



OUR PERFORMANCE
makes THE DIFFERENCE



**Original Demmeler
reversible clamping device**
ROTATORIX® R 2000 / 950

Demmeler reversible clamping device



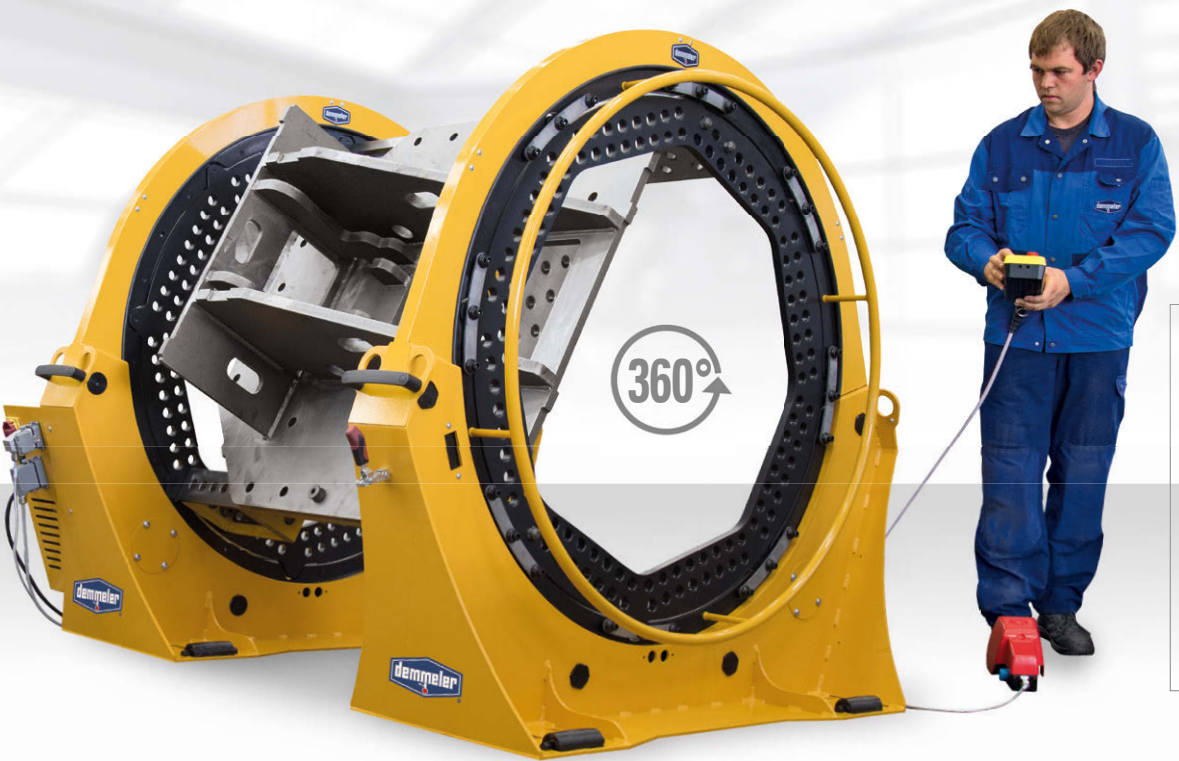
Demmeler Rotatorix® R 2000 / 950

NEW

NEW

360° work piece machining

Configure your Rotatorix® R yourself – equipment options



- TECHNICAL SPECIFICATIONS**
- Bearing load 2,000 kg per reversible clamping device unit, 4,000 kg when using 2 units
 - Swing diameter 1,250 mm
 - Centre of rotation at a height of 785 mm
 - with 950 mm hole
 - Device dimensions approx. 1,500 x 1,300 mm
 - Flexibly adjustable length
 - Torque 1770 Nm

Continuous rotation of growing or asymmetrical work pieces of up to 4,000 kg around their own axes

With the Rotatorix® R 2000 / 950, when using two reversible clamping devices, work pieces of up to 4,000 kg can be continuously rotated round their own axis to enable a worker to easily access them from all sides. Each work piece can be manually or electrically rotated – mainly for growing or asymmetrical work pieces – which means less strain on the worker's back. Not only does this prevent overloading

and symptoms of fatigue, but it also enables access to the work area, eliminating the need for dangerous and time-consuming turning of the work piece by crane. In addition, the best possible quality can also be obtained as, thanks to optimised welding sequences, less welding distortion is produced on the work pieces. The Rotatorix® also increases deposition efficiency. The system is based on the D28 clamping system.

