



**ALL OF YOUR MACHINERY
NEEDS UNDER ONE ROOF.
NOW THAT'S APPLIED THINKING.**

-  SHEETMETAL
-  ENGINEERING
-  RECYCLING
-  PLASTICS

www.appliedmachinery.com.au



ALL OF YOUR MACHINERY NEEDS UNDER ONE ROOF. NOW THAT'S APPLIED THINKING.

At Applied Machinery, we have been buying, selling and trading machinery across Australia, and most of the world for over 27 years. Over this time we have built up the product knowledge and expertise that allows us to provide you, our customer with the best advice, and the best machinery for your job each and every time. Our sales team has over 100 years of combined experience in the machinery industry and are always available to assist with your enquiry.

We represent some of the world's leading machinery manufacturers including: **Yawei, Genox, Mitsubishi Electric, Chen Hsong, Polystar, Hurco, Hermle, Kitamura, Röders, Wele, Cosen, Akyapak & Ibarmia.**

Our product range, covered throughout this magazine includes: Lasers (Fibre & CO₂), Pressbrakes, Turret Punch Presses, Plasmas, Guillotines, CNC Machining Centres, CNC Lathes, Bandsaws, Shredders, Granulators, Injection Moulding Machines, Repelletising Lines, Water Chillers & much more.

Supplying machinery is only part of our business, we understand that ongoing support and service is critical to building long-lasting relationships with our customers, and as such we have a dedicated service department with skilled technicians on hand who specialise across all areas of service and repair work whether it be mechanical, electrical, hydraulic or pneumatic in nature. We can incorporate a service agreement into many of our machinery sales to give you maximum peace of mind that your capital equipment investment is being maintained and protected to the highest levels possible.

When choosing Applied Machinery for your equipment purchases, you can also count on us to consider your trade-in machinery. This allows you to have a seamless changeover process to your new machinery without the need to dispose of your superseded equipment privately, which on many occasions can be extremely problematic and time consuming.

We are always in the market for quality used machinery, either as trade-ins or standalone purchases, so please give us a call. We have a proven track record of success in assisting our customers with factory clearances and equipment rationalisation, so please do not hesitate to call on us for assistance.

At our Dandenong South office and showroom, we have a large range of machinery in stock, and available for immediate sale and delivery. Drop by, or give us a call on 03 9706 8066. Whether you are in the need of a simple centre lathe, or the latest in high speed fibre laser cutting technology, we have the machinery to suit your needs and your budget.

Thank you for taking the time to look through our machinery magazine. We hope it will find a place on your desk, or in your workshop and be a useful resource for all of your new and used machinery needs.

David Macdonald
Managing Director

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YOU UPDATED.
NOW THAT'S APPLIED
THINKING.**

See inside back cover
for more information.



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Applied Machinery in your
app store



Yawei HLF Series High Speed Fibre Lasers



The premium HLF series high speed fibre laser from Yawei is designed and built for heavy industrial applications. It is suited customers requiring absolute precision, high speeds, high volume workloads, and reliable output even in the most demanding of environments.

HIGHLIGHTS

- IPG YLS series, modular fibre laser source (USA) – up to 6kW
- Siemens servo motors driving a dual rack and pinion gantry (Germany)
- A feature-packed graphical Siemens 840DSL CNC system (Germany)
- Precitec autofocus cutting heads with automatic height sensing for faster processing. (Germany)
- Fabricated, stress-relieved and fully annealed steel gantry to ensure rigidity and stability under rapid traverse acceleration up to 2G

Item	Unit	HLF-1530	HLF-2040	HLF-2060
Laser output	W	2000, 3000, 4000, 6000		
Cutting range	mm	3000 x 1500	4000 x 2000	6000 x 2000
X-axis stroke	mm	3100	4040	6040
Y-axis stroke	mm	1550	2050	2050
Z-axis stroke	mm	120	120	120
X-axis positioning speed	m/min	120	120	120
Y-axis positioning speed	m/min	120	120	120
X/Y maximum simultaneous speed	m/min	170	170	170
X/Y acceleration	m/s ²	2.0G	1.5G	1.5G
Positioning accuracy	mm	±0.03	±0.03	±0.03
Repositioning accuracy	mm	±0.02	±0.02	±0.02
Maximum allowed load on work table	Kg	900	1500	2500
Machine size (L x W x H)	mm	10000 x 4800 x 2100	12000 x 5000 x 2100	16000 x 5000 x 1900
Machine weight	kg	10000	14500	20000
Machine power (approx)	kW	37, 43, 49, 60		

Yawei HLF Series High Speed Fibre Lasers



Precitec Autofocus Cutting Head

Precitec is the world leader in cutting head technology. Manufactured in Germany utilising only the highest quality components, Precitec's autofocus head with automatic height sensing ensures optimum cutting during all processing applications. The autofocus head allows near instantaneous focal adjustment with the press of a button. Focal positions are automatically changed between piercing and cutting, resulting in reducing piercing time, especially in thicker materials and decreasing overall cycle times and cut quality. The automatic height sensing ensures even the most deformed of materials can be cut with ease. The Precitec head features inbuilt, class leading protection to guard against anomalies in machine operation (sensors), and also accidental crashes with protruding parts through a 2-way magnetic breakaway system.



IPG Fibre Laser Source

IPG Photonics is the world leader in Fibre Laser technology. The IPG Ytterbium units offer extremely long pump diode life and maintain constant BPP (beam parameter product) over the entire power range. This results in a high quality, focussed, constant cutting beam across all aspects of your job. They feature a compact, water-cooled, rugged design and are modular to allow for easy maintenance or relocation as required. IPG lasers boast a class leading wall plug efficiency of 50%. There is simply no better choice.



Siemens Graphical CNC System

HLF series Fibre Lasers are equipped with a Siemens 840DSL CNC system as standard. Featuring USB, ethernet, RS232 and Profibus, these CNC systems allow for remote information monitoring and diagnosis. Critical functions of the 840DSL include: support grid cutting, breakpoint return, automatic edge finding, precision small hole processing and more.

KEY FEATURES & INCLUSIONS

- Precitec adaptive cutting head with automatic focus adjustment
- NC Focus
- Crash protection system integrated into the cutting head
- Automatic nozzle cleaning and height calibration
- Capacitive height sensing
- Automatic sheet referencing
- Automatic cutting gas selection & gas pressure control
- High pressure Nitrogen cutting
- Laser power modulation ensures optimum laser power for the given cutting speed
- Enclosed safety cell with Fibre laser rated safety glass and door interlock



- Fully integrated automatic pallet exchange system
- Water chiller
- Parker air dryer
- Donaldson dust collector
- Air-conditioned electrical cabinet
- Remote diagnostic compatible

SHEETMETAL

Yawei HLE Series Fibre Lasers



The HLE series fibre lasers from Yawei are designed, priced and recommended for any company looking to enter the laser cutting industry. These machines offer the quality of cut and competitive speeds needed to compete in your market place.

HIGHLIGHTS

- Beckhoff CNC System
- Raytools cutting heads (Switzerland)
- IPG fibre laser source (USA) from 700W to 3000W
- Beckhoff servo motors

Item	Unit	HLE-1530	HLE-2040
Laser output	W	700, 1000, 2000, 3000	
Cutting range	mm	3000 x 1500	4000 x 2000
X-axis stroke	mm	3100	4040
Y-axis stroke	mm	1520	2020
Z-axis stroke	mm	240	240
X-axis positioning speed	m/min	100	100
Y-axis positioning speed	m/min	100	100
X/Y maximum simultaneous speed	m/min	140	140
X/Y acceleration	m/s ²	1.0G	1.0G
Positioning accuracy	mm	±0.03	±0.03
Repositioning accuracy	mm	±0.02	±0.02
Maximum allowed load on work table	Kg	750	1200
Machine size (L x W x H)	mm	9000 x 4600 x 1900	11000 x 5000 x 1900
Machine weight	kg	9000	11000
Machine power (approx)	kW	27, 30, 35, 41	

Yawei HLE Series Fibre Lasers

KEY FEATURES & INCLUSIONS

- Raytools cutting head with focus adjustment and cooling
- NC Focus – automatic focal point adjustment
- Crash protection system integrated into the cutting head
- Automatic nozzle cleaning and height calibration
- Capacitive height sensing
- Automatic sheet referencing
- Automatic cutting gas selection
- Automatic gas pressure control
- High pressure Nitrogen cutting
- Laser power modulation ensures optimum laser power for the given cutting speed
- Enclosed safety cell with fibre laser rated safety glass and door interlock
- Fully integrated automatic pallet exchange system
- Water chiller
- Parker air dryer
- Donaldson dust collector
- Air-conditioned electrical cabinet
- Remote diagnostic compatible



Raytools Cutting Head

Cutting head is from Raytools, Switzerland and allows for fast, precise laser cutting. Raytools are fast establishing themselves as one of the world's leading manufacturers of cutting head technology. Featuring focal length adjustment, collision protection and efficient cooling, these heads ensure reliable, repeat, precision cutting.



IPG Fibre Laser Source

IPG Photonics is the world leader in Fibre Laser technology. The IPG Ytterbium units offer extremely long pump diode life and maintain constant BPP (beam parameter product) over the entire power range. This results in a high quality, focussed, constant cutting beam across all aspects of your job. They feature a compact, water-cooled, rugged design and are modular to allow for easy maintenance or relocation as required. IPG lasers boast a class leading wall plug efficiency of 50%. There is simply no better choice.

Beckhoff CNC System (Germany)

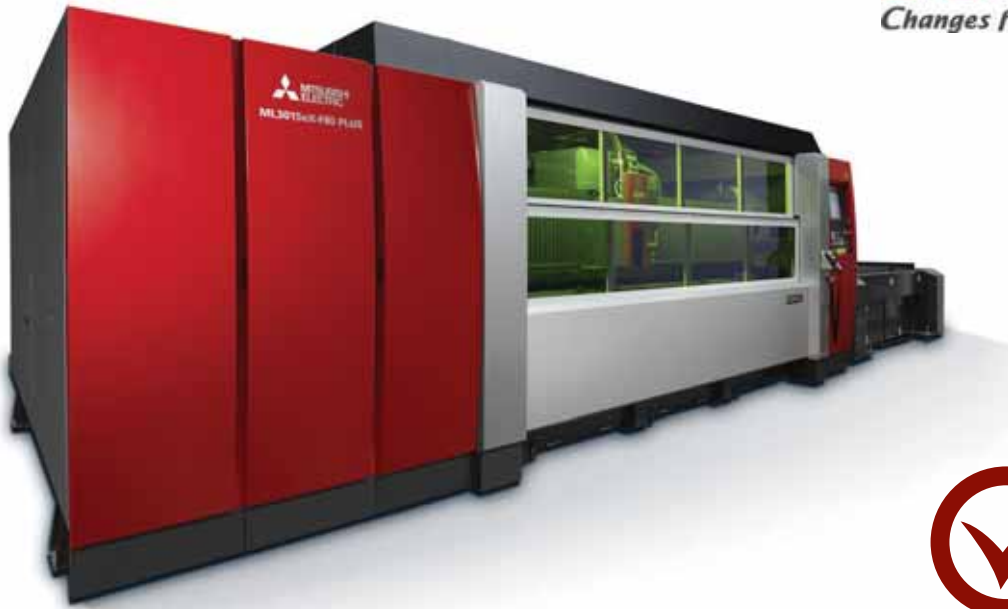
The CNC from Beckhoff features an easy to use interface, a comprehensive material library and associated cutting parameters, fly cutting, multiple pierce function, corner cutting control, pulsing and acceleration control, edge sharing function, automatic edge detection, nesting and of course supports all of the international standard file formats (AI, DXF, PLT, etc)

Machine Frame & Main Beam

The fabricated steel frame is exceptionally rigid to allow for high speed, accurate movements. Yawei uses high end, imported CNC machine tools to achieve outstanding accuracy in their frames beyond their internal design standards.

Using aviation class aluminium casting, the beam is a high rigidity, lightweight design. Rack, pinion and linear guides are all imported, premium brands.

Mitsubishi Laser eX-F Series High Speed Fibre Lasers



The Mitsubishi eX-F series high speed Fibre laser is the latest in fibre laser cutting technology and the patented modular IPG fibre laser resonator allows for maximum productivity and maximum uptime.

The eX-F eliminates the need for beam adjustment and alignment thanks to an all-in-one head design including numerous features to support high-kilowatt inputs and increased cutting capacities. Features like the ability to manipulate the beam mode to cut thin and thick material automatically and multiple sheet thicknesses up to as much as 1-inch mild steel without any set up come standard on the system. The eX-F Zoom Cutting Head's all-in-one design includes an Auto Focus Range from 3.75 to 10 inches, HPP

Pierce Technology and is backed by the industry's best magnetic breakaway Fibre head.

The system ensures unmatched efficiency by eliminating the need for lens cleaning or cartridge changing. The reduced nozzle centering time guarantees productivity and a wealth of benefits that come with the fastest cutting machine, per kilowatt, in the industry.

When only the best will do, turn to the the Mitsubishi eX-F series. With this machine, there are no compromises.

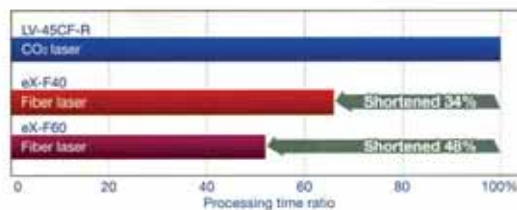
*Zoom Head standard on F60, optional upgrade for F40

KEY FEATURES

- Precision Japanese manufacturing
- Modular Mitsubishi-IPG fibre laser resonator for maximum reliability and performance
- Mitsubishi Zoom Head to take efficiency to the next level (6kW standard, 4kW optional)
- 6kW and 4kW options (2kW available SR series F20)
- Huge decrease in operating costs, even when compared to the very best CO₂ lasers
- UPS and network connection unit included
- Intelligent Mitsubishi LC30BX CNC system with barcode reader

Medium/Thick-plate processing

SS400t16mm



Control and application technology advancements have doubled the productivity on mid and thick plates.

Thin sheet processing

SECC t1mm



For thin sheets, a 3x increase in productivity has been achieved thanks to high fibre laser beam convergence and the latest in intelligent control technologies

Mitsubishi ML-ZH Zoom Head



The ML-ZH zoom head from Mitsubishi will take your productivity to a level that was previously unachievable. The autofocus range from 3.75" to 10" and the ability to manipulate beam mode to cut thin and thick material (up to 25mm) without any setup changes will yield processing speed for your company that will have a dramatic effect on your throughput, and ultimately your bottom line

Zoom Head Key Advantages

- Automatic optimisation of processing conditions, irrespective of material and thickness
- Improved pierce quality thanks to a constantly optimised beam at piercing
- Increased small hole processing quality. Precision 1mm holes in up to 6mm sheet, 2mm holes in up to 12mm sheet
- Improved overall cutting quality
- Advanced optimisation of cutting conditions leads to increased productivity
- Eliminates time wasted on lens changing and eliminates chance of lens damage

eX-F Series Optional Extras



Automatic Nozzle Change

This feature reduces setup time, maximises productivity and supports system automation



Fine Piercing

Reduces splatter adhesion when piercing during stainless steel processing



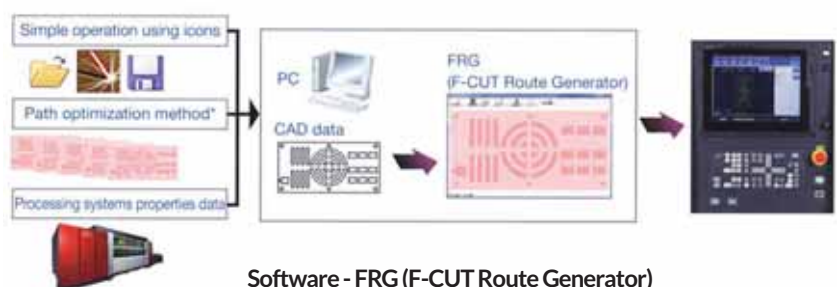
High-Peak Piercing

Reduces piercing time for mild steel processing of 12mm or thicker



Additional Window

An extra panel of fibre laser rated safety windows is available for the front, upwards sliding door.



Software - FRG (F-CUT Route Generator)

Intelligent, automatic generation of the optimum NC program path for F-CUT in the shortest time.

SHEETMETAL

Mitsubishi Laser ML3015eX PLUS Series CO₂ Laser Cutting System



Just 3L/h gas usage.
Massive annual savings
on gas consumption

Applied Machinery are authorised sales and service representatives of Mitsubishi Laser in Australia. Mitsubishi are a class-leading supplier of laser cutting technology with over 30 years of experience bringing laser processing systems to the world.

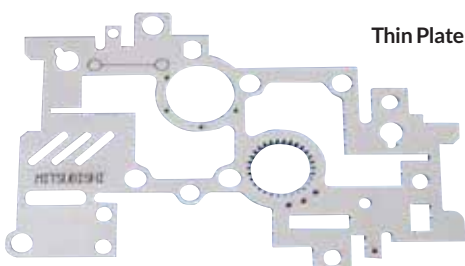
The latest range of Mitsubishi lasers, the next generation eX PLUS series feature capacities up to 6000W and have an impressive list of features both in terms of technology and economy.

- Patented cross-flow resonator which results in a substantial reduction in maintenance and running costs.
- ECO-mode to reduce power consumption by 90% when the laser is in standby mode.
- Economic 3L/h laser gas consumption
- Barcode reader standard across all models to ensure quick, error-free processing of your critical jobs.
- Class leading Dianite castiron fram
- Cross-flow resonator utilises no turbine and no glass.
- Full automation systems are available, including single pallet changers and multi-pallet towers to allow for maximum processing capabilities.
- Available in 3015 (3000 x 1500mm) and 4020 (4000 x 2000mm) configurations.

Excellent Performance

Energy Saving

EasyTo Use



Thin Plate



Medium Thickness Plate

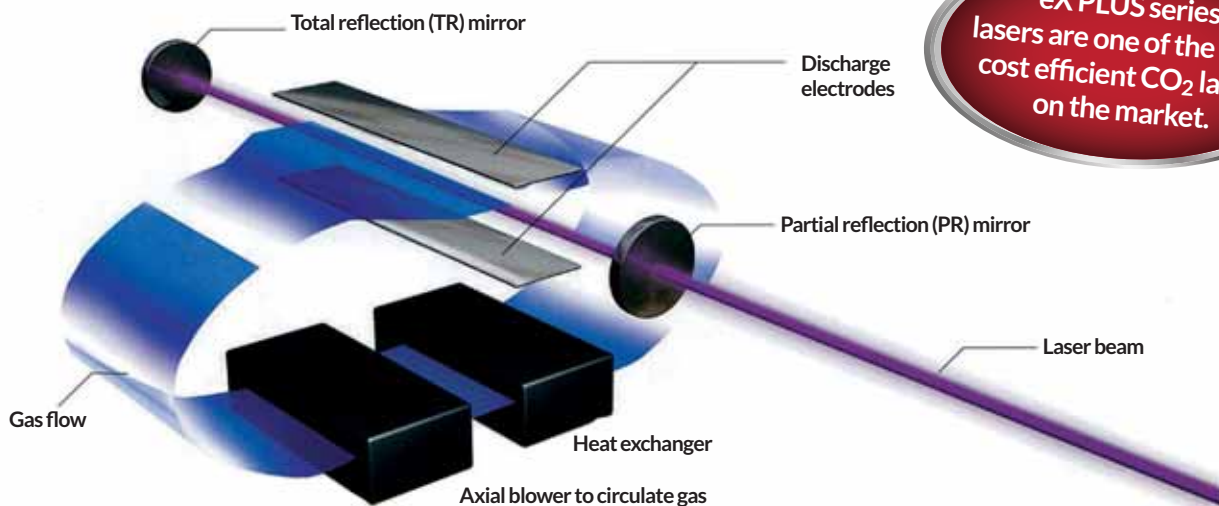


Thick Plate

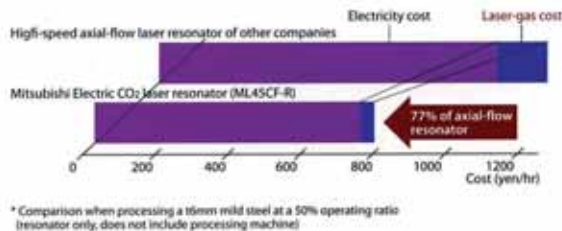
Mitsubishi 3-Axis Cross Flow Resonator

Mitsubishi's Technology is Driving Class Leading Reliability and Precision

Mitsubishi Electric's 3-axis cross flow resonator enhances the performance, stability and reliability of what was already one of the leading CO₂ resonators in the world.

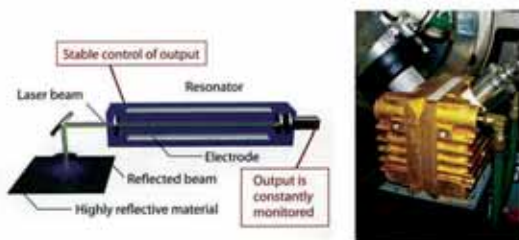


**eX PLUS series
lasers are one of the most
cost efficient CO₂ lasers
on the market.**



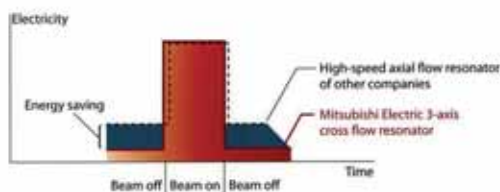
Gas-sealed resonator

The seal-off operation reduces gas consumption to only about four gas cylinders per year (operating 250 days per year). Allows 24 beam on hours at rated power between gas changes. Significantly reduces operating cost and eliminates the need to change gas cylinders on a frequent basis.



High-speed power sensor

Mitsubishi's high-speed power sensor, which comes standard on the eX PLUS, monitors the laser output in real time. Maintains an output true to the desired setting with a power variation less than $\pm 1\%$. Allows processing of highly reflective materials such as aluminum and copper.



Just-On-Time discharge method

The Just-on-time discharge method significantly reduces power consumption when the beam is turned off.

**Mitsubishi Laser Cutting Systems in full production available
for inspection in Australia and New Zealand***

*Conditions apply

SHEETMETAL

Mitsubishi Laser ML3015SR-32XP CO₂ Laser Cutting System



Extensive machine
training included at
your premises with all
Mitsubishi laser sales

Superior cost performance for
material up to 22mm

The Mitsubishi Laser ML3015SR-32XP features a new high-beam convergence resonator which gives improved productivity and greatly reduces running costs.

This next generation machine features e-cutting and e-processing modes to allow for less experienced operators to control the machine safely and efficiently. The SR-32XP series comes standard with automatic pallet changer. Optional automation upgrades include tower stacker systems and multiple pallet change units.



KEY FEATURES

- Thin plate cutting time reduced by up to 20%
- Reduction in running costs of up to 14%
- Automatic pallet changer included as standard
- Next generation cross-flow resonator
- Interrupt processing and quick turnaround with easy nesting function

Call for a complete information pack
on the Mitsubishi SR-32XP series laser,
including demonstration videos.

Model name		ML3015SR-32XP Edition
Movement system		Flying optic
Target workpiece dimensions (mm)		3,050 x 1,525
Workpiece weight (kg)		950
Table pass height (mm)		880
Stroke	X axis (mm)	3,100
	Y axis (mm)	1,565
	Z axis (mm)	150
Rapid feed rate	X,Y axis (mm/min)	100
	Z axis (mm/min)	65
Maximum processing feed rate (m/min)		50
Positioning accuracy	X,Y axis (mm)	0.05/500
	Z axis (mm)	0.1/100
Repeatability accuracy		±0.01
Processing head		Autofocus preset method
Resonator output power (peak pulse power) (W)		3,200
Chiller		LCU15AIX (Air-Cooled)

Mitsubishi Laser ML6030XL Large Capacity CO₂ Laser Cutting System



Featuring all of the advantages of a larger processing area, whilst maintaining the accuracy of a smaller capacity machine, the ML6030XL is the perfect machine for large, and extra-large sized workpieces.

With laser processing, it's important to strike a balance between high productivity, high performance and low cost. The Mitsubishi Laser ML6030XL strikes this balance perfectly. The large scale processing capacity, combined with accurate cutting and extremely low running costs makes this machine perfectly suited for a diverse range of large scale, precise and high-speed cutting jobs. As with all new Mitsubishi lasers, the ML6030XL utilises a next-generator cross flow resonator, further information on these resonators can be found on page 29.



NC control System
Equipped with a 64-bit CPU, 20GB hard drive and large 15-inch TFT touch panel for easier operation

KEY FEATURES

- Wide stroke – 6600mm x 3200mm
- Processing performance beyond expectations – High speed, high precision and support for an extended range of workpiece thicknesses
- Long strokes improve productivity
- Excellent operability



Easy-to-operate barcode reader
The simplest and convenient process only requires two actions. Networks with CAD/CAM systems support on-site processing.

Please contact us for a complete brochure on the ML6030XL Laser from Mitsubishi

SHEETMETAL

Pro-Plas CNC Plasma Cutting Systems



HVAC package
available including
specialised cutting head
and extended drawings
library

KEY FEATURES

Work Table & Gantry

- 1500 x 3000, 2000 x 4000 or 2000 x 6000 sheet capacity (other sizes available)
- Dual rack and pinion drives
- 10,000mm/min rapid travel
- 50-8,000mm/min cutting speed
- 200mm z-axis travel
- 300mm inbuilt dust extraction fan
- Hiwin linear guides (Taiwan)
- Roller balls to assist with material loading and unloading

Plasma Source & Cutting Capacity

- Hypertherm Powermax plasma source. The world standard in plasma cutting technology
- 65A, 85A, 105A and 125A options available with pierce and cutting up to 44mm mild steel

Cutting Head

- Hypertherm cutting torch
- 45 degrees right and left tilt
- THC height sensor (Torch Height Control)

CNC Software

- Fastcam Professional (Auto-Nesting)
- Fontgen module (for simple alpha-numeric character programming)
- Save drawings to USB
- All popular DXF and DWG files supported

CNC Control

- Starfire CNC
- 10" LCD colour display
- Full function keyboard for easy editing and programming
- USB input
- Mobile console
- Independent THC controller
- Template library for quick and easy cutting of standard shapes / angles
- Real-time cutting path



1500 x 3000mm sheet capacity



2000 x 4000mm sheet capacity



2000 x 6000mm sheet capacity

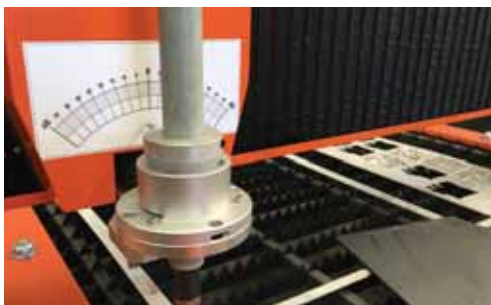
Pro-Plas CNC Plasma Cutting Systems



Industrial quality gantry, bellows and tracks.



Accurate, repeatable cutting. Fontgen Fastcam Module for quick and easy alpha-numeric character programming



Heavy duty torch holder with +/- 45° tilt



Starfire CNC System with 10 inch colour LCD display and real-time cutting path



Clean, consistent cutting across thick material



Optional Broadbent 15CFM compressor (\$2,100 + GST) and dryer (\$1,150 + GST)

All Pro-Plas CNC plasma cutting systems include a **Hypertherm Powermax** plasma source. Hypertherm are the industry standard in plasma cutting technology so you know you are investing in a tried and tested system that won't let you down. We will match the capacity of the plasma source to your needs and your budget.

Hypertherm®
The world leader in plasma cutting technology



All Pro-Plas CNC plasma cutting systems include **Fastcam® Professional** software. Fastcam is a world leading in profiling software and with the professional package, auto-nesting function is included to allow you to save time and maximise value from every sheet that you cut. Also included is the **Fastcam FONTGEN** module to allow for quick and efficient programming of alpha-numeric characters into your jobs.

FastCAM®
The World Standard in Profiling Software

SHEETMETAL

APW Waterjet



APW manufacturer premium waterjet cutting systems that are sold all across the world, the latest APW series are available with many intelligent options that put them ahead of the competition.

Dual Core Waterjet

APW waterjets are available with twin intensifier systems. Allowing for uninterrupted operation during scheduled servicing and maintenance. When one intensifier is off-line, the second intensifier comes into operation and provides our customers with the absolute maximum uptime and efficiency. Premium components include Siemens motors, Rexroth hydraulic pumps and A&V intensifiers from the USA.

Smart Software

APW's professional waterjet CNC software automatically generates DXF files on import. There is no need to define working conditions in the DXF, saving valuable time and money. Also, smart speed adjustment on curve cutting allows for consistent, accurate performance across the entire part.

KEY FEATURES

- A&V ultra high pressure intensifiers (USA)
- Stainless steel tanks
- Anti-collision sensing for added protection
- 5 axis machine configurations are available
- Optional full stainless steel machine casing for improved longevity
- One way value on the garnet delivery system for maximum efficiency.



APW cutting head



Stainless Steel Intensifier

APW Waterjet



Automatic Garnet Delivery System



Fine Adjust of Garnet Delivery



Fine adjustment of the cutting head angle to allow for tapering of the jet



A&V Intensifier from the USA

Specification	Model						
	404BA	1520BA	2030BA	2040BA	3060BA	40120BA	40200BA
X-Axis Travel	1219.2mm	1500mm	2000mm	2000mm	3000mm	4000mm	4000mm
Y-Axis Travel	1219.2mm	2000mm	3000mm	4000mm	6000mm	12000mm	20000mm
Z-Axis Travel	100mm	150mm	150mm	150mm	150mm	150mm	150mm
Load Capacity	500kg/sqm						
Control Accuracy	0.01mm						
Positioning Accuracy	+/-0.016mm/1000mm						
Repeatability	+/-0.01mm/1000mm						
Rapid Traverse	X-Axis 6000mm/min, Y-Axis 6000mm/min, Z-Axis 1000mm/min						

Yawei PBH Series CNC Synchronised Pressbrakes



Yawei PBH series CNC synchronised pressbrakes are one of Australia's leading CNC pressbrake. Over the course of our 10+ year partnership with Yawei, we have over 200 machines sold and installed across the country. Customer references will be available in your area if you'd like to get in touch with other Yawei customers for extra peace of mind.

