

# The complete KASTO program: Economic sawing and storage of metal.

## EXPERTISE RIGHT DOWN THE LINE.

For over 170 years, KASTO has been recognised for quality and innovation, and offers a complete range of metal cutting saws as well as storage and retrieval systems. Thanks to ongoing development of new technologies and constant optimisation of machine concepts, KASTO has achieved the status of market leader in sawing and storage of metals.

### KASTO'S SAWING MACHINES.



From the basic hacksaw to the high-performance automatic bandsaw capable of economically processing bar stock, blocks or plates of all grades, KASTO has the best solution for every challenge: Universal bandsaws and circular saws for light and medium duty applications, hacksaws employing the pushing-arching-cutting motion originated by KASTO, and production bandsaws and circular saws designed to cut medium to difficult materials.

### KASTO'S STORAGE SYSTEMS.



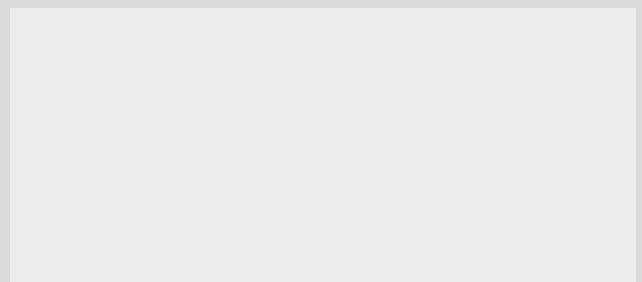
Rapid access, optimum space utilization, clear and accurate view of stored inventory – KASTO storage systems' outstanding features. And there's more! Fully automatic sawing centers, cantilever bar and sheet metal storage systems or cassette storage and commissioning systems, combined sawing and storage systems with integrated inventory control computers. As a one-source supplier, KASTO delivers the complete system, both hardware and software.

### KASTO'S SERVICE.



KASTO's comprehensive service program includes everything: from commissioning and training to maintenance support, service contracts, readily available spare parts and on-site service. KASTO's service incorporates individual consulting and immediate support with well-qualified teleservice. And of course, KASTO service is available worldwide.

Your KASTO Partner:



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The new KASTOwin.  
A masterpiece in series production.

[www.kastowin.com](http://www.kastowin.com)

Saws. Storage. And More.

  
**KASTO**<sup>®</sup>



## More than unique: the new KASTOwin.

The essence of profitable automated sawing comprises two elements: high cutting performance and short downtimes. The new, fully-automated bandsaws from the KASTOwin range have been designed for mass production sawing of solid material, tube and profile. Designed in Germany and manufactured in state-of-the-art, flow line production lines at our assembly plants in Achern (in the northern Black Forest) and Schalkau (Thuringia), KASTOwin creates the ideal conditions for optimum efficiency.

The new KASTOwin is now available in five sizes:  
from KASTOwin A 3.3 with 330 x 350 mm cutting range through KASTOwin A 4.6,  
5.6, 8.6 to KASTOwin A 10.6 with 1,060 x 1,060 mm cutting capacity.



## Increase your productivity.

### THE KASTOwin OFFERS YOU SEVERAL TIME-SAVING ADVANTAGES:

- Customised to the specific application using a modular system design
- Quick motion using servo drive and ball screw spindle for the material feed and the linear guided saw frame
- Automatic band guide arm adjustment
- Quick and easy programming via colour touch screen
- *SmartControl* to ensure high bandsaw blade lifetimes
- Incremental feed for cutting batches of short pieces

### PRODUCTIVE AND INNOVATIVE.

The new KASTOwin models combine solid engineering with innovative control technology. The torsion-resistant upper part of the KASTOwin offers higher vibration absorption than conventional cast iron constructions. And the heavy construction of the rest of the steel structure has a single objective: to ensure operation of the bandsaw blade is as quiet as possible for high precision.

The new KASTOrespond system, developed specially for this range, provides ideal calibration of the machine for all material types and is available for all sizes. The system continuously monitors the forces on the tool and intelligently translates them into optimal feed and rapid movements. The operator only needs to program the relevant data, such as cutting lengths, quantities and the material to be cut. The KASTOwin takes care of the rest.





## SIMPLY BETTER:

- Effective use of material down to a 35 mm-long offcut (60 mm for KASTOwin A 3.3)
- New layout: The drive unit and sensor are separate from the working area – ensuring reliable and trouble-free operation
- Key parameters are entered into the user-friendly *SmartControl* saw control unit. Simple input of sawing jobs by entering cutting lengths, quantities and material description
- Controlled feed motion using ball screws
- Material clamping vices with side shift cylinder guarantee reliable automatic cutting
- Backlash-free linear guides in both pillars for smooth, precise running
- Powered chip removal brush
- Hydraulically preloaded, integrated band guides
- Accessible material feed
- Preparation for infeed roller conveyors
- Quiet, energy-efficient, compact hydraulic power unit
- High cutting performance with impressive repeatability

## EXPERT PRECISION.

The newly developed KASTOwin series bandsaw achieves a cutting accuracy of  $\pm 0.1$  mm/100 mm cutting length, with cutting speeds of up to 150 m/min.