Flexible right down to the last detail – configuration examples



Rotatorix® with manual drive in a fixed position



Rotatorix® with frequency-controlled drive on a Demmeler foundation track system for work pieces of varying lengths



Rotatorix® with motorised drive in variable positions



Rotatorix® R 2000 / 950 basic device
comprising 1 Rotatorix® R 2000 / 950 reversible clamping device assembly: turning unit for 360° continuous rotation of growing, symmetrical and asymmetrical work pieces
Item no. R02-01000-001

The reversible clamping device is available in several versions to ensure the best conditions for each application. So, for example, both assemblies can be equipped with rollers for perfect flexibility, or one assembly can be fitted with rollers while the other is fixed to the floor with plugs. The Demmeler rail system is also available in a version with guide rollers. Individual work pieces are clamped either by means of a standard brace with an attachment chain or using individual braces which are specially designed for the respective requirements. Where drive options are concerned, the possibilities range from manual drives and highly accurate frequency-controlled drives to the connection of an additional robot axis.

No.	Drive options	Item no.
A1	Frequency-controlled drive for electrically-driven rotation of work pieces with infinitely variable rotation speeds controlled by potentiometer, for example, for circular welding. includes a control panel and confirm key.	RA2-01000-001
A2	Manual drive , comprises a rotation unit for manual operation and clamp	RA2-01000-002
A3	Motorised drive for electrically-driven rotation of work pieces with set rotation speeds including control panel and confirm key	RA2-01000-003
A4	Drive with arrangement for integrating the Rotatorix® as an external robot axis , mainly for circular welding (e.g. for ABB-, Cloos-, Kuka-, Fanuc-, etc.-type robots)	RA2-01000-004
A5	Foot pedal for rotating the work pieces with pre-set speed – in combination with the motorised drive	RA2-01000-005
A6	Confirm key for rotating the work pieces with pre-set speed for use in the customer's own protective enclosure – in combination with the motorised drive	RA2-01000-006



A1



A2



A3



A5



A6

No.	Positioning options	Item no.
P1	For perfectly flexible positioning (manual adjustment) of an assembly on a level factory floor, comprising 4 rollers	RP2-01000-001
P2	For using an assembly on a Demmeler foundation track system, comprising 4 rollers and 4 x D28 PPS bolts	RP2-01000-002
P3	For attaching an assembly in position, comprising 4 floor anchors	RP2-01000-003
P4	For partially attaching an assembly in position, comprising 4 adjustable feet	RP2-01000-004
No.	Accessory	Item no.
M1	Ground connection, D28 system for welding device (load up to 500 A)	RM2-01000-001



P1



P2



P3



P4



M1

No.	Device option	Item no.
V1	1 x brace including 2 x D28 PPS bolts for attaching the brace	RV2-01000-001
V2	1 x chain tensioner including chain and plastic protection caps	RV2-01000-002



V1



V2

THE POSITIONER IS AVAILABLE IN THREE EXPANSION STAGES

- with height axis only
- with height axis and rotary axis 1
- with height axis, rotary axis 1 and extension arm with rotary axis 2

THE ADVANTAGES FOR YOU:

- enables work pieces to be positioned with extreme precision
- high repeat accuracy
- suitable for integration into a robot cell

STANDARD PRODUCT SERIES:

- Bearing load of 2,000 to 25,000 kg
- LP-2000, LP-4000, LP-8000, LP-16000, LP-25000
- Other bearing loads also available on request

Positioning of work pieces with extreme precision and high repeat accuracy

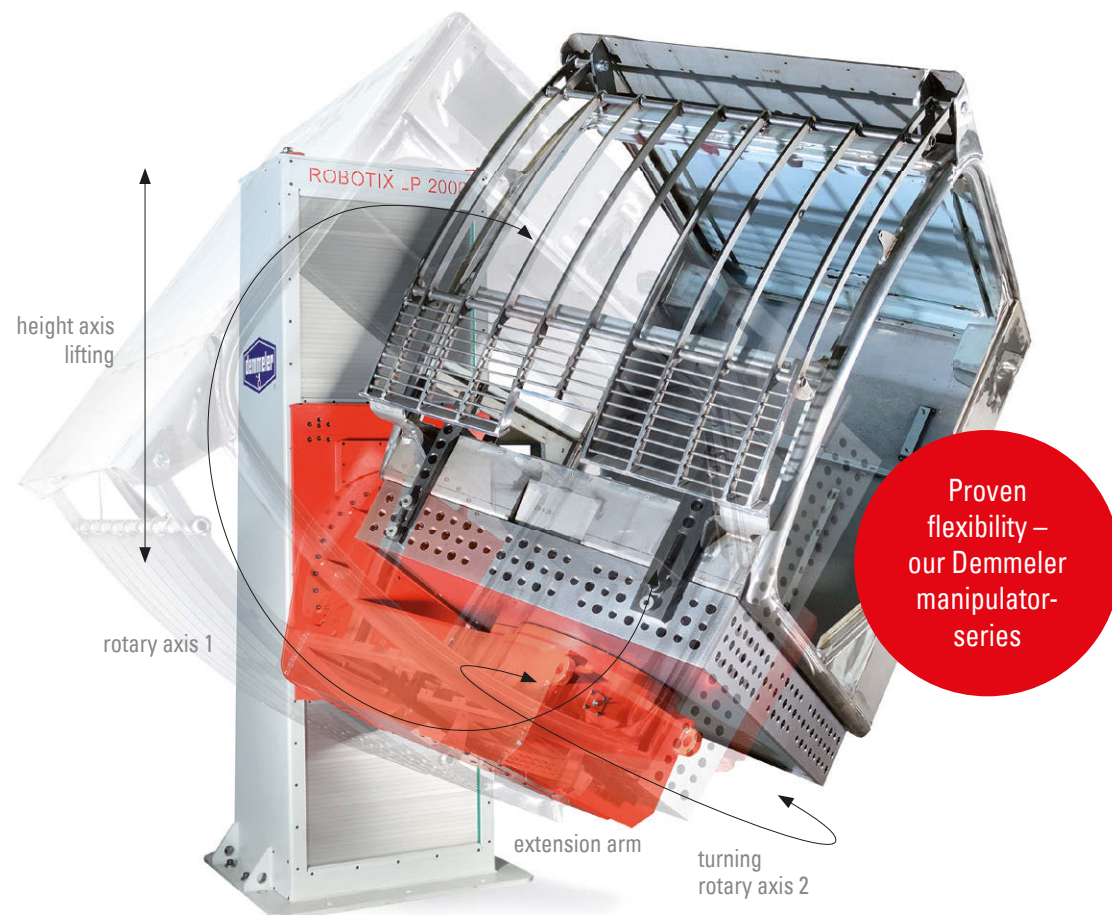
We highly recommend Demmeler's Robotix product range when it comes to positioning work pieces extremely precisely in all degrees of freedom and with high repeat accuracy.

