Extend Series

Leading through automation

Fully automatic work flows are indispensable to modern production. Besides high accuracy for positioning and repeatability, Extend series automatic saws offer simple, uncomplicated operation that allows even the smallest lot sizes to be run efficiently and completely automatically.

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Technical Parameters

| Feed length | max. Cutting length | Positioning accuracy | Repetition accuracy | Processing |
|---------------|---------------------|----------------------|---------------------|------------|
| 1500mm/3000mm | 6500 mm | ± 0,1 mm | ±0,1 mm | 20 m./ |



As standard modules, feed lengths of 1500 mm and 3000 mm are available. he feed is mounted on linear guides that are adjusted without play. It moves electrically over a gear rack and a prestressed sprocket and is positioned with a linear measuring system over the entire length of the feed.

At customer request, the controls

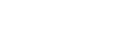
Futuristic control technology

Clear, simple operation, without limiting the range of functions — those are the attributes of the controls used in automatic, system-integrated Extend series machines.

Close collaboration with renowned manufacturers of control electronics has given rise to innovative operational designs that allow clear communication with the operator and the shortest possible learning curve.



can be connected over the Internet o the service unit at the factory. Error messages and malfunctions are promptly evaluated and downtimes considerably reduced.



Inteligent option for Customization

Swarf conveyor



A high-performance grabbing conveyor dimensioned to ensure a sufficient capacity for swarf disposal at the maximum cutting power.

Bundle clamping device

Cutting in layers and bundles increases productivity, i.e. the saw utilisation. The main vice and material feeding vice are equipped with vertical clamping units.

Clamping pressure regulation

regulation screw is used to adjust the clamping pressure, and the maximum clamping force is shown on a manometer.

LaserLiner

he laser projects the exact path of he saw band on the material.

Bundle tensioning device

With an easily adjusted hydraulic cylinder, the bundle of material is tightened vertically..



other sections.



Rinsing pistol for shavings

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With its own effcient pump for rinsing accumulated shavings from support urfaces.



Micro-Spray-System

A micro-spray unit applies a lubricating film on tips of teeth and feedings of band-saw blades for ideal sawing of tubing and profiles.



For extra wide materials, a third coolant supply is installed. The coolant supply is flexible and may be adjusted individually to the material shape.

Tenzomat



A precise measuring tool for monitoring the saw band tension when applying new saw bands.



Connection parts

for the roll conveyor system of each machine version.



Buitable connection parts are available





Securflex[•] Safety with the system

Personnel are the most valuable part of every business and must be protected in compliance with current safety criteria. The SECURFLEX safety system allows every device to be secured individually, depending on the environment and requirements.

Besides grids, doors and maintenance elements, the system offers a laser light lock system ensuring extensive safety, especially in the area of material feeding and removal of the cutting line.

The device securing is divided into individual safety circuits to prevent interruption of the operation of



EXTEND



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Extendable

A can-do basis for a machine series

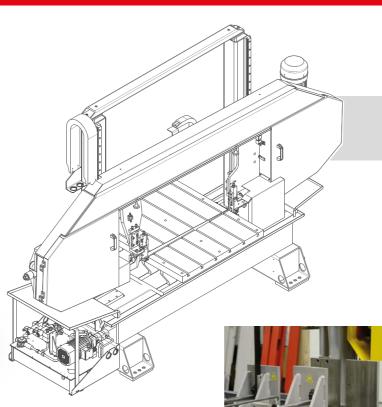
The basic principle of the Extend series of large machines is increased production through customization of the machines to the needs of the customer.

Thanks to a modular design with numerous configuration possibilities, coupled with heavy, reliable design, there is an Extend machine for every need.

Customization options

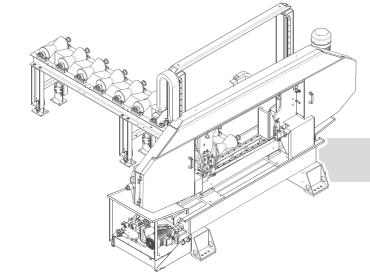
- Clamping devices
- Cutting sizes
- Shifting devices Saw band height
- Drive power
- Feed systems





