

NISHIJIMAX[®]



Engineered for Excellence.

NISHIJIMAX

CNC Carbide Cutoff Systems

Sold and Supported by

Pat Mooney Saws.



Nishijimax Cutoff Technology was developed in 1990 in response to the uptime demands of Japanese automotive forgers. Nishijimax Corporation, a family owned firm specializing in automotive transfer machines, applied their extensive machine tool technology to dramatically improve the performance of the sawing machine.

By incorporating their advanced metal cutting technology into a saw, the solidly constructed Nishijimax System cuts more parts per hour and more parts per blade than a standard production saw. Both the X and Z axis are CNC operated via servo drive, amp, motor and precision ball screw. The Nishijimax turns at a higher RPM with a greater chip load than any other sawing system.



Production Saw Meets Machine Tool Technology

NISHIJIMAX CNC Carbide Cutoff Systems

Replace 3 to 4 production saws with a single Nishijimax machine.

- Cuts 50 Sec. Operations Down to 7 Sec.
- High RPM with Minimal Kerf and Swarf
- Eliminates Secondary Operations
- Surface Finish from 40 - 80 RMS
- Reliable 24/7 Operation
- 45° Slant Bed Approach of Saw Head

Rigid Construction and Long Service Life

- Saw Head Travels on Hardened and Ground Linear Rails
- Linear Rails Automatically Lubricated for Long Service Life
- Saw Blade Housing Mounted to Massive Saw Head
- Saw Blade Guided into the Workpiece by Ceramic Guides
- Guides Provide 6 Point Contact, Eliminating Blade Wobble or Deflection

