

The Complete KASTO Program: Economic Sawing and Storing of Metal.

Expertise right
down the line.

For over 160 years, KASTO has been recognized for quality and innovation, and offers a complete range of metal cutting saws, as well as storage and retrieval systems. Thanks to an ongoing development of new technologies and constant optimization process of machine concepts, KASTO has achieved the status of market leader in sawing and storing 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 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' excelling 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



KASTOtec.
Production Bandsawing Machine
for Medium and Heavy Production.

Saws. Storage. And More. **KASTO®**

For lower cutting cost: Cutting performance and precision of highest standard.

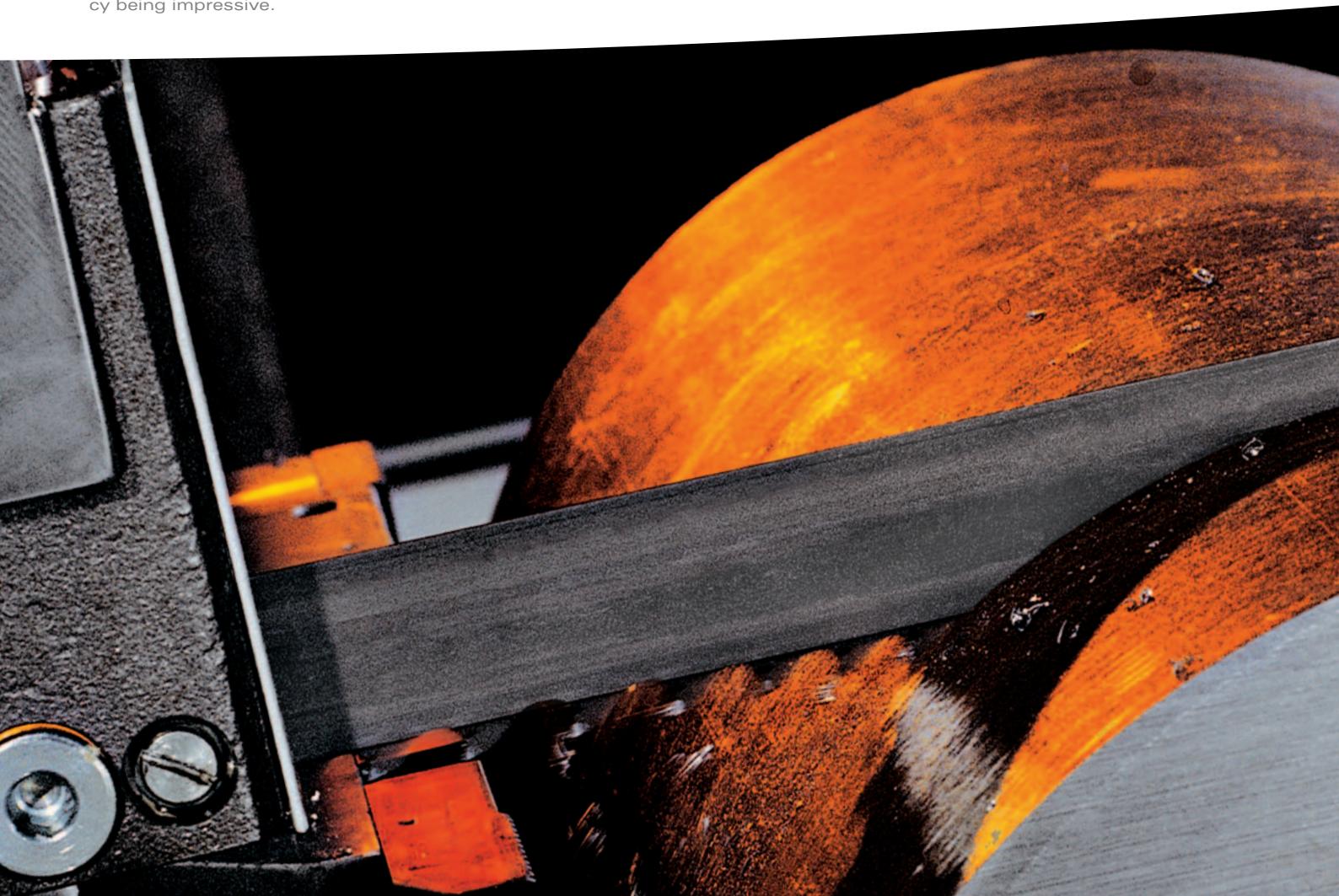
Rapid and universal:
KASTOtec.

