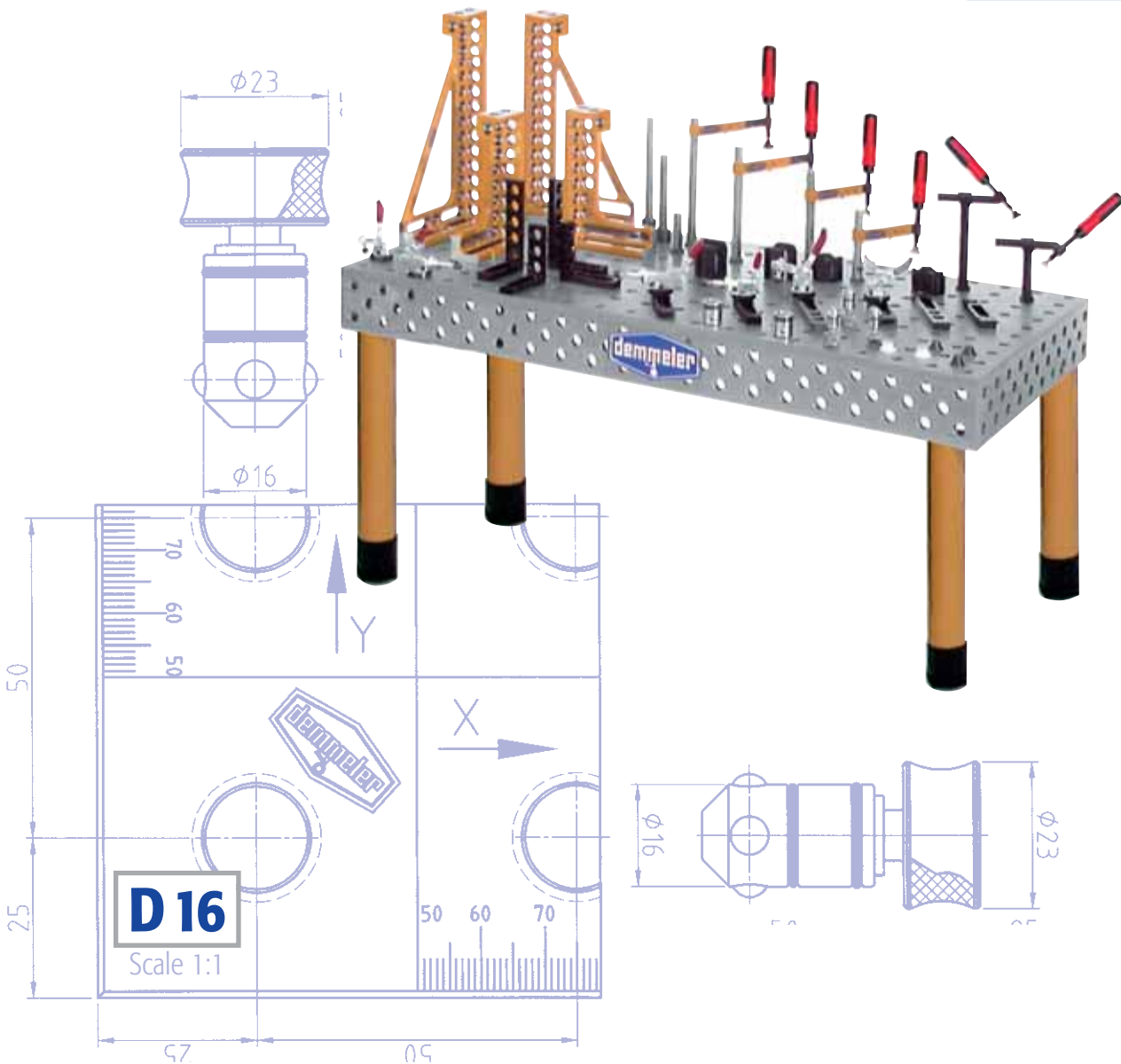
D28 ProfiLine
... meets the requirements of high-quality suppliers

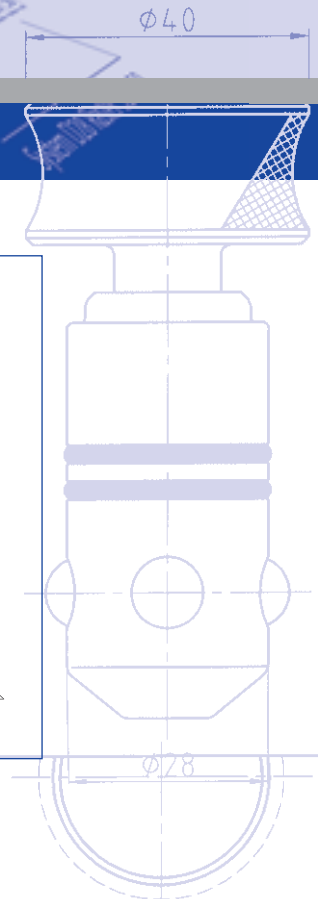
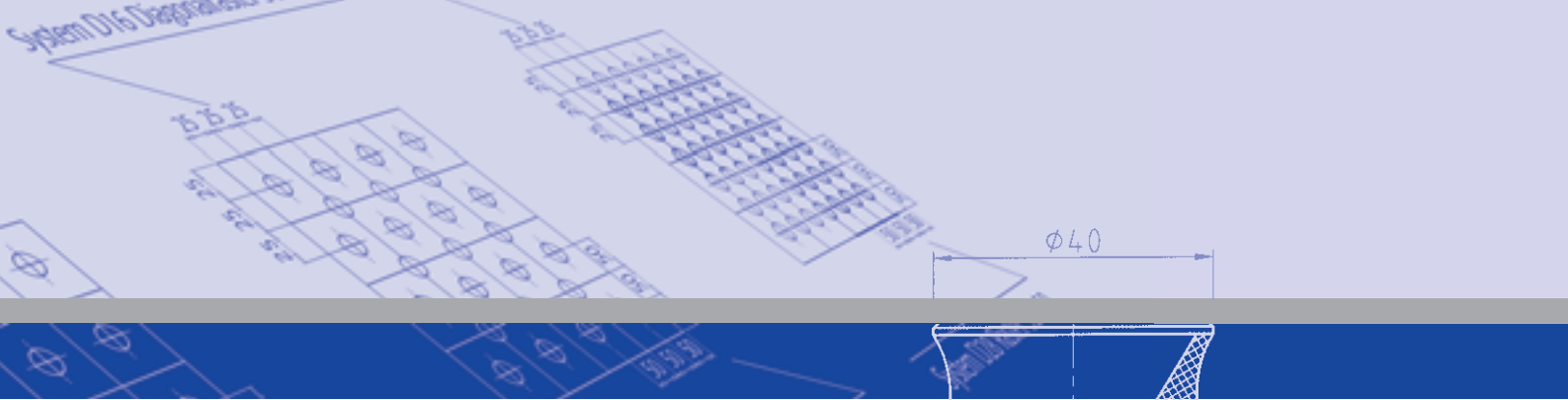
D16 ProfiLine
... meets the requirements of high-quality suppliers