All PBH pressbrakes come with Y1 (LH ram), Y2 (RH ram), X (backgauge position), R (backgauge height) and integrated CNC controlled hydraulic crowning system (5 CNC axis). DA66T (Touch) control is also standard; featuring a colour 3D display and a Windows® based environment.

Machines come with free running front sheet supports and 4 free running rear backgauge fingers.

Lazersafe light guards are fitted, as are physical side and rear safety fences.

Rolleri (Italian) tool is standard across the PBH range (Amada/Promecam style) and machines are fitted with quick clamps with adjustable wedges for fast and efficient tool changes. Conventional wide table and multi-vee die block are available on request.

Backgauge movement is rapid and precise, moving on ball screws and linear bearings mounted to the side frames.

The DA66T (Touch), coupled with Hoerbiger hydraulic system gives rapid, accurate and consistent bends.

The integrated CNC crowing compensation system automatically adjusts bottom beam camber to suit the job, taking into account the material length, thickness, tensile strength and tooling specifics. The pressbrake automatically adjusts its camber for each bend; giving accurate bends along the entire length of the job.

KEY FEATURES

- Fully annealed frame that is machined in one piece
- 3 piece sandwich construction of the lower beam incorporating hydraulic crowning
- Countless options available from CNC controlled front sheet supports to hydraulic upper and lower tool clamping
- Popular options are Z1, Z2 (fingers left & right) on the 7 axis machine, and +/-X1 on the 8 axis machine.
- Hoerbiger hydraulics – Germany
- Heidenhain linear scales – Germany
- Sumitomo pump – Japan
- Delem DA66T control – Netherlands
- Panasonic servo drive and motors
- Full set of Rolleri (Italian) top and bottom tooling.

Yawei PBH Series Specifications



All linear rails and slides are premium THK units



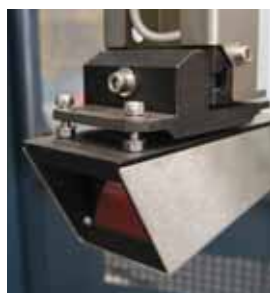
Hoerbiger hydraulics from Germany (complete assembly)



Siemens & Telemecanique electrics



CNC front sheet supports (optional)



Lasersafe beam guarding (Australia) as standard



All PBH Series Pressbrakes are fitted with Roller tooling as standard



DA66T (Touch) controller with offline software available (2D and 3D optional)



Premium fixed side and rear guarding (interlocked)

Yawei PBH Series CNC Synchronised Pressbrake Specifications

Model	Bending Force	Maximum Bending Length	Distance Between Frames	Throat Depth	Ram Stroke	Open Height	Motor Power	Machine Size (L x W x H)	Machine Weight
	kN	mm	mm	mm	mm	mm	kW	mm	kg
PBH 80-2550	800	2550	2150	350	175	480	7.5	3140 x 1540 x 2240	6800
PBH 110-3100	1100	3100	2600	410	215	520	11	3590 x 1540 x 2530	9800
PBH 160-3100	1600	3100	2600	410	215	520	15	3610 x 1600 x 2590	11900
PBH 160-4100	1600	4100	3600	410	215	520	15	4610 x 1600 x 2590	15000
PBH 250-3100	2500	3100	2600	410	215	530	18.5	3630 x 1830 x 2630	15100
PBH 250-4100	2500	4100	3600	410	215	530	18.5	4630 x 1830 x 1730	18200
PBH 300-3100	3000	3100	2600	410	265	580	22	3600 x 1950 x 2750	20500
PBH 300-4100	3000	4100	3600	410	265	580	22	4600 x 1950 x 3000	24400

Larger capacity machines are available to suit the most demanding of bending applications

SHEETMETAL

Yawei PBE Series Servo Drive CNC Synchronised Pressbrakes



Machtech Yawei Synchro PBE series servo CNC pressbrakes are an energy efficient, servo driven, compact machine suited for light weight, precision bending.

Standard 4 axis CNC control of Y1, Y2, X, R, with upgrade options to CNC 6 & 7 axis.

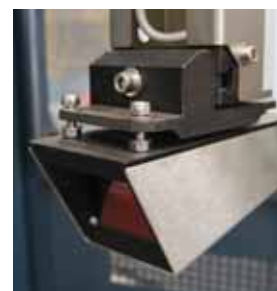
The PBE CNC pressbrake has a streamlined design and features high speed, high precision performance. AC servomotor driven ram movement results in considerable power savings when compared to any typical hydraulic machine. Also, servo pressbrakes run much quieter than hydraulic pressbrakes.

Phone 03 9706 8066 to further discuss how a Machtech Yawei Synchro PBE series pressbrake could make a valuable addition to your current production capabilities.



KEY FEATURES

- Integrated Delem DA-52S CNC control
- Independent 4 axis CNC for precision control of your job. (6 or 7 axis CNC upgrade available)
- $\pm 0.005\text{mm}$ re-positioning accuracy of top beam
- Segmented top tooling with quick clamps, along with a 2V quick change die block
- Lazersafe front light guards, along with side and rear physical guards with safety interlock
- Mechanical crowning on worktable and frame deformation compensation on throat to ensure precision bending each and every time. (Manual or CNC controlled)
- General: Heidenhain linear scales, Hoerbiger hydraulics, Sumitomo oil pump world class componentry



Lazersafe beam guarding (Australia) as standard

Model	Bending Force	Maximum Bending Length	Distance Between Frames	Ram Stroke	Open Height	X-axis Stroke	R-axis Stroke	Motor Power	Machine Size (L x W x H)	Machine Weight
	kN	mm	mm	mm	mm	mm	mm	kW	mm	kg
PBE 30-1250	300	1250	1320	150	385	450	130	2 x 4.0	1700 x 1300 x 2200	3000
PBE 50-2050	500	2050	2120	190	405	450	180	2 x 6.8	2950 x 1520 x 2480	6000

Yawei PBH Series Large Capacity CNC Synchronised Pressbrakes

Applied Machinery has installed some of the largest pressbrake in the region. With numerous Yawei heavy duty pressbrakes over 1000 ton capacity installed across Australia and New Zealand.

Yawei PBH series large capacity CNC synchronised pressbrakes are fitted with Delem DA-52S CNC control as standard, though most customers to choose an upgrade to Delem DA-66T for the touch screen and visualisation capabilities. Pressbrakes over 630 ton capacity, or 8200mm in working length are fitted with an over-engineered heavy duty backgauge to ensure absolute precision is maintained during even the most demanding of bending applications.



Proven performance in the most demanding of production environments.

KEY FEATURES

- Your choice of Delem or Cybelec CNC controllers
- Precision bending even with the toughest of materials
- Over-engineered heavy duty backgauges ensure reliable, consistent performance
- CNC controlled hydraulic crowning compensation
- Tandem synchronising available
- From Yawei, one of the world's largest manufacturers of pressbrake technology and Applied Machinery's premier partner for over 10 years.



Machtech WPB Series Pressbrakes



Machtech WPB series pressbrakes are manufactured to the highest standards to ensure accuracy and longevity.

The beams have both camber and Y-axis mechanical adjustments, and all joints are mig welded and exposed. Frames are fully annealed before machining. Inspection of the build quality, along with a live demonstration will impress.

KEY FEATURES

- Quality quick clamp system with safety groove
- Top & bottom Euro-style tooling
- Backgauge fingers with R-axis adjustment
- Backgauge rails on side frames for more clearance
- Lazersafe guarding standard (Australian) (or Lantech Type 4 light curtains)
- Side and rear interlock safety guards
- Delem DA-41 NC control
- Quality pipes and joints
- Backgauge fingers move freely on a linear guide



Delem DA-41 NC Control



High quality welding and premium build quality



Easy adjust micro backgauge fingers, free moving on linear guides



Adjustable jacking screws for beam camber



optional mechanical crowning table

Model	Bending Force	Bending Length	Between frames	Throat Depth	Ram Stroke	Open Height	Motor
	ton	mm	mm	mm	mm	mm	kW
WPB 100-2500	100	2500	2000	350	150	400	7.5
WPB 125-3200	125	3200	2600	350	150	410	7.5
WPB 160-4000	160	4000	3200	350	190	450	11
WPB 200-4000	200	4000	3200	350	190	460	11

Machtech Compact Series Pressbrakes

The Machtech Compact series pressbrakes are a space saving, high performance machine suited for all production shops and general fabrication facilities.

All Machtech Compact series pressbrakes feature an integrated Delem DA-52 NC control, equipped with a user-friendly interface and hotkey navigation, in addition to USB port enabling quick and easy memory stick backup of all product and tooling information. In addition, the y-axis limit and mute point are controlled by the Delem DA-52 as well.

KEY FEATURES

- Compact, space saving design
- CNC control housed inside the front beam to reduce space requirements and improve ergonomics for operators.
- Delem DA-52 CNC control system
- R axis
- Nuova light guards
- Complete set of top and bottom tooling.



Rear safety fence with interlock



Nuova light guards and complete set of tooling



Backgauge with R Axis

Machtech Compact 20 Series Specifications		
Bending force	ton	20
Length of working table	mm	1000
Throat depth	mm	100
Slide stroke	mm	150
Maximum open height	mm	300
Main motor	kW	2.2
Machine length	mm	1740
Machine width	mm	1170
Machine height	mm	1950
Machine weight	kg	2100

Metalmax APB Series Pressbrakes



Metalmax APB Metalmax APB series pressbrakes feature an Estun E10-D pendant mounted controller for power backgauge positioning and depth.

Mechanically synchronised and positive stop nuts give accurate and repeatable bends. APB series machines also have a servo driven ballscrew backgauge with 4 fingers as standard and come complete with a full set of top and bottom tooling.



Servo Driven Ballscrew Backgauge



Estun E21 Controller



Euro Table

Model	Bending Force	Maximum Bending Length	Distance Between Frames	Throat Depth	Ram Stroke	Open Height	Motor Power
	kN	mm	mm	mm	mm	mm	kW
APB 40-1600	400	1600	1200	250	100	320	4
APB 63-2000	630	2000	1500	250	100	320	5.5
APB 80-2500	800	2500	2000	320	120	380	7.5
APB 125-3200	1250	3200	2500	320	120	400	7.5
APB 160-4000	1600	4000	3000	320	180	450	11
APB 200-4000	2000	4000	3000	320	200	470	15

Estun Robots

The 6-axis ER series articulated robots from Estun Automation are a leader in robotic systems. With a strong emphasis on R&D, Estun is committed to continued product development to cater for the changing automation needs of not only the manufacturing industry, but also materials handling, spraying and assembly.

Estun are also able to deliver custom-designed automation solutions to suit the most challenging and complex customer requirements. Please do not hesitate to get in touch to discuss how robotic automation could improve your business' output, efficiency, and the safety of your workers.



Bending

Based on years of experience with sheemetal processing, Estun has developed intelligent bending software to provide maximum performance, whilst eliminating problems caused by increased plate acceleration during the bending process, without the requirements for robot teaching.



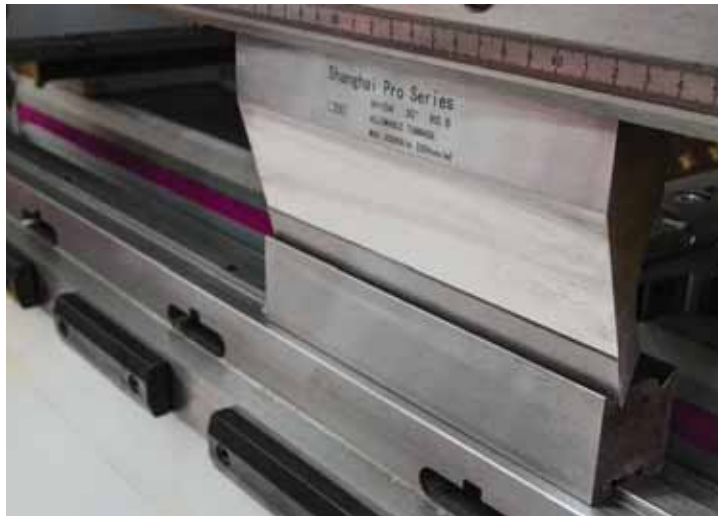
Teach Pendant

- User friendly design, with low weight and comfortable operation
- User friendly UI
- Optional size for choice
- Dual safety button for operation safety
- On-board USB port for file import and export



Specification ER6-1600		Model						
		ER6-1600	ER16-1600	ER30-1900	ER50-2100	ER100-3200	ER170-2605	ER220-2605
Maximum load (kg)		6	16	30	50	100	170	220
Maximum horizontal reach (mm)		1600	1600	1900	2100	3215	2600	2600
Repeat accuracy (mm)		+/-0.08	+/-0.1	+/-0.1	+/-0.15	+/-0.2	+/-0.2	+/-0.2
Protection Class		IP65	IP65	IP65	IP65	IP65	IP65	IP65
Joint motion range	Axis 1	+/-180°	+/-180°	+/-180°	+/-180°	+/-180°	+/-180°	+/-180°
	Axis 2	-60° - +140°	-60° - +140°	-60° - +140°	-80° - +160°	-55° - +80°	-55° - +80°	-55° - +80°
	Axis 3	-155° - +80°	-170° - +80°	-165° - +80°	-170° - +80°	-195° - +80°	-195° - +80°	-195° - +80°
	Axis 4	+/-170°	+/-360°	+/-360°	+/-360°	+/-170°	+/-360°	+/-360°
	Axis 5	+/-180°	-120° - +135°	+/-130°	+/-135°	+/-120°	+/-125°	+/-120°
	Axis 6	+/-360°	+/-360°	+/-360°	+/-360°	+/-360°	+/-360°	+/-360°
Joint maximum speed	Axis 1	145°/s	145°/s	140°/s	93°/s	85°/s	85°/s	85°/s
	Axis 2	105°/s	105°/s	130°/s	89°/s	80°/s	80°/s	70°/s
	Axis 3	170°/s	170°/s	140°/s	115°/s	89°/s	89°/s	82°/s
	Axis 4	440°/s	320°/s	240°/s	149°/s	120°/s	114°/s	114°/s
	Axis 5	435°/s	320°/s	310°/s	130°/s	120°/s	110°/s	75°/s
	Axis 6	520°/s	450°/s	285°/s	170°/s	200°/s	153°/s	164°/s
Weight (kg)		164	170	290	600	1500	1375	1400
Attachment		Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling	Floor/Ceiling

Shanghai Pro Pressbrake Tooling



To ensure our customers can fully utilise the capabilities of their pressbrakes, we offer a wide selection of new Shanghai Pro tooling to complement our extensive range of new and used pressbrakes.

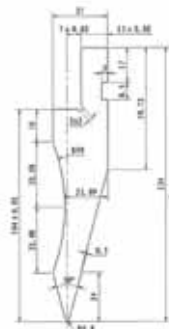
In addition to our general purpose tooling in stock, we also supply specialised tooling for door frame manufacturers, wet benches, hemming, catering tooling applications, stainless steel and heavy plate.

We have tooling to suit your machine, regardless of brand and age. Please do not hesitate to contact us further information.

**Extensive range
in stock for quick
delivery**



28 degree punch



30 degree punch



8mm pillar die



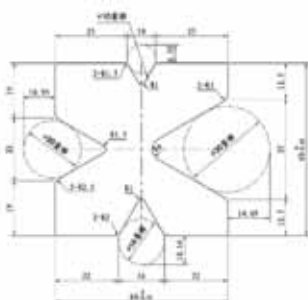
12mm pillar die



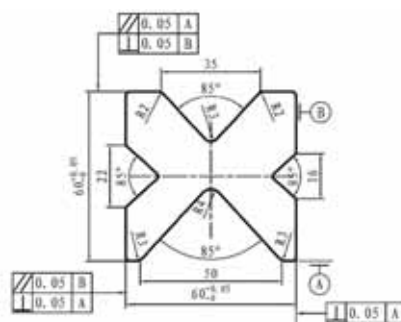
16mm pillar die



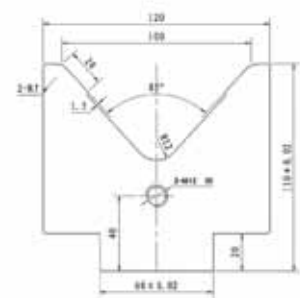
25mm pillar die



10-16-22-35 4V Die



16-22-35-50 4V Die

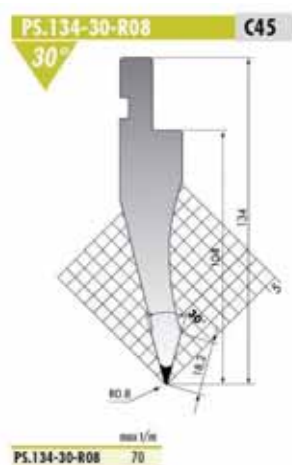


100mm 1V Die

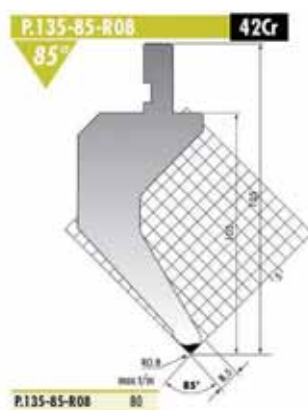
Rolleri Premium Pressbrake Tooling



In addition to the Rolleri tools that we supply with our Yawei pressbrakes, we also stock a selection of Rolleri tooling to suit a wide range of bending applications. Standard profiles include pillar dies and standard and gooseneck punches in 30°, 30°, 85° & 88°.



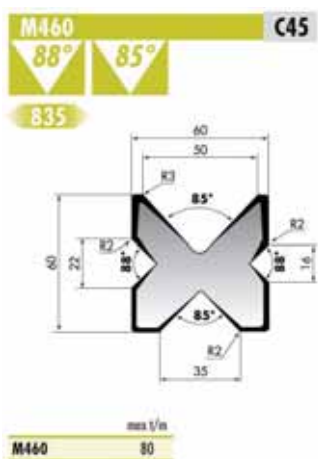
30 degree punch



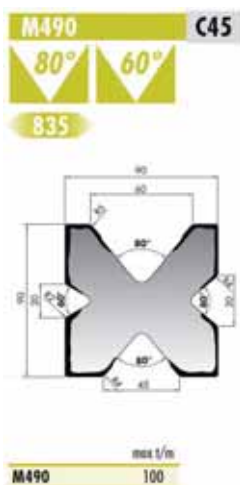
85 degree gooseneck punch



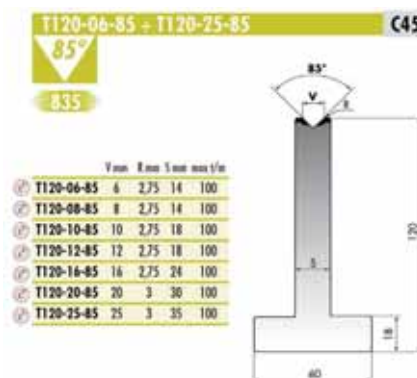
85 degree punch



16-22-35-50mm 4V Die



20-30-45-60mm 4V Die



80mm & 120mm pillar dies
More sizes are available
to suit your needs

SHEETMETAL

Pressbrake Controls

Choosing the right controller with your pressbrake is nearly as important as pressbrake itself. Find the perfect level of features and capabilities to match you needs, or simply choose a controller to match your existing machines and operator skills for a seamless transition into a new machine on your workshop floor.

With numerous options including 2D and 3D visualisations and programming, along with the latest in controller touch screen technology, we will ensure that you get the best controller to suit your needs.

We offer all of the big brands including Delem, Cybelec, Estun, ESA and more.

USB interface
and offline
programming software
available

DELEM



Delem DA-66T



Delem DA-56



Delem DA-52S



Delem DA-41

ESTUN



Estun E10



Estun E10-D



Estun E20



Estun E200

CYBELEC



Cybelec Modeva 10S



Cybelec DNC60

USED CONTROLS

Service & Support

Over the years we have sold countless quality used pressbrakes into Australian businesses. To fully support these sales, our team of expert service technicians are trained in most common pressbrake controls that have been fitted on machines over the last 20-30 years.



Delem DA24e



Delem DA65



Delem DM51



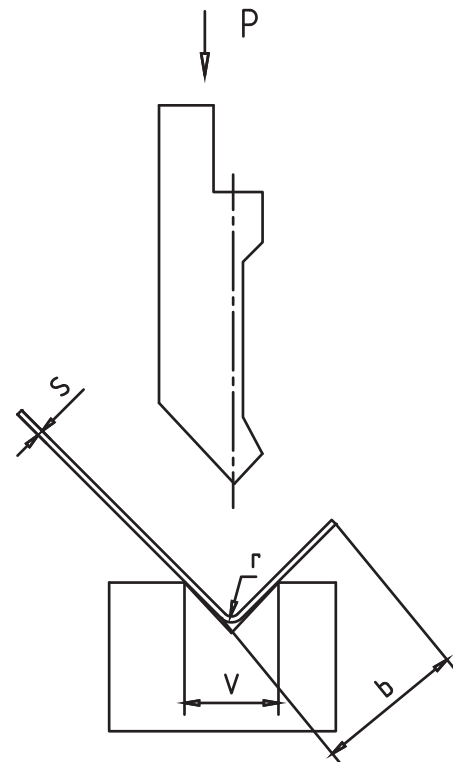
Hurco Autobend IV



Promecam EMA

Pressbrake bending chart

Please see the table below for a quick reference as to the force required to bend your specific job (mild steel) taking into account material thickness, inside radius of the formed part, vee-die opening and the minimum flange.



Force chart for air-bending

V	4.0	6.0	8.0	10	12	14	16	18	20	24	28	32	36	40	48	64	80	100	120
b	2.8	4.0	5.5	7.0	8.5	10	11	12.5	14	17	20	22	25	28	32	42	56	70	85
r	0.7	1.0	1.3	1.6	2.0	2.3	2.6	3.0	3.3	3.8	4.5	5.0	6.0	6.5	8.0	10	13	16	19
S	0.5	40	30																P KN/m
	0.6	60	40	30	30														
	0.8		70	50	40	30													
	1.0		110	80	70	60													
	1.2			120	100	80	70	60											
	1.5				150	120	110	90	80										
	2.0					220	190	170	150	130	110								
	2.5							250	220	200	170	150	130						
	3.0								330	290	250	210	180	160					
	3.5									400	330	290	250	220	200				
	4.0										440	370	330	290	260	220			
	4.5											470	410	370	330	270			
	5.0												510	450	400	340	255		
	6.0														590	490	370	300	
	8.0																650	520	420
	10																	810	650
	12																		950
	14																		1100

SHEETMETAL

Yawei HPE Series Servo Driven CNC Turret Punch Presses

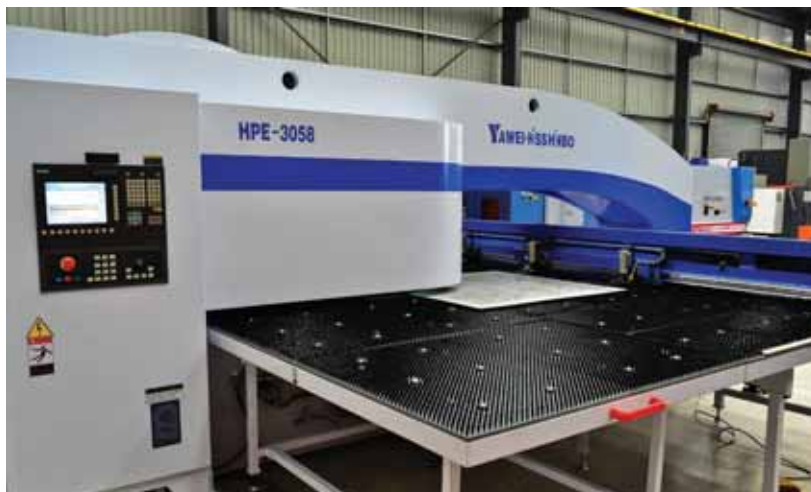
Huge savings
in power
consumption



The HPE series of servo driven CNC turret punch press is the premium range of turret punch presses from Yawei and Applied Machinery.

The HPE series incorporates the latest in CNC punching technology, utilising servo driven punching units from Germany (LUSTSP). The HPE series are fast, quiet and extremely power efficient. They are suited to high production working environments. Available in 3044, 3048 and 3058 configurations with 30 ton punching

capacities and either a 4' x 4', 4' x 8', or 5' x 8' axis travel respectively. We can provide a power usage comparison with your current machines, so you can see for yourself all of the power savings that you will be making. Please call our sales team on 03 9706 8066 to further discuss these power saving, servo driven machines.



KEY FEATURES

- LUSTSP servo punching system (Germany)
- Siemens 840D sl CNC control system
- 38 station turret with 2 auto index (B) (other turret configurations available)
- Auto x position
- 3 moveable pneumatic clamps
- Brush table
- Strip away detection
- Automatic lubrication system
- 1500spm

Yawei HPE Series Servo Driven CNC Turret Punch Presses



Siemens 840D sl CNC Control



Optional Ketec Tooling Package



Optional Brush & Ball Table Upgrade

COMMON OPTIONAL EXTRAS

- Metalix CAD software with automatic nesting function
- Air blow oil mist system
- Multitool device
- Programmable movable clamps
- Stainless tables with balls for heavier sheets
- Leuze light guard system
- 40 station turret with 2 auto index (D)
- 38 station turret with 2 auto index (D) and 1 fixed E station
- **Automation systems to suit the most demanding of applications**



Optional Turret Upgrade to 40 station with 2 auto index (D)

MODEL	UNIT	HPE-3044	HPE-3048	HPE-3058
Nominal pressure	kN	300	300	300
Maximum sheet size (including 1 reposition)	mm	1250 x 2500	1250 x 5000	1500 x 5000
Maximum sheet thickness (mild steel)	mm	6.35	6.35	6.35
Maximum sheet thickness (stainless steel)	mm	4	4	4
Maximum single punch diameter	mm	88.9	88.9	88.9
Turret configuration (standard)		38 station / 2 auto index (B)		
Punching accuracy	mm	+/-0.1	+/-0.1	+/-0.1
Punching times per minute	hpm	1500	1500	1500
Maximum punching frequency (1mm step/4mm stroke)	hpm	680	680	680
Maximum punching frequency (24.4mm step/4mm stroke)	hpm	400	400	400
Maximum sheet moving speed	m/min	102	102	102
Turret speed	rpm	30	30	30
Working integrated power	kW/h	5.1	5.1	5.1
Standby power	kW/h	0.9	0.9	0.9
Axes of control		5 (X, Y, Z, T, C)		
Air pressure	Mpa	0.6	0.6	0.6
Dimensions (LxWxH)	mm	5600x2300x2200	5330x5000x2250	5830x5000x2250
Machine weight	kg	15000	16000	19000

SHEETMETAL

Yawei HPI Series CNC Turret Punch Presses



Yawei CNC turret punch presses offer the latest in CNC punch press technology.

Featuring premium Siemens (840D), or Fanuc (Oi-PC) CNC controls, Yawei Turret Punch Presses are capable of fabricating the most complex of jobs.

Featuring: brush table, H&L hydraulic ram head (Germany), automatic clamp sensors, automatic centralised lubrication, die disengagement sensor, rapid lower die changing systems as well as Metalix CNC CAD software with nesting function (optional), the Yawei HPI series of CNC turret punch presses are feature packed, high production, high speed, reliable and accurate machines. Combine this with class leading value for money and a Yawei turret

punch press quickly becomes an extremely valuable proposition for your organisation. This is just a brief outline of the long list of standard inclusions and features of our Yawei Turret Punch Presses. Please do not hesitate to contact us for further information and to discuss how a Yawei CNC turret punch press could make a valuable addition to your production capacity. Call us on 03 9706 8066.

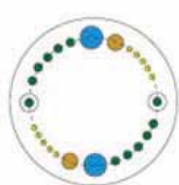
KEY FEATURES

- Rigid bridge frame design
- H&L hydraulic system (Germany)
- Automatic clamp sensors
- Die disengagement sensors
- Rapid lower die changing system
- Automatic centralised lubrication
- Sleeveable, thick turret tool system (26stn/2Al, 30stn/6Al, 36st/2Al, 38stn/2Al, 40stn/2Al)
- Siemens or Fanuc CNC control systems
- Metalix CNC CAD software with auto nesting (Optional)
- Brush or ball table

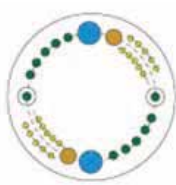


Yawei HPI Series CNC Turret Punch Presses

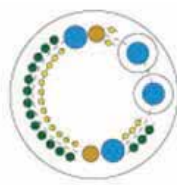
Turret configuration diagrams



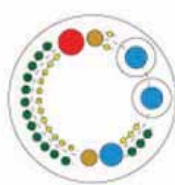
26 stations
2 auto index (B)



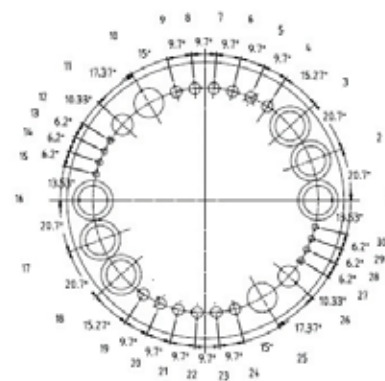
36 stations
2 auto index (B)



40 stations
2 auto index (D)



38 stations
2 auto index (D)



30 stations
6 auto index (D)

KEY FEATURES & INCLUSIONS

This is just a brief outline of the long list of standard inclusions and features of our Yawei Turret Punch Presses. Please do not hesitate to contact us for further information and to discuss how one of these Yawei turret punch presses could make a valuable addition your production capabilities.