The open secret of profitable automatic saws: high cutting performance and short idle times. The horizontal bandsaw KASTOtec has been designed consistently for cutting of large work pieces, particularly solid bars as well as difficult to cut material qualities. Five sizes are available in fully automatic style KASTOtec A and in semi-automatic style KASTOtec U: from KASTOtec 4 with 430 x 430 mm up to KASTOtec 8x10 with 830 x 1.100 mm cutting range. Easy operation and well thought-out material handling are reducing idle times, thus creating the prerequisites for highest commercial efficiency.

KASTOtec: Precision and speed are cutting your costs!

With the fully hydraulic KASTOtec in twin column design a cutting accuracy of $\pm 0,1$ mm/100 mm cutting length can be reached – with cutting speeds up to 120 m/min, if carbide tipped blades are used even up to 180 m/min! Linear guides in vice and feed unit as well as a recirculating ball screw drive for the feed unit make this possible. High productivity is being complemented by a considerable improvement of utilization of material by a minimal rest piece length of 35 mm, 50 mm for KASTOtec A 8 x 10 in automatic operation.

A composite structure of steel and polymer casting that is damping against vibrations makes high cutting performances possible with bi-metal or carbide tipped sawbands, the repetitive accuracy being impressive.



This is how a KASTOtec reduces nonproductive idle times:

- Adaptation to the customer's needs by modular system
- Rapid movement by means of large dimensioned hydraulics and linear guides in vice and material feed
- Automatic adjustment of blade guide arm
- Automatic setting to material height and width
- Automatic positioning for cutting without trim cut
- Intelligent regulation of cut for long blade life by KASTO Universal Hydraulics UH
- Incremental feed for short serial cuts

Innovative and productive:
Composite structure of steel
and polymer casting.

The steel casing of the saw head of KASTOtec filled with polymer casting offers a damping against vibrations that is approximately five times higher than usual casting structures. And the heavy construction of the remaining steel structure as well has only one goal: quiet running of the blade for high precision, constantly for the complete blade life, and highest reliability in all respects.



KASTO Performance Cutting (KPC)

More Power:

U-shaped blade guide with newly-designed side guides for optimum surface pressure of saw blade. Drive wheel bearings on both sides. Double saw frame columns with linear bearing guides. Vibration damping by means of mineral casting in the saw frame and preset damping guides in contact with the tooling.

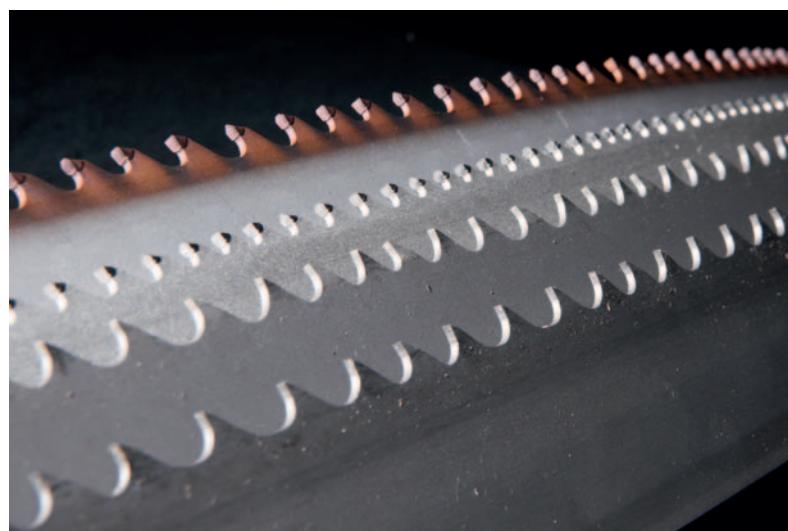
More Technology.

