



Rebar Processing Equipment





An  Company

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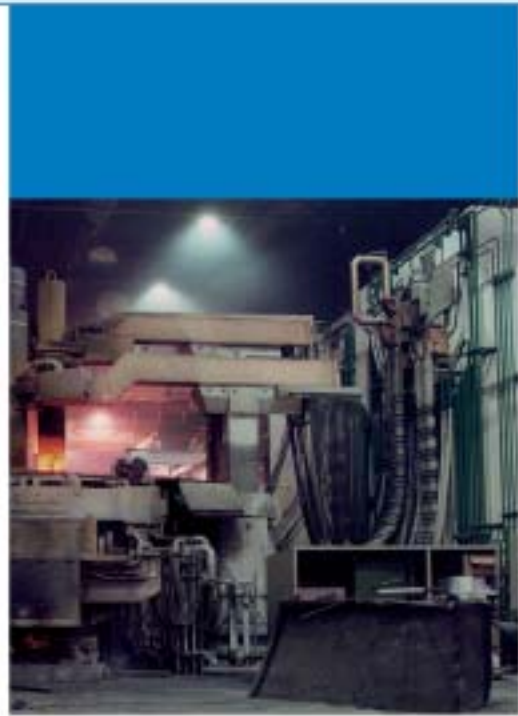
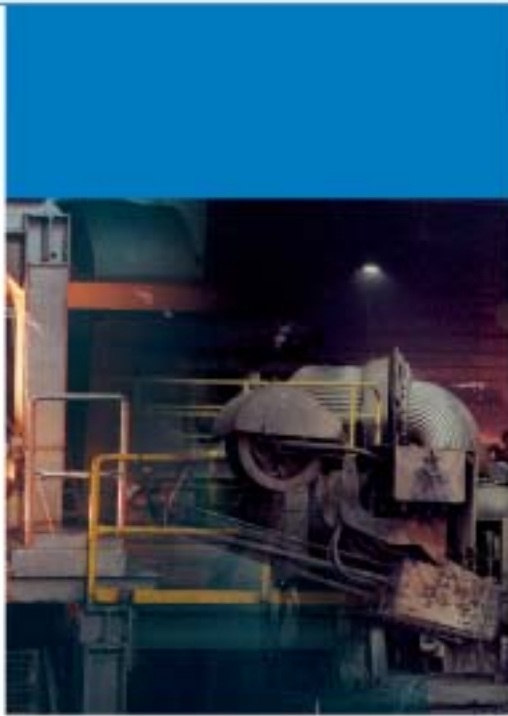
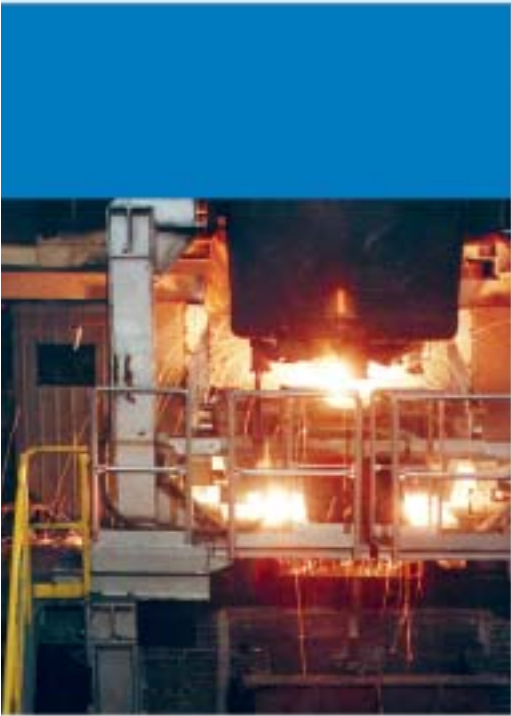
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An **EVG** Company





GROUP OF COMPANIES

EVG

Since 1949, EVG has been developing and building machinery for processing reinforcing steel and for the production of welded wire mesh. The name EVG is synonymous with quality and efficiency.

From the very beginning, our developments were set to define the industrial-scale manufacture of reinforcing elements. Many of the techniques which are taken for granted nowadays originate from EVG's innovations.

The fundamentals of our success are close cooperation with our customers based on a partnership, a highly-qualified staff and continuous innovation.

The unique association of our companies ensures comprehensive knowledge and authority to the benefit of our customers.

FIL

FILZMOSER specializes in "state-of-the-art" equipment for processing reinforcing steel from coils and bars, and has been part of our group of companies since 1998.

All over the world, FILZMOSER machines yield maximum production outputs both in precasting plants and in bending shops.

Not only does FILZMOSER stand for highest efficiency and quality, its name is also synonymous with maximum flexibility. The entire equipment is designed to ensure versatility and the possibility of carrying out quick production program change-overs.

AVI

In its Graz/Raaba works, AVI produces concrete reinforcing mesh, truss girders, spacers and miscellaneous other products for concrete reinforcement. To the benefit of our customers, AVI and EVG cooperate closely to develop novel wire products, to test newly developed production equipment, and to train EVG customers from all over the world.