D28 ProfiLine
D16 ProfiLine

3D WORK AND WELDING TABLE SYSTEM System Comparison D16–D28

System D16	
Bores	Ø 16 mm
Grid	50 × 50 mm
Bolts	Ø 16 mm

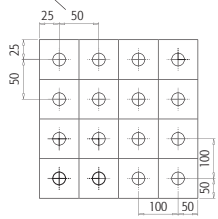




Bore Grid 3D-Demmeler System

Standard Grid

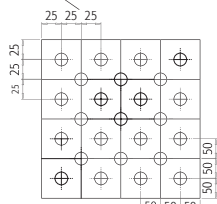
System D16 Grid 50×50



System D28 Grid 100×100

Diagonal Grid

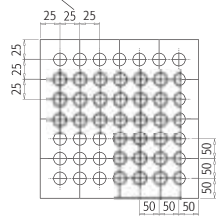
System D16 Diagonal Grid 50×50



System D28 Diagonal Grid 100×100

Absolute Grid

System D16 Grid 25×25

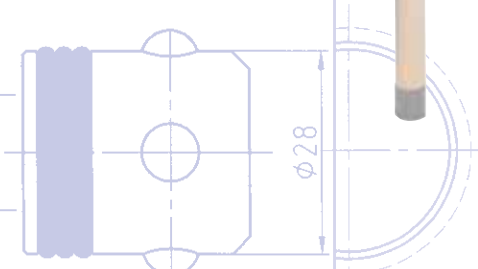
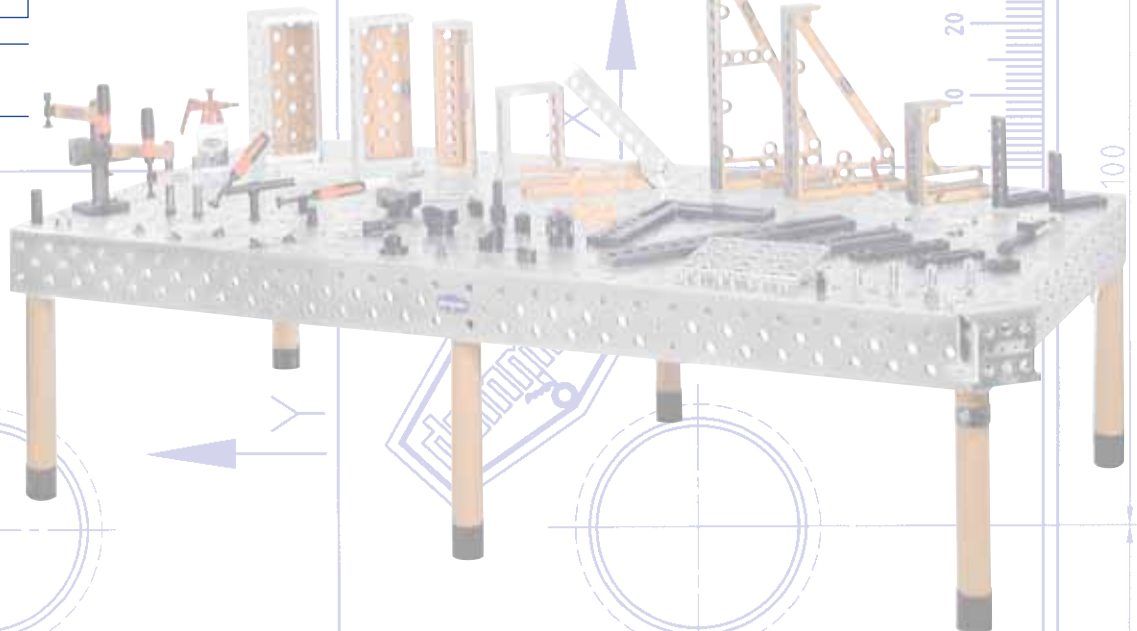


System D28 Grid 50×50

System D28

- Bores \varnothing 28 mm
- Grid 100 × 100 mm
- Bolts \varnothing 28 mm

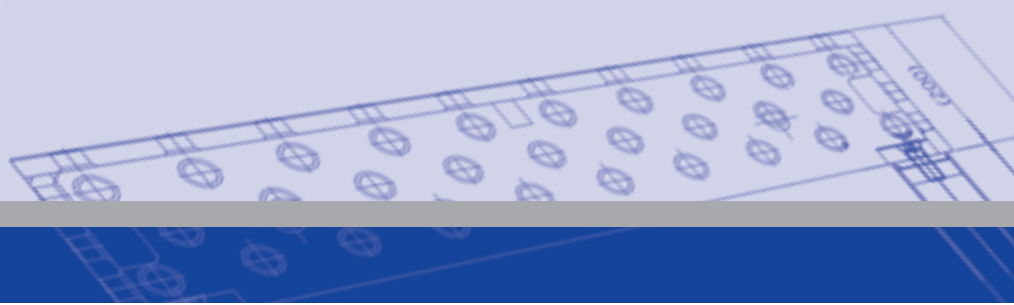
Refer to our brochure
3D Work and
Welding Table System D28



D 28

Scale 1:1

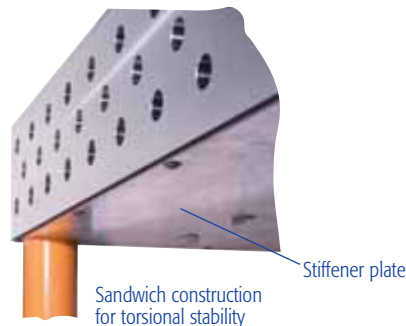
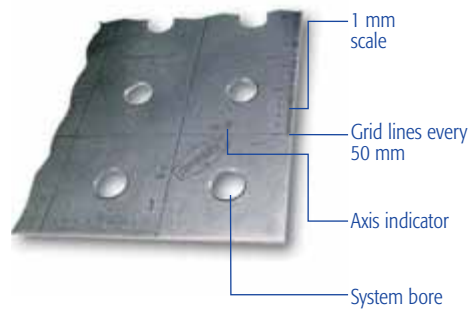




Description

Universal 3D Work and Welding Table

- The new diagonal grid offers additional clamping possibilities (**Double the number of bores**)
- **Stiffener plate offers higher stability**
- **Stiffener plate with openings keeps dirt out from under the table**
- Basic elements of the **Demmeler System**
- Strong heavy ribbing and high quality steel provide for **high stability** and four **additional clamping surfaces**
- Table has high loading capacity (5 tons per leg max.)
- With a 50×50 mm grid pattern of bores, the table is **expandable in all five directions** over the full length, width and height
- Fixtures can be quickly and accurately built using the grid bores, grid lines and integrated **scales with axis indicators**
- Uneven floors and height differences are compensated for with **adjustable pivoting feet**
- **Leg Sleeves** prevent snagging of welding cables and protect the threads from dirt
- The **highest quality** comes from using modern manufacturing methods (multi-sided machining)



Special designs on request:

- Special table sizes and heights
- Surface hardening, approx 0.5 mm deep / 55 HRC
- Other materials (e.g. Stainless steel)
- Double bore pattern
- Without bores
- Scissor lift
- Spacer frame

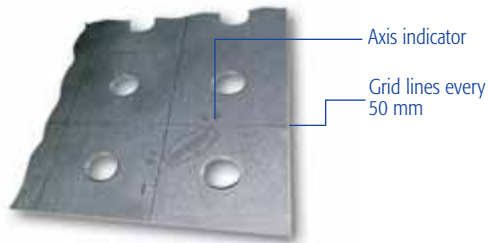
Description	Part Number
3D Work Table with Standard Legs	
Overall height 850 mm + 30 mm fine adjustment, high table load capacity	
3D Work Table 1000 × 500 × 850 mm table height with 4 Standard legs. Weight approx 100 kg	D16-01000-001
3D Work Table 1000 × 1000 × 850 mm table height with 4 Standard legs. Weight approx 160 kg	D16-01001-001
3D Work Table 1000 × 1200 × 850 mm table height with 4 Standard legs. Weight approx 210 kg	D16-01056-004
3D Work Table 1500 × 1000 × 850 mm table height with 4 Standard legs. Weight approx 220 kg	D16-01017-001
3D Work Table 1500 × 1500 × 850 mm table height with 4 Standard legs. Weight approx 300 kg	D16-01011-010
3D Work Table 2000 × 1000 × 850 mm table height with 4 Standard legs. Weight approx 280 kg	D16-01002-001
3D Work Table 2400 × 1200 × 850 mm table height with 4 Standard legs. Weight approx 380 kg	D16-01003-001
3D Work Table with Telescoping Legs	
Adjustable height from 750 to 1100 mm (adjustment with fine-pitch thread)	
3D Work Table 1000 × 500 × 850 table height with 4 Telescoping legs. Weight approx 100 kg	D16-01000-002
3D Work Table 1000 × 1000 × 850 table height with 4 Telescoping legs. Weight approx 160 kg	D16-01001-002
3D Work Table 1200 × 1200 × 850 table height with 4 Telescoping legs. Weight approx 210 kg	D16-01056-002
3D Work Table 1500 × 1000 × 850 table height with 4 Telescoping legs. Weight approx 220 kg	D16-01017-017
3D Work Table 1500 × 1500 × 850 table height with 4 Telescoping legs. Weight approx 300 kg	D16-01011-009
3D Work Table 2000 × 1000 × 850 table height with 4 Telescoping legs. Weight approx 280 kg	D16-01002-002
3D Work Table 2400 × 1200 × 850 table height with 4 Telescoping legs. Weight approx 380 kg	D16-01003-002
3D Work Table with Heavy Duty Wheels	
For easy repositioning of the 3D table, 4 steerable wheels, two with brakes. Overall height 850 mm + 30 mm fine adjustment. Note: There will be a reduction in part load capacity!	
3D Work Table 1000 × 500 × 850 mm table height with set of Heavy duty wheels, max table load 2200 kg. Weight approx 110 kg	D16-01000-003
3D Work Table 1000 × 1000 × 850 mm table height with set of Heavy duty wheels, max table load 2200 kg. Weight approx 170 kg	D16-01001-003
3D Work Table 1200 × 1200 × 850 mm table height with set of Heavy duty wheels, max table load 2200 kg. Weight approx 220 kg	D16-01056-001
3D Work Table 1500 × 1000 × 850 mm table height with set of Heavy duty wheels, max table load 2200 kg. Weight approx 230 kg	D16-01017-003
3D Work Table 1500 × 1500 × 850 mm table height with set of Heavy duty wheels, max table load 2200 kg. Weight approx 310 kg	D16-01011-011
3D Work Table 2000 × 1000 × 850 mm table height with set of Heavy duty wheels, max table load 2100 kg. Weight approx 290 kg	D16-01002-003
3D Work Table 2400 × 1200 × 850 mm table height with set of Heavy duty wheels, max table load 2000 kg. Weight approx 390 kg	D16-01003-003
3D Work Table with Anchoring Legs	
For anchoring the work table to the floor to prevent movement during use (e.g. when using robots). Total height 850 mm + 30 mm fine adjustment	
3D Work Table 1000 × 500 × 850 mm table height with 4 Anchoring legs. Weight approx 100 kg	D16-01000-004
3D Work Table 1000 × 1000 × 850 mm table height with 4 Anchoring legs. Weight approx 160 kg	D16-01001-004
3D Work Table 1200 × 1200 × 850 mm table height with 4 Anchoring legs. Weight approx 210 kg	D16-01056-006
3D Work Table 1500 × 1000 × 850 mm table height with 4 Anchoring legs. Weight approx 220 kg	D16-01017-018
3D Work Table 1500 × 1500 × 850 mm table height with 4 Anchoring legs. Weight approx 300 kg	D16-01011-0012
3D Work Table 2000 × 1000 × 850 mm table height with 4 Anchoring legs. Weight approx 280 kg	D16-01002-004
3D Work Table 2400 × 1200 × 850 mm table height with 4 Anchoring legs. Weight approx 380 kg	D16-01003-004