Versatility to use different saw blade technologies on the market, such as Bi-metal, Bi-Metal coated, Carbide-tipped and Carbide-tipped coated. Optimum performance data developed in cooperation with blade manufacturers. Improved blade life by precise hydraulic feed system linked with KASTO's clearance stroke feature prior to raising the saw frame.

More Intelligence.

Extensive technology database integrated in the touch screen control. KPC benefit selectable via button. Sensitive but accurate and direct feeding system by means of proportional valve regulation with position and speed interaction. Sensor-based cutting force management.

Extremely precise with little maintenance: Stick-slip free working linear guides in saw head, material feed and vices of KASTOtec.





Aluminium saws for highest efficiency in tubes, profiles and full material.

High cutting range, short chip.

The KASTOtec AM is especially designed for economic, extremely fast sawing of all common materials in aluminium. The work-piece is exactly positioned via a spindle driven material feed carriage and cut with high speed. Specifically finely balanced drive elements enable very high cutting speeds with calm action. The especially designed band guides support the tool and produce a short, easily removed chip.

The saw controls are especially designed for this application, Easily to be used touch screens support the high efficiency of the KASTOtec and enable an optimal use for the operator.

With its individual, thoughtful accessories this machine is an essential investment for each operator.



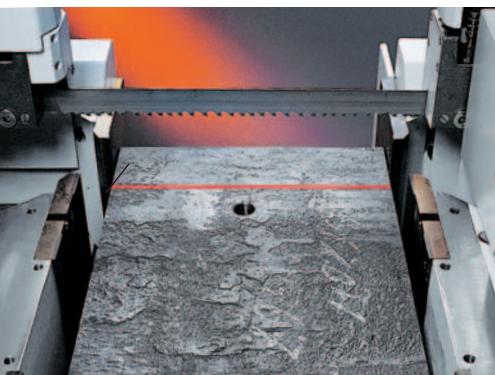
Mechanical engineering up-to-date: steel casing of KASTOtec's saw head filled with polymer casting.



Strong and sensitive: frequency regulated helical-bevel motor directly at the drive wheel with concentric bearings.



Save material transport for forged pieces with hydraulic horizontal infeed clamping device with pulling down clamping jaw.



Automatic clearance stroke of the firm vice jaw by approximately 10 mm during transport movement of material.



Rapid exchange of sawband directly from the front: ready in a few minutes thanks to easy access.



Rapid and safe for shorter idle times: automatic zero start.



Less scrap, more profit: minimal rest piece length 35 mm, 50 mm for KASTOtec A7 in automatic operation.



The continuous integrated machine roller conveyor simplifies material handling and transportation of short remnants.



The special chip conveyor is also suited for use of carbide tipped blades and for cutting of material producing long chips.

Perfection ex works: The standard equipment of KASTOtec.

KASTOtec:
Hightech is standard.

- Sawband guide via hydraulically pretensioned carbide slide-ways
- Electronic monitoring of the hydraulic blade tension
- Infinitely variable cutting speed, to be adjusted at central control panel
- Fully automatic, rapid height adjustment of the saw unit via light barrier
- Hydraulic horizontal vices, clearance stroke is standard
- Infinitely variable regulation of tension force, ideal for cutting of profiles and tubes (numerically controlled as option)
- KASTO Universal Hydraulics UH for continuous adjustment of feed speed and cutting force
- KASTO control for sawing machines *CompactControl*
- Vice for extremely short remnants



BasicControl.

 excellent!
Design Center Stuttgart
 1999

„Excellent“: The design of KASTOtec has been honoured by the Design Centre Stuttgart.



EasyControl.



TechnoControl.

KASTO-Saw Control: Optimal for every Usage

KASTO BasicControl.