MARIENHÜTTE

The steel and rolling mill MARIENHÜTTE produces high-grade reinforcing steel by using the TEMPCORE process.

The high production efficiency of MARIENHÜTTE is achieved with state-of-the-art equipment.



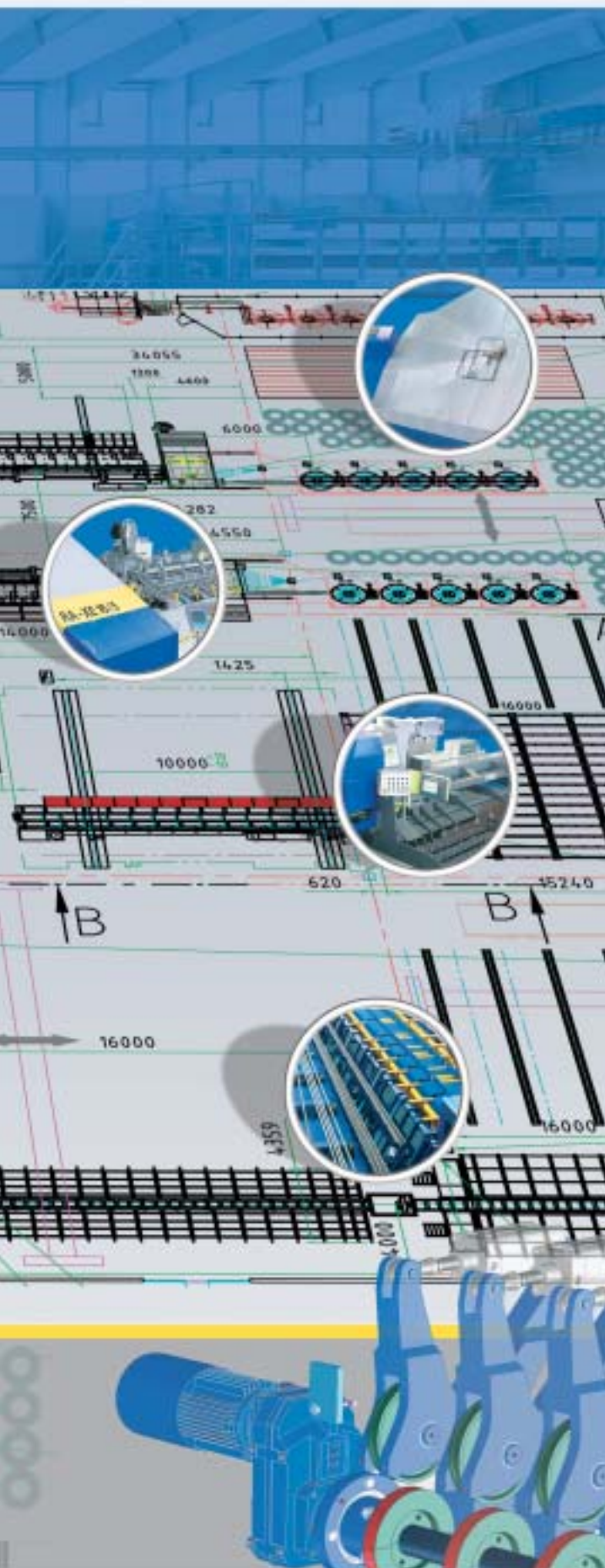


ENGINEERING

By offering a full range of machinery which meets all requirements in terms of up-to-date rebar processing, we are providing assistance for our customers in setting up new production plants and in reorganizing existing ones, not only as a supplier but also as a consultant.

Based on the specifications for the production planned, we are designing optimized rebar service centers. Not only do our engineering services cover computations of production capacities and planning of logistics and material flow, but they also consist in designing storage areas and peripheral equipment.

