

Mitre Circular Cold Saws PSU Automatic

Flexible and universal.

PSU 450 A

The flexible PC-controlled High-Performance Circular Sawing Centre for utmost cost-effective production of small and large quantity.

- Servo-driven axis for precise material length positioning, mitre angle adjustment and outfeed gripper (option)
- The disposal device clamps the piece during the cut and takes the cut piece out of the machine in axial direction to freely programmable positions
- High-performance and load independent positioning drives help reduce cycle times
- Servo-technology of the saw drive and automatic cutting feed control by means of a proportional valve as a standard
- Short rest piece length

Possible cutting sequences

90° cuts of the same length



90° cuts of different length



Pendentive cutting



Alternating cutting



Different mitres and lengths



Tip cutting



Bar optimization



Optional with servo outfeed gripper

- Disposal device with servo motor driven axis
- Sorting of the cuts on freely programmable positions
- Outfeed gripper is used to position the material. Multiple mitre cuts on front and end are possible.
- Gusset pusher to remove small gussets that cannot be taken by the outfeed gripper
- Material savings by positioning with the outfeed gripper
- For universal applications, the machine can be equipped with flat magazine, bundle loading magazine or bar loading magazine on the

infeed side. For disposal and sorting of the cuts on the outfeed side, inclined roller conveyors, disposal belts and hinge chain conveyors with sorting equipment are available.



EISELE PSU 450 A

Technical Data PSU

Model			PSU 450 M	PSU 450 A
Saw feed			hydraulic	hydraulic
Material clamping			hydraulic	hydraulic
Cutting range				
Flat	90°	[mm]	240 x 70	220 x 70
Flat	45°	[mm]	180 x 50	170 x 70
Flat	30°	[mm]	120 x 50	120 x 70
Square	90°	[mm]	10 - 140	10 - 140
Square	45°	[mm]	10 - 125	10 - 125
Square	30°	[mm]	10 - 100	10 - 100
Round	90°	[mm]	10 - 150	10 - 150
Round	45°	[mm]	10 - 145	10 - 145
Round	30°	[mm]	10 - 120	10 - 120
Saw blade diameter	[mm]		450	450
Drive power	[kW]		3.0/3.6	3.0/3.6 ¹⁾
RPM standard	[min ⁻¹]		6 / 12 / 24 / 48	6 / 12 / 24 / 48
RPM optional	[min ⁻¹]		12 / 24 / 48 / 96	6 - 70 ¹⁾
Feeding length single stroke	[mm]		1500	1500
Feeding gripper axis speed	[mm/s]		500	500
Weight approx.	[kg]		2350	3150

¹⁾ PSU 450 A with servo controlled saw drive - 7.1 kW

EISELE PSU 450 M



PSU M single bar automatic machine:

The solid machine base ensures a vibration-dampened and low-noise sawing process. This achieves excellent cutting performance as well as high saw blade life.