Incomparable flexibility at basic parameters

| | ₽ | 0 | | | | | | | Saw band Size | Saw band Speed | Driving engine Output | Weight |
|-------------|----|------|-----------|-----------|------|-----|-----|----------|-------------------|-------------------|--------------------------|-----------|
| Extend 520 | 0° | 520 | 700x520 | 700×520 | 520 | 400 | 400 | 700×520 | 6640×41×1,3mm | 15-90 m/min | 4 kW | 5 100 kg |
| Extend 620 | 0° | 620 | 800×620 | 620×620 | 620 | 400 | 400 | 800×620 | 7300×41×1,3mm | 15-90 m/min | 4 kW | 5 500 kg |
| Extend 720 | 0° | 720 | 900×720 | 900×720 | 720 | 550 | 550 | 900×720 | 8560×54×1,6mm | 15-90 m/min | 5,5 kW | 6 000 kg |
| Extend 820 | 0° | 820 | 1000×820 | 1000×820 | 820 | 550 | 550 | 1000×820 | 9280×54(67)×1,6mm | 15-90 m/min | 7,5 kW | 7 500 kg |
| Extend 1120 | 0° | 1120 | 1120×1120 | - | 1120 | - | - | - | 11120×67×1,6mm | 15-90 m/min | 11 kW | 12 500 kg |
| Extend 1320 | 0° | 1320 | 1320×1320 | 1320×1320 | 1320 | 700 | 700 | 1000×800 | 12150×67×1,6mm | 15-90 m/min | 11 kW | 14 900 kg |
| Extend 1520 | 0° | 1520 | 1520×1520 | - | 1520 | - | - | - | 11760×67×1,6mm | 15-90 m/min | 11 kW | |
| Extend 1820 | 0° | 1820 | 2020×1820 | - | 1820 | - | - | - | 11200×80×1,6mm | 15-90 m/min | 18,5 kW | 17 500 kg |
| Extend 2020 | 0° | 2020 | 2020×2020 | - | 2020 | - | - | - | 13200×80×1,6mm | 15-90 m/min | 18,5 kW | 17 500 kg |



Full equipment is standard



range of basic standard equipment.



The simple, clear interface on the freely positionable control panel is equipped with a lighted, multi-line display and ives the operator status reports in plain

Extend machines offer an incomparable





lighly precise carbide saw band guides, th acute sensors for automatic adjustment of cutting pressure on both uide arms, guarantee precise saw cuts nd the longest possible blade life.

nconspicuous but innovative details round out the Extend series' standard equipment. These include a customadjustable material removal slide and a hydraulic band tension display.

Polymer concrete – reduced vibrations

Low-vibration saw cuts mean precision and long life Polymer concrete offers the ideal damping characteristics for use in saw machines. .

On all Extend machines, the support, saw frames and columns are filled with a specially developed polymer concrete mixture.

Coupled with pre-stressed, play-free, generously dimensioned linear guides, polymer concrete technology provides virtually vibration-free saw cuts with high cutting performance far above 100 cm2 per minute with M42 bimetal saw bands.



Large-scale customization

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With an Extend solution at their core, individual saw systems can be precisely configured to a flexible material handling system, based on customer needs. Lateral feed units, roll conveyors and stop systems are available in modular designs up to extra heavy duty.

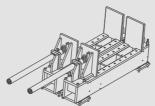
In addition to the standard array of components, integration of special components is also possible, from pipe processing machines all the way to a cartesian robot system.

Productivity through individual solutions

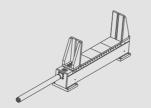
With the Extend series' many capabilities, adjusting the material tension on the work piece is no challenge at all. Individual clamping configurations can be put together from existing components without the cost of special designs.



-grooved clamping plate for free



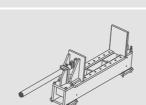
Double clamping device with a separately movable full-lift cylinder before and after the saw blade.



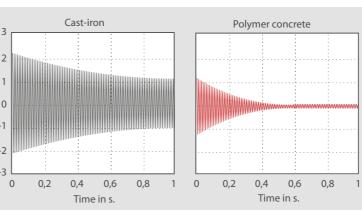
Divided clamping device with hardened inlays and a full-lift cylinder for tensioning before and after the saw blade.

Simple clamping device with hydraulic

full-lift cylinder before the saw blade.



Centrally closing clamping device with prism roll conveyor





Veasuring stop

NC-controlled measuring stop with large stop jaw and automatic predisconnection for propelled roll convevors.

Pipe machining

Fully automatic stop for sawing pipes up to cutting lengths of 10m. and integrated hydraulic end expansion.

2° Slope



NC-controlled measuring stop with

Roll conveyors

large stop jaw and automatic predisconnection for propelled roll conveyors.

Tailor-made from the series

The ideal slope setting of the saw frame to the horizontal clamping surface depends on the shape of the material, and on the designated sawing process. The Extend series' machine design allows this parameter to be set individually.



0° Slope

For processing solid material and as a standard when For universal use of the saw machine, an ideal using sliding tables with swivelling saw band guides for compromise between the 0° and 6° slopes. horizontal cuts

■ 6° Slope

When profiles and carriers are separated, the cutting channel in the horizontal area of the material is held for a very short time. It is thus possible to use a finer saw band, and this considerably improves the cutting feed and precision.