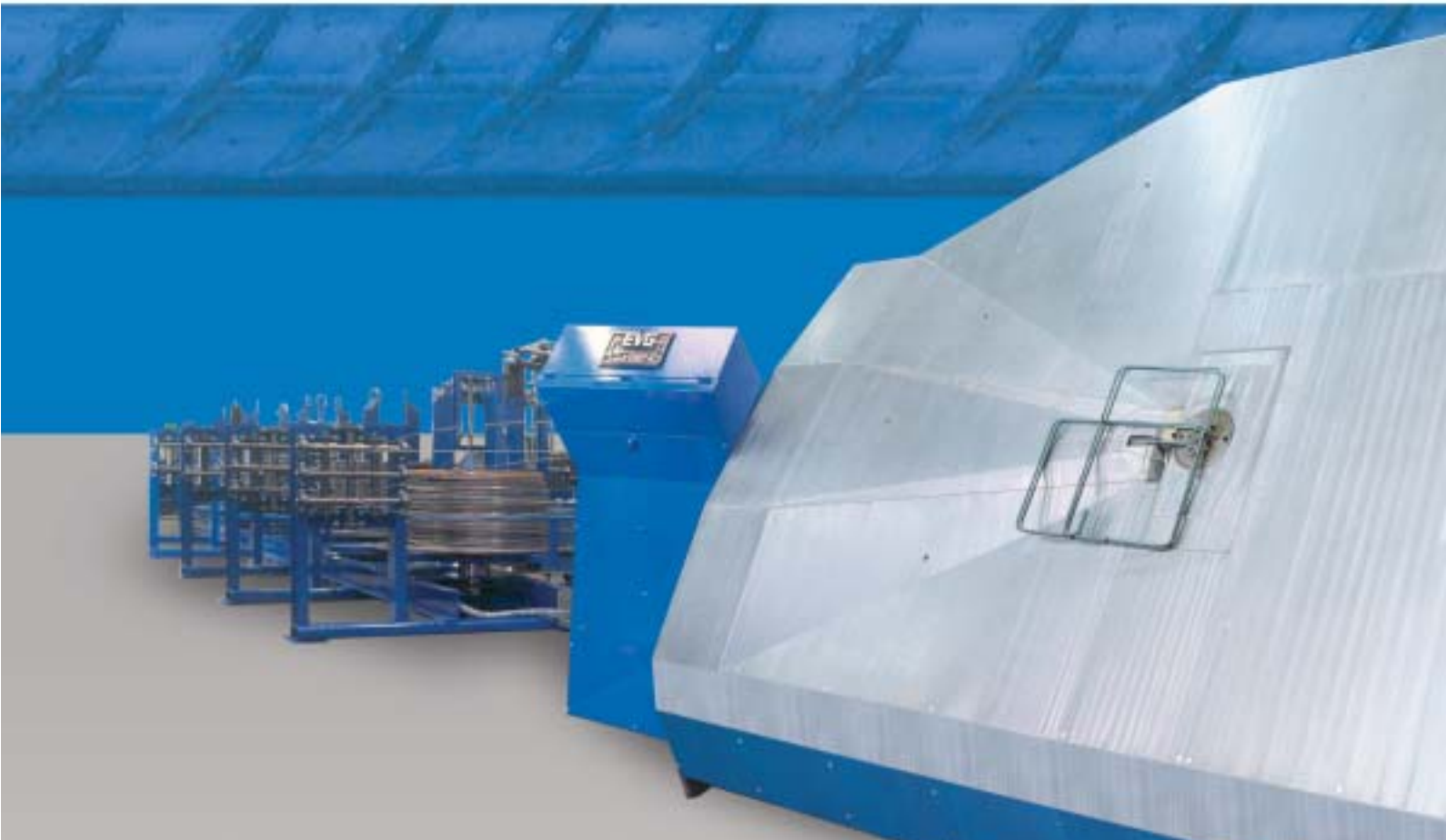
Automation of the production procedures as well as creating flexibility in production with a view to responding to the continuously changing requirements of the market are our main goals. Only in this way can the high efficiency of our equipment be translated into maximum output.





Equipment for Processing Rebar from Coils POLYBEND PBC L

Automatic stirrup benders for processing cold and hot rolled rebar from coils. Manual setting of straighteners.



Technical data		PBC 2-8 L	PBC 2-10 L	PBC 2-12 L	PBC 2-14 L
Wire diameter ranges for single wire	mm	4,0–8,0	5,0–10,0	6,0–12,0	6,0–14,0
Wire diameter ranges for double wire	mm	4,0–6,0	6,0–8,0	6,0–8,0	6,0–10,0
Max. advance speed in continuous operation	m/min.	115	115	115	125
Max. bending speed	°/sec.	2000	2000	2000	1700
Bending angles	°	± 200	± 200	± 200	± 200
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor	Electric servomotor



Equipment for Processing Rebar from Coils POLYBEND PBC

Automatic stirrup benders for processing cold and hot rolled rebar from coils. Automatic setting of straighteners.



Technical data			PBC 2-12	PBC 2-14	PBC 2-16	PBC 2-20	
Wire diameter ranges for single wire	mm	6,0–12,0	5,0–10,0	6,0–16,0	12,0–20,0		
Wire diameter ranges for double wire	mm	6,0–8,0	6,0–8,0	6,0–12,0	12,0–16,0		
Max. advance speed in continuous operation	m/min.	115	125	125	95		
Max. bending speed	°/sec.	2000	1700	1500	1050		
Bending angles	°	± 200	± 200	± 200	± 200		
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor	Electric servomotor		





Equipment for Processing Rebar from Coils

POLYBEND PBC A WITH WIRE SIZE CHANGER DWC

Automatic stirrup benders for processing cold and hot rolled rebar from coils. Automatic setting of wire guides and straighteners. Fully automatic wire size change in single and double wire mode.