Technical Description

Base Plate Table

- The simpler and less expensive version of a 3D work and welding table
- Especially suitable for simpler workpieces
- Endless possibilities with the grid pattern of bores
- Includes 12 pivoting and lockable side stops



Special designs on request:

- Special table sizes and heights
- Surface hardening, approx 0.5 mm deep / 55 HRC
- Optional material (e.g. stainless steel)
- Double bore pattern
- Without bores



Description	Part Number
Base Plate Table with Standard Legs	
Total height 850 mm + 30 mm fine adjustment	
Base Plate Table 2000 × 1000 × 850 mm with Standard legs. Weight approx 240 kg	D16-01102-001
Base Plate Table 2400 × 1200 × 850 mm with Standard legs. Weight approx 310 kg	D16-01103-001
Base Plate Table with Telescoping Legs	
Adjustable height from 650 to 1000 mm (adjustment with fine-pitch thread)	
Base Plate Table 2000 × 1000 mm with Telescoping legs. Weight approx 240 kg	D16-01102-002
Base Plate Table 2400 × 1200 mm with Telescoping legs. Weight approx 310 kg	D16-01103-002
Base Plate Table with Set of Heavy Duty Wheels	
For easy repositioning of the 3D table, 4 steerable wheels, two with brakes. Overall height 850 mm + 30 mm fine adjustment. Note: There will be a reduction in part load capacity!	
Base Plate Table 2000 × 1000 × 850 mm with set of Heavy duty wheels. Weight approx 250 kg max. Table load capacity 2000 kg	D16-01102-003
Base Plate Table 2400 × 1200 × 850 mm with set of Heavy duty wheels. Weight approx 320 kg max. Table load capacity 1900 kg	D16-01103-003

Technical Description

Description

Part Number

Base Elements



3D Work Table / Octagonal

- Used on a positioner in a robot cell
- With a 50 mm × 50 mm grid pattern on all nine sides, the fixturing possibilities are the same as the 3D table
- On request, other configurations are available, e.g. various legs or with special attachment bores for a robot positioner

*****please request the corresponding positioner**

LENGTH	WIDTH	HEIGHT	WEIGHT
600	600	100	approx 50 kg

D16-01009-***

LENGTH	WIDTH	HEIGHT	WEIGHT
800	800	100	approx 50 kg

D16-01008-***

LENGTH	WIDTH	HEIGHT	WEIGHT
1000	1000	100	approx 120 kg

D16-01024-***

LENGTH	WIDTH	HEIGHT	WEIGHT
1200	1200	100	approx 180 kg

D16-01070-***

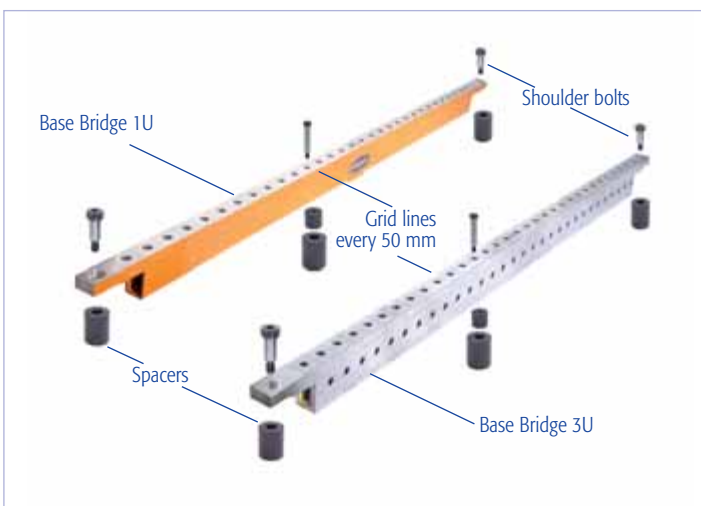


Segmented Grid Plate

- Extremely flexible clamping possibilities with 50 mm grid pattern
- The interlaced contours create a continuous clamping field
- Optimally combined on **3D laser machines** with base bridge **D16-04100-*****

LENGTH	WIDTH	HEIGHT	WEIGHT
550	500	12	approx 20 kg

D16-02100-000



Base Bridge

- Special for installation on a laser machine (e.g. Trumpf Laserzell 105, 1005, 6005)
- Many fixturing possibilities when connected with segmented grid plate D-16-02100-000
- System fixturing components can be directly mounted
- Includes M12 shoulder bolts with spacers

- 1 Bore Grid

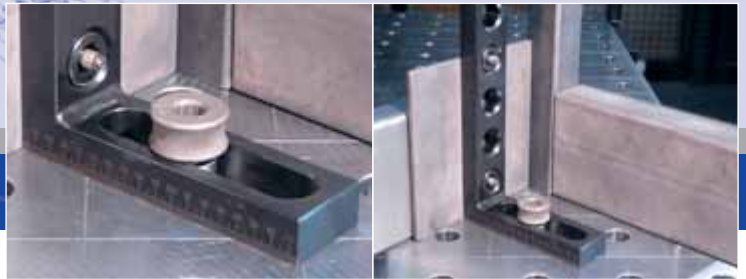
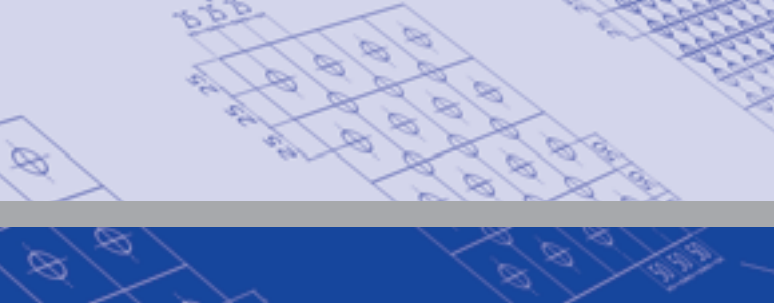
- Base Bridge 1U TLC 105 kpl.:**
- Base Bridge 1U TLC 1005 kpl.:**
- Base Bridge 1U TLC 6005 kpl.:**
- Base Bridge 1U TLC 7050 kpl.:**

D16-04100-010
D16-04100-009
D16-04100-013
D16-04100-026

- 3 Bore Grid

- Base Bridge 3U TLC 105 kpl.:**
- Base Bridge 3U TLC 1005 kpl.:**
- Base Bridge 3U TLC 6005 kpl.:**
- Base Bridge 3U TLC 7050 kpl.:**

D16-04100-008
D16-04100-005
D16-04100-012
D16-04100-027



Technical Description	Description	Part Number
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Clamping and Locating Angle

- Fixed and infinitely adjustable
- Ideal for tight locations
- Black Oxide Finish



Clamping and Locating Angle

Bored / Slotted
Slotted / Slotted
Bored / Bored

D16-03001-000
D16-03001-003
D16-03001-004

- Scale on both sides. Measuring alignment using the grid lines on the 3D

LENGTH	WIDTH	HEIGHT	WEIGHT
90 mm	25 mm	90 mm	approx 0.3 kg



Clamping and Locating Angle Small

- Scale on both sides. Measuring alignment using the grid lines on the 3D Work Table possible

D16-03001-002

LENGTH	WIDTH	HEIGHT	WEIGHT
90 mm	25 mm	37.5 mm	approx 0.2 kg



Clamping and Locating Angle 37.5

D16-03001-008

LENGTH	WIDTH	HEIGHT	WEIGHT
37.5 mm	25 mm	37.5 mm	approx 0.5 kg



Clamping and Locating Angle

D16-03008-000

- For use with lighter workpieces
- Scale on both sides. Measuring alignment using the grid lines on the 3D Work Table possible

LENGTH	WIDTH	HEIGHT	WEIGHT
90 mm	25 mm	140 mm	0.5 kg



Technical Description	Description	Part Number
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Clamping and Locating Angle