In the 3rd expansion stage, you can position your work piece at any angle and at any height. The positioner can be used on manual workstations with simple hand

controls. As an option, the Robotix LP can also be integrated into a robot cell. Details available on request.

In this case, all axes are integrated and freely programmable via the robot controls. This manipulator model is another example of one of our optimum solutions, tailored to your requirements. We can supply you with all peripherals, including linear axes, on request.

Find out more about Demmeler Robotix LP manipulators at www.demmeler.com, or order our main catalogue.



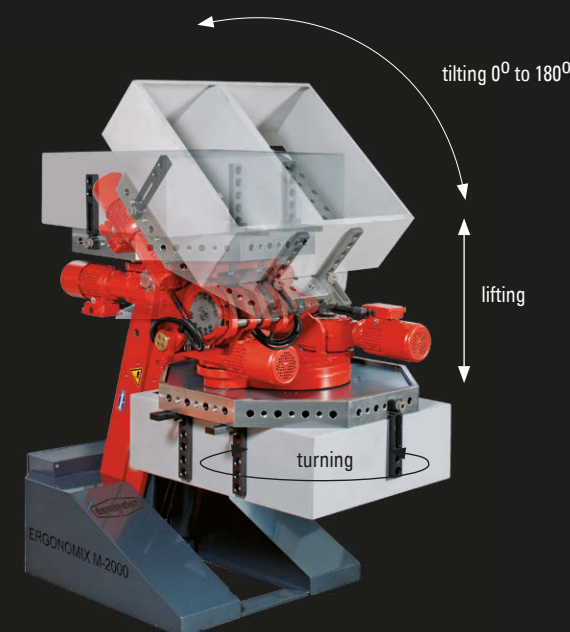
Demmeler Ergonomix M turns your work piece upside down!

Through the intricate arrangement of the entire mechanism, the developers at Demmeler have been able to create a work space boasting an unrivalled size while at the same time maintaining a small footprint for the Demmeler Ergonomix M. The manipulator consistently sets the highest payloads in the ideal position.

A particular feature of the Demmeler Ergonomix M product series is the large swivel range of up to 180°. This has the decisive advantage of enabling many work pieces to be fully processed in one clamping cycle without having to turn them over. And all the while, the excellent price-performance ratio of Demmeler products takes centre stage.



Find out more about Demmeler Ergonomix manipulators at www.demmeler.com, or order our main catalogue.



Let our "big boys" lighten your work load!

Relieve your workers of heavy handling tasks and allow workers to find a comfortable working posture. Welding processes can be performed with less fatigue and a consistently high level of precision. Staff shortages caused by overloading and illnesses are also prevented.



Demmeler Ergonomix M:
Awarded the German Federal Award
2011 for innovative trade services

Come and visit us!



Original 3D welding table systems D28|D22|D16

Find out about our complete range of D16, D22 and D28 systems at www.demmeler.com, or order our main catalogue.



Our 3D clamping table catalogue is available in the following languages:

	Chinese		Polish
	German		Russian
	English		Swedish
	French		Slovenian
	Italian		Spanish
	Japanese		Czech
	Dutch		Hungarian



Access the D28/D16 systems online catalogue at the click of a mouse



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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

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CNC rotary tables



Tool change systems
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Manipulators