H&L hydraulic ram head



Sheet monitoring device



Premium turret with up to 6 auto
index stations



Rapid lower die changing
system



Heavy duty automatic clamping
system



Hardened die bush. Amada style
thick turret



Siemens 840D CNC controls
(Fanuc optional)

Delta LB300 Punch and Die Grinders

KEY FEATURES

- 175mm diameter wheel
- Coolant system
- CE conformity certificate
- 140 x 300mm maximum grindable surface
- 300mm between column and wheel axis
- Rapid and micro adjustment wheels
- 3HP at wheel
- Wheel speed 2840rpm
- 400kg machine weight
- \$10,900 + GST



Machtech Punch and Die Grinder

The Machtech Punch and die grinder is suited to all brands of thick and thin turret punch tooling. This is a fast and efficient grinder which is easy to use. Sharp tools allow for more efficient punching and a better finished product.



MODEL	MD 380
TABLE SIZE	380mm x 180mm Fixed
MAX TOOL HEIGHT	280mm
VERTICAL INCREMENTS	0.01mm
WHEEL SIZE	200mm x 78mm x 78mm
RPM	2,800
MOTOR	4HP
DIMENSIONS	1250mm x 950mm x 1800mm
WEIGHT	600kg
PRICE	\$7,450+GST

Ketec Precision Turret Punch Press Tooling

Tooling in stock at Applied and on express delivery from Ketec.



Premium punch bodies, punch guides, punch assemblies, set assemblies, stripper plates, in all sizes and configurations. If the tool you require is not on the shelf, we have exceptionally fast delivery to get you working as soon as possible. We can put together tooling package to suit most budgets. Call now to discuss your current and upcoming tooling requirements.



ALL STYLES AVAILABLE

Thick Turret, Thin Turret, Trumpf, Wiedemann, Salvagnini & Multi-Tool

KETEC®



Top80 Series



Top90 Series



KU Tooling Ultra Type



Top85, Top90 Guide Assembly C/D Station (press button adjustment)

Machtech Manual Panbrake Folders

Available in 4' and 8' sizes, Machtech manual panbrake folders are a reliable general purpose folder for basic bending tasks. Digital readouts for angle readings are fitted as standard across the MPF range.

KEY FEATURES

- Extended clamp length
- Digital readout for angle
- Counterweight assistance
- Adjustable clamp pressure
- Adjustable clearances
- Greasable pivot points



Rear backgauge



Digital Readout



Extra long clamps. 60 x 75mm solid steel



Open height support lever

MODEL	MPF 2-1250 DRO	MPF 2-2440 DRO
BENDING LENGTH	1250mm	2440mm
CAPACITY (MS)	2mm	2mm
DIGITAL READOUT	✓	✓
PRICE	\$2,950+GST	\$5,450+GST

Machtech Semi Hydraulic Panbrake Folders



Machtech semi hydraulic pan brake folders are an affordable solution to upgrade from a labour-intensive manual folder. The clamping system is hand operated, however the machine employs hydraulics to do the folding. The mobile control unit has a digital display to enter the desired angle. The machine can then be operated in manual or automatic modes. Both the clamping and folding aprons have adjustability to set clearances for different sheet thicknesses. The controls are on the roving foot pedestal so that the operator can move them to where he is working and keep both hands on the job.

MODEL	SHF 2-2500
FOLDING LENGTH	2500mm
MAX THICKNESS	2mm
MAX BENDING ANGLE	145°
MOTOR POWER	4kW/5.5HP
WEIGHT	1800kg
DIMENSIONS	3050 x 850 x 1550mm
PRICE	\$9,800+GST

KEY FEATURES

- Hydraulic bending
- NC angle setting
- Extra long clamps (60 x 75mm solid steel)
- Adjustment in clamp & apron to set clearances
- Auto & manual modes



Rear backgauge



Extra long clamps. 60 x 75mm solid steel



Front safety light



Digital display and control unit

SHEETMETAL

Machtech Fully Hydraulic Panbrake Folders



KEY FEATURES

- Hardened & ground fingers
- Banner NC controller (pictured)
- NC angle setting
- Manual and automatic modes
- Torsion bar crowning



Banner NC controller



Adjustable Angle Setting



Compact hydraulic power pack
and full backgauge

MODEL	HPF-2503NC	HPF-2505NC	HPF-3203NC	HPF-4003NC
BENDING LENGTH	2500mm	2500mm	3200mm	4000mm
MATERIAL CAPACITY (MS)	3mm	5mm	3mm	3mm
MAXIMUM BENDING ANGLE	135°	120°	135°	135°
AUTOMATIC OPERATION	✓	✓	✓	✓
MOTOR POWER	4kW	4kW	4kW	5.5kW
PRICE	\$16,450+GST	\$18,950+GST	\$17,900+GST	POA

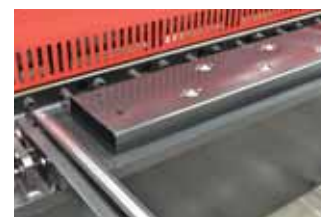
Metalmax Swing Beam Guillotines



Metalmax swing beam guillotines combine a rigid fabricated frame, Siemens electrics and Omega hydraulics package. Rapid blade gap setting allows the operator to ensure best possible cut edge, minimum stress on the machine and prolonged blade life. Blades are rotatable and safety light guards are standard. Estun E21-S digital readouts are also standard.

KEY FEATURES

- Electric swing away backgauge
- Shadow line
- Rapid blade gap adjustment
- Rotatable blades
- Rear safety lights
- Roving foot pedal
- Contoured finger guards
- Estun E21-S Digital Readout for backgauge position and job counter
- Individual hold down clamps
- Roller transfer table
- Front squaring arms



MODEL	SB 4-2500	SB 6-2500	SB 6-3200	SB 8-4000
MAXIMUM CUTTING LENGTH	2500mm	2500mm	3200mm	4000mm
MAXIMUM MATERIAL THICKNESS	4mm	6mm	6mm	8mm
STROKES PER MINUTE	22spm	16spm	12spm	10spm
BACKGAUGE RANGE	20-480mm	20-600mm	20-600mm	20-600mm
MOTOR POWER	5.5kW	7.5kW	7.5kW	11kW
FLOOR SPACE REQUIRED (L x W)	3100 x 1430mm	3150 x 1500mm	3850 x 1600mm	4680 x 1980mm
PRICE	\$15,500 + GST	\$19,800 + GST	\$22,800 + GST	\$32,300 + GST

Machtech VR Series Variable Rake Guillotines



Machtech VR guillotines are variable rake overdriven machines. This design offers a vertical travelling cutting beam supported by 3 pairs of rollers that ensure a smooth controlled movement. Most importantly the rake angle of the blade is adjustable by simply one press of a keylock button. Flattening out this angle allows the machine

to minimise distortion to the cut piece, particularly noticeable when cutting narrow strips. Blade gaps are set via a dial on the front of the machine and the backgauge range is electronically operated with an Estun E21S digital readout.

KEY FEATURES

- Heavy duty overdriven variable rake cutting beam
- Electric swing away backgauge
- Rapid blade gap adjustment
- 4 edge top and bottom blades
- Rear safety lights
- 250mm throat for slitting
- Shadow line
- Roving foot pedal
- Heavy duty roller ball transfer tables
- Squaring arms with measurement stops



Quality backgauge with pneumatic sheet support system



Rapid blade gap setting



Ball roller in-feed tables



Estun E21S digital readout

Yawei HGS Series CNC Variable Rake Guillotines



The HGS series of CNC Variable Rake Guillotines from Yawei are a high precision, heavy duty guillotine which is perfectly suited to the most demanding of applications.

These hydraulic guillotines feature a three wheel brake type structure to ensure smooth, consistent operation. They utilise world class componentry such as Rexroth (Germany) hydraulics and oil pumps from either Sumitomo (Japan) or Voith (Germany) depending on the capacity of the shear.

KEY FEATURES

- Choice of Estun E21S or Delem DAC360 CNC control depending on requirements
- Premium alloy blades
- 1200mm front squaring arms with scale
- Pneumatic sheet support system with positioning, or positioning and falling functions.
- Optional rear takeout device with polyurethane conveyor for maximum sheet protection.



Delem DA360 CNC controller



Rear takeout device with PU conveyor

Over 30 configurations are available to handle practically all cutting tasks

Model	Max Cutting Thickness mm	Max Cutting Length mm	Cutting Angle Degrees	Strokes Per Min. min-1	Backgauge Stroke mm	Motor Power kW	Weight kg
HGS 6-2500	6	2500	0.5°-2.0°	18	10-1000	7.5	5500
HGS 6-3050	6	3050	0.5°-2.0°	16	10-1000	7.5	6300
HGS 8-4050	8	4050	0.5°-2.0°	11	10-1000	15	10800
HGS 8-6100	8	6100	0.5°-2.0°	11	10-1000	22	22500
HGS 13-4050	13	4050	0.5°-2.5°	9	10-1000	30	15200
HGS 20-5000	20	5000	0.5°-2.5°	6	10-1000	55	44000
HGS 30-3050	30	3050	0.5°-3.5°	4	10-1000	55	33300

ENGINEERING

Brobo Coldsaws

Brobo cold saws are an Australian made product designed and manufactured for heavy duty industrial applications. The over - engineered gearbox components are hardened & ground and are shimmed to meet precision tolerances and clearances. These machines offer an extremely fast and accurate cut with a burr free milled finish. Brobo is a bullet proof solution to your cutting needs.

KEY FEATURES

- 2 year warranty
- Extremely tough & accurate
- Trigger handle
- 240V & 415V available



	S315D	S350D	S400B
BLADE DIAMETER	315mm	350mm	400mm
CAPACITY @ 90°	100 x 75mm	135 x 85mm	135 x 100mm
CAPACITY @ 45°	65 x 80mm	75 x 95mm	95 x 100mm
MOTOR	2.2kW	2.2kW	2.2kW
WEIGHT	220kg	220kg	225kg
STAND INCLUDED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PRICE	P.O.A	P.O.A	P.O.A

Machtech Optimum Series Bandsaws

The Machtech Optimum bandsaw range is developed by German company Optimum. An excellent quality, rigid casting ensures the bow moves with minimal deflection. It is supported by quality hydraulics under spring tension to ensure a smooth downfeed and accurate cut.

KEY FEATURES

- Auto shut off
- Quick release head
- Quick release vice
- Coolant
- Trigger switch
- Hydraulic downfeed
- Mitre cutting



Roller Conveyors
1m \$260+GST
2m \$370+GST
3m \$480+GST

MODEL	Optimum 275	Optimum 285	Optimum 300	Optimum 350
CAPACITY 90° □	245 x 180mm	245 x 150mm	310 x 210mm	350 x 240mm
CAPACITY 90° ○	225mm	200mm	255mm	270mm
CAPACITY 45° □	160 x 160mm	215 x 145mm	220 x 200mm	230 x 150mm
CAPACITY 45° ○	160mm	150mm	220mm	230mm
CAPACITY 60° □	100 x 100mm	110 x 90mm	135 x 135mm	140 x 140mm
CAPACITY 60° ○	100mm	90mm	135mm	140mm
MITRE CUTTING	RH - 60°	LH - 45° / RH - 60°	LH - 45° / RH - 60°	LH - 45° / RH - 60°
BLADE SIZE	2480 x 27 x 0.9mm	2480 x 27 x 0.9mm	2750 x 27 x 0.9mm	2925 x 27 x 0.9mm
MOTOR	1.1kW / 240V	1.1kW / 415V	1.5kW / 415V	2.2kW / 415V
PRICE	\$2,490+GST	\$3,590+GST	\$4,350+GST	\$6,250+GST

Cosen Semi automatic bandsaws



Since its establishment in 1976, Cosen has continued its growth into one of the world's largest professional band saw manufacturers. Today, Cosen manufactures over 100 models including manual, semi-automatic, automatic, NC, and CNC saws with capacities ranging from 200mm (8") to 2000mm (80"). Cosen has sold more than 85,000 bandsaws to all five continents, including machines to Germany and Japan and has authorised distributors in over 80 countries across the world.



KEY FEATURES

- Large capacity mitre cutting
- Hydraulic down feed
- Hydraulic vice
- Coolant
- Work height selector

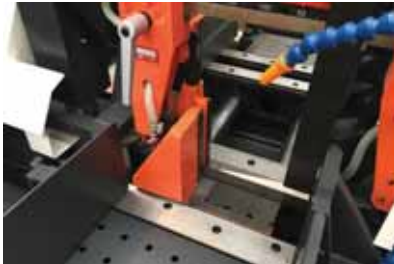


MODEL	SH-460M	SH-500M	SH-650M	SH-600DM	SH-700DM
CAPACITY 90° □	460 x 230mm	500 x 280mm	650 x 380mm	600 x 330mm	700 x 450mm
CAPACITY 90° ○	250mm	330mm	420mm	330mm	450mm
CAPACITY 45° □	230 x 230mm	280 x 280mm	400 x 400mm	400 x 330mm	520 x 450mm
CAPACITY 45° ○	230mm	290mm	400mm	330mm	450mm
CAPACITY 60° □	230 x 110mm	280 x 200mm	400 x 250mm	330 x 300mm	450 x 300mm
CAPACITY 60° ○	110mm	220mm	250mm	300mm	300mm
BLADE SIZE	3505 x 27 x 0.9mm	4150 x 27 x 0.9mm	5300 x 34 x 1.1mm	4880 x 34 x 1.1mm	5800 x 41 x 1.3mm
BLADE SPEEDS	29,46,65,98m/min	23,36,51,76m/min	vari. 20-100m/min	vari. 20-100m/min	vari. 20-100m/min
TABLE HEIGHT	645mm			720mm	750mm
MOTOR	1.5kW	2.25kW	3.75kW	3.75kW	5.6kW
FLOOR SPACE	1400x1900x1700mm	1870x2715x2085mm	2300x2900x2500mm	2220x2900x2210mm	2700x3150x2720mm
WEIGHT	590kg	900kg	1300kg	1400kg	2200kg
PRICE	\$7,250+GST	\$11,350+GST	\$22,500+GST	\$20,800+GST	\$31,900+GST

Cosen Programmable NC Fully Automatic Bandsaws

KEY FEATURES

- Programmable controller with large job memory
- Automatic kerf compensation
- PLC controls all electric & hydraulic functions including:
 - Down feeds
 - Vices
 - Blade tensioner
- Work height control
- Nesting vice
- Swarf conveyor & cleaning hose
- Hitch feed



Hinged design for C-300NC

MODEL	Hinged C-300NC	Double Column			
		C-320NC	C-420NC	C-520NC	C-620NC
CAPACITY 90° □	340 x 300mm	380 x 320mm	420 x 420mm	560 x 520mm	760 x 620mm
CAPACITY 90° ○	300mm	320mm	420mm	520mm	620mm
FEED STROKE	403mm (auto indexing)	400mm MAX 6500mm	500mm MAX 6500mm	600mm MAX 6500mm	600mm (auto indexing)
BLADE SIZE	3820 x 34 x 1.1mm	4242 x 34 x 1.1mm	4770 x 41 x 1.3mm	6040 x 54 x 1.6mm	7020 x 54 x 1.6mm
BLADE SPEEDS	vari. 20-100m/min	vari. 20-100m/min	vari. 20-100m/min	vari. 20-100m/min	vari. 20-100m/min
TABLE HEIGHT	660mm	790mm	700mm	690mm	600mm
MOTOR	3.75kW	3.75kW	5.6kW	5.6kW	7.5kW
FLOOR SPACE	2010x1890x1500mm	2010x2000x1500mm	2490x2360x1600mm	2400x2670x1600mm	2200x3700x2450mm
WEIGHT	1800kg	2100kg	3100kg	3800kg	5400kg
PRICE	\$20,700+GST	\$24,300+GST	\$35,700+GST	P.O.A.	P.O.A.

Cosen Programmable NC Mitre Cutting Bandsaws

C-MNC SERIES



KEY FEATURES

- Programmable controller with large job memory
- Mitre cutting
- Automatic kerf compensation
- Tool free quick mitre adjustment
- Swarf conveyor & cleaning hose
- PLC controls all electric & hydraulic functions including:
 - Down feeds
 - Vices
 - Blade tensioner
- Nesting vice

MODEL	C-510MNC	C-650MNC
CAPACITY 90° □	330 x 510mm	650 x 380mm
CAPACITY 90° ○	360mm	420mm
CAPACITY 45° □	330 x 330mm	400 x 400mm
CAPACITY 45° ○	360mm	400mm
CAPACITY 60° □	230 x 230mm	400 x 250mm
CAPACITY 60° ○	230mm	250mm
FEED STROKE	503-6500mm	800mm MAX 6500mm
BLADE SIZE	4900 x 34 x 1.1mm	5300 x 41 x 1.3mm
BLADE SPEEDS	vari. 20-100m/min	vari. 20-100m/min
TABLE HEIGHT	783mm	750mm
MOTOR	3.75kW	5.6kW
FLOOR SPACE	3300x2750x2200mm	3660x2900x2500mm
WEIGHT	2135kg	2900kg
PRICE	\$33,700+GST	P.O.A.

CNC-800DM



KEY FEATURES

- Programmable up to 100 individual jobs including cut-off lengths, quantities and mitre angles.
- Automatic saw bow mitreing single or double-sided to your preset angle
- Automatic guide arm & front vise repositioning
- Programmable cutting rates & blade speeds
- Automatic multiple feeding with mitreing direction taken into calculation
- Automatic machine shutoff after job completion or when out of stock
- 10" HMI touch screen with access to blade speed, blade life, optional motor amp draw and blade deviation detector

	CNC-800DM		
Angle	0°	±45°	-60°
Capacity Round	500 mm	450 mm	400 mm
Capacity Rectangle(HxW)	400x800 mm	400x550 mm	400x400 mm
Blade Speed	20-100 m/min		
Blade Size (LxWxT)	6600 x 54 x 1.3 mm		
Blade Motor	7.5 HP (5.6kW)		
Hydraulic Motor	3 HP (2.25kW)		
Coolant Motor	1/2 HP (0.38kW)		
Automatic Indexing Length	1500 mm, Max. 6500 mm		
Workbed Height	1085 mm		
Gross Weight	8000 kgs		
Floor Space (LxWxH)	4060 x 3500 x 2312 mm		

Cosen Heavy Duty Semi Automatic Billet Saws



KEY FEATURES

- Specially designed gearbox for high lateral pressure
- Oversized precision ground, large dual columns
- Cross link connecting two columns for enhanced structural strength
- PLC control
- Proximity switch for sensing blade slippage or breakage

Large section
cutting for Billets,
Ingots, Dies
& Plates

Model		SH-7550S	SH-7662
Maximum Cutting Capacity	Round	500 mm (20")	620 mm (24.4")
	Square	500 mm (20")	620 mm (24.4")
	Height x Width	500 x 750 mm (20"-29.5")	620 x 760 mm (24.4" x 30")
Saw Blade	Size	6040L x 54W x 1.6T mm (238" x 2" x 0.063")	7200L x 54W x 1.6T mm (283" x 2.1" x 0.063")
	Speed	20-100 m/min (66-328 fpm)	20-100 m/min (66-328 fpm)
	Tension	Hydraulic (with blade breakage detector)	Hydraulic (with blade breakage detector)
Motor Output	Blade	5.5 kW (7.5 HP)	7.3 kW (10 HP)
	Hydraulic	1.5 kW (2 HP)	1.5 kW (2 HP)
	Coolant	0.18 kW (1/4 HP)	0.19 kW (1/4 HP)
Tank	Hydraulic	40 L (10 gal)	50 L (12.5 gal)
	Coolant	85 L (21.25 gal)	100 L (25 gal)

Cosen Semi Automatic Double Miter, Double Column Horizontal Bandsaws

KEY FEATURES

- Fast and accurate mitering via automatic angle positioning
- Saw bow linear guides
- Guide arm in sync with full stroke hydraulic vice
- Full stroke top clamp
- HMI touch screen control

MODEL	SH-710LDM		
Angle	0°	+/-45°	+/-60°
Rectangle (HxW)	420 x 710mm	420 x 460mm	420 x 300m
Blade Speed	25-100m/min		
Blade Size	6520 x 41 x 1.3mm		
Saw Blade Motor	5.6kW (7.5HP)		
Work Bed Height	750mm		
Floor Space (LxWxH)	3250 x 3200 x 1920mm		



Designed
specifically for cutting
structural steel such as
H-beam, I-beam, channels
and profile.

Sahinler Single Cylinder Punch & Shears



KEY FEATURES

- Increased productivity with adjustable piston stroke.
- Central lubrication system
- Four individual workstations on the machine
 - 22mm diameter punch and die, and standard punching tools
 - Solid steel round and square bar cutting blade set
 - Angle cutting blade set
 - Sheetmetal cutting shear
 - U-notching blade set



Model	HKM 40	HKM 45	HKM 60
Punching			
Diameter x max thickness	20 x 15mm	22 x 15mm	28 x 15mm
Diameter x thickness	30 x 10mm	38 x 8mm	38 x 11mm
Maximum diameter	38 x 8mm	100 x 3mm	110 x 3mm
Stroke	50mm	50mm	55mm
Stroke count (in 20mm)	x 20	x 20	x 25
Throat depth	175mm	175mm	220mm
Working height	970mm	935mm	955mm
Steel Bar Shear			
Round / Square	30 / 25mm	30 / 25mm	40 / 35mm
Angle Shear			
Angle section (90°)	80 x 80 x 8mm	100 x 100 x 10mm	120 x 120 x 12mm
Angle section (45°)	50 x 6mm	70 x 6mm	80 x 8mm
Working height	1110mm	1140mm	1155mm
Sheetmetal Shear			
Sheetmetal	200 x 13mm	200 x 15mm	200 x 20mm
Sheetmetal	300 x 6mm	300 x 12mm	300 x 15mm
Blade length	356mm	316mm	317mm
Shearing wth angle	80 x 10mm	80 x 10mm	80 x 10mm
Working height	980mm	935mm	955mm
Notching			
Thickness	-	8mm	10mm
Width	-	35mm	42mm
Depth	-	75mm	100mm
Working height	-	935mm	955mm
Technical data			
Motor power	3kW	4kW	4kW
Weight	580kg	1165kg	1440kg
Machines dimensions	1100 x 800 x 1520mm	1430 x 950 x 1680mm	1520 x 950 x 1780mm
Power (pressure)	40 ton	45 ton	60 ton

Sahinler Double Cylinder Punch & Shears



KEY FEATURES

- 2 separate hydraulic pistons and foot pedals to allow for 2 operators to use the machine independently at the same time
- Increased productivity with adjustable piston stroke
- Central lubrication system
- Electric backgauge
- Work light
- Five individual workstations on the machine
 - 22mm or 26mm diameter punch and die, and standard punching tools
 - Solid steel round and square bar cutting blade set
 - Angle cutting blade set
 - Sheetmetal cutting shear
 - U-notching blade set

Model	HKM 55	HKM 65	HKM 85	HKM 115	HKM 175
Punching					
Diameter x max thickness	20 x 20mm	26 x 20mm	33 x 20mm	34 x 26mm	40 x 32mm
Diameter x thickness	40 x 10mm	57 x 10mm	57 x 12mm	55 x 16mm	57 x 22mm
Maximum diameter	100 x 3mm	110 x 3mm	110 x 4mm	110 x 5mm	125 x 5mm
Stroke	60mm	55mm	80mm	80mm	80mm
Stroke count (in 20mm)	x 25	x 25	x 25	x 25	x 22
Throat depth	255mm	305mm	355mm	355mm	625mm
Working height	1030mm	1030mm	1080mm	1110mm	1130mm
Steel Bar Shear					
Round / Square	40 / 40mm	45 / 45mm	50 / 50mm	55 / 50mm	65 / 55mm
Angle Shear					
Angle section (90°)	120 x 120 x 12mm	120 x 120 x 12mm	150 x 150 x 15mm	150 x 150 x 16mm	200 x 200 x 20mm
Angle section (45°)	70 x 10mm	70 x 10mm	80 x 8mm	80 x 10mm	80 x 10mm
Working height	1130mm	1140mm	1200mm	1215mm	1130mm
Sheetmetal Shear					
Sheetmetal	200 x 20mm	300 x 20mm	380 x 20mm	380 x 25mm	380 x 30mm
Sheetmetal	300 x 15mm	375 x 15mm	480 x 15mm	600 x 15mm	600 x 20mm
Blade length	317mm	380mm	482mm	610mm	610mm
Shearing wth angle	80 x 15mm	100 x 15mm	120 x 15mm	120 x 15mm	120 x 15mm
Working height	900mm	900mm	940mm	935mm	810mm
Notching					
Thickness	10mm	10mm	13mm	13mm	16mm
Width	45mm	45mm	52mm	60mm	60mm
Depth	90mm	90mm	100mm	100mm	100mm
Working height	900mm	900mm	940mm	935mm	910mm
Technical data					
Motor power	5.5kW	5.5kW	7.5kW	11kW	11kW
Weight	1520kg	1600kg	2315kg	2920kg	6000kg
Machines dimensions	1500 x 950 x 1880mm	1700 x 950 x 1880mm	1920 x 950 x 2040mm	2040 x 950 x 2180mm	2730 x 1150 x 2280mm
Power (pressure)	55 ton	65 ton	85 ton	115 ton	175 ton

Machtech Heavy Duty Lathes



The Machtech heavy duty series lathes are a robust industrial strength machine. The beds are cast iron, induction hardened and ground. The spindle, also hardened and ground is supported by adjustable taper roller bearings to ensure accuracy and is driven by a wet clutch. Machines come standard with DRO, 3&4 jaw chucks, steadies and Quick action tool posts.

KEY FEATURES

- Supplied worldwide
- Induction hardened & ground bedways
- Spindle supported by two adjustable taper roller bearings to ensure accuracy
- 2 axis DRO
- Quick change tool post
- Leadscrew covers
- Footbrake



Specification	Model					
	Turner 410-1000	Turner 510-1500	Turner 510-2000	Turner 560-2000	Turner 560-3000	Turner 660-3000
Swing over bed (mm)	410	510	510	560	560	660
Swing in gap (mm)	640	660	660	710	710	785
Length of gap (mm)	165	200	200	200	200	200
Between centres (mm)	1000	1500	2000	2000	3000	3000
Width of bed (mm)	300	350	350	350	350	400
Spindle nose	D1-6	D1-8	D1-8	D1-8	D1-8	D1-8
Spindle bore (mm)	58	80	80	105	105	105
Spindle taper	MT6	MT7	MT7	MT7	MT7	MT7
Speed (rpm)	25-2000(12)	25-1600(12)	25-1600(12)	25-1600(12)	25-1600(12)	25-1500(12)
Max. travel of top slide (mm)	128	130	130	130	130	130
Max. travel of cross slide (mm)	285	326	326	326	326	355
Main motor (HP)	7.5	10	10	10	10	10
Machine size LxWxH (mm)	2200 x 1080 x 1340	2900 x 1120 x 1430	3400 x 1120 x 1430	3400 x 1120 x 1430	4400 x 1120 x 1430	4400 x 1150 x 1460
Machine weight (kg)	1670	2335	2685	2720	3220	3270

**** more sizes available**

Microweily High Speed Precision Lathes



Microweily has been manufacturing high speed precision lathes in Taiwan since 1967. With 47 years of experience refining and honing their products, you can rest assured that when purchasing a Microweily lathe from Applied Machinery, that you are getting a

world class, premium lathe for all of your precision work.

The TY series of lathes feature 510mm (20") – 660mm (26") swing over the bed, with between 1000mm (40") and 4060mm (160") between centres.

TY SERIES AVAILABLE MODELS

TY-2040	TY-2060	TY-2080	TY-20100	TY-20120	TY-20160
TY-2240	TY-2260	TY-2280	TY-22100	TY-22100	TY-22160
TY-2640	TY-2660	TY-2680	TY-26100	TY-26120	TY-26120

TY-XXYY, where XX is the swing over bed and YY is the distance between centres in inches

CAPACITY	
SWING OVER BED	510mm, 560mm, 660mm
SWING OVER CROSS SLIDE	330mm, 360mm, 460mm
SWING OVER GAP	680mm, 745mm, 845mm
CENTRE HEIGHT	255mm, 280mm, 330mm
DISTANCE BETWEEN CENTRES	1000mm, 1530mm, 2040mm, 2550mm, 3060mm, 4060mm
BED WIDTH	400mm
MAIN SPINDLE MOTOR	10HP, 15HP (optional)
HEADSTOCK	
SPINDLE BORE	80mm, 105mm (optional)
SPINDLE NOSE	D1-8" ISO or A1-8" ISO, D1-11" ISO or A1-11" ISO (optional)
TAPER IN NOSE/SLEEVE	No.7/No.5, No8/No.5 (optional)
SPINDLE SPEEDS	20-1550rpm (12), 15-1200rpm (12) (optional)
CARRIAGE	
CROSS SLIDE TRAVEL	320mm
COMPOUND REST TRAVEL	255mm
LEADSCREW DIAMETER & THREAD	38mm & 6mm P or 4TPI
TAILSTOCK	
QUILL DIAMETER	75mm
QUILL TRAVEL	160mm
QUILL TAPER	No.5 Morse

Takisawa Taiwan LA Series CNC Lathes



Suitable for any 10 inch chuck working range; whether for bar feeding applications or working using gantry loading/unloading devices, the new LA series machines are designed to offer precision turning and milling with excellent surface finish and the Takisawa cast iron guarantee of accuracy and reliability.