- Fixed or infinitely adjustable
- **Four full clamping sides** with **system bores** provide multiple **fixturing possibilities**
- Special casting (**highest stability and toughness**)
- Easier sliding because of the **steel casting**
- Optimal **ergonomic design** and **weight**
- Available in **both** left and right hand configuration
- **Grid lines** on the face **shorten construction times**
- Recommended to be ordered in **pairs**
- Used as a tall locator or as a table extension
- With top plate for extended surfaces
- Powder coated



Clamping and Locating Angle

Right
Left

D16-03002-000
D16-03002-001

LENGTH	WIDTH	HEIGHT	WEIGHT
1375 mm	50 mm	200 mm	approx. 3.5 kg



Clamping and Locating Angle

Right
Left

D16-03003-000
D16-03003-001

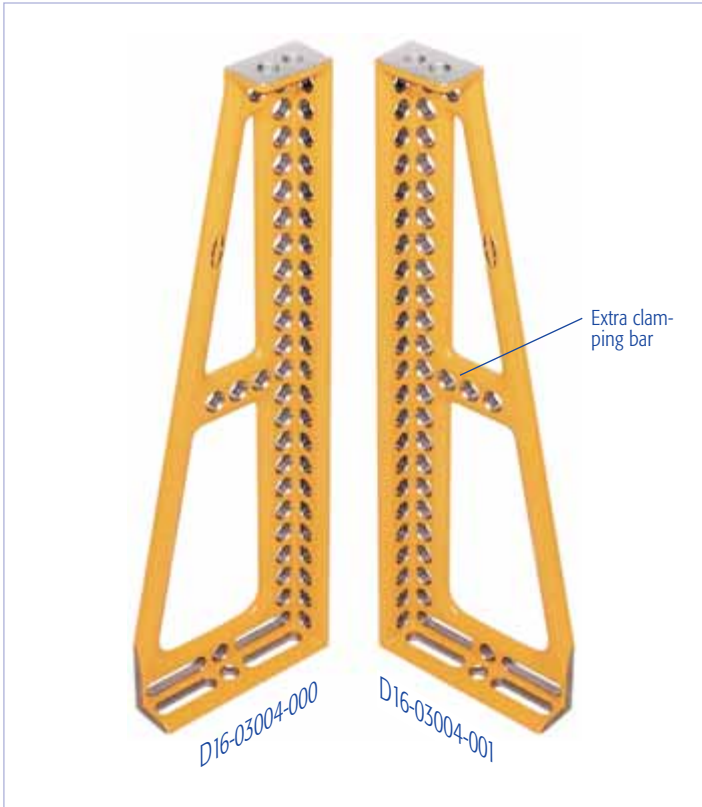
LENGTH	WIDTH	HEIGHT	WEIGHT
1875 mm	50 mm	400 mm	approx. 6.5 kg



Technical Description

Description

Part Number

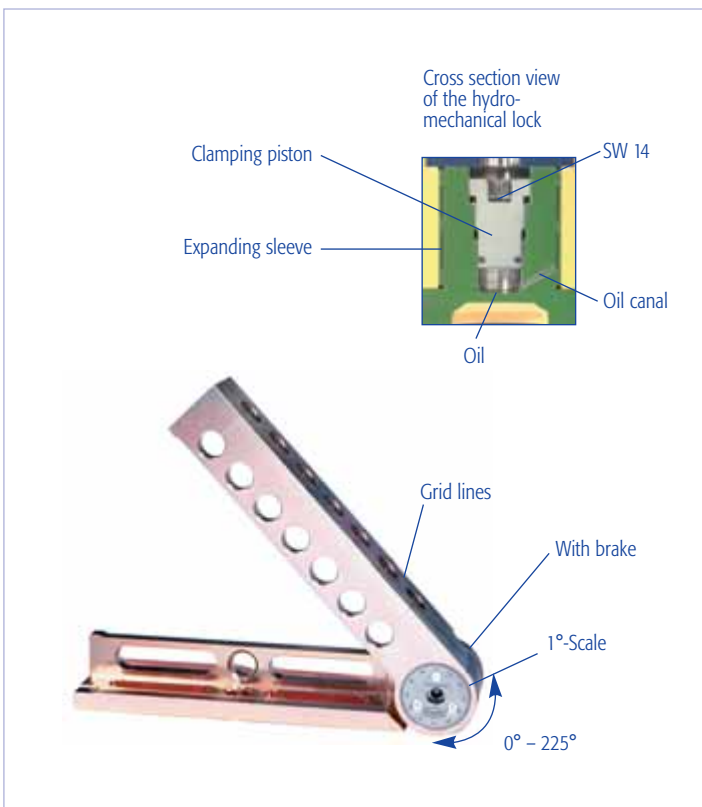


Clamping and Locating Angle

Right
Left

D16-03004-000
D16-03004-001

LENGTH	WIDTH	HEIGHT	WEIGHT
1875 mm	50 mm	600 mm	approx 9.5 kg



Universal Adjustable Angle

D16-03007-000

- Infinitely adjustable **0° – 225°** adjustable with **scale**
- **Hydro-mechanical clamping:**
 - Absolutely maintenance free
 - Holding force to **5000 Nm** torque
- Compatible with other system components
- Useable both **horizontally** and **vertically**

LENGTH	WIDTH	HEIGHT	WEIGHT
250 mm	50 mm	50 mm	approx 6 kg



Technical Description

Description

Part Number



Console

- **Five full clamping sides** with **system bores** provides a **multitude** of possibilities
- Interface element between the various system components
- Many **versatile combinations**:
 - with 50 mm system bore grid
 - with slots (variable adjustment)
- Made as a single **casting** ensuring high stability and easy **handling**
- Use as a riser or an extension
- Powder coated

D16-03005-001

LENGTH	WIDTH	HEIGHT	WEIGHT
150 mm	100 mm	50 mm	approx 3 kg



Corner Module

- Use as:
 - **Diagonal** table extension
 - **V-block, support** and **locator**
 - **Corner locator** for additional components
- **5 Sided clamping, locating and supporting surfaces** provide great **flexibility**
- As an adapter, compatible with all other 3D system components
- Minimum weight but high stability
- Perfect in **function, ergonomics** and **design**
- Powder coated

D16-04005-000

LENGTH	WIDTH	HEIGHT	WEIGHT
100 mm	100 mm	85 mm	approx 2.5 kg



Adapter Plate

- As an interface between 3D system and individual components i.e. for welding / bolting of **special user elements**

D16-05010-000

LENGTH	WIDTH	HEIGHT	WEIGHT
75 mm	75 mm	12 mm	approx 0.6 kg



Technical Description	Description	Part Number
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Clamping Block

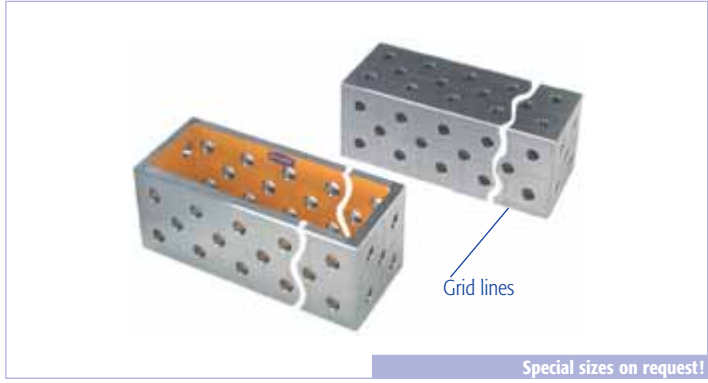
- Use: **5-sided**
- As **Table extension** or for **connecting multiple 3D tables**
- Third Axis extension as a **clamping tower**
- **Connecting** system components

LENGTH	WIDTH	HEIGHT	WEIGHT
500 mm	200 mm	100 mm	approx. 18 kg

D16-04010-000

LENGTH	WIDTH	HEIGHT	WEIGHT
500 mm	500 mm	100 mm	approx. 35 kg

D16-04011-000



Spacer Block U-Form

- Use: **5-sided**
- **Additional clamping** sides mean more applications possibilities
- As a **table extension**. For spacer blocks 1 m and longer support leg D00-10010-*** can be added

- 500 mm long
- 1000 mm long
- 1500 mm long
- 2000 mm long

D16-04002-000
D16-04002-001
D16-04002-002
D16-04002-003

LENGTH	WIDTH	HEIGHT	WEIGHT
see above	100 mm	100 mm	approx. 19 kg je 500 mm

Special sizes on request!