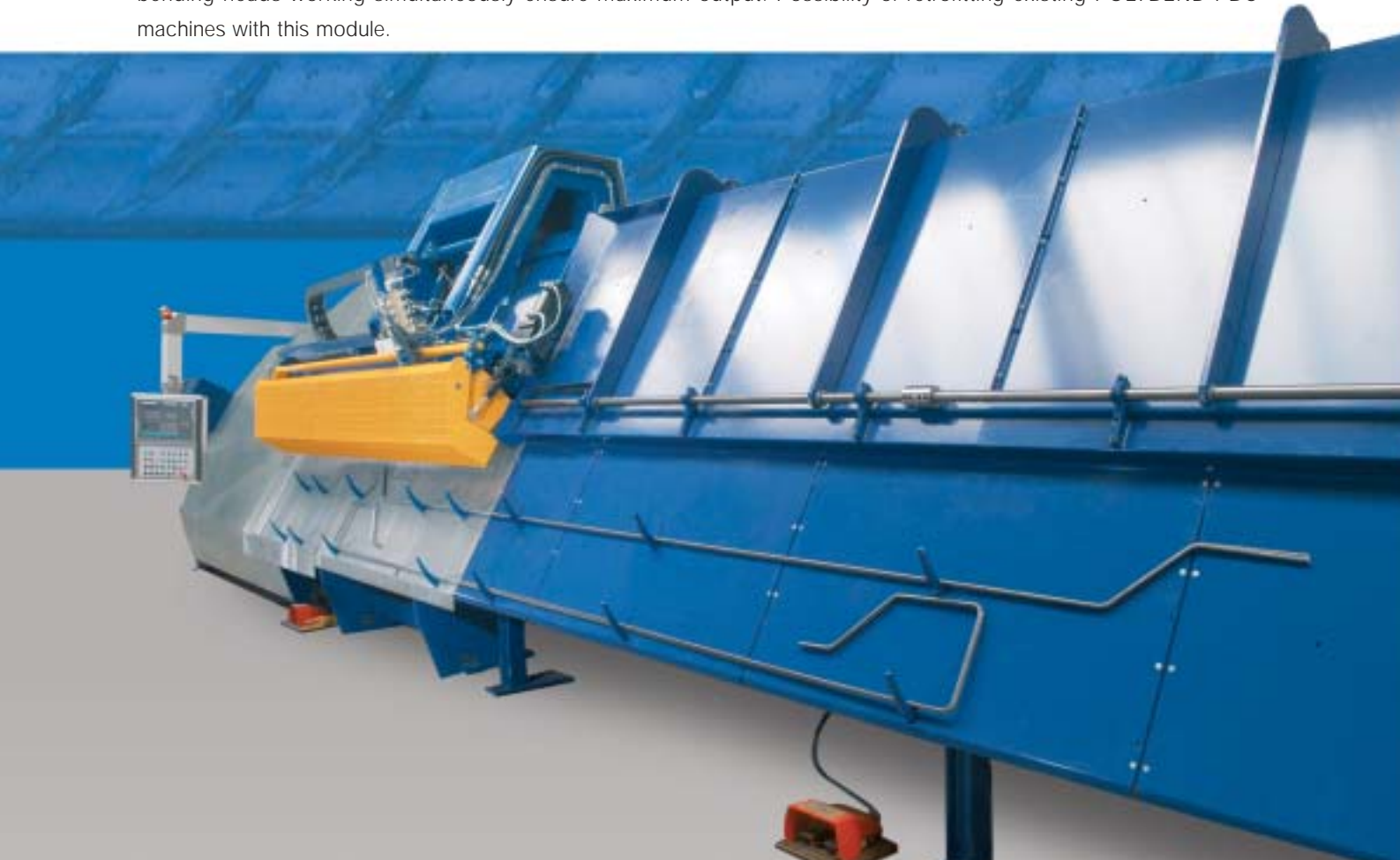
Technical data		PBC 2-14	PBC 2-16	PBC 2-20A		
Wire diameter ranges for single wire	mm	6,0–14,0	6,0–16,0	12,0–20,0		
Wire diameter ranges for double wire	mm	6,0–10,0	6,0–12,0	12,0–16,0		
Max. advance speed in continuous operation	m/min.	125	125	95		
Max. bending speed	°/sec.	1700	1500	1050		
Bending angles	°	± 200	± 200	± 200		
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor		



Equipment for Processing Rebar from Coils

ADD A BEND

Additional module for the POLYBEND PBC series for the production of long stirrups with hooks bent at both ends. Two bending heads working simultaneously ensure maximum output. Possibility of retrofitting existing POLYBEND PBC machines with this module.



Technical data			ADD A BEND AMC 16	ADD A BEND AMC 20	
Wire diameter ranges for single wire	mm		6,0–16,0	12,0–20,0	
Wire diameter ranges for double wire	mm		6,0–12,0	12,0–16,0	
Max. advance speed in continuous operation	m/min.		150	150	
Max. bending speed	°/sec.		1450	730	
Bending angles	°		± 190	± 190	
Drive technology			Electric servomotor	Electric servomotor	





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Equipment for Processing Rebar from Coils

RA-XE

Multistrand straightening and cutting machine with roller-type rotor straightening technology. Minimum changeover time required for changing the wire size.