- ... the optimum control for easy handling and save sawing
- Industrial PC with 5.7"- colour touch screen without hard disk.
 - Software and data management on exchangeable multi media card.
 - Input of up to 99 orders with flexible input of quantity, cut-off length and further order data.
 - Integrated technology tables for cutting speed and saw feed.
 - Integrated optimization of remnants for optimum material utilisation.
 - Management and display of process data (e.g. cutting time, cycle time), tool/blade data (e.g. cut area, cutting performance) etc.
 - Extensive diagnostic functions.

KASTO EasyControl.

- ... the ideal control for optimum order processing
- Industrial PC with 10"- colour touch screen without hard disk.
 - Software and data management on exchangeable multi media card.
 - Integrated material and article management based on database principle.
 - Self-optimising technology database based on article, material and tool data as well as the latest process parameters.
 - Pre-calculation of order processing and machine utilisation hours of the complete order pool.
 - Storage and analysis of all processes, statistics and tool data.
 - Extensive software options



KASTO TechnoControl:

- ... highest performance for highest demands
 - Industrial PC of the latest generation with 15"- colour touch screen.
 - Software and data management on hard disk.
- The TechnoControl offers all function of the EasyControl. Additional extensions are possible for which a high-performance PC with a big data storage unit is absolutely necessary.
- System for cut-off management and sorting for the integration of a robot solution (KASTOsort).
 - Integration of marking systems for part identification and traceability (e.g. KASTOnailmark).
 - Integration of bar management and the bar optimisation software KASTOptisaw.
 - Integration in KASTO sawing installations (e.g. KASTOcenter, KASTOsawcell).
 - Client for customer host systems (SAP, etc.) without additional hardware.

Complete program for total productivity.

Automatization degrees for KASTOtec.

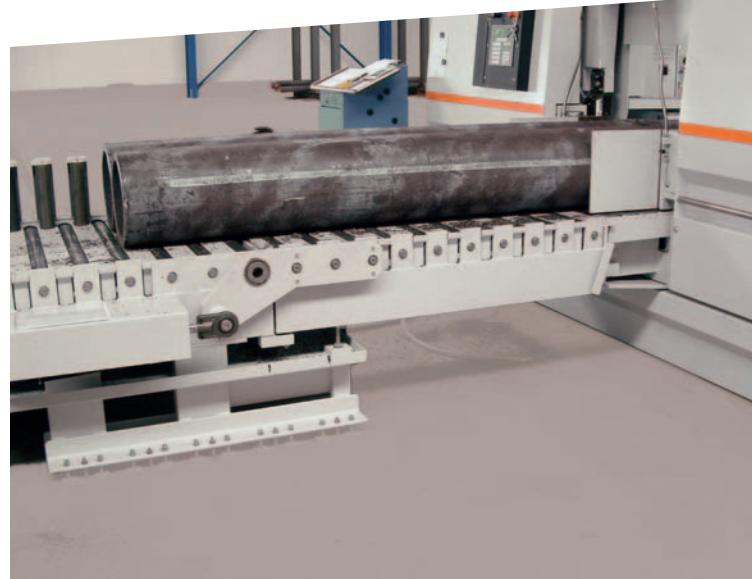
Individual peripheral equipments are available in connection with the optional machine controls KASTO *EasyControl* and KASTO *TechnoControl* and an automatic loading of the bar into feed gripper to increase the degree of automatization:

- KASTO twin roller conveyor
- KASTO inclined magazine
- KASTO universal magazine
- KASTO device for sorting of cut-off material
- KASTO device for marking of cut-off material

A connection to KASTO sawing centres and KASTO bar storage systems can be realized without problems.

These options are available for KASTOtec:

- Special bundle clamping device for the maximal cutting range
- Automatic loading of the bar into feed gripper with technology controls KASTO *EasyControl* and KASTO *TechnoControl*
- Reduction of clamping pressure
- Mechanical limitation of opening
- Chip removal brushes
- Lubrication with minimal quantity of lubricant
- Special blade speeds
- Heating for control cabinet, heating for hydraulics, heating for coolant
- Surveillance package for blade and coolant
- Carbide package with contact free return of the sawband on both sides
- Longer material feed, 1.500 or 3.000 mm



High technology in large format: KASTOtec A 7

More power, more efficiency.