Taiwan Takisawa's R&D team brings 40 years of in depth experience designing hardware and software for machine tools to the development of the LA series' modular structure. From standard 2-axis turning to multi-axis turn mill applications with Y axis, the LA series provides powerful and competitive solutions for component production.



LA-200Y

KEY FEATURES

- Max. Turning Dia.: $\varnothing 260$ mm.
- Max. Turning Length: 431.5 mm.
- Bar Capacity: $\varnothing 52$ mm.
- X, Z Axis Travel: 180 x 530 mm.
- A2-6 Spindle
- 12-Position Servo Turret
- 8" Hydraulic Chuck



LA-250Y

KEY FEATURES

- Max. Turning Dia.: $\varnothing 350$ mm.
- Max. Turning Length: 605 mm.
- Bar Capacity: $\varnothing 75$ mm.
- X, Z Axis Travel: 220 x 710 mm.
- A2-8 Spindle
- 12-Position Servo Turret
- 10" Hydraulic Chuck



Full range available

Takisawa Taiwan LS Series CNC Lathes



KEY FEATURES

- Max. Turning Dia. : 680 mm
- Max. Turning Length: 985 / 1485 / 1985 / 2985 mm
- Bar Capacity: $\varnothing 90$ / $\varnothing 105$ / $\varnothing 180$ mm
- Spindle Nose: A2-8 / A2-11 / A2-15
- X Axis Travel: 390 mm
- Z Axis Travel: 1150 / 1650 / 2150 / 3150 mm
- 12-Position Servo Turret
- 15" / 18" / 20" Hydraulic Chuck



KEY FEATURES

- Max. Turning Dia.: 850 mm
- Max. Turning Length: 970 / 1470 / 1970 / 2970 mm
- Bar Capacity: $\varnothing 180$ mm
- Spindle Nose: A2-15
- X Axis Travel: 500 mm
- Z Axis Travel: 1100 / 1600 / 2100 / 3100 mm
- 12-Position Servo Turret
- 20" / 24" Hydraulic Chuck

Takisawa Taiwan EX Series CNC Lathes



EX-900
Series

EX-300
Series



Twin spindles

- Twin built-in motor spindles
- High accuracy geometric machining parts
- Indexing can be 0.001 degrees for accurate twin spindles

Built-in Spindle

- Powerful turret
- Built-in power motor and accurate spindle
- Built-in and direct drive spindle motor for powerful cutting
- Hide-in coolant in spindle for stability
- Indexing can be 0.001 degrees for accuracy.

Powerful, accurate, fast turret

- Powerful turret
- Servo controlled with high speed indexing to reduce idle time and increase productivity.
- Any station can set driving tool on 12 stations for flexible use.



Highly efficient turret

- Self-made servo turret.
- High precision drilling, tapping and milling
- Highly efficient surface turning and milling.
- Z axis live tool holder for both sides increasing the flexible usage of tooling



Disc brake orientation system

- Orientating in every degree
- Enhance the orientation rigidity and avoid vibration while drilling

Takisawa Taiwan NEX Series CNC Lathes



When it comes to stability, Taiwan Takisawa's NEX Series has no equal. This series of CNC lathes are designed and built with just one thought in mind—to produce machines that will offer maximum rigidity and stability, as well as precision accuracy for years of operation.

Inner Ribbed Cast Iron

The massive bed is scientifically ribbed and ruggedly constructed to keep vibration to a minimum.

High Quality Structural Material

The main structure is made from Meehanite cast iron, which is stress relieved for optimum rigidity and stability for years of trouble-free operation.



30° Slant Bed Construction

The 30° slant bed features optimum force flow. It also provides a firm support for the turret, as well as efficient chip removal.

Linear Guide Ways on X, Z-axis

The oversized linear guide ways are deployed on the X and Z-axis, in combination with a large span between ways, dramatically increasing stability and long term accuracy.



Every bed from Takisawa Taiwan is engineered to exhibit the ultimate in stability in high speed and heavy cutting

Myday TNC Series CNC Lathes



**Manufactured
in Taiwan**

MYDAY lathes are manufactured to the highest standards in Taiwan. CNC lathes are available from 600mm swing diameter and 1500mm between centres up to 2500mm swing diameter and 12000mm between centres.

CNC oil country lathes are MYDAY's specialty with big bore CNC lathes available with bore sizes 104mm, 156mm, 230mm, 260mm, 310mm, 360mm & 535mm.

Model	Bore	Between Centres	Swing	Bed	CNC
TM 1060-4000 Oil Country CNC	260mm	4000mm	1060mm	560mm	Fanuc, Fagor, or Mitsubishi
TM 1200-6000 Oil Country CNC	260mm	6000mm	1200mm	800mm	Fanuc, Fagor, or Mitsubishi
TM 1600-6000 Oil Country CNC	260mm	6000mm	1600mm	800mm	Fanuc, Fagor, or Mitsubishi
TM 1800-6000 Oil Country CNC	230mm	6000mm	1800mm	1320mm	Fanuc, Fagor, or Mitsubishi
TM 2000-8000 Oil Country CNC	230mm	8000mm	2000mm	1320mm	Fanuc, Fagor, or Mitsubishi
TM 2500-8000 Oil Country CNC	230mm	8000mm	2500mm	1320mm	Fanuc, Fagor, or Mitsubishi
TM 600-1500 CNC	80mm	1500mm	600mm	400mm	Fanuc, Fagor, or Mitsubishi
TM 770-2000 CNC	104mm	2000mm	770mm	400mm	Fanuc, Fagor, or Mitsubishi
TM 840-3000W CNC	156mm	3000mm	840mm	460mm	Fanuc, Fagor, or Mitsubishi

*many more sizes and configurations available



Tailstock Rotary Quill



Hydraulic Tailstock



Hydraulic V8 Turret



Hydraulic Milling Device



Double Chuck



Hydraulic 4-way Toolpost

LNS Fedek Bar Feeders

With over 100,000 units installed world-wide, LNS bar feeders are universally recognised for their exceptional bar guiding technique Hydrobar®.

In the most varied applications, the LNS bar feeders ensure maximum productivity on all types of fixed or sliding headstock lathes. In addition LNS bar feeders offer record reliability and flexibility and the fastest diameter changeover in the world. A complete product range covers all manufacturing philosophies (short, half and long bars). In order to develop LNS' leading position, there is a constant search for new technologies and solutions that will allow customers to maximise their productivity.



**Precision
feeding for short, half
& long bars**

KEY FEATURES

- Accommodates "black" bar.
- No special requirements needed for bar straightness.
- Remnant can be set through parameters for great saving of material.
- Retract stroke can be set as desired.
- Self detection and LCD display for too short feeding and malfunctions.
- Bar diameters change is fast accomplished in only one minute.
- Accommodates hexagonal and square material.
- Extremely short bar change cycle time.

DH-65 S2

ø5-ø65mm bar capacity
1200mm maximum length

DH-65L S2

ø5-ø65mm bar capacity
1500mm maximum length



Auxiliary Remote Controller

- LCD displays position and malfunction.
- Remote control box gives maximum operation convenience.



PLC Controller

- control system meets CE standards.
- convenient to be on-line with lathe.



Quick Bar diameter change

Bar diameter change is quickly accomplished in only one minute. Accommodates hexagonal and square material.

Hurco CNC Vertical Machining Centres 3 & 4 Axis VMi Series

HURCO®



Absolutely the best value on the market. Efficient design results in a compact mill that has a large work cube, but also has a small footprint. One piece machine base. Premium components. Built to last.



Inverted Y-Column

Benefits of the VMi Series CNC Machining Centres

- **Electric, side-mounted, 20-tool ATC with swing arm design** stays out of the way, increasing the size of the already generous work cube
- **Small footprint.** Large work cube.
- **Wider table extends across the entire Y-axis**, which gives you more flexibility to produce a high variety of parts.
- **Table moves completely forward in the work cube** for easy operator access.
- **Larger linear rails** mounted to a machined shoulder for increased rigidity. Wedge locked to the frame to reduce vibration instead of cheaper, face-milled process.
- **Preloaded and stretched ballscrews** with additional anchor to the Z-axis
- **Yaskawa Sigma 5 drives**
- **LED lighting** shines brighter and saves energy
- **Heavier machine weights.** With machine weights ranging from 2,818kg to 4,245kg, the VMi Series is absolutely the most economical price-per-kilo machine you can buy.

	VMS.	VM10.	VM20.	VM30.	VM10HS.
Capacity Travel	X Travel	457 mm	640 mm	1,016 mm	1,270 mm
	Y Travel	356 mm	406 mm	508 mm	508 mm
	Z Travel	256 mm	508 mm	508 mm	508 mm
	Spindle Move to Table	102 to 457 mm	102 to 610 mm	102 to 610 mm	102 to 610 mm
Spindle	Table Size	457 x 356 mm	762 x 406 mm	1,321 x 508 mm	762 x 406 mm
	Table Load Max.	227 Kg	340 Kg	544 kg	340 Kg
	Spindle Speed Max.	8,000 rpm	10,000 rpm	10,000 rpm	20,000 rpm / 30,000 rpm (CPT)
	Spindle (1 min) Power	10 hp / 7.5 Kw	15 hp / 11 Kw	20 hp / 15 Kw	11.4 hp / 8.3 Kw (30min)
ATC	Spindle (1 min) Torque	48.8 Nm @1,450 rpm	73.6 Nm @1,450 rpm	102 Nm @1,450 rpm	5.9 Nm @14,700 rpm (30min)
	Tool Capacity	16	20	20	20
	Tool Type	BT 40	BT 40	BT 40	BT 30
	Tool Diameter Max.	89 mm	89 mm	89 mm	60 mm
Feeds	Tool Length Max.	200 mm	250 mm	250 mm	250 mm
	Tool Weight Max.	7 Kg	7 Kg	7 Kg	1 Kg
	Rapid Traverse per minute	X = 19 m / Y = 19 m / Z = 19 m	X = 24 m / Y = 24 m / Z = 24 m	X = 24 m / Y = 24 m / Z = 24 m	X = 24 m / Y = 24 m / Z = 24 m
	Feedrate Max. per minute	15.2 m	15.2 m	15.2 m	22.9 m
Size	Machine Height	2,390 mm	2,530 mm	2,576 mm	2,533 mm
	Required Floor Space	1,633 x 2,903 mm	3,000 x 2,890 mm	3,704 x 3,008 mm	4,083 x 2,743 mm
	Machine Weight	2,836 Kg	2,818 Kg	4,209 Kg	4,345 Kg

Hurco CNC Vertical Machining Centres 3 & 4 Axis VMXi Series

Benefits of the VMXi Series CNC Machining Centres

- **Generous Y-axis and wide table**, which gives you more flexibility to produce a wide variety of parts
- **Table moves completely forward in the work cube** for easy operator access.
- **Large doors**. The large opening on the front of the machine gives you more room to load/unload and facilitates easy overhead crane access. The larger side doors are hinged, easy to open and easy to remove.
- **Dual-wound 12k spindle provides more torque without requiring a gearbox**, which eliminates additional assembly and maintenance (VMXi)
- **Designed to prolong spindle life and preserve accuracy** with ceramic hybrid spindle bearings, lifetime grease, coolant jacket designed into the head casting, and both upper and lower air-purge system to keep chips out.
- **Preloaded and stretched ballscrews** with additional anchor to the Z-axis
- **Yaskawa Sigma 5 drives**
- **LED lighting** shines brighter and saves energy



The VMXi series mills are the workhorse of the industry. They are built to last.

	VMX24Mi	VMX24Hi	VMX43Mi	VMX42Hi
Winmax Control	Single Screen	Single Screen	Single Screen	Single Screen
X, Y, Z Travel	610 x 508 x 610 mm		1,066 x 610 x 610 mm	
Spindle Nose to Table	152 to 762 mm		152 to 762 mm	
Table size	762 x 508 mm		1,270 x 610 mm	
Table Load Max. (With Uniform Distribution)	680 Kg	1,360 Kg	680 Kg	1,360 Kg
Spindle Speed Max.	10,000 rpm	12K rpm (OPT)	10,000 rpm	12K rpm (OPT)
Spindle Power (1 min. Rating)	20 HP / 15 kW	12 HP / 9 kW	29 HP / 21.6 kW	24 HP / 18 kW
Spindle Torque (1 min. Rating)	102 Nm @ 1450 rpm	95 Nm @ 900 rpm	142.4 Nm @ 1,450 rpm	237 Nm @ 720 rpm
Tool Capacity	24 / 30		24 / 30 / 40 (Option)	
Tool Type	BT40		BT40	
Tool Diameter Max.	80 mm		80 mm	
Tool Length Max.	300 mm		300 mm	
Tool Weight Max.	7 kg		7 kg	
Rapid Traverse metre per minute (X / Y / Z)	30 / 30 / 20	35 / 35 / 30	30 / 30 / 20	35 / 35 / 30
Feedrate Max. per minute (X / Y / Z)	22.9/22.9/20	22.9/22.9/22.9	22.9/22.9/20	22.9/22.9/22.9
Positioning Accuracy (30 Pass VDI - 3441 Method)	0.010 mm		0.010 mm	
Repeatability (30 Pass VDI - 3441 Method)	0.005 mm		0.005 mm	
Machine Height	2,747 mm		2,788 mm	
Operating Floor space	3,808 x 3,704 mm	3,929 x 3,704 mm	4,598 x 3,346 mm	4,598 x 3,346 mm
Machine Weight	4,360 kg	4,648 kg	6,400 kg	6,602 kg

	VMX6030i	VMX8030i	VMX8030i	VMX8030i
Travel	Winmax Control	Single Screen	Single Screen	Dual Screen
	X, Y, Z Travel	1,524 x 660 x 610 mm		
	Spindle Nose to Table	1,524 x 762 x 610 mm		
Capacity	Table size	101 to 711 mm		
	Table Load Max. (With Uniform Distribution)	1,676 x 660 mm		
	Table Load Max. (With Uniform Distribution)	680 Kg	1,360 Kg	1,360 Kg
Spindle	Spindle Speed Max.	10,000 rpm	12K rpm	12K rpm
	Spindle Power (1 min. Rating)	29 HP / 21.6kW	34 HP / 25kW	30 HP / 22.2 kW
	Spindle Torque (1 min. Rating)	142 Nm @ 1,450 rpm	237 Nm @ 720 rpm	351 Nm @ 600 rpm
ATC	Tool Capacity	24 / 30 / 40 (Option)		
	Tool Type	BT40		
	Tool Diameter Max.	80 mm		
Feedrate	Tool Length Max.	300 mm		
	Tool Weight Max.	7 kg		
	Rapid Traverse metre per minute (X / Y / Z)	30 / 30 / 20		
Accuracy	Feedrate Max. per minute (X / Y)	22.9 m/min		
	Feedrate Max. per minute (Z)	20 m/min		
	Positioning Accuracy (30 Pass VDI - 3441 Method)	0.010 mm		
Size	Repeatability (30 Pass VDI - 3441 Method)	0.005 mm		
	Machine Height	3,073 mm		
	Operating Floor space	5,604 x 3,935 mm		
	Machine Weight	8,364 kg		

Hurco 5 Axis CNC Machining Centres with Swivel Head VMX SRTi Series



Benefits of the SR 5-Axis Mill

The design of the swivel head 5-axis machining center makes the SRT the best choice for certain applications

Versatility

The large rotary table provides versatility that allows you to use the extra table space for secondary operations or 3-axis work.

Heavier Parts

Because the table is stationary, the swivel head/rotary table 5-axis machining centers are typically preferred when machining heavier parts.

Better chip control

With the swivel head/rotary table configuration, you can run the machine horizontally and gain better chip control.

Unlimited angular movement of C-axis

With a swivel head/rotary table 5-axis machining center, it is extremely important to make sure the table (C-axis) supports unlimited angular movement. For example, if you are machining down a steep wall and going around the part, the table needs to rotate in continuous motion. If the C-axis is limited to a +360/-360 degrees of motion, it will literally need to unwind at regular intervals to machine the part. Conversely, the tables on the HURCO SRT 5-axis mills are built with unlimited and continuous rotation because our focus from design to delivery is to maximise productivity and profitability for our customers.

Inverted Y-Column

	VMX 42 SRTi	VMX 42 HSRTi	VMX 60 SRTi
Table			
Working surface (mm)	1,270 x 610	1,270 x 610	1,675 x 660
Working surface Rotarytable (mm)	Ø 600	Ø 600	Ø 600
T-Slots (mm)	5 x 18 x 100	5 x 18 x 100	6 x 18 x 100
Max. Tableload (kg)	1,360	1,360	1,360
Max. Tableload Rotarytable (kg)	500	500	500
Travels			
X-Axis (mm)	1,067	1,067	1,524
Y-Axis (mm)	610	610	660
Z-Axis (mm)	610	610	610
B-Axis (°)	+/- 92	+/- 92	+/- 92
C-Axis (°)	360	360	360
Spindle motor			
Spindle power (HP)	48 @ 2,900 rpm	47 @ 2,800 rpm	48 @ 2,900 rpm
Torque (Nm)	118	119	118
Spindle			
Taper	BT 40	HSK 63 A	BT 40
Distance Spindle nose – Table (mm)	613	613	622
Spindle speed max. (rpm.)	12,000	18,000	12,000
Automatic Tool changer			
Stations	40	40	40
Max. Tool-Diameter. (mm)	75	75	75
Max. Tool-Length (mm)	300	300	300
Max. Tool-Weight (kg)	7	8	250
Further details			
Rapid traverse (m/min.) X/Y/Z-Axis	35 / 35 / 30	35 / 35 / 30	30 / 30 / 20
Rapid traverse (rpm.) B/C-Axis	50 / 100	50 / 100	50 / 100
Machine weight (kg)	7,550	7,564	9,091

Hurco 5 Axis CNC Machining Centres with Trunnion Table VMX U/HSi Series

Trunnion Table 5-axis makes 5-Sided Machining easy



Inverted Y-Column

The efficient design of the HURCO 5-axis trunnion table machining centers is a key benefit to consider – we use an integrated trunnion table at HURCO instead of simply sticking a trunnion table on a 3-axis machining center and passing it off as a 5-axis machine. The integrated trunnion table design provide more clearance in Z compared to other brands.

Benefits of Trunnion 5-Axis Mill Easy transition from 3-axis machining

The 5-axis trunnion style machining centers are an ideal configuration for 5-sided machining, especially if you've always worked on a 3-axis machine because the trunnion style design uses the same principles as 3-axis (i.e. you still machine in a linear fashion, but you just machine more sides). This means less training, less setup time, and more flexibility.

More clearance in Z-axis

The integrated design of the trunnion table 5-axis VMC gives you more clearance in Z, especially compared to 3-axis VMC's with trunnion table added to simulate a 5-axis VMC.

Seamless integration

Seamless integration of pneumatic and/or hydraulic fixtures is another benefit. We purposely designed the U-Series 5-axis VMCs so you can easily feed the cables for these types of fixtures through the shoulder.

	VMX 10 UI	VMX 30 UI	VMX 30 UHSi	VMX 42 UI	VMX 60 UI
Table					
Working surface roundtable (mm)	Ø 198	Ø 248	Ø 248	Ø 348	Ø 500
T-Slots (mm)	6 x 10 x 60°	6 x 12 x 60°	6 x 12 x 60°	6 x 14 x 60°	5 x 18
Max. Tableload (kg)	150	200	200	250	400
Travels					
X-Axis (mm)	533	762	762	1,067	1,524
Y-Axis (mm)	406	508	508	610	660
Z-Axis (mm)	483	520	520	520	520
A-Axis (°)	-110 / +30	-110 / +30	-110 / +30	-110 / +30	-110 / +30
C-Axis (°)	360	360	360	360	360
Spindle motor					
Spindle power (HP)	12 @ 1,500 rpm	18 @ 600 rpm	47 @ 2,800 rpm	24 @ 720 rpm	24 @ 720 rpm
Torque (Nm)	57	214	119	237	237
Spindle					
Taper	BT 40	BT 40	HSK 63 A	BT 40	BT 40
Distance Spindle nose – Table (mm)	36 - 519	90 - 610	90 - 610	90 - 610	90 - 610
Spindle speed max. (rpm.)	10,000	12,000	18,000	12,000	12,000
Automatic Tool changer					
Stations	20	24 / 40 (opt)	40	40	40
Max. Tool-Diameter (mm)	89	80	75	75	75
Max. Tool-Length (mm)	250	300	300	300	300
Max. Tool-Weight (kg)	7	8	8	7	7
Further details					
Rapid traverse (m/min.) X/Y/Z-Axis	24 / 24 / 24	35 / 35 / 30	45 / 45 / 30	35 / 35 / 30	30 / 30 / 20
Rapid traverse (rpm.) A/C-Axis	25 / 25	25 / 25	25 / 25	25 / 25	20.8 / 16.6
Machine weight (kg)	3,360	4,980	5,990	7,200	8,546

Hurco TMI Series CNC Lathes



TM10i – The perfect combination of size and functionality

- Cast iron frame designed with Finite Element Analysis
- True 30 degree slant bed
- Brushless Yaskawa AC servos – Sigma V.
- Double-nut pre-loaded ball screws anchored on both ends
- 1.26 inch ball screws X/Y
- Linear motion guideways all axes
- Distance between X axis ways 7.87"
- Distance between Z axis ways 12"
- AC spindle motor with Yaskawa drive
- Maintenance-free cartridge spindle with permanently greased bearings
- Bidirectional hydraulic turret
- Optional tailstock mounted on heavy-duty box ways supplied with live center.

Model	TM6i	TM8i	TM10i
X Travel	178 mm	203 mm	250 mm
Z Travel	356 mm	508 mm	750 mm
Turning Diameter Max	316 mm (215 mm VDI)	356 mm (256 mm VDI)	450 mm (295 mm VDI)
Turning Length Max.	340 mm (3185 mm VDI)	483 mm (458 mm VDI)	720 mm (694 mm VDI)
Bar Capacity Max.	45 mm	51 mm	77 mm
Spindle Speed Max.	6,000 rpm	4,800 rpm	3,000 rpm
Spindle Speed Low Gear Max.	N/A	N/A	N/A
Spindle Speed High Gear Max.	N/A	N/A	N/A
Spindle Torque Max.	113 Nm @ 1,090 rpm	180 Nm @ 870 rpm	352 Nm @ 600 rpm
Spindle Torque Low Gear Max.	N/A	N/A	N/A
Spindle Torque High Gear Max.	N/A	N/A	N/A
Spindle Power	13 kW (17.5 hp)	16 kW (22 hp)	22.1 kW (29.5 hp)
Spindle Nose	A2-5	A2-6	A2-8
Chuck Diameter	152 mm	203 mm	254 mm
Tool Capacity	12 Station	10 Station (12 station VDI)	12 Station
Tool Type	Slotted Disc (VDI 20)	Slotted Disc (VDI 30)	Slotted Disc (VDI 40)
Turret Index Furthest	1.5 sec	1.5 sec	1.5 sec
Rapid Traverse per minute	X= 19 m / Z= 24 m	X= 19 m / Z= 24 m	X= 19 m / Z= 24 m

Hurco TMI Series CNC Lathes



TM12i – Specifically created to withstand the rigors of heavy cuts

- Cast iron frame designed with Finite Element Analysis
- True 30 degree slant bed
- Brushless Yaskawa AC servos – Sigma V.
- Double-nut pre-loaded ball screws anchored on both ends
- 1.42 inch ball screws X, 1.58 inch Z
- Linear motion roller guideways all axes
- Distance between X axis ways 10"
- Distance between Z axis ways 17.7"
- AC spindle motor with Yaskawa drive
- Maintenance-free cartridge spindle with permanently greased bearings
- Bidirectional hydraulic turret
- Optional tailstock mounted on heavy-duty box ways supplied with live center.

Model	TM12i	TM18i	TM18Li
X Travel	305 mm	432 mm	432 mm
Z Travel	1,016 mm	1,016 mm	2,032 mm
Turning Diameter Max	550 mm (505 mm VDI)	635 mm (594 mm VDI)	635 mm (594 mm VDI)
Turning Length Max.	1,000 mm (974 mm VDI)	1,001 mm (867 mm VDI)	2,017 mm (2,017 mm VDI)
Bar Capacity Max.	102 mm	163 mm	163 mm
Spindle Speed Max.	2,800 rpm	N/A	N/A
Spindle Speed Low Gear Max.	N/A	600 rpm	600 rpm
Spindle Speed High Gear Max.	N/A	1,600 rpm	1,600 rpm
Spindle Torque Max.	603 Nm @ 870 rpm	N/A	N/A
Spindle Torque Low Gear Max.	N/A	2,415 Nm @ 217 rpm	2,415 Nm @ 217 rpm
Spindle Torque High Gear Max.	N/A	603 Nm @ 870 rpm	603 Nm @ 870 rpm
Spindle Power	55 kw (73 hp)	55 kw (73 hp)	55 kw (73 hp)
Spindle Nose	A2-11	A2-15	A2-15
Chuck Diameter	305 mm	456 mm (option)	456 mm (option)
Tool Capacity	12 station	12 station	12 station
Tool Type	Slotted Disc (VDI 40)	Slotted Disc (VDI 50)	Slotted Disc (VDI 50)
Turret Index Furthest	1.5 sec	6 sec	6 sec
Rapid Traverse per minute	X= 19 m / Z= 24 m	X= 20 m / Z= 20 m	X= 20 m / Z= 20 m

Wele Premium CNC Machining Centres



AA SERIES

Ranging from
900mm to 2500mm in x-axis
650mm to 900mm in y-axis
600mm to 900mm in z-axis

KEY FEATURES

- Developed for general purpose heavy duty metal cutting. Available on #40 and #50 geared spindle.
- Compact design concept: easy to ship in regular container.
- Machine bed, column, carriage, and spindle head are well annealed with aged heat treatment.
- More than 56 surfaces are scraped by skilled technicians to get excellent geometric accuracy.
- 4 hardened boxways well arranged on Y axis to be sure the work load full support.



Wele AA1365

Item	Unit	AA965	AA1165	AA1365	AA1565
X travel (left and right)	mm	900	1100	1300	1500
Y travel (in and out)	mm	650			
Z travel (up and down)	mm	600			
Table size (X direction)	mm	1100	1300	1450	1650
Table size (Y direction)	mm	650			
Table load capacity	kg	900	1100	1300	1500

Wele Premium CNC Machining Centres



Ranging from
2120mm x 1200mm x 800mm to
4060mm x 2300mm x 800mm

RB SERIES

KEY FEATURES

- Developed for high precision, heavy duty, and high performance on the smallest bridge range.
- All axes are using ultra-heavy roller guideway.
- Super wide operator door (full open). Easy to load and unload the workpiece.
- Max. rapid feed up to 24m/min.



Item	Unit	RB212	RB312
X travel (left and right)	mm	2120	3060
Y travel (in and out)	mm	1200	
Z travel (up and down)	mm	800	
Table size (X direction)	mm	2000	3000
Table size (Y direction)	mm	1100	
Table load capacity	kg	3500	4500

Wele Premium CNC Machining Centres



MB SERIES

KEY FEATURES

- Full automatic Head Exchange/ Head Storage/ Auto tool exchange in vertical & horizontal/ 5 sides machining function.
- Z travel with 1000mm as STD; Z travel from 1200mm through to 1400mm available on all MB series.
- Automatic multi head exchange system and storage with tool exchange in vertical and horizontal.
- All series with linear scale feedback system on X,Y axes; Z axis (OPT).
- Extension head, 30 degree head, and universal head optional available.



Item	Unit	MB425	MB525	MB625	MB725	MB432	MB532	MB632	MB732
X travel (left and right)	mm	4060	5060	6060	7060	4060	5060	6060	7060
Y travel (in and out)	mm	3200				3900			
Z travel (up and down)	mm	1000							
Table size (X direction)	mm	4000	5000	6000	6000	4000	5000	6000	6000
Table size (Y direction)	mm	2000				2400			
Table load capacity	kg	15000	18000	20000	20000	15000	18000	20000	20000

Wele Premium CNC Machining Centres



MG SERIES

KEY FEATURES

- Moving overhead gantry bridge machine with max up to 20m in X axis and 5m in Y axis is available.
- Twin driven feed system on X axis travel up to 6000mm with ball screw; rack and pinion driven feed system available with travel 6000mm above.
- Automatic multi-head exchange and storage system, AC tilting head with 5 axes simultaneous control are all optional available on the field.
- Max. table load of 2500kg/ m² is provided.
- Special foundation at the customer site is required.
- Patented backlash eliminated mechanism is applied on the X axis travel.

Item	Unit	MG530	MG630	MG830	MG1030	MG640
X travel (left and right)	mm	5000	6000	8000	10000	6000
Y travel (in and out)	mm	3000				4000
Z travel (up and down)	mm	800 (Standard), 1200/1400 (Optional)				
Table size (X direction)	mm	5000	6000	8000	10000	6000
Table size (Y direction)	mm	2800				3800
Table load capacity	kg/m ²	2500				

Item	Unit	MG840	MG1040	MG1050	MG1250	MG1450
X travel (left and right)	mm	8000	10000	10000	12000	14000
Y travel (in and out)	mm	4000				5000
Z travel (up and down)	mm	800 (Standard), 1200/1400 (Optional)				
Table size (X direction)	mm	8000	10000	10000	12000	12000
Table size (Y direction)	mm	3800				4800
Table load capacity	kg/m ²	2500				

ENGINEERING

Hermle Premium CNC Machining Centres with Turning Capabilities



Hermle is all about milling and achieving outstanding results. We focus on: Our architecture, our structure, our work, our approach, our development, our construction, our assembly, our service, and so on and so forth. With everything we change, optimise and achieve, we make the output better, more precise and more readily available. Hermle's computer-controlled production systems with linked pallet stations are highly sophisticated, highly flexible and individually tailored to our solutions. They manufacture to the highest standards of quality- and, on demand, in 3 daily shifts.