Universal-Stops

- These stops are **fixed** or **infinitely adjustable** on the 3D table and accessories
- The special shape of the universal stop allows locating of workpieces **around all sides** and also in the **milled notches**
- The bore in the universal stop serves as a clamp lock for all **swing clamps** offered in the catalog, or for mounting of **toggle clamps** or other **positioning** and **clamping components** using an adapter with tapered locking screw or PC bolt
- Black Oxide Finish



Universal-Stop | Small

- Used where space is limited

LENGTH	WIDTH	HEIGHT	WEIGHT
55 mm	25 mm	12 mm	approx. 0.7 kg

D16-05002-000

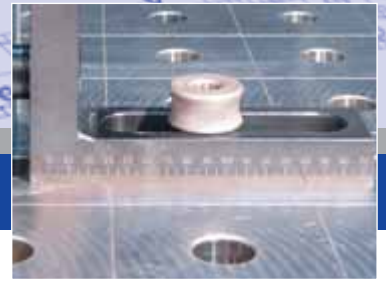


Universal-Stop | Large

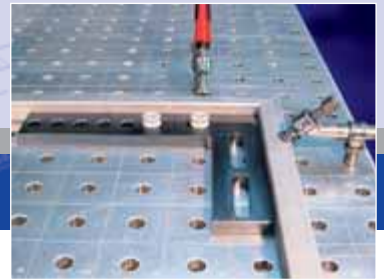
- Can be located and locked on all five sides of the table's grid pattern in increments of **10 or 15 mm** or on angles of **45°, 90°, 135°, 180°**
- **Slot** makes this infinitely adjustable

LENGTH	WIDTH	HEIGHT	WEIGHT
115 mm	25 mm	12 mm	approx. 1.2 kg

D16-05001-000



Technical Description	Description	Part Number								
 <p>approx 3 mm Stroke Spring loaded plunger</p>	<p>Universal-Stop Large with Plunger</p> <ul style="list-style-type: none"> Like the universal stop Large D16-05001-000 With additional spring loaded plunger for clamping of sheet metal and formed parts No additional clamping of the workpieces is necessary <table border="1"> <thead> <tr> <th>LENGTH</th> <th>WIDTH</th> <th>HEIGHT</th> <th>WEIGHT</th> </tr> </thead> <tbody> <tr> <td>115 mm</td> <td>25 mm</td> <td>12 mm</td> <td>approx 1.2 kg</td> </tr> </tbody> </table>	LENGTH	WIDTH	HEIGHT	WEIGHT	115 mm	25 mm	12 mm	approx 1.2 kg	<p>D16-05001-001</p>
LENGTH	WIDTH	HEIGHT	WEIGHT							
115 mm	25 mm	12 mm	approx 1.2 kg							
 <p>Scale</p>	<p>Universal-Stop with Scale</p> <ul style="list-style-type: none"> Infinite alignment using the scale and grid lines <table border="1"> <thead> <tr> <th>LENGTH</th> <th>WIDTH</th> <th>HEIGHT</th> <th>WEIGHT</th> </tr> </thead> <tbody> <tr> <td>115 mm</td> <td>25 mm</td> <td>12 mm</td> <td>approx 1.3 kg</td> </tr> </tbody> </table>	LENGTH	WIDTH	HEIGHT	WEIGHT	115 mm	25 mm	12 mm	approx 1.3 kg	<p>D16-05001-004</p>
LENGTH	WIDTH	HEIGHT	WEIGHT							
115 mm	25 mm	12 mm	approx 1.3 kg							
	<p>Universal-Stop L165</p> <p style="text-align: right;">165 mm long</p> <ul style="list-style-type: none"> Larger setting range Three system bores To bridge over larger locating surfaces <table border="1"> <thead> <tr> <th>LENGTH</th> <th>WIDTH</th> <th>HEIGHT</th> <th>WEIGHT</th> </tr> </thead> <tbody> <tr> <td>165 mm</td> <td>25 mm</td> <td>12 mm</td> <td>approx 1.8 – 3.0 kg</td> </tr> </tbody> </table>	LENGTH	WIDTH	HEIGHT	WEIGHT	165 mm	25 mm	12 mm	approx 1.8 – 3.0 kg	<p>D16-05009-000</p>
LENGTH	WIDTH	HEIGHT	WEIGHT							
165 mm	25 mm	12 mm	approx 1.8 – 3.0 kg							
 <p>Scale both sides</p>	<p>Offset Stop L 150</p> <ul style="list-style-type: none"> Scales on both sides makes setup using the grid lines on the 3D Work Table possible <table border="1"> <thead> <tr> <th>LENGTH</th> <th>WIDTH</th> <th>HEIGHT</th> <th>WEIGHT</th> </tr> </thead> <tbody> <tr> <td>150 mm</td> <td>25 mm</td> <td>12 mm</td> <td>approx 0.9 kg</td> </tr> </tbody> </table>	LENGTH	WIDTH	HEIGHT	WEIGHT	150 mm	25 mm	12 mm	approx 0.9 kg	<p>D16-05015-000</p>
LENGTH	WIDTH	HEIGHT	WEIGHT							
150 mm	25 mm	12 mm	approx 0.9 kg							



Technical Description

Description

Part Number

Stop Bar / Flat Angle

- Larger dimensions, higher stability **larger locating surfaces** and **more fixturing possibilities**
- **Fixed** and **infinitely adjustable** on the 3D table and accessories
- System bores serve as clamp locks for all swing clamps offered, or for mounting V-blocks, angles, PC bolts, etc.
- Black Oxide Finish



Stop Bar L 250 | L 400

250 mm long
400 mm long

D16-05003-000
D16-05003-001

LENGTH	WIDTH	HEIGHT	WEIGHT
see above	50 mm	12 mm	approx 1 – 1.5 kg



Flat Angle

- Infinite positioning at 90° angles
- Can be used left or right hand

D16-03006-000

LENGTH	WIDTH	HEIGHT	WEIGHT
250 mm	187.5 mm	12 mm	approx 2 kg

Technical Description

Description

Part Number

V-Blocks

- For positive location of pipes
- Connects with PC Bolts
- Fits all **system bores**
- Black Oxide Finish



V-Block Ø 80 | 120°

- Connects with PC Bolts
- For tube diameters up to 140 mm
- Double V-Block

Steel, Black Oxide Finish
Stainless Steel
Polyamide

D16-09003-000
D16-09003-002
D16-09003-003

LENGTH	WIDTH	HEIGHT	WEIGHT
50 mm	80 mm	120°	approx 0.7 kg



V-Block Ø 50 | 120° / 90°

- Connects with PC Bolts
- For tube diameters up to 70 mm
- Can be used for square and rectangular tubing

Steel, Black Oxide Finish
Stainless Steel
Polyamide

D16-09004-000
D16-09004-002
D16-09004-003

LENGTH	WIDTH	HEIGHT	WEIGHT
50 mm	50 mm	120° / 90°	-



Technical Description	Description	Part Number
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Supports

- Can be inserted into any **fixed** or **adjustable locating point** and **surface** anywhere in the system
- **Optional materials** available (e.g. stainless steel)
- Black Oxide Finish



Spacer Set 9 Pieces

- From 5 – 50 mm **above** the reference surface
- Smallest increment **0.5 mm**
- Includes 1/10" Inch spacer (2,54 mm)
- With sizes etched on the surface of each spacer
- Fits all **system bores**
- Self locking with O-Ring
- Top surface has an **M8 Tapped hole** for customer specific components or V-blocks

LENGTH	WIDTH	HEIGHT	Ø
60 mm	-	-	25 mm

D16-09001-000



Adjusting spindle L280

- to adjust an infinitely variable support
- clamping in positions which are hard to reach

LENGTH	WIDTH	HEIGHT	Ø
180 mm	-	-	25/16 mm

D16-09008-000

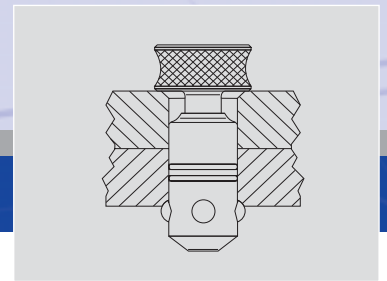


Magnet Clamp D28

- Holding force 25 N

LENGTH	WIDTH	HEIGHT	Ø
14 mm	-	-	16 mm

D16-13001-001



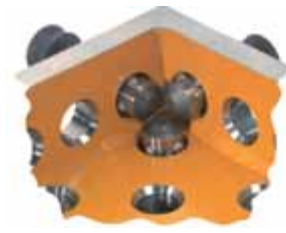
Technical Description	Description	Part Number
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PC Bolts (Positioning and Clamping)

- **Connecting element** from table to table, supports, angles, consoles, adapter plates, transport rings, etc.
- **Quick acting** with simultaneous action from both sides with large clamping range
- **Very high clamping force** generated by a planetary gear-like action (**a double-start thread is not used**)
- **Self centering with an O-Ring** and positive force of five balls being driven outward
- Finish ground for **highest precision**
- High quality, hardened materials
- Integral O-Rings prevent the bolt from **turning** during **tightening / loosening**
- **O-Ring** cleans the **system bores** / Bolts are **unaffected by dirt**
- Clamp using hex key SW 4 / SW 8 or a torque wrench, (see page 26)
- Easy unclamping by turning the head
- Approved **tightening torque 20 Nm**
- **Patented**



Recommended Torque Wrench, Part No. D16-10015-000
See accessory page 26



Clamping in a tight space with three PC bolts

**Bauart
geprüft**

patented

PC Bolts Short

- **Ergonomic** shaped **bolt head** with **grip groove** for **better handling**
- **Double hex** for finer wrench increments