Technical data		RA-XE 14/5	RA-XE 16/4 L	RA-XE 16/5 L	RA-XE 16/6
Wire diameter ranges	mm	6–14	6–16	6–16	6–16
Number of wire strands		5	4	5	6
Changeover time for changing the wire size	s	3–5	3–5	3–5	3–5
Max. advance speed	m/min	140	140	140	140
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor	Electric servomotor





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Equipment for Processing Rebar from Coils RA-XE MIT DBE

Multistrand straightening and cutting machine with roller-type rotor straightening technology and integrated double bending equipment. Minimum changeover time required for changing the wire size.



Technical data		RA-XE 14/5 with DBE	RA-XE 16/4 with DBE	RA-XE 16/5 with DBE	RA-XE 16/6 with DBE	
Wire diameter ranges	mm	6-14	6-16	6-16	6-16	
Number of wire strands		5	4	6	6	
Changeover time for changing the wire size	s	3-5	3-5	3-5	3-5	
Max. advance speed	m/min.	± 140	± 140	± 140	± 140	
Max. bending capacity	mm	2 x 12 2 x 14*	2 x 12 3 x 10* 2 x 16 *	2 x 12 3 x 10* 2 x 16*	2 x 12 3 x 10* 2 x 16*	*) Ausführung mit verstärkten Biegewerk (2 x 16)
Drive technology		E-servomotor	E-servomotor	E-servomotor	E-servomotor	





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Equipment for Processing Rebar from Coils

RA-XE-2

Multistrand straightening and cutting machine with roller-type rotor straightening technology. Equipped with two shears to ensure a maximum output and the highest possible flexibility.



Technical data		RA-XE 16-4/2	RA-XE 16-6/2	RA-XE 16-8/2
Wire diameter ranges	mm	6–16	6–16	6–16
Number of wire strands		8	6	8
Changeover time for changing the wire size	s	3–5	3–5	3–5
Max. advance speed	m/min	2 x 140	2 x 140	2 x 140
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor



Equipment for Processing Rebar from Coils POLYCUT PCN

High-efficiency automatic straightening and cutting machine, equipped with a roller-type straightener to ensure maximum production outputs.



Technical data			Polycut PCN 12	Polycut PCN 16	Polycut PCN 16 HD	POLYCUT PCN 3-16	
Wire diameter ranges	mm		6-12	6-12	6-16	6-16	
Max. advance speed in continuous operation	m/min		250	200	250	250	
Setting of straightener			manual	manual	manual	automatic	
Drive technology			Servo-hydraulic unit	Servo-hydraulic unit	Servo-hydraulic unit	Servo-hydraulic unit	





Equipment for Processing Rebar from Coils

DRE

Rotor-type straighteners of classic design featuring maximum straightness and high output capacities. Equipped with stationary or flying shears.



Technical data		DRE 8	DRE 10	DRE 12	DRE 14	DRE 16	
Wire diameter ranges	mm	4–8	5–10	6–12	6–14	8–16	
Max. advance speed in continuous operation	m/min	160	160	160	160	160	
Drive technology		Electric servomotor	Electric servomotor	Electric servomotor	Electric servomotor	Electric servomotor	





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Rebar Processing Equipment POLYBAR V

Pull line machine with electronic measuring system and electrically driven shears. Movable design to ensure a maximum throughput.



Technical data		POLYBAR 32 V	OLYBAR 40 V
Cutting capacity	mm	8 x 8	10 x 8
		6 x 10	8 x 10
		5 x 12	6 x 12
		4 x 16	5 x 14
		3 x 20	4 x 20
		2 x 25	3 x 25
		1 x 32	2 x 32
		-	1 x 40
Max. advance speed	m/s	2,5	2,5
Drive technology		Electric servomotor	Electric servomotor





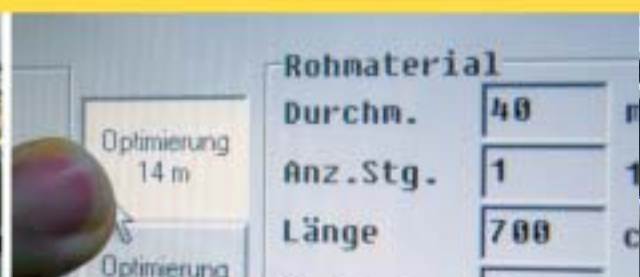
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Rebar Processing Equipment POLYBAR SD

Pull line with electronic measuring system and electrically driven shears. Stationary design, for combination with double bending robot DBS.



Technical data		POLYBAR 32 SD	POLYBAR 40 SD
Cutting capacity	mm	8 x 8	10 x 8
		6 x 10	8 x 10
		5 x 12	6 x 12
		4 x 16	5 x 14
		3 x 20	4 x 20
		2 x 25	3 x 25
		1 x 32	2 x 32
		-	1 x 40
Max. advance speed	m/s	2,5	2,5
Drive technology		Electric servomotor	Electric servomotor





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Rebar Processing Equipment MULTIBAR

Hydraulically operated rebar shearline for maximum cutting capacity.