Hermle Premium CNC Machining Centres with Turning Capabilities

As a consequence of their axis design, and the integrated nature of the Rotary Tables, Hermle machines offer a large collision circle diameter. They can process very large workpieces relative to the machine footprint. Some models can even considerably exceed the 0° to 90° swivelling range.

The C axes use either worm gears or torque drives, depending on the machining process.

The A axes can be fitted with one-sided or tandem drives, depending on workpiece weight and the required dynamics.

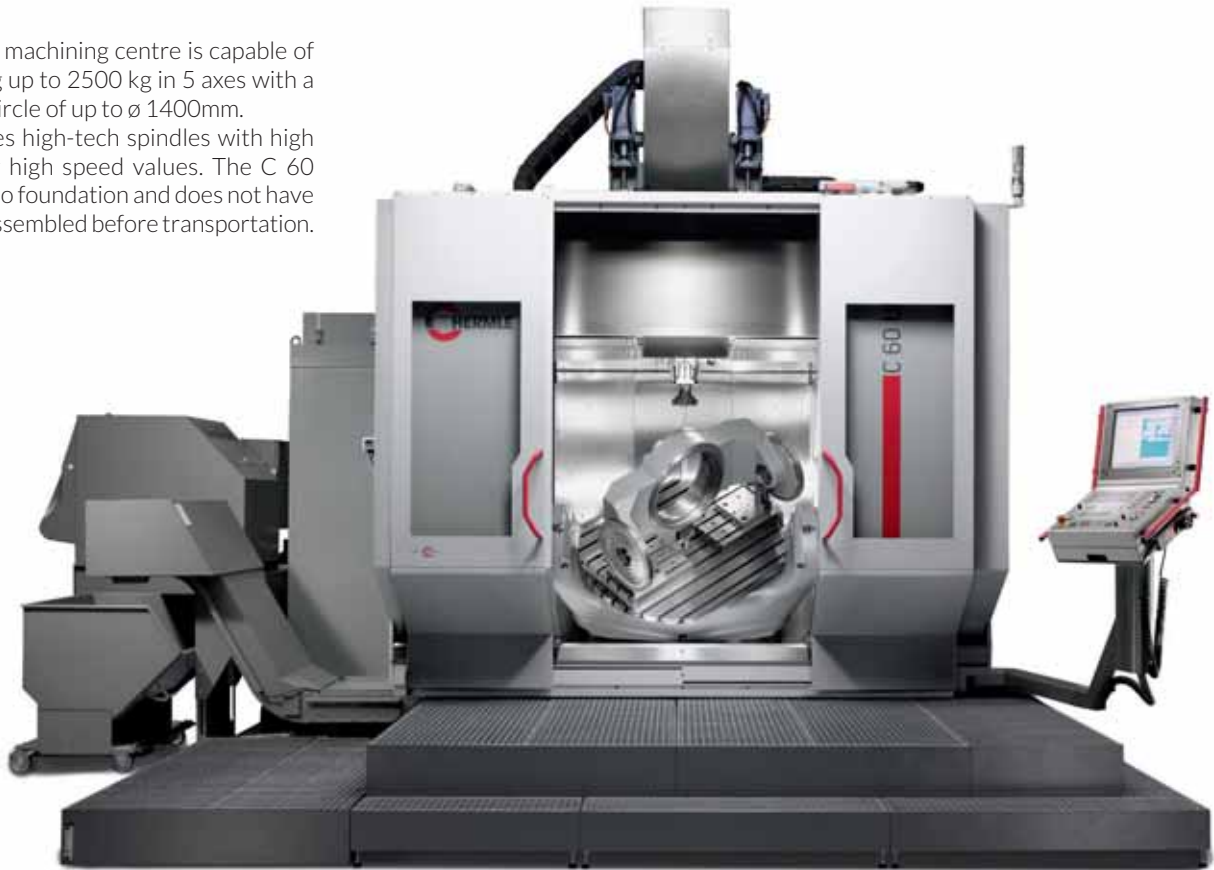
Our MT models can not only mill but also turn in 5 axes simultaneously.



Hermle C60/C60U Machining Centres with Turning Capabilities



The mega machining centre is capable of machining up to 2500 kg in 5 axes with a collision circle of up to \varnothing 1400mm. It also uses high-tech spindles with high torque or high speed values. The C 60 requires no foundation and does not have to be disassembled before transportation.



Also available in

MT turning 1500kg/1000kg
& MT milling 2500kg/2000kg

KEY FEATURES

TECHNICAL DATA

Traverse X-Y-Z:	1200 - 1300 - 900 mm
Speed:	9000 / 10000 / 12000 / 15000 / 18000 rpm
Rapid linear traverse X-Y-Z:	50m/min
Control unit:	iTNC 530 / S 840 D sl

NC swivelling rotary tables:

Tables with torque:	\varnothing 900/ \varnothing 1350 x 1100 mm
Swivelling range:	+/- 130°
A/C axis speed:	15/30 rpm
Max. table load:	2500 kg

C 60 U MT dynamic NC swivelling rotary table:

Control unit:	TNC 640 / S 840 D sl
Table with torque:	\varnothing 1200mm
Swivelling range:	+/- 130°
A/C Axis speed:	15/400 rpm
Max. turning table load:	1500 kg
Max. milling table load:	2 500 kg

Hermle C42/C42U Machining Centres with Turning Capabilities

The highly dynamic machining centre, refined and enhanced for 5 axes - 5 side machining. Features galore to ensure high precision cost effective part production. Wide range of automation solutions extends the application range many times over.



Also available in

- MT turning: 700kg
- MT milling: 1400kg

KEY FEATURES

TECHNICAL DATA

Traverse X-Y-Z:	800 - 800 - 550 mm
Speed:	10000 / 15000 / 18000 / 25000 rpm
Rapid linear traverse X-Y-Z (dynamic):	45 (60) - 45 (60) - 40 (60) m/min
Control unit:	iTNC 530 / S 840 D sl

Rigid clamping table:

	1050 x 805 mm
Max. table load:	2000 kg

NC swivelling rotary tables:

Tables with worm:	Ø 420	Ø 800 x 630 mm
Swivelling range:	+/- 130°	+/- 130°
A axis speed:	25/55 rpm	15/25 rpm
C axis speed:	35 rpm	25 rpm
Max. table load:	400/600 kg	1000/1400 kg

C 42 U MT dynamic NC swivelling rotary table:

Control unit:	TNC 640 / S 840 D sl
Table with torque:	Ø 750 mm
Swivelling range:	+/- 130°
A/C Axis speed:	25/800 rpm
Max. turning table load:	700 kg
Max. milling table load:	1400 kg

Hermle C32 Machining Centres with 5 Axis Capabilities



Milling at its best: Hermle machines are often at the forefront when it comes to optimized results. The proverbial Hermle precision in combination with process consulting and project management has made us an important machine manufacturer in nearly all key sectors: From large complex components to the very smallest components in the high-tech sector. Versatile applications, uncompromising results Hermle – the original.

THE WORKPIECE DIMENSION

- Unlimited crane top loading to above the table centre
- When loading the crane the spindle moves to the magazine - this means the working area is completely clear and accessible
- Extensive automation solutions for optimum workpiece handling



3-axis

5-axis

650 x 650 x 500 mm

Ø 650 x 420 mm

max. 1500 kg

max. 1000 kg

Collision circle: Ø 840 mm

KEY FEATURES

TECHNICAL DATA

Traverse X-Y-Z:	650 - 650 - 500 mm
Speed:	9000 / 12000 / 15000 / 18000 rpm
Rapid linear traverse X-Y-Z:	60-60-55 m/min
Control unit:	iTNC 530 / S 840 D

NC swivelling rotary tables:

Tables with torque:	Ø650/ Ø540mm
Swivelling range:	+130° / -130°
A/C axis speed:	25/30 rpm
Max. table load:	600 kg

Hermle C400 Machining Centres with 5 Axis Capabilities



The Hermle C400 is a strong, precise machining centre for 5 axis / 5 sided work.



KEY FEATURES

TECHNICAL DATA

Traverse X-Y-Z:	850 - 700 - 500 mm
Speed:	15000 / 18000 rpm
Rapid linear traverse X-Y-Z:	35 m/min
Control unit:	iTNC 530

NC swivelling rotary tables:

Tables with worm:	ø650 x 540mm / ø440
Swivelling range:	+91° / -139°
A/C axis speed:	25/35 rpm
Max. table load:	600 kg / 400kg

Rigid clamping table:

	1070 x 700mm
Max. table load:	2000 kg

Röders RXD Series High Speed, Precision Milling Machines

röders
TEC

With over 200 years' experience, Röders have developed a range of high speed, absolute precision milling machines for applications where compromise just is not an option.

Their machines are suited across a wide range of industries, though the RXD series of machines are aimed at the precision field of Dental milling applications.

Advantages of Röders RXD Dental Milling Machines

- Wear-free axis drives with linear motion technology
- Extremely short machining times, potentially less than 5 minutes per unit
- Extreme machine stiffness, which results in avoiding tool vibrations and increasing tool lifespans.
- Highly efficient material utilisation resulting in production of up to 30% more production per disc, achieved by one-side clamping technology.
- Standard spindle speeds up to 50,000rpm, making them ideal for filigree dental work.



Contact Applied for
a technical brochure on the
range of Röders
machines



RXD4

- 180° swivel as fourth axis
- 2 swivel positions for machining the upper and lower sides (0° & 180°)
- Automatic clamping unit for fixing the Röders disc holder on the swivel axis
- One-sided clamping of the disc in the Röders disc holder for optimum material utilisation.



RXD5 & RXD5C

- RXD5C for very large swivel angles up to 135°, RXD5 up to 115°
- Integrated highly dynamic rotary swivel unit for simultaneous 5-axis machining, positioning freely
- Equipped with wear-free direct drives
- Extremely stiff construction with counter bearing
- Automatic clamping unit for fixing the Röders disc holder
- One-sided clamping of the disc in the Röders disc holder for optimum material utilisation.

Röders RXP Series High Speed, Precision Milling Machines

The RXP series machines from Röders are high spec, precision machines, manufactured for the most demanding of extreme accuracy of production environments.

Key Features of Röders RXP500 CNC Milling Machines

- Very efficient operation due to high stiffness and optimum layout of the mass inertia
- Two-sided support of the C-axis for high stability and precision
- High resolution optical encoders on all axes
- Powerful wear-free direct drives on all axes
- Special Röders 5-axis geometric compensation for high precision, long-life performance
- Precise temperature control of machine components
- For dynamic decoupling, the swivelling direction is at right angles to the X-axis
- Chucks for different pallet systems can be integrated into the C-table.



**RXP series
available up to
800 x 635 x 400mm
travels**



Item	Röders RXP 500 DSC
Machining range	450 x 455 x 240mm
Swivelling range	+/- 115 degrees
Rotation range	Almost unlimited
Table size	200mm (integrated chuck optional)
Workpiece weight	30kg maximum
Feedrate	0-40,000mm/min
Milling spindle (standard)	42,000rpm, 14kW, HSK E40, maximum tool diameter 16mm (others on request)
Tool changer	19 places (linear), optional: 42 or more places (chain changer - can be loaded during machine operation) Integrated tool measuring laser
Chip disposal	In 2 chip boxes, optional chip conveyor
Machine weight	approximately 6,000kg
Machine size	2710 x 2350 x 2320mm (L x W x H)

Kitamura Bridgecenter Double Column Machining Centres



The ideal machines for large component processing

Built on the 45 year proven Bridgecenter platform, the new Bridgecenter-G Series Double Column Machining Centres pack power and capacity into an even more space saving package. These high-capacity machining centres are designed for high-precision machining of extra-large, heavy components. They are ideal for a wide spectrum of applications – from heavy duty cutting of moulds, to high accuracy machining of high-tolerance parts. Available in various spindle configurations to meet your exacting requirements.



KEY FEATURES

- Outstanding accuracy of $\pm 0.002\text{mm}$ / full stroke
- Solid Boxway design with Linear Scale Feedback
- Fastest rapids in bridge style machines
- Space-saving compact footprints



Bridgecenter-G series VMCs are equipped with a high-performance double decker style chip disposal system. Twin augers efficiently evacuate chips from the work envelope. This system is up to 50% more efficient than competitive models.

These large working areas in combination with heavy table load capacities up to 6,000kg allow the Bridgecenter-G series to achieve excellent performance on heavy duty cutting of moulds, to high accuracy cutting of precision parts.

The Bridgecenter Series provides spacious working areas with ample table sizes up to 1,370mm x 3,500mm and Y-axis travel of 1,615mm



Kitamura Mycenter Horizontal Machining Centres

Setting the standard in mid size HMCs



The Mycenter-HX400G is setting the new standard in 400mm horizontal machining centres, delivering the ultimate in state-of-the-art HMC performance. Solid box guideways are equipped with linear scale feedback on all axes for unmatched accuracy and optimum stability. A standard 2-station APC couple with full 360 degree 4th axis capability means faster part turn around and more production per pallet load. Standard features such as the world's fastest 60m/min rapid feedrates, rear discharge hinge belt chip conveyors and numerous high-tech Icon-Drive Arumatik®-Mi control features make this space-saving mid size HMC your best choice for a wide variety of machining applications.



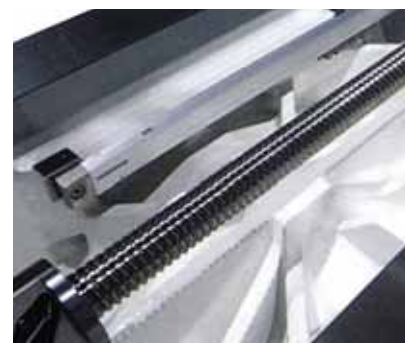
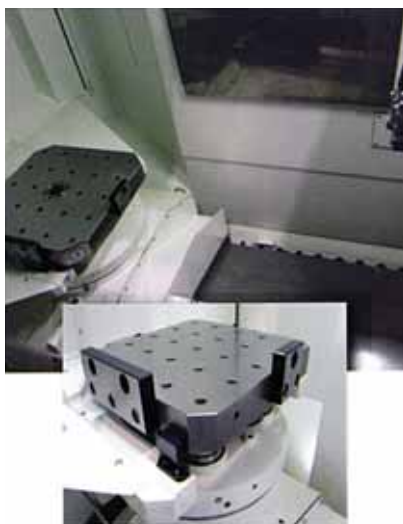
Call for a
comprehensive catalogue
covering the range of
Kitamura machines.

The twin station APC offer the ability to add pallets and pallet pool systems in the field. The large work envelope houses standard 4th axis rotary table that allow full 360° 4th axis capability for simplified processing of more complex, multi-sided parts.

Both the HX400G and HX500G feature our exclusive standard 50 tool, fixed pot ATC. In-the-field tool capacity expansion up to 300 tools is available (depending on model). Ultra fast tool-to-tool change times of 1.3 seconds (40 taper) and 2.1 seconds (50 taper) optimises the machine performance

Linear Axes (X, Y, Z) – Standard.

State of the art, fine resolution (10 nanometre) optical linear scale feedback. Highest in-class accuracy.



Ibarmia Precision Machining Centres



Manufactured in the north of Spain in Basque country, Ibarmia universal machining centres offer machining solutions that are second to none. Ibarmia has a rich history of building high quality machine tools to suit most industrial applications.

Ibarmia prides itself on a continued commitment to innovative advancements in their technologies, which in turn builds strong

relationships with customers across the globe.

Ibarmia offers a huge range of range of machines to suit customers' needs, with machines from 3 axis to 6 axis configurations and travels up to 12,000mm. Customisation of machines beyond the advertised specifications is often possible upon request.

ZV CLASSIC SERIES

3 axis machines as standard, though horizontal rotary table is available as an optional upgrade.

KEY FEATURES

- Classic transmission belt / pulley for high rigidity and torque
- Up to 12,000mm travel in X axis
- 600/800/1000mm travel in Y axis
- Specifically constructed bodies for either ISO40 or ISO50 spindles.

Ibarmia ZVH EXTREME Series



KEY FEATURES

- Head: Inbuilt motor spindle allowing for high speed, dynamic performance
- Up to 12,000mm travel in X axis
- 600/800/1000mm travel in Y axis
- Specifically constructed bodies for either ISO40 or ISO50 spindles.

High productivity and flexibility with no limits

Possibility of pendulum configuration with 2 independent working areas and different equipment level on each area. Generic works along the table or pendulum work on series of pieces.

Process control

We speak about machines with the highest technology and combination of linear and rotating axes. We use the most advanced CAM tools to support our customers in the most suitable and innovating processes, reducing to a minimum the risk of collision.

Moving column

Monoblock machine bed, everlasting stability in moving column architecture. High dynamic performance, linear rapid movements at 45m/min with high accelerations.

Attractive and innovating design

Advanced and clean exterior design making it an attractive and beautiful machine. The circular windows, besides being the IBARMIA corporate identity, give it originality and make it stand out from the crowd.

The combination of grey tones with details in the corporate colour violet highlight its lines and make it an elegant and pleasant machine for the user.

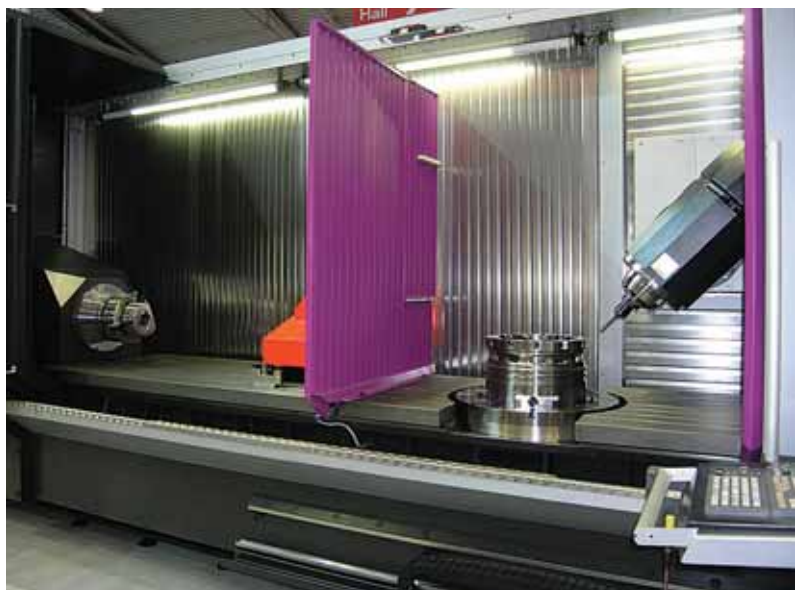
Ibarmia ZVH Multiprocess Series



The machine's design allows for different jobs to be worked over the fixed table and the turning plate, with the possibility of combining them with a pendulum configuration.

Machines can be made to order with up to 6000mm X-axis travel (length), 1000mm Y-axis travel (cross) and 900mm Z-axis travel (vertical) with 1300mm swing diameter.

Ibarmia's ZVH Multiprocess Centres allow for flexibility without limits.



Ibarmia Series-T 5 Axis Machining Centres



Ibarmia's
next generation 5-axis
'multiprocess'
centre



Solid 5-axis model based on moving column and moving table architecture. Available as "multiprocess" for milling and turning of workpieces in one machine/clamping. Large work capacities up to 2000mm diameter pieces weighing up to 8000kg. Optional extras including fully automated loading and unloading systems.

MODEL		THC12	THC16	THC22
Max swing (diameter)	mm	1200	1600	2200
Max piece height	mm	1200	1400	1500
X axis - longitudinal	mm	1200	1600	2200
Y axis - transversal	mm	1100	1300	1600
Z axis - vertical	mm	1000	1200	1500
B axis- continuous tilting with hydraulic blocking		- 15° bis +195°		
C axis table continuous		360°		
Table dimensions - EXTREME	mm	800 x 800	1000 x 1000	1250 x 1250
Table dimensions - MULTIPROCESS (diameter)	mm	1000	1250	1600
Max load - EXTREME	kg	3500	6000	10000
Max load - MULTIPROCESS	kg	2250	3000	9000
Distance spindle nose to table	mm	100-1100	100-1300	0-1500
Tool taper		SK-50 DIN 69871 (Opt. HSK-A100)		
Max rpm		10.000 rpm (7.000 rpm)		
Spindle power (S1 100% / S6 40%)		32 / 50 kW - 180 / 281 Nm (Opt. 38 / 57 Kw. - 240 / 363 Nm)		
Milling capacity in steel 600 N/mm² (milling drilling tapping)		1200 cm³/min 70 mm M45		
Work feed / Fast feed X-Y-Z	m/min	0 - 30 / 45 - 37.5 - 45		
Acceleration X-Y-Z	g	0.3		
Positioning accuracy Tp B	mm	0.01		
Repeatability	mm	0.005		
Tool magazine (option)		60 (optional Hasta 360)		
Max tool diameter	mm	125		
- next position free	mm	175		
Max length	mm	400		
Max weight	kg	20		
Tool changing time	s	8		



Lang Technik. Workholding Automation



LANG
TECHNIK.de



Whether you are investing, controlling production or re-equipping machines, with LANG Technik your work will consistently become a great deal easier. All of our products are safe and easy to use. Being modular, they build onto each other, complement each other perfectly and are seamlessly combinable with machinery and components from other manufacturers.

We keep our eye on the big picture in order to sustainably optimise your processes, paying particular attention to the fact that with our solutions you remain free to adapt to your changing requirements,

products and future process developments. A great example is our modular Quick•Point® zero-point clamping system. It can be equipped to almost any machine tool and with only 27 mm height it is one of the lowest systems on the market.

Every month, Lang Technik delivers thousands of clamping set-ups to customers all over the world to help them increase their production efficiency. Applied Machinery is proud to supply the range of Lang Technik products to the Australian market.



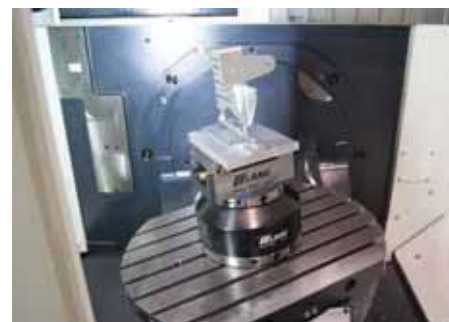
The Multi Grid Plates shorten set-up times by clamping up to 16 clamping studs (for example four vices or fixtures) with only one actuation screw simultaneously.



The modular concept of our Quick•Point® system allows to change quickly and easily from the 96 to 52 grid with adaptor plates.



With the new 5-Axis Riser you can create the necessary distance to the machine table for 5-face machining. The massive steel body provides more stability and does not require an additional interface for clamping devices.

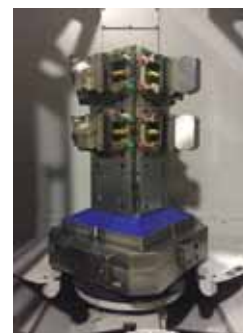


Lang Technik. Quick Tower

The zero-point clamping system for horizontal machining centres.



Complete Lang
Technik catalogue
available for
download.



These images show different applications of the Quick Tower. When using Quick Point clamping studs in the workpiece, the parts can also be clamped and processed directly in the tombstone's zero-point plates.



The 4-fold Grid Plate (left) is a precise and flexible mounting option for Quick•Towers which is also congruent with the tombstone's base. By actuating just one clamping screw the Quick•Tower is set-up and stripped down quickly and highly precise. For more information on the 4-fold grid plate, please call us on 03 9706 8066

Machtech Heavy Duty Drilling Machines



The HDGH range of Machtech geared drills are manufactured in a CE compliant manufacturing plant from which world class machinery is produced. A heavy duty gearbox suitable for industrial applications ensures long life and optimum performance in a production environment.

KEY FEATURES

- Button operated power feed
- Tapping
- Auto tool release
- Rotatable table
- Coolant
- Tapers, arbor, chuck



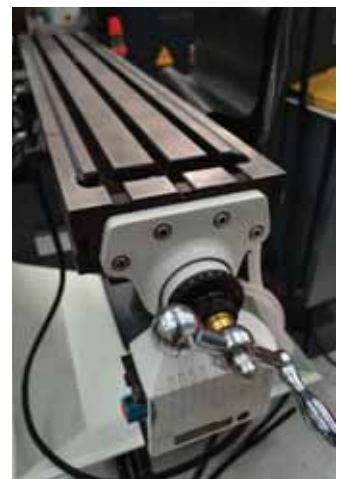
MODEL	HDGH30	HDGH40	HDGH50
Drilling Capacity	40mm	40mm	50mm
Tapping Capacity	16mm	20mm	27mm
Spindle Travel	120mm	180mm	200mm
Throat Depth	270mm	350mm	380mm
Spindle Taper	MT4	MT4	MT4
Column Diameter	115mm	150mm	160mm
Spindle Speed	75-3200rpm (12)	50-1450rpm	70-2100 (9)
Work Table	540 x 470mm	560 x 560mm	600 x 500mm
Spindle To Base	1200mm	1210mm	1175mm
Spindle to Work Table	740mm	770mm	590mm
Power Feeds	0.10, 0.20, 0.30	0.1-0.2mm/rev	0.12, 0.23, 0.40
Weight	330kg	510kg	710kg
Motor Power	1.1kW	1.5kW	2.2kW
Price	\$2,950 +GST	\$3,850 +GST	\$6,250 +GST

Machtech Turret Milling Machines

Machtech turret milling machines use a high grade meehanite casting with adjustable dovetails on all axes. The Taiwanese variable speed head houses a spindle sleeve that is ground to a fine tolerance with automatic feed. Featuring a 3 axis digital readout and table power feeds as standard, Machtech TM series mills are quality, affordable machines for all of your workshop milling applications.

KEY FEATURES

- 3 Axis DRO as standard
- Table power feeds
- Spindle sleeve tolerance 0.01mm
- Quill power feed
- Vice and clamp kit
- Swivel & incline heads
- Infinite variable speeds
- High grade meehanite casting
- Hardened and ground bedways
- All bedways with splash protection
- Siemens electrics
- Lubrication systems fitted
- Coolant systems fitted



MODEL	TM200V	TM400V	TM500V
TABLE SIZE	1245 x 230mm	1270 x 250mm	1370 x 300mm
X Y Z TRAVEL	720 x 320 x 400mm	760 x 380 x 420mm	800 x 415 x 420mm
3 AXIS DRO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
POWER FEEDS	X AXIS	X, Y & Z AXIS	X, Y & Z AXIS
SPINDLE TO TABLE MAX	390mm	485mm	540mm
SPINDLE TO BODY MAX	482mm	670mm	550mm
SPINDLE TAPER	NT40	NT40	NT40
SPINDLE SPEEDS	vari. 80-4530rpm	vari. 80-4200rpm	vari. 50-3750rpm
HEAD SWIVEL	+/- 90°	+/- 90°	+/- 90°
HEAD INCLINE	+/- 45°	+/- 45°	+/- 45° or fixed
WEIGHT	1100kg	1365kg	1650kg

Aykapak APK Series Section & Pipe Rolling Machines



Akyapak is a premium Turkish manufacturer of metalworking machinery. Their signature machines include section rolling, plate rolling, pipe bending, and dishing/flanging machines.

Akyapak are a manufacturer without compromise, and the quality of their finished product is world class, though priced to be extremely competitive within the market.

On the floor in Melbourne, Applied Machinery hold a range of APK series section and pipe rolling machine, along with sets of AHS series plate rolling machine. Stock machines are on hand for quick delivery.

Call our sales team on 03 9706 8066 to discuss how an Akyapak machine is best suited to your business requirements.

APK KEY FEATURES (50/61/81)

- Special steel shafts, hardened and ground
- Hydraulic up/down for lower rolls
- Digital display for lower rolls
- Horizontal and vertical working positions
- Guide rolls
- CE certified
- Roving control panel with foot pedal

Optional Extras (50/61/81)

Some features standard on larger machines.

- Adjustable guide rolls for angle profiles
- Spiral bending device
- Variable speed of rotation
- NC playback control system
- CNC graphical control system

Standard spacer tooling is included with each machine, and countless die options are available to purchase to perfectly suit your requirements.

For large capacity, high end bending. The CNC range of APK machines offers a competitively priced, extreme accuracy solution for the most demanding of tasks.



Accurate & repeatable bending. Each and every time.



APK81 CNC



APK 101 CNC



APK 50



APK 800

Please call for capacity/profile chart across the entire range of APK series section and pipe rolling machines

Aykapak AHS Series 4 Roll Initial Pinch Plate Rolling Machines

These plate roll are a 4 roll, initial pinch design for maximum accuracy across the entire length of the bend. They are induction hardened, bearing mounted rolls, with the centre roll being driven by a hydraulic motor and planetary gear box.

The CNC series offer the flexibility of graphical CNC control of all operations.

The AHS series from Akyapak are available with up to a huge 70mm bending capacity

AKYAPAK
METALWORKING TECHNOLOGIES



KEY FEATURES

- Induction hardened, bearing mounted rolls
- Centre roll driven with hydraulic motor and planetary gear box
- Two speed control
- Digital display for side roll
- Cone bending device, open/close operated from control panel
- Drop end operated from control panel
- Mobile control panel on wheels

Optional Extras

- Side and central supports for bigger rolling diameters
- Changeable top roll with smaller diameters
- Infinitely variable speed of rotation
- CNC graphic control



AHS 30-40



AHS 30-80



AHS 30-100



AHS 30-150

MODEL	Unit	AHS 15/04	AHS 20/06	AHS 30/06	AHS 40/13	AHS 60/36
Working Length	mm	1600	2100	3100	4100	6100
Maximum Thickness	mm	6	8	8	16	45
Pre-Bending	mm	4	6	6	13	36
Top Roll	mm	140	190	230	390	720
Bottom Roll	mm	140	170	210	360	680
Side Roll	mm	120	150	190	300	600
Motor Power	kW	2.2	3.0	7.5	15	55
Weight	kg	2040	3290	6020	20100	85400

* Many more capacities available

Machtech PDR Series Plate Rolls



PDR plate rolls are a conventional mechanical pyramid design. The drive system consists of an electric motor driving a reduction gearbox to power the drive rolls. Also a secondary motor drives leadscrews to power the up & down movements of the top roll. The top roll can be driven into a mechanical stop to eject the work piece when full pipes are rolled. Stub shafts allow for section rolling any shape material you can make a tool for, Angle iron and pipe rolls are included as standard.