LENGTH	WIDTH	HEIGHT	Ø
-	-	50 mm	16 - 0.01 mm

D16-06001-000

**Bauart
geprüft**

patented

PC Bolts Long

- **Ergonomic** shaped **bolt head** with **grip groove** for **better handling**
- **Double hex** for finer wrench increments
- For clamping of **two system components** to a **third**

LENGTH	WIDTH	HEIGHT	Ø
-	-	65 mm	16 - 0.01 mm

D16-06002-000

**Bauart
geprüft**

patented

Low Profile PC Bolt Short

- **Tapered bolt head** (eliminates interference)
- **Only for use in bores**, not slots
- Clamp with hex key SW 4 or torque wrench (see page 26)

LENGTH	WIDTH	HEIGHT	Ø
-	-	44 mm	16 - 0.01 mm

D16-06004-000



Technical Description

Description

Part Number



Low Profile PC Bolt Long

- **Tapered bolt head** (eliminates interference)
- **Only for use in bores**, not slots
- Clamp with hex key SW 4 or torque wrench (see page 26)
- For clamping of **two system components** to a **third**

D16-06005-000

LENGTH	WIDTH	HEIGHT	Ø
-	-	55 mm	16 - 0.01 mm

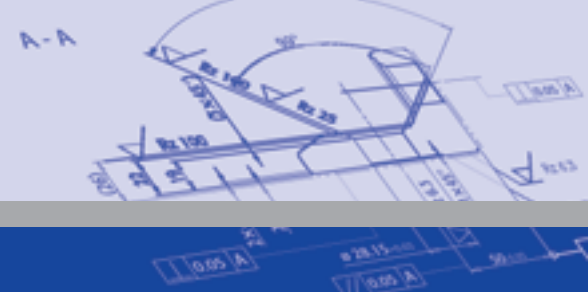


Locating Pins

- For locating system components
- Black Oxide Finish

D16-06009-000

LENGTH	WIDTH	HEIGHT	Ø
-	-	55 mm	16 - 0.01 mm



Technical Description	Description	Part Number
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Connection Bolt



Connection Bolt Short with Screw

- Use for **long-term connection**
- **Both ends** with tapered locking heads
- Only for use with system bores
- **Self centering**
- Clamping with SW 6 hex wrench

LENGTH	WIDTH	HEIGHT	Ø
-	-	25 mm	16 mm

D16-06003-000



Connection Bolt Long with Screw

- Same functions as short connection bolt, but for clamping two system components to a third

LENGTH	WIDTH	HEIGHT	Ø
-	-	35 mm	16 mm

D16-06006-000



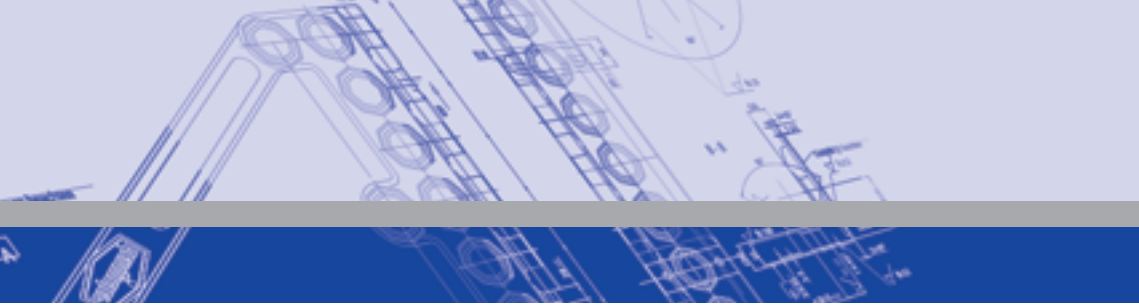
Adapter tube L 100 | L 200 | L 300

- Extension of the support and clamping points
- Adjustable using the tube of a swing clamp
- Clamping using a PC bolt is possible

Length: 100 mm
Length: 200 mm
Length: 300 mm

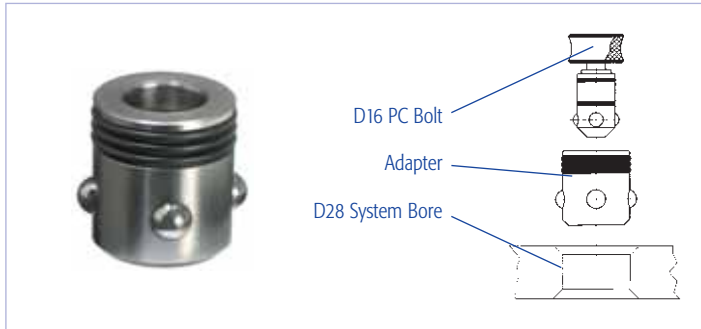
LENGTH	WIDTH	HEIGHT	Ø
specified above	-	-	25/16 mm

D16-09010-000
D16-09010-001
D16-09010-002



Technical Description	Description	Part Number
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Interface Elements D28 to D16



Adapter for PC bolts D28 to D16

- **Interface** between **D28** and **D16** Systems
- **Self centering with O-Rings** and positive force of four balls being driven outward
- Finish ground for **highest precision**
- High quality, **hardened material**
- Integral O-Rings prevent the bolt from **turning** during **tightening / loosening**
- O-Ring cleans the system bore

LENGTH	WIDTH	HEIGHT	Ø
-	-	30 mm	28 - 0.01 mm

D00-06010-000



D16 Reduction Bushing

- Allows D16 system clamping tubes to be used in D16 system bores
- D16 toggle clamp can be used in D16 system bores
- Serves as a support or a stop

LENGTH	WIDTH	HEIGHT	Ø
-	-	27 mm	28 / 16 mm

D00-06012-000

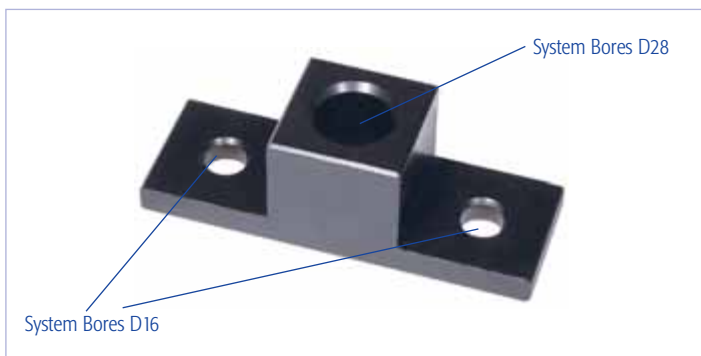


Thread Reducer D28 and D16 Clamping Screw

- Allows D16 system clamping screw to be used in D28 bores

LENGTH	WIDTH	TR	Ø
-	-	12 x 3 mm	28 mm

D00-06013-000

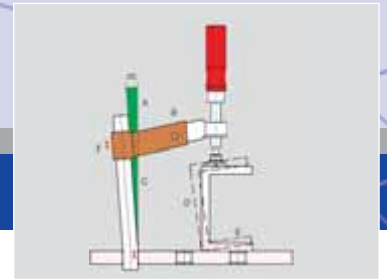


Reduction Plate

- Serves as interface between D16 system parts and clamping tubes from D28 system (e.g. swing clamps)
- Adapter for D28 to D16 System

LENGTH	WIDTH	HEIGHT	WEIGHT
150 mm	50 mm	50 mm	approx 2 kg

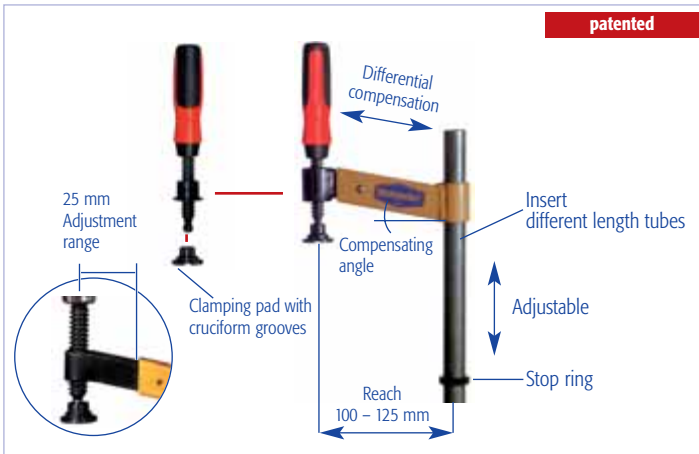
D00-06015-000



Technical Description	Description	Part Number
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Compensating Swing Clamps:

- For **fast, full force** and **accurate** clamping of various workpieces
- Fits every **system bore** (self locking)
- **Differential compensation** adjusts for the deflection of the clamping tube. Single and multiple-position workpiece clamping
- **Type of operation** of each swing clamp can be **changed**
- With **interchangeable clamping pads**
- Height adjustment with a stop ring
- Standard clamp height max. 200 mm
- Clamping tubes in various lengths can be substituted