Technical data		MULTIBAR 300	MULTIBAR 500
Cutting capacity	mm	0 x 00	0 x 00
		0 x 00	0 x 00
		0 x 00	0 x 00
		0 x 00	0 x 00
		4 x 20	4 x 20
		0 x 00	0 x 00
		1 x 32	2 x 32
		-	1 x 40
Max. advance speed	m/s	2,5	2,5
Drive technology		Hydraulic system	Hydraulic system



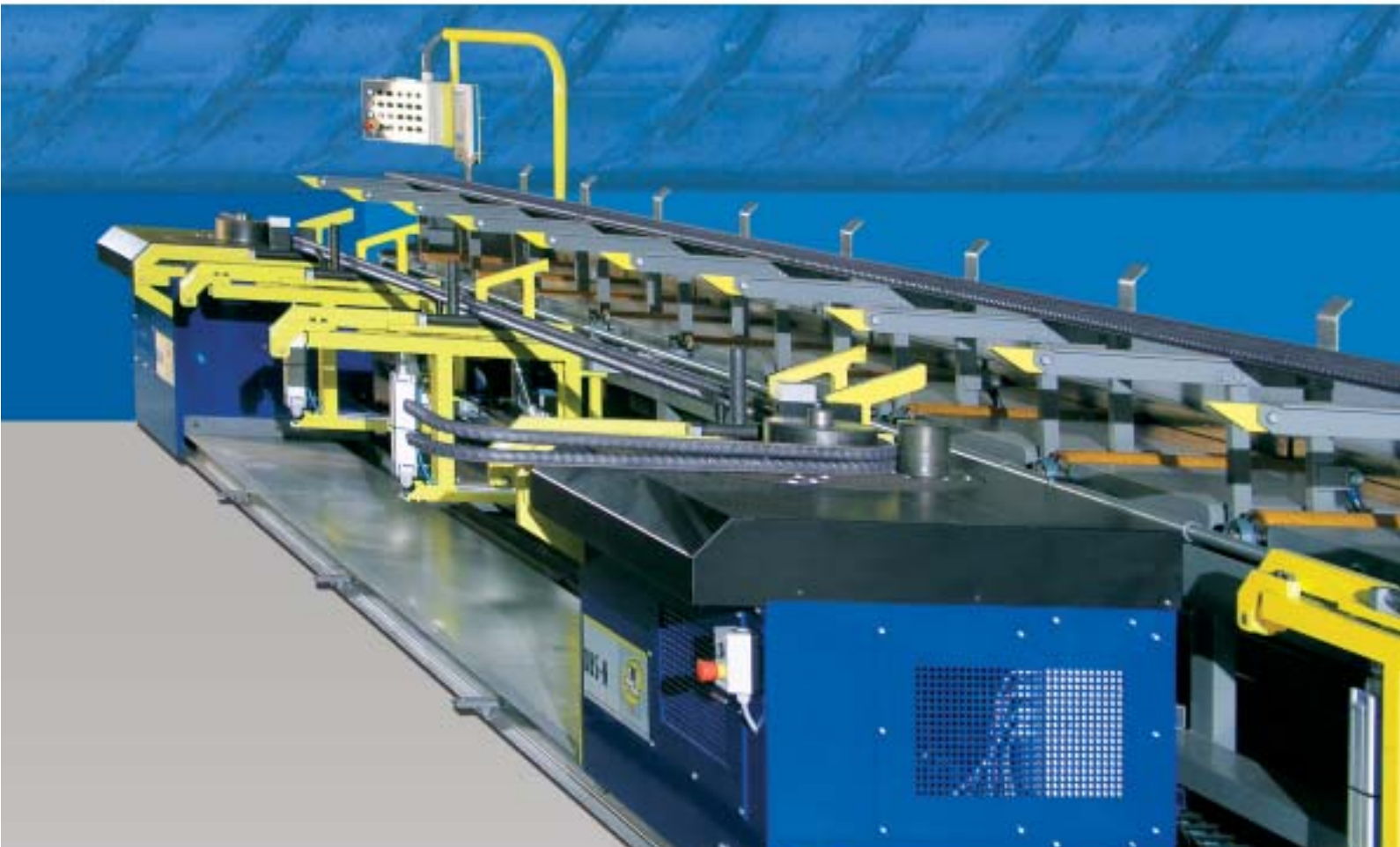


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Rebar Processing Equipment

DBS

Double-head bending robot for automatically bending rebar.



Technical data		DBS	DBS-N
Bending capacity	mm	10 x 8	10 x 8
		8 x 12	8 x 12
		6 x 16	6 x 16
		5 x 20	5 x 20
		3 x 25	3 x 25
		1 x 40	1 x 40
Min. distance between bending mandrels	mm	950	950
Bending direction		1	2
Drive technology	m/s	Electric servomotor	Electric servomotor





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Rebar Processing Equipment SBM / SBC

Electrically driven bending machines



Technical data		SBM	SBC
Bending capacity	mm	10 x 8	10 x 8
		8 x 12	8 x 12
		6 x 16	6 x 16
		5 x 20	5 x 20
		3 x 25	3 x 25
		1 x 40	1 x 40
Control	mm	manual	by computer
Drive technology		Electric drive	Electric drive





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HFBE

Fully automatic lines for the production of welded mesh sheets for reinforcing flat prefabricated concrete elements such as pre-cast floor slabs, solid or double wall panels, as well as for the production of special sheets and engineered fabric in small batches. This equipment allows the manufacture of mesh sheets of any geometry, windows and combinations of wire sizes.