KEY FEATURES

- Roving foot pedal
- Electric up/down of the top roll
- Section rolling capabilities from stub extensions
- Safety shut off guarding
- Digital readout standard
- Side angle attachment



MODEL	PDR 1300-4.0	PDR 2000-3	PDR 2500-6.0	PDR 3100-6.0
WORKING WIDTH	1300mm	2000mm	2500mm	3100mm
THICKNESS CAPACITY	4.0mm	3mm	6.0mm	6.0mm
TOP ROLL DIAMETER	135mm	135mm	210mm	240mm
BOTTOM ROLL DIAMETER	110mm	110mm	190mm	210mm
MOTOR	3.0kW	3.0kW	5.5kW	5.5kW
DIMENSIONS	2250 x 720 x 1300	2800 x 720 x 1300	4100 x 1100 x 1270	4600 x 1150 x 1450
WEIGHT	1060kg	1650kg	3195kg	5390kg
PRICE	\$6,900+GST	\$8,900+GST	\$15,800+GST	\$16,900+GST

Machtech 4 Roll Prebend Type Plate Rolls



KEY FEATURES

Machtech 4 roll, prebend type plate rolling machines incorporate the highest level of technology and build quality.

Utilising high grade carbon steel rolls with hydraulic control of position, the 4 roll system allows for prebending, thus perfect cylinders and cones can be produced in one pass.

Machtech 4 roll plate rolls are available from 6mm x 1500mm through to the huge capacity 60mm x 3000mm and represent the highest quality and technologies available in a 4 roll prebending type machine.

If you are in the market for a new set of rolls, you should definitely consider these Machtech 4 roll machines which represent exceptional value for money combined with premium performance.

- Rolls are forged carbon steel (42CrMo). Hardened and ground.
- Built to CE standards for European market
- Hydraulically controlled yoke for easy job removal
- Convenient control console with Omron readouts for all functions and joystick controls
- Rolls driven by hydraulic motor with planetary reduction for high torque
- Perimeter safety device (wire)
- Capacities up to 40mm



MODEL	4R 8-2500	4R 12-3000
MAXIMUM ROLLING THICKNESS	8mm	12mm
MAXIMUM PREBENDING THICKNESS	8mm	10mm
WORKING LENGTH	2500mm	3000mm
YIELD STRENGTH	245mpa	245mpa
MAIN ROLL DIAMETER	240mm	300mm
BOTTOM ROLL DIAMETER	220mm	270mm
SIDE ROLL DIAMETER	200mm	240mm
ROLLING SPEED	4m/min	4m/min
MOTOR POWER	7.5kW	11kW

Bossray NC Series Tube Benders



With over 3000 machines sold in 33 countries across the globe. Bossray are a leading manufacturer of NC and CNC tube bending machines for a wide range of applications. Machines available in Australia for inspection* Contact us with your requirements and we will provide a detailed proposal for the best Bossray machine to suit your job and your budget.

KEY FEATURES

- Hydraulic C-axis (bending arm), die clamp and die pressure
- Automatic mandrel lubrication and mandrel retraction unit
- Automatic tube bending
- NC automatic bending controlled by PLC for efficient, economical operation. With water cooling.
- User-friendly control panel with simple operation of all critical operations.



Schneider Thermal Overlay.
French componentry

QUALITY COMPONENTS



Omron Control. Easy to use interface, with optional touch screen function.



Nemicon Encoder. Japanese componentry



Yuken Directional Valve. Electromagnetic directional valve from Yuken (Japan). Bosch (Germany) upgrade available

* Conditions apply

Bosrray CNC Series Precision Tube Benders



bossray®

These fully automatic pipe bending machines feature a PLC control system and full touch screen display. They can operate in manual, semi-automatic or fully automatic modes and multiple axes of bending can operate simultaneously.

KEY FEATURES

- Fully automatic feeding, bending and rotating.
- Hiwin linear guides (Taiwan)
- Mitsubishi servo motors – rotating and feeding (Japan)
- One key backup of programs for USB on online storage
- PC control with 3D simulation function and collision prevention (Windows environment)
- Hydraulic or electric bending tube
- Designed to allow for multiple tool stack

Precision dies
available to suit even
the most complex of
profiles



Machtech Hydraulic Nut Insert Presses



Machtech hydraulic nut insert presses are a full range of manual and automatic feed models. The 618 series feature a 6 ton and 18" capacity, whereas the 824 series are 8 ton machines with 24" capacities. These machines feature a proven design and are manufactured to the highest standards. Machtech nut insert presses are available ex stock and represent exceptional value for money.

KEY FEATURES

- Patented safety device
- Positive limit for soft materials
- Variable dwell time for stainless steel and hard materials
- Proven design
- Job counter
- Automatic feeding on all auto models.



33 piece tooling package



Auto FH stud tooling set



Vibratory bowl



MODEL	618	824
INSERTION PRESSURE	64kN	72kN
THROAT DEPTH	450mm (18")	610mm (24")
THROAT HEIGHT	381mm (15")	432mm (17")
NUT CAPACITY IN MILD STEEL	M10	M12
HYDRAULIC DRIVE	2.2HP	5.0HP

Machtech Hydraulic Moulding Presses



Machtech HMP series hydraulic moulding presses are extremely versatile machines, suiting punching, pressing and leveling jobs, as well as moulding applications.

KEY FEATURES

- Column type guides to ensure parallelism
- Large top ram plate
- T-slot table for tool setting and clamping
- Foot pedal operation
- Sturdy and durable frame for longevity and reliability



MODEL	HMP63	HMP100	HMP150	HMP200	HMP300
MAXIMUM PRESS FORCE	63 ton	100 ton	150 ton	200 ton	300 ton
HYDRAULIC PRESSURE	30 Mpa	30 Mpa	30 Mpa	30 Mpa	30 Mpa
UPPER MOULD STROKE	500mm	500mm	500mm	500mm	400mm
DISTANCE BETWEEN COLUMNS	900mm	1050mm	1250mm	1250mm	1250mm
DOWNSTREAM SPEED	12mm/s	19.1mm/s	12.2mm/s	9.7mm/s	5.9mm/s
WORKING SPEED	3mm/s	4.8mm/s	3.1mm/s	2.4mm/s	1.5mm/s
RETURN SPEED	16mm/s	26.4mm/s	16.8mm/s	14.5mm/s	8.5mm/s

RECYCLING

Genox Recycling Technology



Applied Machinery, over the course of a ten year partnership with Genox Recycling Technologies has become one of the largest stockist and suppliers of recycling equipment in Australia.



Applied, working closely and collaboratively with Genox on products, has seen the development of a complete range of recycling equipment to handle the complex and sometimes challenging applications that are associated with today's environmental and waste management industries. Equipment offered ranges from stand-alone shredder or granulator units, through to complete turn-key systems for size

reduction, washing and separating of contaminated plastics and other materials.

Put us to the test. Come in and discuss your current and upcoming equipment requirements. There are no projects too big or too small. We can deliver a simple shredder system, or we can supply a complete, fully customised plant throughout multiple sites across the country.



Single Shaft Shredders



Twin Shaft Shredders



Granulators



Plastic Washing Systems



Tyre Recycling Plants



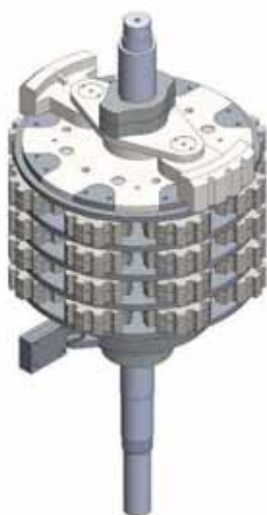
E-Waste & C&D Shredding Systems

Genox Ozma Series Vertical Shredders

Genox Ozma (Z-Series) vertical shredders can operate either as standalone units, or as part of larger recycling lines. They are over-engineered, heavy duty shredders designed for the most demanding of size reduction applications in the most demanding of environments.

Common applications can include e-waste shredding and size reduction of construction and demolition waste streams.

Whether the aim of your size reduction tasks is to maximise volumetric weight of waste destined for landfill, or it is just a precursory step to further sorting and processing, we will be able to show how a Z-Series vertical shredder from Genox will be able to add significant value to your bottom line.



Standard Rotor



H-Rotor



Genox Z1500 shredder as part of a toner recycling line

Specification	Power	Rotation diameter	Speed	Chamber diameter	Chamber height	Bottom clearance	Breakers	Rings (PCS)		Hammers (PCS)	
Unit	kW	mm	rpm	mm	mm	mm	pcs	Standard	H-rotor	Standard	H-rotor
Z1500	110	1080	520/650	1280	1450	30/50/80	2	48	12	/	30
Z2500	90+90	1300	520/650	1620	1460	30/50/80	2	48	12	/	30
Z3500	132+132	1440	520/650	1780	1540	30/50/80	2	64	16	/	40
Z6000	220+220	1580	520/650	1900	1540	30/50/80	2	64	16	/	40

RECYCLING

Genox Vision Series Single Shaft Shredders



VISION Series Single Shaft Shredders are small to medium size reduction machines suitable for processing a wide range of materials to a uniform particle size. The products can often be sold as is, or be sent for further processing through additional equipment. Throughputs typically range between 300kg/hr-5,000kg/hr+ depending on the model, material type and application.

Typical Applications Include

- Plastics -Mouldings, Purgings/Lump, Profiles, Films etc.
- Timber/Wood - Pallets, Joiners Waste, Green Waste etc.
- Paper & Cardboard - Confidential Documents, Production Waste, Packaging Materials etc.
- Copper Cable - Household, Telecoms and Industrial Cables including S.W.A
- Aluminum - Used Beverage Cans (UBC's), Swarf, Cables etc.
- Textiles - Carpet (Rolls & Tiles), Garments etc.
- Security Destruction - Counterfeit Items, Faulty Goods, Out of Date Stock etc.
- Foam - Production Waste etc.



Genox Vision Series Single Shaft Shredders



V800 Cable Shredder



V600 Foam Shredder

Model	V500	V600	V800
Dimension L/W/H(mm)	1780 X 1192 X 1686	1780 X 1292 X 1686	2665 X 1760 X 2087
Hopper inlet (mm)	790 X 500	790 X 600	1300 X 800
Discharge height (mm)	447	447	565
Ram (mm)	500	500	815
Rotation diameter (mm)	Ø220		Ø400
Rotor operation length (mm)	500	600	800
Rotation speed (rpm)	80	80	80
Screen (mm)	Ø 40	Ø 40	Ø 40
Rotor knives (PCS)	19	23	35
Counter knives (PCS)	4	4	4
Drive power (Kw)	15	18.5	37
Hydraulic power (Kw)	1.5	1.5	2.2
Hopper volume (L)	660	760	1500
Weight (Kg)	Approx 1500	Approx 1650	Approx 3650

Model	V1000	V1200	V1500
Dimension L/W/H(mm)	2665 X 1960 X 2087	2665 X 2500 X 2087	2665 X 2805 X 2137
Hopper inlet (mm)	1300 X 1000	1300 X 1200	1300 X 1500
Discharge height (mm)	565	565	615
Ram (mm)	815	815	815
Rotation diameter (mm)	Ø400		
Rotor operation length (mm)	1000	1200	1500
Rotation speed (rpm)	80	80	80
Screen (mm)	Ø 40	Ø 40	Ø 40
Rotor knives (PCS)	45	55	70
Counter knives (PCS)	4	6	6
Drive power (Kw)	45	55	75
Hydraulic power (Kw)	2.2	5.5	5.5
Hopper volume (L)	1760	2030	2430
Weight (Kg)	Approx 4250	Approx 5050	Approx 6300

RECYCLING

Genox Xeno Series Twin Shaft Shredders



Genox Xeno X1300 with de-dusting system

Xeno series large capacity twin shaft shredders / rotor shears are equipped with high powered motors and high torque gears for pre-shredding of large quantities and volumes of various waste material such as:

- Metal Drums
- Steel Scrap
- Aluminium Profiles
- Aluminium Castings
- Plastic Drums
- Bulk Plastics
- Electrical Equipment
- Electronic Scrap
- Tyres and Rubber
- Paper Industry Waste
- Wood Waste

Optional Upgrades / Inclusions:

- Motor power and gear size customisation
- Hydraulic crammer
- Hydraulic drive (instead of electrical)
- De-dusting system



Genox Xeno Series Twin Shaft Shredders



Data \ Model	X1300	X1600
Dimension (L/W/H) (mm)	4730 X 2210 X 2825	4245 X 2260 X 2600
Chamber size (mm)	1300 X 878	1600 X 878
Discharge height (mm)	1250	1250
Rotation diameter (mm)	Φ514	Φ514
Rotation speed (rpm)	7.5~14.5	7.5~14.5
Number of blades (pcs)	26	32
Blades thickness (mm)	50	50
Drive power (Kw)	37+37	45+45
Hopper volume (L)	1700	2000
Weight (Kg)	Approx 11000	Approx 14500

Data \ Model	X1500	X1800
Dimension (L/W/H) (mm)	6060 X 2400 X 3750	6360 X 2400 X 3750
Chamber size (mm)	1500 X 1440	1800 X 1440
Discharge height (mm)	1400	1400
Rotation diameter (mm)	Φ800	Φ800
Rotation speed (rpm)	5.5~10	5.5~10
Number of blades (pcs)	30/20	36/24
Blades thickness (mm)	50/75	50/75
Drive power (Kw)	110-180	110-220
Hopper volume (L)	3600	4060
Weight (Kg)	Approx 24000	Approx 27000

RECYCLING

Genox Behemoth Series Single Shaft Shredders



Behemoth series large capacity single shaft shredders are designed for shredding a variety of waste down to coarse or medium sized particles. The powerful and wear-resistant system has been engineered for the most rugged of recycling applications.

Typical applications of this heavy duty shredder include:

- MSW
- Industry Waste
- UBC
- Wood Waste
- Household Waste
- Bulky Waste
- C&D Plastic
- Paper Waste
- Alternative Fuel



Rotor & Screen



Ram Pusher



Driving Unit



Control Panel

Genox Behemoth Series Single Shaft Shredders



Model	GXC800	GXC1000	GXC1200
Dimension (L/W/H) (mm)	2120×1900×3700	2120×2010×3700	2120×2320×3700
Hopper opening (mm)	800×1000	1000×1000	1200×1000
Rotation diameter(mm)	520		
Rotor operation length (r/min)	800	1000	1200
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	5×2	5×2	5×2
Counter knives PCS	2×1	2×1	2×2
Drive power (kW)	55~75	55~90	75~90
Hydraulic power (kW)	1.5	1.5	1.5
Weight (kg)	Approx 4000	Approx 4800	Approx 5500

Model	GXC1000T	GXC1200T	GXC1600T
Dimension (L/W/H) (mm)	2410×2100×4250	2410×2320×4250	2410×2720×4250
Hopper opening (mm)	1000×1130	1200×1130	1600×1130
Rotation diameter(mm)	660		
Rotor operation length (r/min)	1000	1200	1600
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	5×2	5×2	5×4
Counter knives PCS	2×1	2×2	2×2
Drive power (kW)	75~110	90~132	110~160
Hydraulic power (kW)	2.25	2.25	2.25
Weight (kg)	Approx 5800	Approx 7400	Approx 10000

Model	GXC1200G	GXC1600G	GXC2000G
Dimension (L/W/H) (mm)	2750×2670×4630	2750×3070×4630	2750×3470×4630
Hopper opening (mm)	1200×1100	1600×1100	2000×1100
Rotation diameter(mm)	800		
Rotor operation length (r/min)	1200	1600	2000
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	7×2	7×4	7×4
Counter knives PCS	2×2	2×2	2×2
Drive power (kW)	110~160	160~250	250~315
Hydraulic power (kW)	2.25	2.25	2.25
Weight (kg)	Approx 9500	Approx 125000	Approx 16000

RECYCLING

Genox Gran-Calibur Series Granulators

GC granulators were designed especially for defined size reduction of various materials in a single pass. Rotor and counter knives are made from high quality steel.. The material is cleanly sheared off between rotor knives and

counter knives, a defined granulate is formed by the desired screen mounted below the rotor. The highly efficient granulating principle works with very small cutting gaps.



GC600 with sound proofing



GC600 with sound proofing

Genox Gran-Calibur Series Granulators

Data \ Model	GC600	GC600T	GC800
Dimension (L/W/H) (mm)	1114×1330×1829	1226×1158×2198	1226×1358×2198
Hopper opening (mm)	562×498	562×615	762×615
Rotation diameter(mm)	Φ260	Φ320	Φ320
Rotor operation length (r/min)	600	600	800
Rotation speed(r/min)	580	580	580
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	3×2	3×2	3×2
Counter knives PCS	2×1	2×1	2×1
Drive power (kW)	15	22	30
Weight (kg)	Approx 1000	Approx 1500	Approx 1800

Data \ Model	GC800T	GC1000
Dimension (L/W/H) (mm)	1328×1427×2286	1328×1627×2286
Hopper opening (mm)	762×615	962×615
Rotation diameter(mm)	Φ420	Φ420
Rotor operation length (r/min)	800	1000
Rotation speed(r/min)	580	580
Standard screen (mm)	Φ12	Φ12
Rotor knives PCS	3×2	3×2
Counter knives PCS	2×1	2×1
Drive power (kW)	37	45
Weight (kg)	Approx 3000	Approx 3500



GC800 granulator with sound proofing



RECYCLING

Genox Gran-Calibur Series Granulators



Gran-Excalibur series granulators from range from 55kW through to 315kW. They have been designed specifically for high throughput processing. With a variety of rotor configurations, these granulators have a wide range of applications including:

Hollow & Voluminous Materials

- Including - Plastics drums, crates and chairs

Flexible Materials

- Including - film, large woven bags and rubber

Hard & Thick Materials

- Including - profiles and large sheets



Genox Gran-Calibur Series Granulators



Model	GXC800	GXC1000	GXC1200
Dimension (L/W/H) (mm)	2120×1900×3700	2120×2010×3700	2120×2320×3700
Hopper opening (mm)	800×1000	1000×1000	1200×1000
Rotation diameter(mm)	520		
Rotor operation length (r/min)	800	1000	1200
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	5×2	5×2	5×2
Counter knives PCS	2×1	2×1	2×2
Drive power (kW)	55~75	55~90	75~90
Hydraulic power (kW)	1.5	1.5	1.5
Weight (kg)	Approx 4000	Approx 4800	Approx 5500

Model	GXC1000T	GXC1200T	GXC1600T
Dimension (L/W/H) (mm)	2410×2100×4250	2410×2320×4250	2410×2720×4250
Hopper opening (mm)	1000×1130	1200×1130	1600×1130
Rotation diameter(mm)	660		
Rotor operation length (r/min)	1000	1200	1600
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	5×2	5×2	5×4
Counter knives PCS	2×1	2×2	2×2
Drive power (kW)	75~110	90~132	110~160
Hydraulic power (kW)	2.25	2.25	2.25
Weight (kg)	Approx 5800	Approx 7400	Approx 10000

Model	GXC1200G	GXC1600G	GXC2000G
Dimension (L/W/H) (mm)	2750×2670×4630	2750×3070×4630	2750×3470×4630
Hopper opening (mm)	1200×1100	1600×1100	2000×1100
Rotation diameter(mm)	800		
Rotor operation length (r/min)	1200	1600	2000
Rotation speed(r/min)	520	520	520
Standard screen (mm)	Φ12	Φ12	Φ12
Rotor knives PCS	7×2	7×4	7×4
Counter knives PCS	2×2	2×2	2×2
Drive power (kW)	110~160	160~250	250~315
Hydraulic power (kW)	2.25	2.25	2.25
Weight (kg)	Approx 9500	Approx 125000	Approx 16000

RECYCLING

Genox WEEE Recycling Lines

Genox WEEE recycling systems present efficient, cost effective solutions to many of the challenging environmental problems presented by these common, everyday items which are historically very difficult to intelligently and thoughtfully recycle.

- **Refrigerators** – Flexible Genox systems can be designed to process between 60 and 120 units per hour with complete ferrous and non-ferrous separation
- **Printers and toner cartridges** – Extensive R&D from Genox has lead to the development of class leading systems to efficiently recycle printer and toner cartridges from most major manufacturers
- **Hard discs** – After identifying a need in the market, Genox has developed a smaller footprint, high torque system to efficiently shred hard discs for low volume processors for which the barrier to entry in this market has previously been far too high.



Genox Cable Recycling Lines

All copper or aluminium/steel cable with PVC/PE, rubber or other insulation material can be recycled by the Genox combination cable recycling system. The modular design allow for the adding of optional devices at any stage to meet changing customer requirements.



Genox Plastic Washing Systems

Genox universal plastic washing plants are high performance recycling systems for rigid or flexible plastics from various sources, including materials with high contamination levels. Genox provides effective, customised and cost-effective solutions to meet all manner of washing applications.

These modular systems are capable of processing general plastics such as:

- HDPE bottles
- PP woven bags
- PE film (post-consumer or agricultural)
- PET bottles



Genox Tyre Recycling Plants

Used tyres are a severe problem for the environment. Genox tyre recycling plants are designed to tackle this problem head on! With the advantages of fully automatic (no need for manual steel wire de-beading), ambient temperature processing and non-secondary pollution, these plants are designed for ease of use without the need for extensive and costly specialised operator training.

Key stages of the tyre recycling process:

- Pre-shredding
- Secondary shredding
- Steel wire separation
- Fine granulation
- Size classifying
- Textile separation



**A complete Tyre
recycling solution for
Australian industry**



RECYCLING

Polystar Repro-Flex Film Recycling Lines

Recycling
Made
Simple

POLYSTAR



Polystar's Repro-Flex is designed for the reprocessing of polyethylene (HDPE, LDPE, LLDPE) and polypropylene (PP) flexible packaging material, printed and non-printed. This cutter integrated pelletising system eliminates the need for material pre-cutting, requires less floorplace and uses significantly less energy whilst still producing very high quality plastic pellets at a highly efficient rate.

KEY FEATURES

- 100% of pellets are reusable and can go straight back into your production line
- Minimal material degradation, without affecting material properties
- Significantly reduce your production costs and environmental footprint by reprocessing your own industrial waste

A quality,
affordable film recycling
solution. Contact us for
further information

Model	Output*	Power Consumption	Dimensions
	(kg/hr)	(kW)	L x W x H (mm)
Repro-Flex 65	80-120	40	10200 x 5400 x 2900
Repro-Flex 85	180-250	55	11000 x 6100 x 3100
Repro-Flex 100	300-400	132	13100 x 6400 x 3200
Repro-Flex 120	450-600	160	15900 x 7500 x 3500
Repro-Flex 150	700-800	250	17000 x 8400 x 3600
Repro-Flex 165	850-1000	320	17500 x 8800 x 3600
Repro-Flex 180	1000-1200	385	18500 x 9500 x 3700

*Output based on clean, dry LPDE film processing without degassing

Polystar Repro-Flex Film Recycling Lines

POLYSTAR

All Polystar Repro-Flex lines are totally customisable to suit your individual requirements. These tailored solutions provide you with a built-for-purpose solution to your film recycling applications.

- Numerous degassing and filtration options
- Minimal space requirements
- Personalised design to meet your requirements and factory layout



Triple degassing

In addition to the double degassing in the first extruder, the venting area (the connection between the first and second extruders) serves as a third degassing section to further remove the ink and extra moisture from the material.

Dosing device

Colour masterbatches and CaCO_3 compounds (in pellet form) can be added during the recycling process

Filter re-positioning

The re-positioning of filtration before degassing ensures a superior degassing effect, resulting in excellent quality pellets from even the most heavily printed material.

Unvented extruder

The unvented extruder has a very short screw L/D ration, in which the material travels in the extruder for the shortest time and distance. This results in minimal material degradation and changes in property and higher output compared to a vented extruder.



PLASTICS

Easymaster Third Generation Servo Drive Series 80-560 ton



The SVP/3 series of servo-driven injection moulding machines combine Chen Hsong's proven history of optimised machine design with new concepts and modules, resulting in a machine that sets new standards in performance and ease-of-use. New ergonomic features, an enlarged power pack and

structurally-strengthened platens yield large improvements in stability and precision, while further enhancements in the hydraulic systems reduces energy waste due to pressure drops. The SVP/3 series builds on more than half a century of technical excellence and is your ideal choice for the future.



Excellence

Intelligent, high precision, environmentally friendly and highly efficient

Quality

Total quality control through meticulous assembly line production and continuous monitoring

Efficiency & Precision

Savings up to 80% in power and water consumption compared to traditional power packs. Product repeatability up to $\pm 0.25\%$. Injection speeds 23% faster than previous generation.

Flexibility

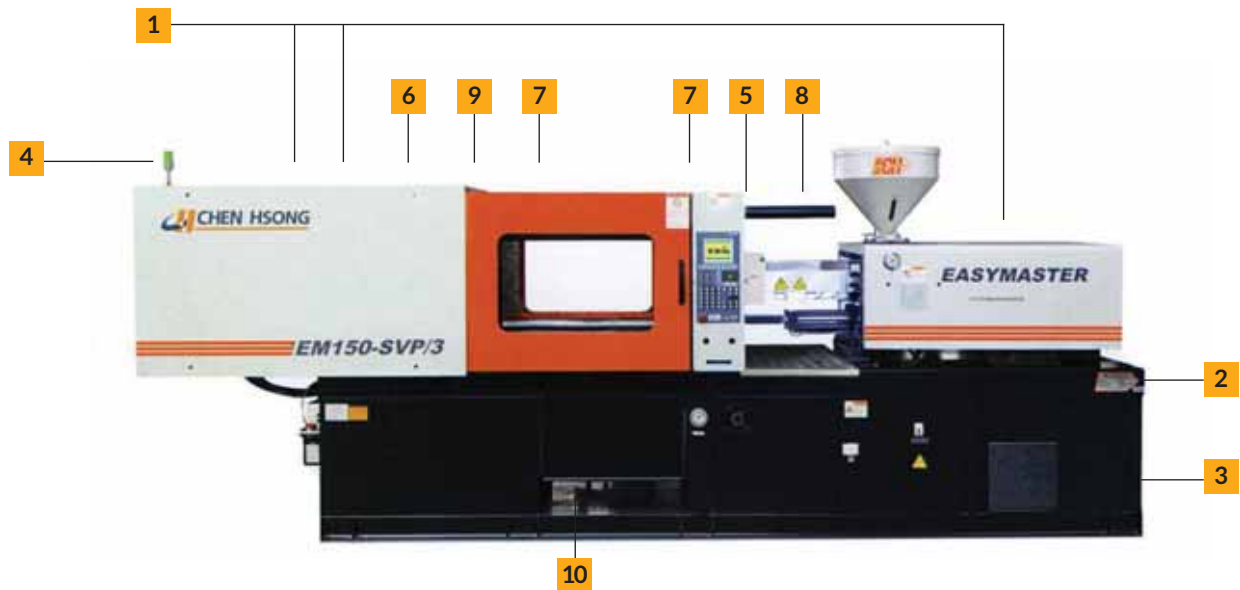
Mix and match multiple machine modules for fast responses and quicker machine lead times.

Support & Service

The 14+ year partnership between Applied Machinery and Chen Hsong has seen over 500 machines sold within Australia. We have service partners across the country to support all of our machines in the field. Applied Machinery is far and away the leading supplier of injection moulding technology in Australia.

Easymaster Third Generation Servo Drive Series 80-560 ton

10 user-friendly design features for maximum convenience and ease of use



High-precision potentiometers for clamping, injection and ejection – product quality ensured.



External power outlets for easy connection of auxiliary equipment: 16A x4 (80-220t), 16A x2, 32A x 2 (260-560t)



High-power servo-drive system



Two-colour alarm light



Robot interface (non-Euromap Standard)



1 core pull standard (220-560t), 2 reserved for easy later installation (80-560t)



Strengthened fixed and moving platens help minimise flashes



Auto-adjust mechanical safety bar



EUROMAP ejector (260-560t), with retracted-position sensor.