The new power-bandsaw KASTOtec A 7 convinces by its excellent dynamic working:

Maximum smoothness of running, highest cutting performance and longest blade life are the advantages. Initial point is the stable saw unit optimized against vibration, made of high-quality steel-mineral-cast composite structure. Compared to the structures made of soft cast iron a six to eight times better vibration absorbing is achieved. Another plus for more stability:

The robust bearing of the band wheels on both sides and the precise two-column guide with modern linear guiding systems.

Optimized to maximum smoothness of running, highest cutting performance and long blade life.

High cutting performance in connection with fast set-up and optimized material transport reduce the costs per cut considerably. Further advantages for more efficiency:

- Effective material utilization up to 50 mm remnants
- Band guide units with integrated stripper – insensitive to dirt
- New partition: drive unit and sensor technology are consequently separated from the main working area which means reliable and disturbance-free working
- Easy to operate sawing machine control *CompactControl* – up to 98 different cutting tasks with cut-off length, quantity of cuts, cutting speed and material form

KASTOtec A 7: consequently designed for high-productive use of carbide tools.



Technical data KASTOtec		A4	A5	A7	A8	A 8x10
Cutting range	mm	430	530	730, opt. 800	830	270–830
Cut. range, for bundle cuts as well (H x W)	mm	430 x 430	530 x 630	730 x 830	830 x 830	830 x 270–1.100
Material feed length, single stroke	mm	600	600	750	750	750
Optional feed length, single stroke	mm	1.500/3.000	1.500/3.000	3.000		
Multiple feeding	mm	9.999	9.999	9.999	9.999	9.999
Min. cut length	mm	6	6	8	8	8
Min. diameter to be cut	mm	10	10	20	20	270 / 20 x 270
Min. remn. length in autom. operation	mm	35	35	50	50	50
Cutting speed, infinitely variable	m/min	12–120	12–120	12–120	12–120	20–120
Saw motor, frequency controlled	kW	5,5	5,5	11	11	11
Total power	kW	9,5	9,5	20	20	20
Opt. carbide: total power	kW	17/24	17/ 24	30	30	30
Sawband dimension	mm	6.830 x 41 x 1,3	7.675 x 54 x 1,3	9.195 x 67 x 1,6	9.195 x 67 x 1,6	9.735 x 80 x 1,6
Opt. sawband dimension	mm	6.830 x 54 x 1,3	7.675 x 67 x 1,6	9.195 x 54 x 1,6	9.195 x 80 x 1,6	
				9.195 x 80 x 1,6		
Opt. sawband dimension for alu	mm	6.830 x 34 x 1,1	7.675 x 34 x 1,1	9.195 x 41 x 1,3	9.195 x 41 x 1,3	
Material support height	mm	700	700	700	700	700
width incl. chip conveyor	mm	4.610	5.215	5.040	4.870	5.160
height	mm	2.410	2.680	2.865	3.050	3.050
weight	kg	4.300	5.250	10.800	11.400	12.800

Deciding service factor: The availability of the “Resource Saw”.

Satisfied customers do not come by accident.

For KASTO, customer service is a corporate principle. KASTO views service as an integral part of a long-term partnership with the customer – for long lasting performance and reliability of KASTO products. Very often, problems can be solved by the operator after a telephone consultation. Spare parts are often shipped the same day. If necessary, courier or next-day air services are used. For competent on-site help, more than 25 specially trained service technicians with well equipped service cars are ready to go. In addition to the KASTO main factory in Achern, service technicians are also stationed in the KASTO facility in Schalkau, Thuringia, as well as in the Sales and Service Centre in Krefeld. This ensures that every location in Germany can be reached within a few hours. The sales partners abroad store a large variety of spare parts and have KASTO trained service technicians available.