Compensating Swing Clamp with Clamping Screw

The most "universal" – optimal for small lot sizes

Compensating Swing Clamp 100 mm long with Clamping Screw

D16-07001-000

LENGTH	WIDTH	HEIGHT	WEIGHT
100 – 125 mm	approx 50 mm	350 mm	approx 0.6 kg



Compensating Swing Clamp with Toggle Clamp

The most "economical",

- Quick and full force clamping by moving the lever approximately 150°
- No interference because the lever pivots 360°

Compensating Swing Clamp 100 mm long with Toggle Clamp

D16-07001-001

LENGTH	WIDTH	HEIGHT	WEIGHT
100 – 125 mm	approx 50 mm	350 mm	approx 0.7 kg



Compensating Swing Clamp with Short Screw

The "smallest"

- Operated via SW 8 hex wrench or open-ended wrench
- Especially recommended for use where space is tight

Compensating Swing Clamp 100 mm long with short screw

D16-07001-002

LENGTH	WIDTH	HEIGHT	WEIGHT
100 – 125 mm	approx 50 mm	350 mm	approx 0.6 kg



Technical Description

Description

Part Number

Swing Clamp 180°

- Reach is adjustable, but no differential compensation.
- Can be used as horizontal swing clamp without vertical tube.
- For fast, full force and accurate clamping of various workpieces.
- Fits every system bore (self locking).
- Type of operation of each swing clamp can be changed.
- With interchangeable clamping pads.
- Height adjusted with stop ring.
- Maximum clamping height 100 mm
- Reach of 30 – 125 mm adjustable.
- Each tube can be used individually, too.



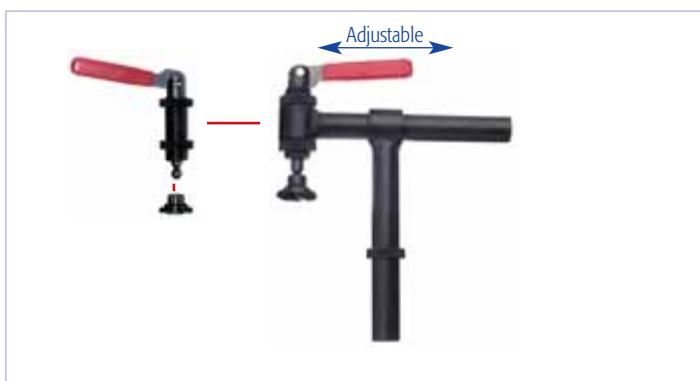
Swing Clamp 180° with Clamping Screw

The most "universal" – optimal for small lot sizes

Vertical Tube 130 mm long

D16-07005-000

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 250 mm	-	approx 0.5 kg



Swing Clamp 180° with Toggle Clamp

The most "economical",

- Quick and full force clamping by moving the lever approximately 150°.
- No interference because the lever pivots 360°

Vertical Tube 130 mm long

D16-07005-001

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 250 mm	-	approx 0.6 kg



Swing Clamp 180° with Short Screw

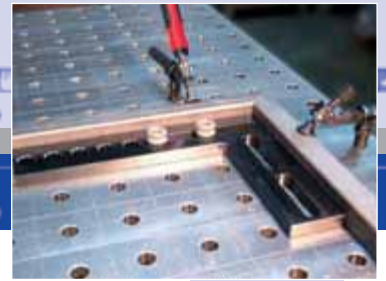
The "smallest"

- Operated with SW 8 hex wrench or open-ended wrench.
- Especially recommended for use where space is tight.

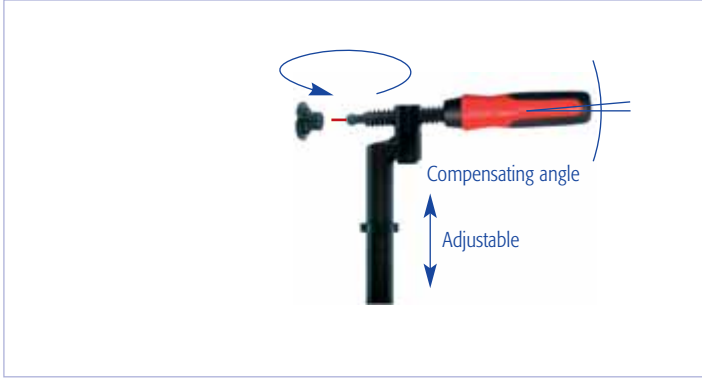
Vertical Tube 130 mm long

D16-07005-002

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 180 mm	-	approx 0.5 kg



Technical Description	Description	Part Number
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Swing Clamp 90°

- Orientation 90° to system bore
- Clamping stroke approximately 40 mm
- Using **180° quick acting swivel** with **detent**, clamping range is approximately 800 mm
- Height to approximately 125 mm
- Height adjustment with stop ring

LENGTH	WIDTH	HEIGHT	WEIGHT
170 mm	150 mm	-	approx 0.3 kg

D16-07008-000



Swing Clamp 45° with Clamping Screw

- The most "universal"
- Optimal for small lot sizes
 - For clamping prismatic parts

Vertical Tube 130 mm long

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 170 mm	-	approx 0.6 kg

D16-07009-000



Swing Clamp 45° with Toggle Clamp

- The most "economical",
- Quick and full force clamping by moving the lever approximately 150°
 - No interference because the lever pivots 360°

Vertical Tube 130 mm long

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 230 mm	-	approx 0.7 kg

D16-07009-001



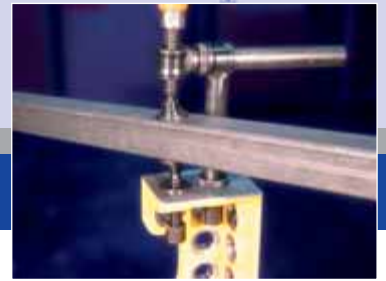
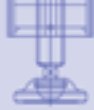
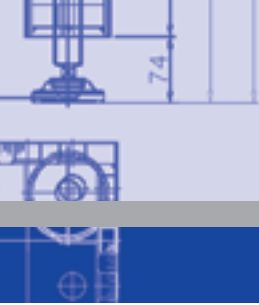
Swing Clamp 45° with Short Screw

- The "smallest"
- Operated via SW 8 hex wrench or open-ended wrench
 - Especially recommended for use where space is tight

Vertical Tube 130 mm long

LENGTH	WIDTH	HEIGHT	WEIGHT
130 mm	approx 180 mm	-	approx 0.6 kg

D16-07009-002



Technical Description	Description	Part Number
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- The optimal and most economical method for each workpiece clamping can be installed in the swing clamps or directly in each system bore



Screw with Bushing and Clamping Pad

- Optimal for small lot sizes
- Fits directly into system bores
- Ideal also for pre-loading workpieces

LENGTH	WIDTH	HEIGHT	WEIGHT
approx 149 mm	-	-	approx 0.2 kg

D16-07020-000



Toggle Clamp with Clamping Pad

- Quick and full force clamping by moving the lever approximately 150°
- No interference because the lever pivots 360°
- Fits directly into system bores
- Ideal also for pre-loading workpieces

LENGTH	WIDTH	HEIGHT	WEIGHT
approx 150 mm	-	-	approx 0.2 kg

D16-07021-000



Short Screw with Bushing and Clamping Pad

- Operated via SW 8 hex wrench or open-ended wrench
- Especially recommended for use where space is tight
- Fits directly into system bores
- Ideal also for pre-loading workpieces

LENGTH	WIDTH	HEIGHT	WEIGHT
approx 120 mm	-	-	approx 0.2 kg

D16-07022-000



Stop Ring

- Fits all clamping tubes
- For setting the height of swing clamps
- Included on each swing clamp

LENGTH	WIDTH	HEIGHT	∅
-	-	6 mm	16 mm

D16-07003-000



Clamping Tube

- Fits all system bores
- Precision tube

125 mm long
250 mm long
600 mm long

LENGTH	WIDTH	HEIGHT	∅
see above	-	-	16 mm

D16-07004-000
D16-07004-001
D16-07004-002

Clamping Tube: Cut-to-length

- Fits all system bores
- Precision tube

LENGTH	WIDTH	HEIGHT	∅
1000 mm	-	45 mm	16 mm

D16-07004-003



Technical Description

Description

Part Number



Clamping Pads with Cross-Shaped Grooves

- Quickly and easily **changed without tools or threads**
 - O-Ring prevents entry of **dirt** in the ball joint
 - Available in **various materials**
 - **Pivoting compensation** allows full surface contact with the part
 - **Cruciform grooves** for clamping of round / rectangular tubes
- Steel, Black Oxide Finish
Stainless Steel
Polyamide

D16-07011-000
D16-07011-001
D16-07011-002

LENGTH	WIDTH	HEIGHT	Ø
-	-	14 mm	22 mm



Clamping Pad with Ball Form

- Quickly and easily **changed without tools or threads**
 - O-Ring prevents entry of **dirt** in the ball joint
 - Available in **various materials**
 - The ball is particularly useful in clamping corner profiles
 - The clamping pad adjusts for angular error
 - **Pivoting compensation** allows full surface contact with the part
- Steel, Black Oxide Finish / Ball Form
Stainless Steel / Ball Form
Polyamide / Ball Form