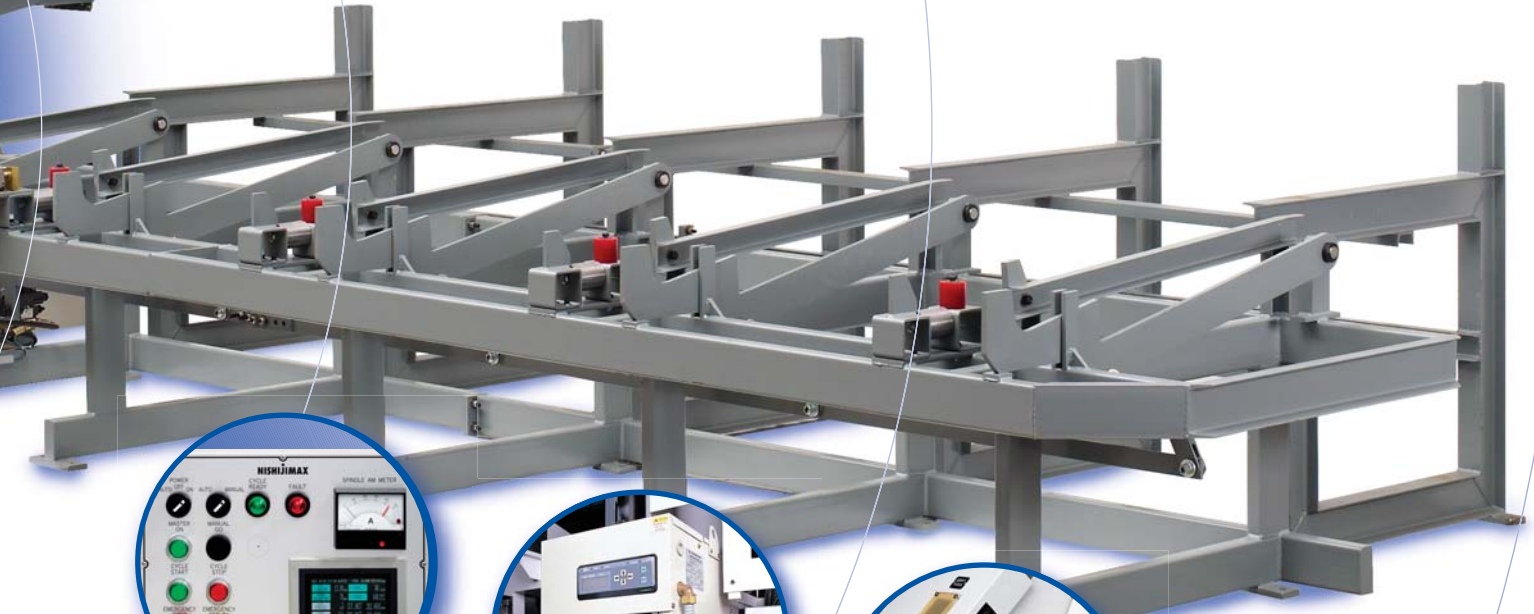
Kanefusa Saw Blades

To complement the fast and accurate performance of our Nishijimax Systems, we offer three types of Kanefusa "throw away" blades: our most popular TA-4 high performance and versatile blades; our ST-4 higher grade blades for more demanding applications; and our TI-4 featuring coated blade technology. All of these saw blades allow for faster material cutting with much less material loss due to kerf. Chipbreaker technology enables every tooth to remove an entire chip.



Auto Loader & Bar Stocker

All Nishijimax saws are designed for fully automatic cycles. After a bar length has reached the remnant end, the loading table introduces a new bar on the in-feed conveyor. The gripper vise locates the bar and feeds it into trim cut position. During this cycle, the remnant end is discharged into a scrap bin, and the trim cut is made and discarded into a scrap bin. The machine then feeds to proper cut length and continues production. The machine will continue to cycle as long as bars remain on the table or until a pre-determined number of cuts are made.



NC Saw Spindle Feed Axis (Nishijimax Exclusive) and CNC Controller

For maximum production and cutting efficiencies, the saw blade feed rate is controlled via an AC Servo Motor with Encoder, a Mitsubishi Programmable Servo Drive and a precision ball screw. Compared to hydraulic systems, there is no fluctuation for temperature or condition of the oil. A precise feed rate is set automatically and maintains input chip load.

With our CNC Controller, job set up takes less than five minutes. The easy-to-use touch screen panel provides a wide range of performance data, technical support and self diagnostics. Part counts, bin counts and blade life are displayed.



Oil Chiller for Gear Box (Nishijimax Exclusive)

Because Nishijimax machines are built to run 24/7, the gear box is constantly running, and therefore the oil builds up heat. Our oil chiller maintains the gear box at a constant temperature, thereby extending the life of the gear box, as well as the saw blades.



Powder Metal Saw Blade Brake (Nishijimax Exclusive)

A powder metal brake eliminates vibration as the blade enters the cut. The efficiency of the brake relates directly to machine uptime and blade life. In addition, the brake is oil-cooled for long life.



Oil Pressure Adjustment Valve

All valves are easily accessible via a side panel. A unique gauge system allows for one central gauge to check all pressures.



Automatic Chip Conveyor (Option)

We offer a choice of magnetic (pictured) or drag-styles, each with 48" discharge heights. If all saws are in one area, a central system can be used to conserve floor space.

Specifications

Nishijimax NHC- models currently available:

Ferrous Cutting Systems		
Model	Capacity	Blade Diameter
NHC-70	2.75"	285 mm
NHC-100NA	4.00"	360 mm
NHC-110NA	4.33"	370 mm
NHC-120NA	4.75"	380 mm
NHC-150NB	6.00"	460 mm
NHC-180N	7.00"	560 mm
NHC-225	9.00"	600 mm

Other Nishijimax Cutting Systems

- Non-Ferrous Cutting Systems
- Large Diameter Non-Ferrous Saws
- Tool Steel Block Saws

Integration

- NHC Models with Double-End Deburring Machine
- NHC Models with Weight Check System to Weigh Each Billet
- NHC Models with Double-End Chamfer and Centering Units

Service and Support

Pat Mooney is the exclusive importer and sales/service agent for Nishijimax Cutoff Systems. Serving the metal sawing industry for more than a half century, we have placed approximately 150 Nishijimax machines in service in the USA. Expertly trained, our service specialists have the knowledge necessary to quickly respond to your Nishijimax service and support needs.

- Trained, Qualified Service Personnel
- A Large Inventory of Replacement Parts and Blades
- New Blades for Special Applications
- Thin Kerf Carbide Circular Saw Blades



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