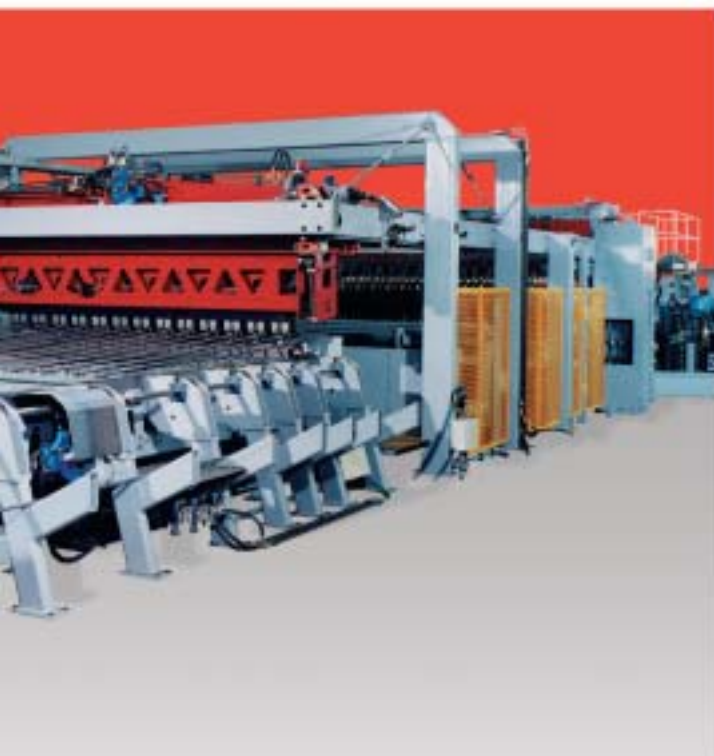
These lines work on a fully automatic basis directly from coils, and thanks to the integrated multistrand straightening machines RA-XE and the multi-purpose handling systems they allow the manufacture of different mesh sheet styles without loss of production caused by changeover times.



QC

High-performance welding machines for the production of heavy reinforcing mesh sheets from rebar. The extremely sturdy design allows processing rebar with diameters of up to 25 mm. Fully automatic changeover of the lines when changing the mesh sheet style. Steplessly programmable line and cross wire spacings (no grid).

By adding fully automatic sheet bending machines, this equipment can be converted into a production line for the manufacture of reinforcing cages. These lines stand out due to their unparalleled production outputs.





An **EVG** Company





FERTIGTEILWERKE

For more than 40 years, FILZMOSER has been specializing in the development and construction of machinery for automatically reinforcing precast concrete elements with reinforcing steel. These activities had a major impact on the reinforcing technologies applied in this sector.

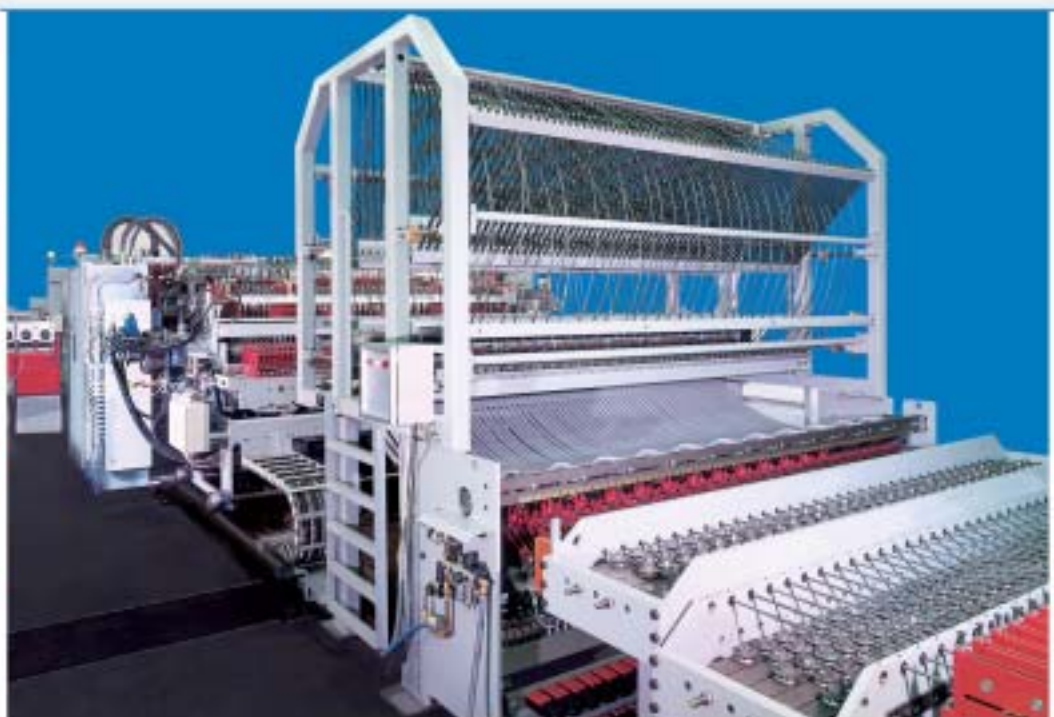
Reinforcing of concrete elements in precasting plants has been entirely automated by FILZMOSER. The relevant equipment is used, in particular, in combination with pallet circulation lines for the manufacture of precast floor slabs, double wall and solid wall panels. Also in combination with conventional production in beds/rails the equipment has been in operation successfully for decades.