D16-07011-005
D16-07011-006
D16-07011-007

LENGTH	WIDTH	HEIGHT	Ø
-	-	12 mm	20 mm



Clamping Pad Blank

- For customer specific machining

D16-07014-000

LENGTH	WIDTH	HEIGHT	Ø
-	-	25 mm	22 mm



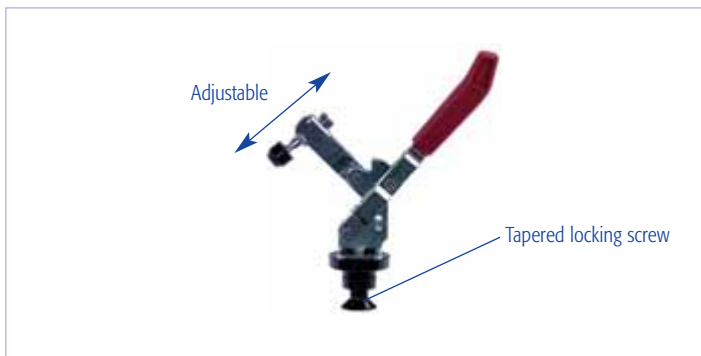
Technical Description

Description

Part Number

Toggle Clamps

- For **Fast** clamping and fastening with **lighter clamping force**
- For **Production runs** (short clamping times)
- Fits **in all system bores**
- On request **pneumatic / hydraulic clamping components** available
- Black Oxide Finish



Vertical Toggle Clamp

- Clamping range 0 – 25 mm
- With Adapter and tapered locking screw
- For direct mounting or infinitely adjustable using a universal stop

LENGTH	WIDTH	HEIGHT	WEIGHT
100 mm	100 mm	50 mm	approx 0.6 kg

D16-08001-000



Horizontal Toggle Clamp

- 30 mm stroke
- With Adapter and tapered locking screw.
- For direct mounting or infinitely adjustable using a universal stop

LENGTH	WIDTH	HEIGHT	WEIGHT
140 mm	60 mm	50 mm	approx 0.7 kg

D16-08002-000



Adapter for Toggle Clamps

- Suitable for all commercial toggle clamps
- Shipped with adapter, 4 hex head screws and 1 tapered locking screw

LENGTH	SCREW	Ø	HOLE SPACING
-	M 4	38 mm	24 × 16 mm

D16-08005-000



Technical Description	Description	Part Number
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Accessories



Transport Ring D16 and D28

D00-10001-000

- For **fast, simple** and **safe transport** of all heavy system components (e.g. table)
- Attaches using 2 PC bolts
- Powder coated
- **Dekra tested!**

LENGTH	WIDTH	HEIGHT	WEIGHT
200 mm	100 mm	150 mm	approx 4.6 kg

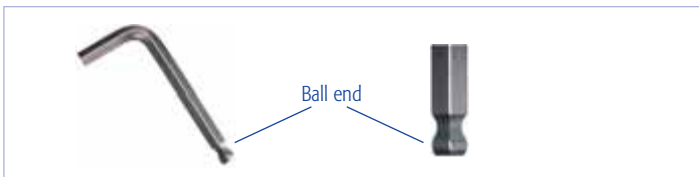


Torque Wrench

D16-10015-000

- Preset to 20 Nm for controlled tightening of PC bolts. Eliminates over-tightening and damage to system bores
- Includes 2 sockets

LENGTH	WIDTH	HEIGHT	WEIGHT
210 mm	3/8 Inch	3/8 Inch	0.65 kg



Ball End Hex Wrench

D16-10008-000

- For PC bolts and compensating clamping arm with hex head screw
- Good accessibility with the ball end

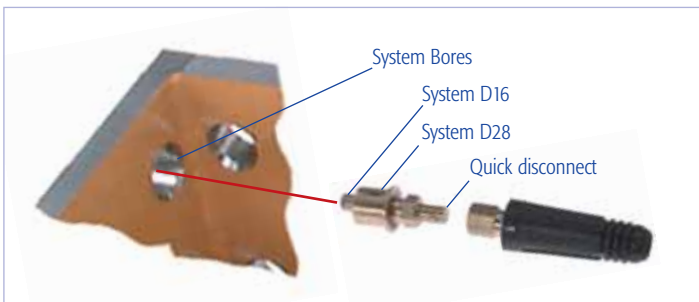
LENGTH	WIDTH	HEIGHT	Ø
120 mm	-	-	SW 8



Round Brush 16 mm

D16-10002-000

- For cleaning the system bores.
- With safety shield



Ground Connector D16 and D28

D00-10009-000

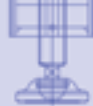
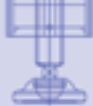
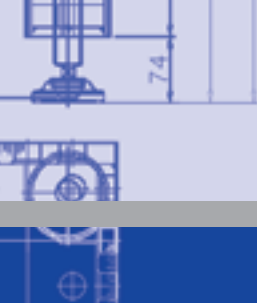
- Fits in any **system bore**
- 100 % contact, no overheating of the ground cable
→ higher efficiency
- For cable cross section of 50 – 70 mm²
- For loads up to **500 A**
- Simple and safe assembly (without interference)
- **Compatible** with standard ground cables



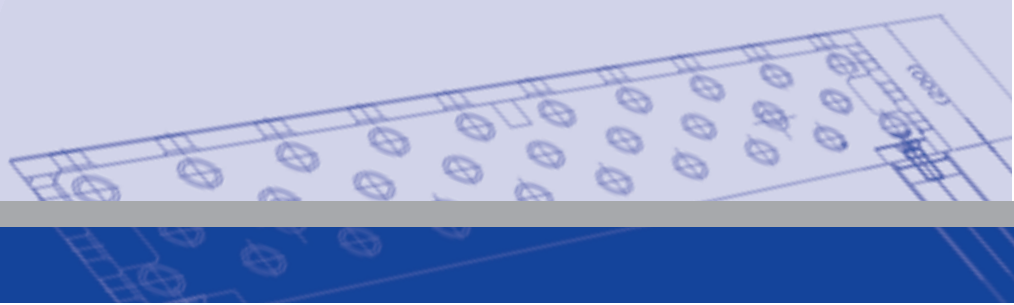
Extraction Tool

D00-10016-000

- Suitable for System D16 and D28 PC Bolts
- For the simple extraction of PC Bolts



Technical Description	Description	Part Number
	<p>Complete Table Leg</p> <ul style="list-style-type: none"> - As supporting leg for a U-Form Spacer Block D16-04002-XXX 1 m and longer - Custom length on request! - Fine adjustment 30 mm 	<p>D00-10010-022</p>
	<p>Complete Telescoping Leg</p> <p>Range of adjustment 350 mm</p> <ul style="list-style-type: none"> - For flexible height adjustment of the work tables - Custom lengths on request! - Increments 50 mm apart - Fine adjustment 30 mm 	<p>D00-10010-001</p>
	<p>Complete Table Leg with Wheel</p> <p>With caster and brake With caster</p> <ul style="list-style-type: none"> - Custom lengths on request! - Fine Adjustment 30 mm 	<p>D00-10010-005 D00-10010-010</p>
	<p>Complete Table Leg with Anchoring Pad</p> <ul style="list-style-type: none"> - For anchoring the work table to the floor to prevent movement during use (e.g. when using robots) - Includes anchoring screw and insert - Custom lengths on request! - Fine adjustment 30 mm 	<p>D00-10010-016</p>



Technical Description	Description	Part Number
	<p>Bench Stone</p> <ul style="list-style-type: none"> - For maintaining system surfaces 	<p>D00-10007-000</p>
	<p>Pump Bottle</p> <ul style="list-style-type: none"> - Pressurized container, sturdy design - Capacity: 1 Liter (without anti-spatter spray) 	<p>D00-10004-000</p>
	<p>Pump Bottle with 1 Liter Anti-Spatter Spray</p> <ul style="list-style-type: none"> - Pressurized container, sturdy design - Capacity: 1 Liter Anti-Spatter Spray - Note: Cannot be diluted with water! <p>Öko Anti-Spatter Spray</p> <ul style="list-style-type: none"> - Builds a protective film against spatter and dirt - Capacity: 5 Liter Öko Anti-Spatter Spray - Note: Cannot be diluted with water! 	<p>D00-10005-000</p> <p>D00-10006-000</p>
	<p>Accessory Cart</p> <ul style="list-style-type: none"> - Keeps everything easy to find and organized - Low center of gravity - Accommodates system components 	<p>D16-11001-000</p>



Refer to our brochures:



3D Work- and Welding Table System D16 / D28 Standard Part List

Demmeler Maschinenbau GmbH & Co. KG



Basic components for machine tools. Composite material DemTec®

Demmeler Maschinenbau GmbH & Co. KG



Rotary tables

Demmeler Automatisierung & Roboter GmbH



Tool change systems Toolarena Tooltower

Demmeler Automatisierung & Roboter GmbH



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