Larger water manifold: 4/4 (80-120t), 6/6 (150-320t), 8/8 (400-560t)

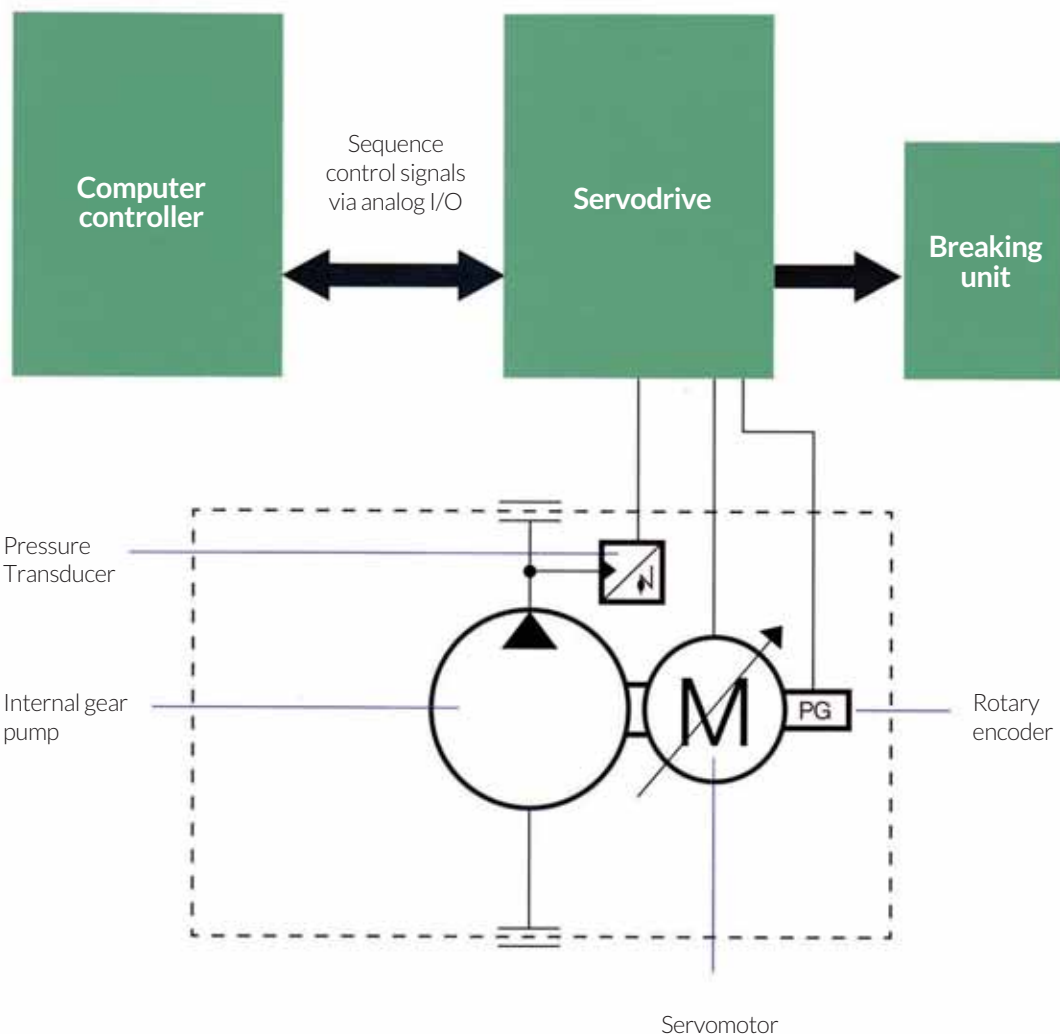
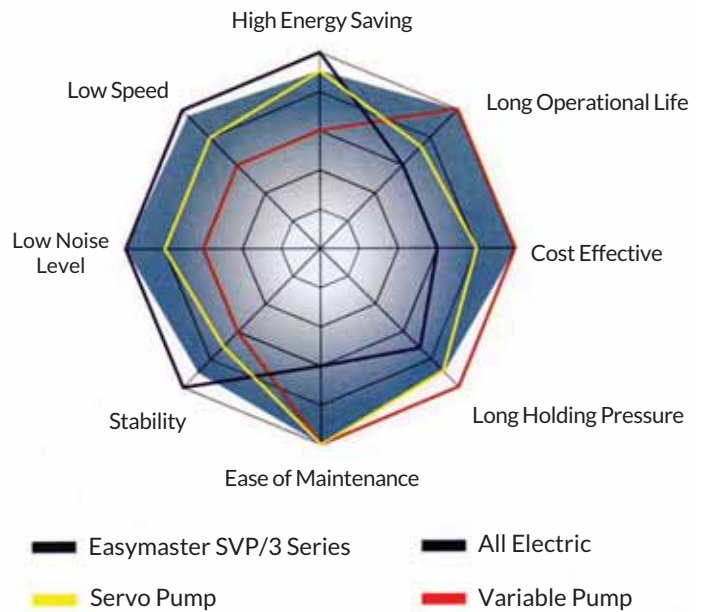
Servo Drive Advantages

An SVP/3 servo-drive system consists of a servodrive, a servomotor, and fixed displacement pump.

Servodrive: Automatic closed-loop control of flow and pressure

Servomotor: Higher speed, larger torque and faster responses than async motors.

Fixed displacement pump: High-pressure internal gear pump with low internal leakage and low impulses, resulting in enhanced stability and energy saving.



Easymaster Third Generation Servo Drive Series - Machine Specifications

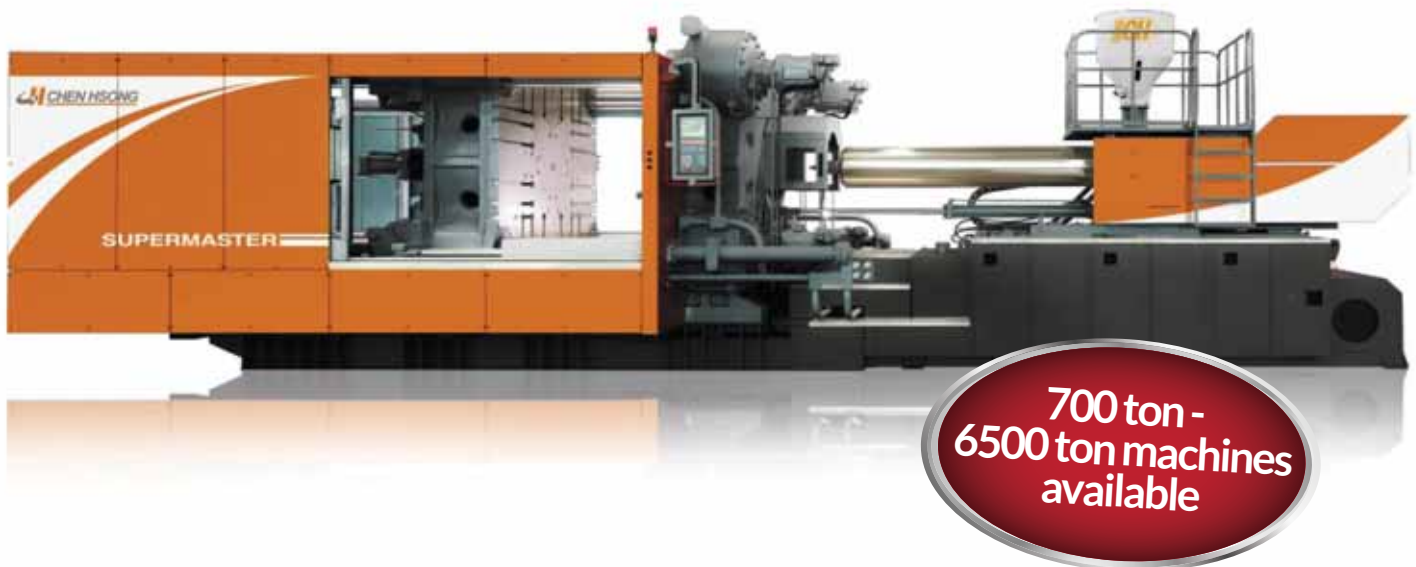
Injection Unit	UNIT	EM180-SVP/3	EM120-SVP/3	EM150-SVP/3	EM180-SVP/3	EM220-SVP/3	EM260-SVP/3	EM320-SVP/3	EM400-SVP/3	EM480-SVP/3	EM560-SVP/3
Swept Volume	cm ³	121 163 221	163 221 265	277 332 425	382 488 650	390 499 664	504 777 969	904 1128 1413	1216 1524 1866	1767 2164 2544	1767 2164 2544
Shot Weight (PS)	g	113 150 203	150 203 244	255 305 391	351 449 598	359 459 611	537 715 892	832 1038 1300	1119 1402 1717	1625 1990 2340	1625 1990 2340
	oz	4.0 5.3 7.2	5.3 7.2 8.6	9.0 10.8 13.8	12.4 15.6 21.1	12.7 16.2 21.6	18.9 25.2 31.4	29.3 36.6 45.9	39.5 49.5 60.6	57.3 70.2 82.5	57.3 70.2 82.5
Screw Diameter	mm	31 36 42	36 42 46	42 46 52	46 52 60	46 52 60	52 60 67	60 67 75	67 75 83	75 83 90	75 83 90
Injection Pressure (Max.)	MPa	206 153 112	185 136 113	190 159 124	208 163 123	230 180 135	226 169 136	219 175 140	217 173 141	209 171 145	209 171 145
	kgf/cm ²	2101 1561 1142	1887 1387 1153	1938 1622 1265	2122 1663 1255	2337 1827 1367	2295 1724 1387	2224 1785 1428	2203 1765 1438	2132 1734 1479	2132 1734 1479
Screw L/D Ratio		22.7 19.6 16.8	22.7 19.6 17.5	21.8 19.5 17.3	22.2 19.8 17.2	23.3 20.6 17.9	24.2 21 18.6	23.5 21 18.8	23.8 21 19.2	23.2 21 19.4	23.2 21 19.4
Screw Stroke	mm	160	160	200	230	235	275	320	345	400	400
Screw Rotation Speed (Max.)	rpm/rev	198	224	246	185	182	195	183	181	194	194
Plasticizing Rate	kg/h	33 49 76	58 91 110	89 123 164	86 154 157	86 137 157	140 167 262	182 213 329	233 279 398	244 314 406	244 314 406
Injection Rate	cm ³ /s	66 89 121	116 158 190	138 166 212	158 202 269	153 195 260	189 252 314	263 328 411	310 389 476	429 525 617	429 525 617
	liter	33	33	55	55	82	82	87	87	87	87
Nozzle Force	t	3.3	4.3	4.6	8.1	6.1	6.1	10.3	10.3	10.3	10.3
Nozzle Stroke	mm	250	250	250	280	325	325	360	420	460	460
Camping Unit											
Camping Force (Max.)	ton	80	120	150	180	220	260	320	400	480	560
Opening Stroke	mm	320	340	410	480	490	530	600	670	770	835
Space Between Tie Bar (H*V)	mm	355x300	410x350	455x425	505x500	560x560	580x560	660x660	730x730	810x810	855x855
Mould Dimensions (H*V)	mm	545x490	610x560	670x614	745x715	795x795	840x840	940x940	1050x1050	1155x1155	1210x1210
Maximum Daylight	mm	640	720	860	960	1090	1130	1280	1420	1590	1685
Mould Thickness (Min. - Max.)	mm	130-320	145-380	160-450	180-500	195-600	195-600	220-680	250-750	275-820	330-850
Ejector Stroke	mm	80	100	100	130	130	180	180	215	250	250
Ejector Force (Max.)	ton	2.3	4.2	4.2	4.9	7.7	7.7	7.7	11.1	11.1	11.1
Mould Register Height(H)	mm	100	100	100	100	160	160	160	200	200	200
Power / Heating Unit											
System Pressure	MPa	14.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
Servomotor Power	kgf/cm ²	148	178	178	178	178	178	178	178	178	178
Electrical Heating Power	kW	11	13	16	27	27	35.6	48.1	50	54	54
Temperature Control Zone	kW	6.8	9.1	9.9	10	15.6	18.3	19.9	21.6	30	30
Others		3+Nozzle	3+Nozzle	3+Nozzle	4+Nozzle	4+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle	5+Nozzle
Oil Tank Capacity	liter	170	170	275	275	380	430	525	600	800	800
Machine Dimensions (L*W*H)	m x m x m	4.3 x 1.2 x 1.8	4.3 x 1.2 x 1.8	5.0 x 1.3 x 2.0	5.6 x 1.3 x 2.1	5.8 x 1.5 x 2.1	6.4 x 1.5 x 2.2	6.7 x 1.6 x 2.3	8.0 x 1.7 x 2.3	8.5 x 1.9 x 2.3	8.8 x 2.0 x 2.3
Machine Weight (Approx.)	ton	2.7	2.9	4.0	5.1	5.8	7.5	9.8	12.8	16.6	18.1

All specifications listed are subject to change at the manufacturer's discretion.

PLASTICS

Supermaster SVP/2 Series

TWO PLATEN ADVANCED SERVO DRIVE MACHINES



Your High Speed, High Precision, Energy Saving Solution

The Supermaster Two Platen Advanced servo drive series is the first “REAL Two Platen” large tonnage injection moulding machine introduced in China. Protected by worldwide patents, this versatile product line boasts a number of unique innovations resulting in unprecedented affordability with the largest specifications possible.

Energy Saving

The SVP/2 servo drive series of Supermaster machines offers massive power savings compared to variable displacement pump and fixed pump technology

Protection to Moulds

Patented hydraulics and tie-bar linkage design ensures even distribution of stress, enhancing product quality while lengthening mould life

Long Opening Stroke

Opening stroke is 50% longer than traditional toggle-style machines. Ideal for large household appliances, automotive parts, building parts, pallets, and large fluid tanks

High Speed Manufacturing

Patented high speed automatic mould-height adjustment mechanism and ultra-fast clamp movements (up to 750mm/s) greatly shortens cycle time and increases productivity Enhance Management Efficiency

Ai-12 intelligent computer controller supports the unique iChen networked shop-floor system for maximum management efficiency and profitability

*Subject to different product application and cycle times.

Ai-12 intelligent
computer
controller



Supermaster SVP/2 Series

TWO PLATEN ADVANCED SERVO DRIVE MACHINES

Extremely fast clamp movements (8 seconds dry cycle for SM2200TP) significantly shorten cycle time

Reduces stress concentration and greatly simplifies maintenance mould-height adjustment

- Extra feeding temperature control zone
- 3-colinear ball bearings ensure perfect alignment
- Nozzle tip can be moved beyond the fixed platen by up to 300mm
- All screws have 17D ratio of 1:22 for optimal melt quality*

Combines high speed and silent operation with extremely high precision and rock-solid reliability

Mix-and-Match with Unparalleled Flexibility

14 Clamping Units (from 700 to 6,500 tons) and 14 Injection Units (Shot Weight from 1,968 - 106,081 grams) for flexible mix-and-match.



Supermaster with 6500 ton clamping force recently installed in Adelaide.
The largest injection moulding machine in the Southern Hemisphere.



SM1 250TP-SVP2

SM1250TP-SVP/2		J1	J2	K1	K2	N1	N2	P1	P2	Q1	Q2	A1	A2	R1	R2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2	G1	G2	H		
Injection Unit	Screw Weighting	g	1,968	2,314	2,604	3,087	3,430	4,322	4,754	5,658	6,172	7,244	7,847	9,101	9,801	11,251	13,180	17,939	21,002	27,431	31,431	39,780	44,843	55,363	61,166	74,011	81,034	96,437	106,081	
	Swept Volume	cm³	2,163	2,543	2,861	3,393	3,770	4,749	5,224	6,217	7,960	8,623	10,001	10,770	12,364	14,483	19,713	23,079	30,144	34,540	43,715	49,278	60,838	67,216	81,331	89,048	105,975	116,573		
	Screw Diameter	mm	83	90	90	98	98	110	110	120	120	130	130	140	140	150	175	175	200	200	225	225	250	250	275	275	300	300	300	
	Injection Pressure(Max)	Mpa	187	159	184	155	184	146	184	155	184	157	180	155	180	157	180	132	160	123	160	126	160	130	160	132	160	134	160	
	Injection Stroke	mm	400		450		500		550		600		650		700		820		940		1,100		1,240		1,370		1,500		1,650	
	Injection Rate	rpm	150		140		130		115		110		100		95		95		80		65		50		60		47		40	
Injection Unit	Screw Rotation Speed (Max)	rpm	560	658	650	771	720	907	825	982	952	1,117	1,136	1,317	1,296	1,488	1,296	1,764	1,970	2,339	2,122	2,686	2,722	3,360	3,307	4,001	3,268	3,809	2,517	
	Injection L/D Ratio	cm/in	22.0	20.3	22.0	20.2	22.0	19.6	22.0	20.2	22.0	20.3	22.0	20.4	22.0	20.5	22.0	18.9	22.0	19.3	22.0	19.6	22.0	19.8	22.0	20.0	22.0	20.2	22.0	
		15																												
Clamping Unit	Nozzle Contact Force	ton	1,250																											
	Clamping Force(Max)	ton	125																											
	Opening Force	ton	1,500 - 2,100																											
	Opening Stroke	mm	1,380 X 1,280																											
	Space Between Tie Bar(s)	mm	500 - 1,300																											
	Model Thickness(Min., Max.)	mm	2,800																											
	Maximum Daylight	mm	45																											
	Clamp Closing Speed(Max)	m/min	45																											
	Clamp Opening Speed(Max)	m/min	22																											
	Ejector Force(Max.)	ton	400																											
Clamping Unit	Ejector Stroke	mm	250																											
	Model Register Hole	mm	175																											
	System Pressure	kgf/cm²	159.5																											
	Servo Motor Power	kW	100																											
	Electrical Heating Power	kW	7																											
Pneum. Heating Unit	Temperature Heating Zone	L	60																											
	Oil Tank Capacity	L	62																											
Others	Machine Dimension(LxHxT) m	11,943.5x3,118.8x3,543.3																												
	Machine Weight(Approx.) ton	67																												

Supermaster SVP2 Series Specifications

SM1900TP-SVP2

SM2600TP-SVP2

SM1900TP-SVP2		J1	J2	K1	K2	N1	N2	P1	P2	Q1	Q2	A1	A2	R1	R2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2	G1	G2	H
Injection Unit		1,968	2,314	2,604	3,087	3,430	4,322	4,754	5,658	6,172	7,244	7,847	9,101	9,801	11,251	13,180	17,939	21,002	27,431	31,431	39,780	44,843	55,362	61,166	74,011	81,034	96,437	106,081
Shot Weight(g)		2,163	2,543	2,861	3,393	3,770	4,749	5,224	6,217	6,782	7,960	8,623	10,001	10,770	12,364	14,483	19,713	23,079	30,144	34,540	43,715	49,278	60,838	67,216	81,331	89,048	105,975	116,573
Screw Diameter		83	90	90	98	98	110	110	120	120	130	130	140	140	150	150	175	175	200	200	225	225	250	250	275	275	300	300
Injection Pressure(MPa)		187	159	184	155	184	146	184	155	184	157	180	155	180	157	180	132	160	123	160	126	160	130	160	132	160	134	160
Injection Stroke		400	450	450	500	500	550	550	600	600	650	650	700	700	750	820	820	960	960	1,100	1,100	1,240	1,240	1,370	1,370	1,500	1,500	1,650
Screw Rotation Speed (Max) (rpm)		150	140	140	130	130	120	120	115	110	110	100	100	95	95	80	80	83	69	65	50	60	50	60	47	50	40	40
Injection Rate		560	658	650	771	720	907	825	982	952	1,117	1,136	1,317	1,296	1,488	1,296	1,764	1,970	2,339	2,122	2,686	2,722	3,360	3,307	4,001	3,268	3,889	2,517
Screw L/D Ratio		22.0	20.3	22.0	20.2	22.0	19.6	22.0	20.2	22.0	20.3	22.0	20.4	22.0	20.5	18.9	22.0	18.9	22.0	19.3	22.0	19.6	22.0	19.8	22.0	20.0	20.2	22.0
Nozzle Contact Force		15																										
Clamping Unit		1,900																										
Clamping Force(MPa)		165																										
Opening Force		1,700 - 2,500																										
Opening Stroke		1,670 X 1,550																										
Space Between Tie Bar(s)		700 - 1,500																										
Mould Thickness(Min. Max)		3,200																										
Maximum Daylight		45																										
Clamp Closing Speed(Max) m/min		45																										
Clamp Opening Speed(Max) m/min		45																										
Ejector Force(MPa)		450																										
Ejector Stroke		315																										
Mould Register Hole		175																										
System Pressure		159.5																										
Servo Motor Power		100																										
Electrical Heating Power		375																										
Temperature Heating Zone		285																										
Oil Tank Capacity		220																										
Power Heating Unit		1,800																										
Machine Dimensional (WxHxL) m		10.8x4.2x3.5																										
Machine Weight(Approx.) ton		60																										

SM2600TP-SVP2		J1	J2	K1	K2	N1	N2	P1	P2	Q1	Q2	A1	A2	R1	R2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2	G1	G2	H
Injection Unit		1,968	2,314	2,604	3,087	3,430	4,322	4,754	5,658	6,172	7,244	7,847	9,101	9,801	11,251	13,180	17,939	21,002	27,431	31,431	39,780	44,843	55,362	61,166	74,011	81,034	96,437	106,081
Shot Weight(g)		2,163	2,543	2,861	3,393	3,770	4,749	5,224	6,217	6,782	7,960	8,623	10,001	10,770	12,364	14,483	19,713	23,079	30,144	34,540	43,715	49,278	60,838	67,216	81,331	89,048	105,975	116,573
Screw Diameter		83	90	90	98	98	110	110	120	120	130	130	140	140	150	150	175	175	200	200	225	225	250	250	275	275	300	300
Injection Pressure(MPa)		187	159	184	155	184	146	184	155	184	157	180	155	180	157	180	132	160	123	160	126	160	130	160	132	160	134	160
Injection Stroke		400	450	450	500	500	550	550	600	600	650	650	700	700	750	820	820	960	960	1,100	1,100	1,240	1,240	1,370	1,370	1,500	1,500	1,650
Screw Rotation Speed (Max) (rpm)		150	140	140	130	130	120	120	115	110	110	100	100	95	95	80	80	83	69	65	50	60	50	60	47	50	40	40
Injection Rate		560	658	650	771	720	907	825	982	952	1,117	1,136	1,317	1,296	1,488	1,296	1,764	1,970	2,339	2,122	2,686	2,722	3,360	3,307	4,001	3,268	3,889	2,517
Screw L/D Ratio		22.0	20.3	22.0	20.2	22.0	19.6	22.0	20.2	22.0	20.3	22.0	20.4	22.0	20.5	18.9	22.0	18.9	22.0	19.3	22.0	19.6	22.0	19.8	22.0	20.0	20.2	22.0
Nozzle Contact Force		15																										
Clamping Unit		2,600																										
Clamping Force(MPa)		210																										
Opening Force		1,900 - 2,800																										
Opening Stroke		1,930 X 1,730																										
Space Between Tie Bar(s)		800 - 1,700																										
Mould Thickness(Min. Max)		3,600																										
Maximum Daylight		45																										
Clamp Closing Speed(Max) m/min		45																										
Clamp Opening Speed(Max) m/min		45																										
Ejector Force(MPa)		450																										
Ejector Stroke		315																										
Mould Register Hole		175																										
System Pressure		159.5																										
Servo Motor Power		100																										
Electrical Heating Power		375																										
Temperature Heating Zone		285																										
Oil Tank Capacity		220																										
Power Heating Unit		1,850																										
Machine Dimensional (WxHxL) m		11.5x4.4x3.7																										
Machine Weight(Approx.) ton		85																										

Jetmaster-Ai SVP/2 Servo drive series



Revolutionary intelligent servo system

Driven by the revolutionary intelligent servo system, the Jetmaster-Ai-SVP/2 injection moulding machine series combines a fast-response gear pump with a high-precision servo drive that guarantees the highest response, highest precision and lowest power consumption at the same time.

Energy Saving

Saves up to 80% of electricity compared to traditional fixed pump systems.

Ultimate Response, Precision & Repeatability, low noise and long operational life

The response speed is more than double of a variable displacement pump. Up to 0,5% repeatability, even under extremely low speed & prolonged holding conditions. Low oil temperature conserves cooling water and reduces the need for hydraulic oil, thus extends the useable life of hydraulic parts.

Injection unit	Unit	JM98-Ai-SVP/2			JM138-Ai-SVP/2			JM178-Ai-SVP/2			JM228-Ai-SVP/2		
Swept Volume	cm³	106	158	231	158	231	332	231	341	478	341	499	735
Injection Weight (PS)	g	96	144	210	144	210	303	210	310	435	310	454	669
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	46	52	60
Screw L/D Ratio	L/D	20	20	20	20	20	20	20	20	20	20	20	20
Injection Pressure (Max.)	kgf/cm ²	2.549	1.890	1.457	2.755	2.124	1.687	2.368	1.881	1.472	2.543	1.990	1.495
Injection Rate(PS)	g/s	78	106	137	91	118	148	136	171	218	157	202	268
Plasticizing Capacity(PS)	g/s	12	16	24	15	21	26	18	23	33	21	31	48
Screw Rotation Speed(Max.)	rpm	266			250			213			200		
Screw Stroke	mm	140	155	175	155	175	200	175	205	225	205	235	260
Clamping unit													
Clamping Force (Max.)	t	98			138			178			228		
Opening Stroke	mm	320			360			440			490		
Maximum Daylight	mm	700			810			960			1.040		
Mould platen (HxV)	mm	545 x 545			620 x 620			700 x 700			785 x 785		
Space between Tie Bars (HxV)	mm	360 x 360			410 x 410			460 x 460			520 x 520		
Max. Mould Thickness	mm	380			450			520			550		
Min. Mould Thickness	mm	125			150			175			200		
Ejector Stroke	mm	100			120			140			150		
Ejector Force	t	3,4			3,4			5,5			5,5		
Others													
System Pressure	kgf/cm ²	175			175			175			175		
Pump Motor	kW	15			18			22			25		
Electrical heating	kW	6,8	7,2	8,4	8,5	9,7	11,4	10,8	14,8	14,8	14,8	14,8	17,1
Temperature Control Zones	Zones	3+1			3+1			3+1			3+1		
Oil Tank Capacity	L	180			258			360			465		
Machine Dimensions (LxWxH)	m	4,13 x 1,41 x 1,91			4,73 x 1,48 x 2,06			5,27 x 1,70 x 2,12			5,75 x 1,70 x 2,18		
Machine Weight	t	3,2			4,6			5,7			7,3		

Jetmaster SVP/2 Servo drive series



Ai-12 intelligent network computer controller

The Ai-12 is a high-performance, new-generation intelligent computer controller available exclusively from Chen Hsong. Designed in Japan and constructed with the latest SMT technology, it boasts fully compatibility with JIS standards, enhanced stability and ultimate reliability. This controller comes standard with multi-lingual interfaces, built-in networking, advanced intelligent diagnostics, and the ability to retain data for over five years without external power. It also integrates completely with the iChen System™ for shop-floor management.



Injection unit	Unit	JM268-SVP/2			JM328-SVP/2			JM408-SVP/2			JM488-SVP/2			JM568-SVP/2		
Swept Volume	cm ³	584	778	970	905	1.128	1.414	1.216	1.524	1.867	1.767	2.164	2.545	1.767	2.164	2.545
Injection Weight (PS)	g	537	715	891	832	1.037	1.300	1.118	1.402	1.717	1.625	1.990	2.340	1.625	1.990	2.340
Screw Diameter	mm	52	60	67	60	67	75	67	75	83	75	83	90	75	83	90
Screw L/D Ratio	L/D	24,2	21	18,8	23,5	21	18,8	23,5	21	19	23,2	21	19,4	23,2	21	19,4
Injection Pressure (Max.)	kgf/cm ²	2.294	1.723	1.382	2.224	1.785	1.428	2.203	1.765	1.438	2.123	1.734	1.479	2.123	1.734	1.479
Injection Rate(PS)	g/s	164	218	271	218	272	341	268	336	412	340	416	490	340	416	490
Plasticizing Capacity (PS)	g/s	31,7	43,2	59,1	39,6	54,2	71,7	49,3	68,6	84	71,7	92,4	119,6	71,7	92,4	119,6
Screw Rotation Speed (Max.)	rpm	180			165			150			165			165		
Screw Stroke	mm	275			320			345			400			400		
Clamping unit																
Clamping Force (Max.)	t	268			328			408			488			568		
Opening Stroke	mm	530			600			670			770			835		
Maximum Daylight	mm	1.130			1.260			1.420			1.590			1.685		
Mould plate(HxV)	mm	840 x 840			937 x 940			1.050 x 1.050			1.155 x 1.155			1.211 x 1.211		
Space between Tie Bars (HxV)	mm	580 x 580			660 x 660			730 x 730			810 x 810			855 x 855		
Max. Mould Thickness	mm	600			660			750			820			850		
Min. Mould Thickness	mm	195			220			250			275			330		
Ejector Stroke	mm	180			180			215			250			250		
Ejector Force	t	7,7			7,7			11,1			11,1			11,1		
Others																
System Pressure	kgf/cm ²	175			175			175			175			175		
Pump Motor	kW	36			48			68			68			72		
Electrical heating	kW	17,7			20			21,6			30			30		
Temperature Control Zones	Zones	5+Nozzle			5+Nozzle			5+Nozzle			5+Nozzle			5+Nozzle		
Oil Tank Capacity	L	430			525			680			800			900		
Machine Dimensions (LxWxH)	m	6,2 x 1,8 x 2,2			6,8 x 1,8 x 2,3			7,6 x 2,0 x 2,3			8,4 x 2,1 x 2,5			8,6 x 2,1 x 2,5		
Machine Weight	t	9			11			16			18			20		

Minijet Injection Moulding Machines



High Speed Micro Injection Moulding Machine

Available in 20 ton, 35 ton and 55 ton models

The MINIJET series is your ideal partner for producing precision and miniature products. It combines the high-performance "Ai-02P" intelligent computer controller (built-in networking, intelligent diagnostics and on-line assistance) with a hydraulic circuit optimized by the best European and Japanese expertise, resulting in even higher speed, shorter cycle times, significantly better control precision and unmatched ease-of-use.

Injection Unit

- High-performance linear guide (for H type) enables seamless motion control, improves structural strength of the dynamic system, greatly enhances precision of injection
- The nozzle is co-planar with the two perfectly-balanced injector cylinders - no lateral forces act on the unit during injection that enabling precise injection control

Clamping Unit

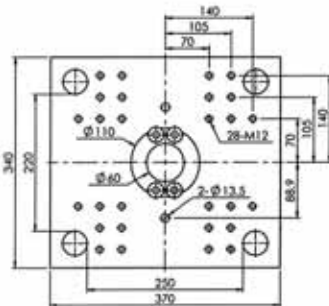
Two Different Clamping Units available: Toggle and Hydraulic

- The Hydraulic clamping mechanism enhances balanced stress distribution, assuring products quality and prolong the mould life
- Optimized five-point toggle design for even higher clamping speed and longer opening stroke.