Based on CAD data, the bars for reinforcing concrete elements are straightened on multistrand straightening lines, type RA-XE. Since the RA-XE lines allow an extremely fast changeover between the different wire diameters, the bars required for reinforcing an element can be produced exactly in the sequence of the reinforcing schedule, and in which they have to be placed into the shuttering. Depending on requirements, the RA-XE lines can be equipped with systems for sorting and magazing reinforcing bars, for bending end hooks, for adding spacers, etc.

In plants with the highest level of automation the bars, after straightening, are placed fully automatically on the circulating pallets by means of steel placing robots, or they are welded to a mesh sheet which is afterwards placed on the pallet. Windows, special geometries or additional bars at any position of the reinforcing element are automatically incorporated in the mesh sheets which are welded by CAD control.

Our range of equipment supplied also covers lines for sorting, cutting and laying of lattice girders, which are required for reinforcing wall panels and precast floor slab elements.





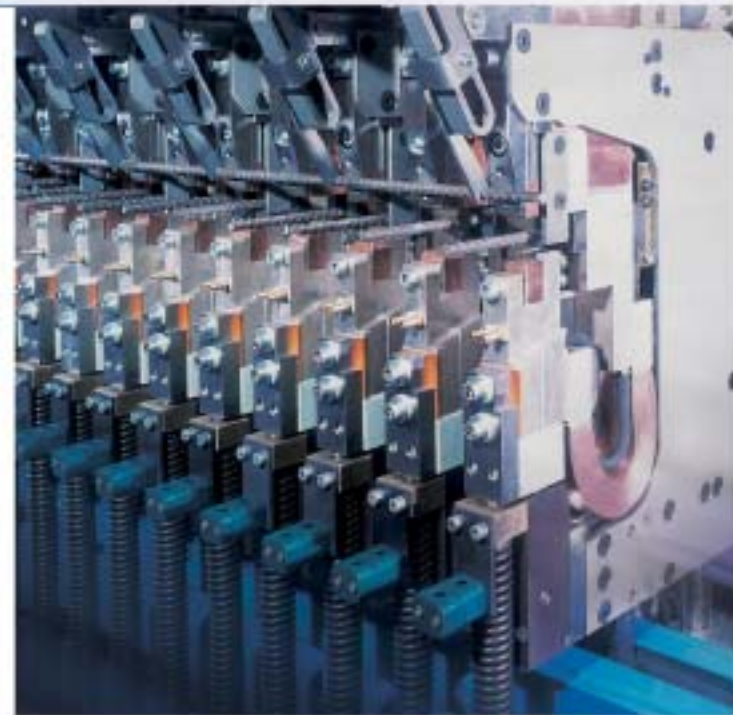
WELDING LINES

In addition to its range of machinery for processing reinforcing steel, for more than 50 years EVG has been supplying machinery and equipment for the production of welded wire mesh and truss girders as well as special welding machines.

Our range of machinery supplied covers the entire wire diameter range from 0.5 mm to 40.0 mm. The following products count among those manufactured on fully automatic EVG lines all over the world:

- Standard reinforcing. Sheets or rolls are manufactured in large batches; in general, both line and cross wires are processed directly from coils or spools.
- Special reinforcing mesh sheets (engineered fabric), which are usually manufactured in small batches. Welding lines designed for this application thus offer maximum flexibility and work with pre-straightened line and cross wires.
- Truss girders for reinforcing precast concrete floor slabs or precast beam floor slabs.
- Industrial mesh and fencing mesh produced in sheets or rolls. Depending on requirements, these mesh styles are produced directly from coils/spools or by means of pre-straightened bars.
- Welded gratings which are used as catwalks in industrial plants, etc.
- Three-dimensional wire structures such as reinforcing cages for tubbings, or EVG-3D® panels.

Anlagen zur Produktion kalt gewalzter Bewehrungsdrähte und Drahrichtmaschinen runden unser Lieferprogramm ab.





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“The illustrations in this folder are exemplary. Conclusions on the equipment purchased by the customer based on these illustrations are explicitly excluded.”