Precise, backlash-free linear guides for the vice and saw feed as well as servo drive and ball screws for saw frame and material feed unit make this possible!

To maximise productivity, there is a significant improvement in the use of material through minimum offcut lengths of 35 mm (60 mm for KASTOwin A 3.3) in automatic operation.

## EFFICIENCY IS THE NORM.

The comprehensive standard equipment ensures improved efficiency. The high cutting performance combined with quick set-up and optimal material handling considerably reduce the costs per cut.



## High-tech mass produced: more performance, more efficiency.

The new KASTOwin bandsaw machine features impressive properties, such as extremely smooth running, high cutting performance and optimal blade life. It is due to the stable, vibration-optimised sawing unit in a high-quality, modern welded steel construction. Another bonus for increased stability is the double-sided guiding of the saw frame using modern linear guide systems.

TECHNICAL DATA KASTOwin		A 3.3	A 4.6	A 5.6	A 8.6	A 10.6
Cutting range	mm	330	460	560	860	1,060
Cutting range [H x W]	mm	330 x 350	460 x 460	560 x 560	860 x 860	1,060 x 1,060
Material feed length, single stroke	mm	500	500	500	500	500
Optional feed length, single stroke	mm	1,500	1,500	1,500	–	–
Multiple feed	mm	9,999	9,999	9,999	9,999	9,999
Minimum cut length	mm	10	10	10	10	10
Minimum sawing diameter	mm	10	10	10	20	20
Minimum remnant length in automatic operation	mm	60	35	35	35	35
Cutting speed, infinitely variable	m/min	12 – 150	12 – 150	12 – 150	12 – 90	12 – 90
Saw motor, frequency controlled	kW	4.0	4.0	5.5	5.5	7.5
Total connected load for standard machine	kW	6.0	6.0	8.0	10.0	12.0
Dimensions of bandsaw blade	mm	5,090 x 34 x 1.1	6,096 x 54 x 1.3	7,067 x 54 x 1.6	9,394 x 67 x 1.6	10,422 x 80 x 1.6
Optional dimensions of bandsaw blade	mm	5,090 x 41 x 1.3	6,096 x 41 x 1.3	7,067 x 54 x 1.3	9,394 x 80 x 1.6	10,422 x 67 x 1.6
Material support height	mm	700	700	700	700	700
Length	mm	1,350	1,650	1,650	2,605	2,605
Width	mm	2,330	2,900	3,300	4,270	4,750
Height	mm	1,850	2,030	2,280	3,200	3,590
Weight	kg	2,050	3,000	3,800	8,500	11,000

## A comprehensive programme and a complete range of accessories:

- Initial 0 measurement for fully automatic positioning of the first cut
  - Safety package with monitoring of the saw band, coolant flow and saw band breakage
  - Laser projection of the cutting line
  - LED machine lights
  - Minimum quantity lubrication system
  - Coolant pipe to clean the working area
  - Opening and closing limit switches
  - Clamping force regulation
  - Chip conveyor (spiral type)
  - Additional space-saving chip conveyor discharge height 1,000 mm
  - Performance package with double chip removal brush and high drive power
  - Heating unit with special hydraulic oils and coolant heating
  - Cooling units for hydraulics and control cabinet
  - Hydraulic layer clamping equipment incl. closing limit switch (for KASTOwin A 3.3 / 4.6 / 5.6)
  - Steel oil tray, painted
  - Vertical roller
  - Roller conveyors on infeed and outfeed sides in various lengths and types
- Variation KASTOwin F:
- Hydraulic bundle clamping device incl. closing limit switch (for KASTOwin 3.3 / 4.6 / 5.6)
  - *AdvancedControl* with larger display
  - Material feed with 1,500 mm feed length (3.3 / 4.6 / 5.6)
  - Driven machine roller track
  - Inclined magazine (for 3.3)
  - Twin roller conveyor (for 3.3 / 4.6 / 5.6)
  - Chain magazines with and without dividers (for 4.6)



# The KASTO quickfinder for roller conveyors.



QUICKFINDER KASTO <i>win</i>		A 3.3	A 4.6	A 5.6	A 8.6	A 10.6
Load capacity	t/m	2.0	3.0	3.0	9.0	9.0
Short roller track 3 R		■	■	■		
Short roller track 5 R		■	■			
Infeed approx. 2 metres	wd					
	p				■	■
	cr				■	■
Infeed approx. 3 metres	wd	■	■	■		
	p	■	■	■	■	■
	cr	■	■	■	■	■
Infeed approx. 4 metres	wd		■	■		
	p		■	■	■	■
	cr		■	■	■	■
Infeed approx. 5 metres	wd	■	■	■		
	p	■	■	■	■	■
	cr	■	■	■	■	■
Extension approx. 2 metres freestanding	wd	■				
	p					
	cr					
Additional motor			■	■		
Outfeed approx. 1 metre	wd	■	■	■	■	■
	p					
	sgp	■	■	■		
Outfeed approx. 2 metres	wd			■		
	p					
	sgp					
Side guide roller			■	■		
Adjustable side guide roller		■	■	■		

wd = without drive p = powered cr = coolant return sgp = side guide plates