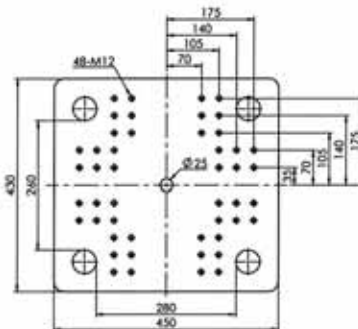


Minijet Injection Moulding Machines

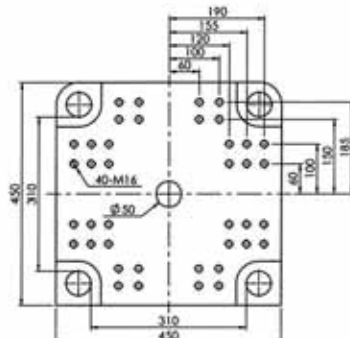
MJ20



MJ35



MJ55



	UNIT	MJ20			MJ35			MJ55		
INJECTION UNIT		A	B	C	A	B	C	A	B	C
Shot weight (PS)	g	26	31	40	40	50	63	56	71	87
Theoretical shot volume	cm ³	28	34	44	43	55	70	63	80	98
Screw diameter	mm	20	22	25	22	25	28	25	28	31
Screw L/D ratio	mm/mm	21	19	17	23	20	18	22	20	18
Injection pressure	Mpa	207	171	133	225	174	139	203	162	132
Screw stroke	mm	90			115			130		
Screw speed	rpm	0-215			0-200			0-230		
Nozzle stroke	mm	150			180			200		
CLAMPING UNIT										
Mould clamping force	kN	200			350			550		
Opening stroke	mm	250			230			250		
Space between tie bars (H x V)	mm	250 x 220			280 x 260			310 x 310		
Mould thickness (min-max)	mm	150(min)			80-300			80-320		
Maximum daylight	mm	400			530			570		
Hydraulic ejector force	kN	17			27			28		
Hydraulic ejector stroke	mm	60			60			75		
POWER / HEATING UNIT										
System pressure	MPa	17.5			17			14.5		
Pump motor	kW	5.5			5.5			7.5		
Heating capacity	kW	3.5			4.2			5.2		
Temperature control zones	#	3			3+1			3+1		
GENERAL										
Dry cycle time	sec	1.8			1.8			1.8		
Machine size (L x W x H)	m	2.5 x 0.9 x 1.6			3.0 x 1.0 x 1.6			3.4 x 1.0 x 1.6		
Oil tank capacity	l	155			105			140		
Machine weight (dry)	t	1.2			1.6			2.0		

PLASTICS

Niigata All Electric Precision Injection Moulding Machines

Niigata have been manufacturing injection moulding machines since 1963 and in 1983 they were the first company in the world to bring an "All-Electric moulder" to market. For the last 30 years, Niigata have been improving and refining their designs and staying on the cutting edge of injection moulding technology and are world renowned leaders in the field. Where absolute precision is job critical, Niigata should be first and foremost on your list of machines to consider.

World Leader
in All-Electric
Injection Moulding
Technology



NIGATA
All-Electric Molding Machines



Compact Precision All Electric Injection Moulding Machine

MD50X/MD75X/MD100X/MD50XB/MD75XB/MD100XB

The high rigidity clamping units are attached to an ultra compact body, and the injection unit can be selected with a wide range of impressive features. The XB series are a multi-purpose electric injection moulding machine with carefully selected features to keep costs down.

Mid Size All Electric Injection Moulding Machine

MD180W/MD280W/MD350W/MD450W

By using a wide clamping unit, the distance between centres has been increased by up to 100mm over conventional machines, and the open height has also been increased by up to the same amount. These increases allow for more mould possibilities for these mid-size machines.

Large All Electric Injection Moulding Machine

MD650S-IV/MD850S-IV/MD1000S-IV

Niigata are one step ahead of the competition in the area of large capacity, all-electric machines. High power injection units can handle everything from commodity plastics to engineering plastics. The superior energy saving performance of these machines has been recognised by numerous industry awards.



Intuitive, user-friendly control



Compact, precision injection unit

Alfa Robot Robots for Injection Moulding Machines











Phoenix Swing-Arm Series

Single stage: P350/450/550/650

Telescopic stage: P550/650/750/850/950 WV

Performance, speed, stability, and durability are all key attributes of the Phoenix series of swing-arm robots. They are ideally suited for sprue separation and parts removal on molding machines from 50 to 400 tones. The Phoenix series has single-stage vertical strokes of 550 and 650mm, and telescopic vertical strokes from 650 to 950mm



 15-400T	 Telescopic Type Single stage	 none	 Steel frame structure
 Arm linear slide rail Crosswise linear guide rod	 4.2 sec	 GA28	 3Kg









Bomarc Inverter Driven Beam Series

Single stage: B600/700/800 ID/ID

Telescopic: B600/700/800/900/1000/1100 WD/WS

Bomarc series is applicable to all types of horizontal injection machine of 50-550 tons for take-out products and sprues. It has two types of arm, namely single stage and telescopic arm. Vertical stroke is 650- 1150mm. It can be added with runner arm for three-plate mould to clamp products and sprue at the same time. Its traverse axis is driven by inverter motor and can also be driven by AC servo motor. Vertical axis and kick axis are all driven by cylinders. The arm for products can be driven by AC servo motor according to actual requirements to increase efficiency. Installation of this robot will increase productivity (20-30%), reduce defect rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.



 50-550T	 Single stage Telescopic Type	 1 axis/2 axis	 Aluminium profile side structure
 Full range of Linearguideway	 8 - 14 sec	 HA44 HA80	 5Kg 10Kg

Alfa Robot Robots for Injection Moulding Machines

Cobra Large Pneumatic / Inverter Driven Beam Series

Telescopic stage:

CI 300/1500/1700 WD/WS CI 900/2200/2500/3000 WD/WS

Cobra series is applicable to all types of horizontal injection machine of 450-4000tons for taken-out of products and sprues. It has two types of arms, namely single stage and telescopic type. Vertical stroke is 1250-3000mm. It can be added with runner arm for 3 plate mould to clamp products and sprue at the same time. Its traverse axis is driven by inverter motor and can also be driven by AC servo motor. Vertical axis and kick axis are all driven by cylinders. The arm for products can be driven by AC servo motor according to actual requirements to increase efficiency. Installation of this robot will increase productivity (20-30%), reduce defect rate, ensure safety of operators, reduce manpower and accurately control the output to reduce waste.



350-400T



Telescopic Type



1 axis/2 axis



Steel frame structure



Full range of
Linearguideway



12-40 sec



HA80
Ha44



10-50Kg

Redstone Servo Driven Beam Series

Single stage: R600/700/800/900 S3/S5

Telescopic: R600/700/800/900/1000/1100 S3/S5

Redstone series is applicable to all types of horizontal injection machine arranged from 50-500tons for taken-out products and sprues. Full AC servo motor driven on each axis, it can take out the products at super-speed (0.48sec) and dry cycle time within 5 seconds. Used in quick or various taking-out products.



50-550T



Single stage
Telescopic Type



3 axis/5 axis



Aluminium profile side
structure



Full range of
Linearguideway



2.8 - 8 sec



LNC308
LNV508
HA112



5-10Kg

Alfa Robot Robots for Injection Moulding Machines

Titan CNC AC Servo Beam Series

Telescopic:

T1300/1500/1700/1900/2200/2500/3000 S3/S5

Titan series is applicable to all types of horizontal injection machine of 400-4000tons for take-out of products and sprues. Full AC servo motor driven on each axis, take out at super high speed(1.5sec), and dry cycle time within 12 sec., max loading 100kgs(including products and jig). Used in quick or various taking-out products or the comparative complicated automation case.

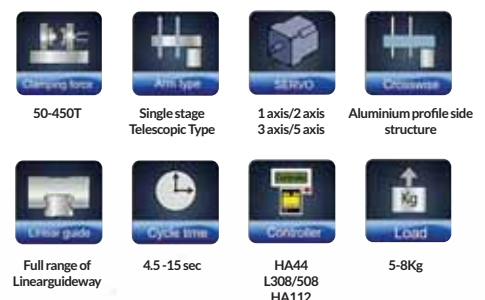


Vantage Servo Pneumatic Transverse Beam Series

Single stage: VA600/800 IS/ID S3/S5

Telescopic stage: VA600/800/1000 WS/WD S3/S5

Vantage series may work with all types of horizontal injection molding machines of 50-450 tons to pick out the product. Unlike the traditional beam robots, it should be installed in such a direction that the product and sprue are taken out and released to the end of the machine, thus saving the installation space. The single stage and telescopic options are available. Both of them may be added with a runner arm for 3-plate- mould to grip both sprue and product at the same time. Vertical stroke of 600-1000mm is available. Not only can it reduce the installation space by 30%~40% to allow better utilization of the production capacity by 20-30% and enhance the product quality. What's more, it ensures operators' safety, save the labor, and allows for precision control of yield level and avoids wasting.



Jwell Extruders & Extrusion Lines



As one of the world's largest extrusion equipment suppliers, Jwell offer a complete range of equipment for ALL extrusion applications. With over 50 extrusion lines currently running in Australia, Jwell and Applied Machinery are able to offer great value machinery with excellent local back-up and service.

RANGE INCLUDES

- Single screw extruders
- Twin screw extruders
- Complete turn-key extrusion lines
- Specialised applications such as multi-layer sheet / cable / geo-membranes



PIPE EXTRUSION

Jwell specialise in supply of pipe extrusion equipment using the latest technologies for production of PE and PVC pipes up to 2000mm diameter.

- High RPM/high efficiency screw/barrel designs
- Siemens PLC control systems
- Up to 2000mm diameter capability



Jwell Specialised Processing & Recycling Equipment

Jwell's range of equipment include specific shredding and size reduction systems such as the 1200mm horizontal pipe shredder through to complete plastics washing and recycling systems.



RANGE INCLUDES

- Horizontal pipe shredders to 2000mm
- Recycling and washing systems
- Crammer feeders
- Dust separation systems
- Friction washers



Bestar Blow Moulding Machines

Bestar manufactures premium Blow Moulding machines for the world market. Bestar machines are produced on premium CNC machining centres and adhere to the strictest of quality controls. Continued investment in research and development ensure that the Bestar is at the cutting edge of blow moulding technology. Bestar's company motto is "high quality, trustworthiness & mutual benefit". Put us to the test. Let us provide you with a Bestar solution to meet your blow moulding requirements. You will not be disappointed.



B10D-480/560



Clamping force	100kN / 150kN (Option)
Drive power hydraulic	22kW
Daylight between platens	220-500mm
Carriage stroke	480mm / 560mm (Option)
Dry cycle time	2.8 s
Mould dimension	(Max.W): 470mm / 550mm (Option)
	(Max. H): 400mm
	(Min. T): 2x110mm
Extruder drive	(AC frequency drive)
Voltage	380V/50Hz
Air pressure	6-10bar
Air consumption	90m ³ /h
Machine Dimension	(L)5000mm* (W)3200mm* (H)3500mm
Machine weight	9.6Tons

Bestar Blow Moulding Machines – Quality Components & World Class Clients

Die head

- Precise and accurate die head design-streamline, no blind angle and faster color change
- Lower back pressure, extending service time of extruder unit and gear box
- Multi-cavity flow channel, easy to control flow
- Single layer die head with offset spider
- View stripe on die heads at request



Control System

- Austrian B&R control system with PLC control, convenient to check or adjust temperature, speed and time, etc.
- 10.4" TFT displayer with clear definition, easy for data storage and adjustment
- Embedded 100-point parison control system, well-distributed thickness and cost saving
- Fault diagnosis and alarms automatically are displayed on screen. Analyze and correct parameters by ADSL connection.

Leak tester

- Fast filling, testing, diversity and decompression
- Automatic removal of leak products



Deflashing unit

- Top punching devices for neck, shoulder and handle with electro pneumatic control, including electro pneumatic control for cooling of flash and blowing away
- Bottom punching devices include counter support pneumatically spring loaded with electro pneumatic control. Driven by pneumatic cylinder
- Vertical adjustment for different article length



Premium clients
producing their
containers
and bottles
with Bestar
blow moulding
machines



SML Air Cooled Water Chillers



KEY FEATURES

- These units can effectively cool water to between 7°C & 35°C
- Micro computer controls ensure cooling accuracy of +/- 1°C
- Inbuilt safeguards for high & low pressure, compressor overload, pump overload, antifreezing* and flow rates*
- Stainless steel water tanks with heat insulation layers
- Low speed, low noise fans.
- Fans stop with compressors to ensure good energy efficiency

Large range
in stock and ready
for next day
delivery

SML AIR COOLED WATER CHILLERS

MODEL		SL-3A	SL-5A	SL-10A	SL-15A	SL-20A	SL-30A	SL-40A	SL-50A	SL-60A
REFRIGERATION CAPACITY	KW	10	15	30	45	60	90	120	150	180
	KCAL/H	7740	12900	25800	38700	51600	77400	103200	129000	154800
COMPRESSOR INPUT POWER	KW	2.2	3.7	7.5	11	15	22.5	30	37.5	45
	HP	3	5	10	15	20	30	40	50	60
REFRIGERANT TYPE		R407C								
REFRIGERANT CAPACITY	KG	1.5	2.5	5	7.5	10	12	18	30	35
WATER TANK CAPACITY	L	60	90	180	270	360	-	-	-	-
COLD WATER PIPE	INCH	1	1	1.5	2	2	3	3	4	4
COLD WATER FLOW RATE	L/MIN	60	90	180	270	270	270	380	460	550
	CU.M/H	3.6	5.4	11	16	16	16	23	28	33
FAN MOTOR POWER	KW	0.45	0.45	0.45 x 2	0.65 x 2	0.65 x 2	0.65 x 4	0.65 x 4	1.1 x 2	1.8 x 4
	L	750	1100	1450	2200	2200	2200	2500	2200	3000
DIMENSIONS (MM)	W	680	680	790	1000	1320	1320	1200	2000	2200
	H	900	1100	1120	2100	2100	2180	2290	2180	2180
WEIGHT	KG	100	160	300	700	750	1400	1600	2200	2400

Water Cooled Chillers also available. *Call for more information.

SML Hopper Dryers

Premium, reliable and affordable ancillary equipment from Applied Machinery

- The heating barrel is made from the stainless steel to ensure that the material is not polluted and easier to be cleaned.
- The air dispersion device of the stainless steel net plate enables the heat air to evenly blow the material. The temperature is even in the barrel and the material sinters on time.
- There is a hinge connection structure between the heating barrel and the hopper, which facilitates opening, reloading and cleaning.
- An open-door type magnetic base, which is convenient and easy to take out the magnet for cleaning the scrap iron.
- The timing startup device of any time can be matched to reduce pre-heating time on duty and improve efficiency.
- The hot air recycler device can be matched to reduce energy consumption.
- The Hopper dust collector can be matched to prevent the dust into the workshop.



Model	Capacity kg	Heater Power kW	Blower Power W	External Dimensions mm (L x W x H)	Seat Dimensions mm (L x W x H)	To Suit IMM g (Shot Weight)	Weight kg
SHD-15	15	2.7	120	660 x 360 x 800	120 x 120 x 50	30-60	28
SHD-25	25	3.2	120	725 x 405 x 950	150 x 150 x 60	30-60	38
SHD-50	50	4.2	180	840 x 490 x 1070	160 x 160 x 75	125-500	75
SHD-75	75	5	180	900 x 550 x 1175	160 x 160 x 75	500-1000	85
SHD-100	100	7	250	955 x 605 x 1410	200 x 200 x 90	1000-1500	95
SHD-150	150	9	250	960 x 610 x 1560	200 x 200 x 90	1500-2000	120
SHD-200	200	12	400	1230 x 770 x 1660	230 x 240 x 105	2000-2500	150
SHD-250	250	14.5	400	1235 x 775 x 1790	230 x 240 x 105	2500-3000	170
SHD-300	300	14.5	400	1335 x 870 x 1810	230 x 230 x 110	3000-4000	200
SHD-400	400	18	500	1360 x 915 x 1870	280 x 280 x 120	4000-6000	225
SHD-600	600	24	800	1360 x 950 x 2080	280 x 280 x 135	6000-8000	250
SHD-800	800	30	1100	1380 x 1150 x 2250	280 x 280 x 135	8000-10000	300
SHD-1000	1000	36	3000	1400 x 1200 x 2600	280 x 280 x 135	8000-12000	360

SML Hopper Loaders

Units in stock. Call with your requirements. Same day payment and delivery.

Machine-mounted Hopper Loaders



- Imported high speed commutator motor, small cubage and strong suction.
- Connection between operation controller and electric control box free and convenient operation.
- The micro computer controls and the accurate action.
- Out hanged air storage device to thoroughly clean the dust on the strainer.
- Electronic action detector and low fault rate.
- Multi fault indicator lamp to facilitate the customer knowing the reason and handling in time.

Model	Motor kW	Conveying Capacity kg/hr	Conveying Height m	Hopper Volume l	Conveying Tube Capacity mm	Controller Weight kg	Hopper Weight kg
SAL-700G	1	300	4.5	6	38ø	30	6
SAL-700GE	1	300	4.5	6	38ø	30	6
SAL-800G1	1.1	350	4.5	6	38ø	45	6
SAL-800G1E	1.1	350	4.5	6	38ø	45	6
SAL-800G2	1.5	400	5	6	38ø	50	10
SAL-800G2E	1.5	400	5	6	38ø	50	10
SAL-3HP	2.2	550	7	12	51ø	60	12
SAL-4HP	3	600	8	12	51ø	65	12
SAL-5HP	3.7	700	8	12	51ø	75	20
SAL-7.5HP	5	800	10	30	51ø	90	25
SAL-10HP	7.5	1000	12	30	51ø	90	25

Floor-mounted Hopper Loaders



- Separation design between the controller and the material hopper, which is convenient and simple to operate.
- Accurate micro computer control and alarm attentions.
- Motor overload protection equipped to effectively prolong the service life of the motor.
- With the high voltage blower, the materials can be conveyed in a long distance.
- The hopper is made from the stainless steel to ensure that the material can not be polluted.
- The machine type one-to-several plastic Injecting molding machine can be selected for charging as per customer's needs.
- The electric eye hopper or vacuum hopper can be selected according to customer's needs.

Model	Motor kW	Conveying Capacity kg/hr	Conveying Height m	Hopper Volume l	Conveying Tube Capacity mm	Weight kg
SAL-300C	1	250	4.5	6	38ø	10
SAL-300CE	1	250	4.5	6	38ø	10
SAL-360	1.1	300	4.5	6	38ø	12
SAL-360E	1.1	300	4.5	6	38ø	13
SAL-390	1.2	350	4.5	12	38ø	19
SAL-390E	1.2	350	4.5	12	38ø	19
SAL-400	0.75	350	4.5	12	38ø	25

SML Ancillary Equipment - Full Range

Masterbatch Feeders



- With the function of permanent memory and storage.
- Use of brushless DC-motor, no need for maintenance.
- Use of micro-computer control, intelligentize to calculate accurately.
- Can satisfy the requirement of external signal input at the same time.
- The screw is handled with chrome to be durable.
- The modular structure is easy to assemble & disassemble, clean and exchange.
- Single color dose mixer's standard base equips hopper magnets to attract metal to protect the destroying of screw in injection machines.
- The stirrer is optional for single color dose mixer, and should be matched with stirrer controller to mix the material even.
- The double color dose mixer equips base with stirrer, can satisfy the request of mixing double materials.
- The main material hopper is standard equipment for double color dose mixer, optional for single color dose mixer.

SCM- (DM)



Model		Colour Dose Mixer (Single)			Colour Dose Mixer (Double)		
		SCM30-12	SCM30-14	SCM30-16	SCM30-12DM	SCM30-14DM	SCM30-16DM
Output	kg/hr	0.3-8	0.5-15	1.1-30	(0.3-8) x 2	(0.3-8) x 2	(0.3-8) x 2
Motor Power	W	60	60	60	60 x 2	60 x 2	60 x 2
Rotary Speed	rpm	0-3000	0-3000	0-3000	0-3000	0-3000	0-3000
Materials Barrel	L	10	10	10	10 x 2	10 x 2	10 x 2
Reduction ratio		30:1	30:1	30:1	30:1 / 30:1	30:1 / 30:1	30:1 / 30:1
Screw Diameter	mm	12	14	16	2-12	2-14	2-16
Height	mm	520	520	520	600	600	600
Width	mm	590	590	590	1000	1000	1000
Depth	mm	355	355	355	355	355	355
Weight	kg	16	16	16	30	30	30

SML Mixers



- Double-layer stainless steel, vertical design fast and even stirring.
- Dismountable beater, stainless steel stirring room to facilitate cleaning.
- Directly driven by the motor and high stirring efficiency.
- Vertical design, less land occupied, easy dismounting.
- Automatic stop device, automatic stop in 0-30 minutes can be set.
- Multi-protection devices to ensure the safety of operators.

Model	Motor Power kW	Capacity kg	Mixing Type	External Dimensions mm	Weight kg
SST-50	1.5	50	Roll Type	830 x 830 x 1120	130
SST-100	3	100		1000 x 1000 x 1280	190
SSB-50	1.5	50	Vane Type	830 x 830 x 1120	130
SSB-100	3	100		1000 x 1000 x 1280	190
SSB-150	4	150		1130 x 1130 x 1380	250
SSB-200	5.5	200		1200 x 1200 x 1500	320
SSM-300	1.5	300	Screw Type	1450 x 1000 x 2000	400
SSM-400	2.2	400		1450 x 1000 x 2500	500
SSM-1000	4	1000		1580 x 1380 x 3100	750
SSM-1500	5.5	1500		1890 x 1680 x 3470	1000
SSM-2000	7.5	2000		2000 x 2000 x 3500	1300

QUALITY USED MACHINERY

Applied Machinery is Australia's largest supplier of quality used machinery to the sheetmetal, engineering, recycling and plastics industries. Stock is changing daily, so please call us on 03 9706 8066 to discuss your requirements, or visit www.appliedmachinery.com.au for listings of all our current stock.



Amada FMB II 3613NT Servo Electric Pressbrake.

35 ton bending capacity and 1300mm maximum bending length. AMNC-PC advanced CNC control, 7-axis CNC, Lazersafe guards, Digipro infrared interactive angle correction system. 2012 model in excellent condition.



Yawei PBHS 220-4100 CNC7 Synchro Pressbrake

220 ton bending force, 4100mm maximum bending length, CNC pressbrake with 7 axis CNC controlled. Delem DA-65W graphical CNC controller, Lazersafe guards, quick clamps and more.



Gasparini PBS 045 Synchro CNC Pressbrake.

Y1, Y2, X & R axes all CNC controlled, Delem DA65 CNC controller, 45 ton maximum bending capacity, 1600mm maximum bending length, Honeywell light curtains.



Darley EPH 50 25-20 Synchro Pressbrake

50 ton maximum bending force, 2550mm maximum bending length, Delem DA-42 NC control, 250mm throat, Eurobed, 4 backgauge fingers with micro adjustment mounted on a linear track.



Amada Promecam APX 5020 CNC Pressbrake

50 ton maximum bending force, 2000mm maximum bending length, 1500mm between frames, Operatuer 5 axis CNC: Y, X, R, Z1, Z2, top & bottom tooling, Omron front light guards, rear interlock safety fence



Durma HAP 1235 2 axis NC press brake.

Lazersafe light guards. Durma 2 axis NC control, 1200mm bending length, 35ton bending force, 125mm ram stroke, 7.5kw motor power, weight 2,120kg, 2004 model in very good condition.



Bystronic Byspeed 3015 Laser Cutting Machine

4400W laser capacity with 3000 x 1500mm axis travel and pallet changer with Sick guards. 2004 model. One owner machine, fully maintained and serviced by Bystronic. Can be inspected cutting.



Trumpf Trumatic L3030 Laser Cutting Machine

3000W laser capacity, 3000 x 1500 x 115mm axis travel, Siemens CNC control, chiller, dust extractor, full set of manuals, approximately 17800 beam on hours



Trumpf Trumatic L3050 Laser Cutting Machine

6000W laser capacity, 3000 x 1500mm maximum sheet size, 25mm mild steel cutting capacity, Siemens CNC control, Rotolas pipe or tube cutting, Liftmaster, Stopa sheet transfer cars with 5000kg capacity



Trumpf Trulaser 5040 High Capacity Laser

7000W laser capacity, 4000 x 2000 x 115mm working range (X, Y, Z), pallet changer, approximately 13,500hrs "beam on", well maintained machine and can be inspected under power.



Amada LC-3015 X1NT Laser Cutting Machine

4000W laser capacity, 3000 x 1500mm sheet capacity, approximately 15,500 beam on hours, new 5" and 7.5" lenses, new resonator optics, all external optics cleaned and re-aligned, checked and tested. 2007 model.



Cincinnati CL6 Laser Processing System.

2400mm x 1200mm axis travel, 1500W laser capacity, Fanuc 160i-L CNC controller, pallet changer, fume extractor and chiller. Full set of manuals. Checked and tested. Good cutting up to 6mm mild steel.

QUALITY USED MACHINERY



Amada Vipros 255 Turret Punch Press

20 ton punching force, 1270 x 1270mm axis travel, 31 station turret turret with 3 auto index stations, Fanuc 18P CNC control, well maintained and serviced machine in excellent condition.



Wiedemann Centrum 2500 Turret Punch Press

1270 x 1270mm axis travel, 20 ton punching capacity, 18 station turret with 2 auto index stations, 1 multi-tool, Fanuc OP control, new touch screen, includes a selection of tooling, refurbished and in excellent condition.



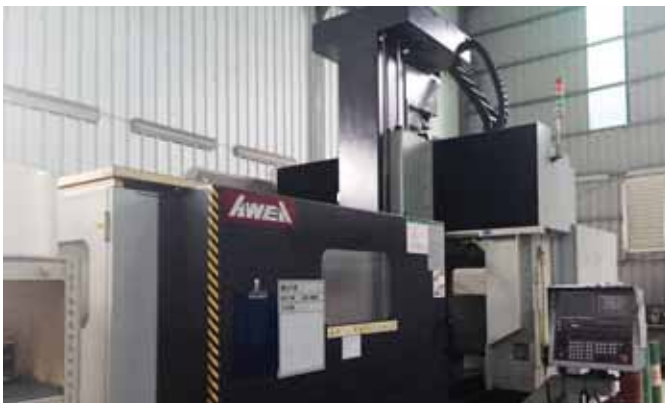
Okuma LR-15W CNC Lathe

450mm swing over bed, 300mm swing over carriage, 250mm swing over cross slide, 240/600mm maximum turning diameter/length, twin turret, sub spindle, Bartec bar feeder, conveyor, good condition.



Okuma MX-55VA CNC Vertical Machining Centre

560 x 1300mm table, 1050 x 560 x 450mm axis travel (X,Y,Z), 160-610mm spindle to table surface, 50-7000rpm, NT40 taper, OSP U10M CNC control, swarf conveyor and coolant, pneumatic vice and some tooling included.



AWEA SP-2016 CNC Vertical Machining Centre

2014 model in excellent condition with low hours, 2000 x 1600 x 1000mm x/y/z axis travels, 10000rpm, Fanuc Oi-MD CNC control system, 24ATC. Excellent value, suited to new machine buyers.



AWEA LP8033YZF 5 Face Twin Column CNC MC

8000x4000x1400mm axis travel, 400-1800mm distance from spindle nose to table, 8000x3000mm table size, BT50 spindle, 60ATC, Fanuc Oi MD CNC controller. 2015 model in excellent condition.



Ibarmia ZVH58L4000 Multiprocess MC

Ex demo machine used only at the Ibarmia plant, massive savings off new machine price. Fancu CNC, 4000 x 1000 x 1100mm x/y/z travels, 10000rpm HSK100 spindle, 60 tool magazine, CTS 40bar, 2010 model.



Hurco VMX42Mi CNC Vertical Machining Centre

1066 x 610 x 610mm x/y/z axis travels, 152-762mm spindle nose to table, 1270 x 610mm table, 680kg maximum table load, 10,000rpm spindle speed, 24ATC, BT40, 2011 machine (first installed in 2012). Well maintained.



Behringer HBP-650A Twin Column Bandsaw

650mm round capacity, 850 x 650mm rectangular capacity, 700mm working height, 10HP drive motor, hydraulic blade tensioning, hydraulic material clamping, fully automatic height setting of the saw frame.



Weber TT-2-1100 Grinding/Deburring Machine

1000mm working width, 100mm maximum work piece thickness, 8mm minimum workpiece thickness, 850mm maximum working height, dust collector, Siemens Simatic C7-634 control, manuals, good condition.



Ficep 1003 DZB CNC Drilling and Sawing Line

23m in-feed, 18mm out-feed, carriage and gripper bar feed, 3 spindle drilling, 1000mm bar width processing, mitre cutting bandsaw, 36 station marking unit.



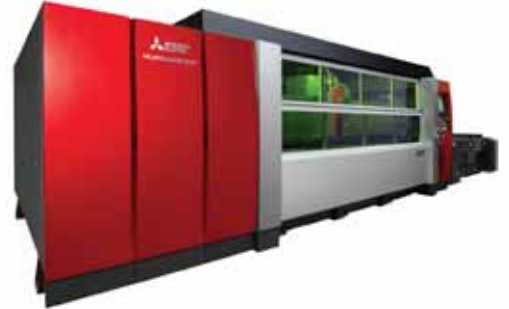
ABAC Formular RS 3708 Air Compressor

37kw installed power, 10 bar working pressure, 5.5cu.m/min (5664L/min, 200Cfm), 73dB noise level, 770kg machine weight, 1335 x 970 x 1630mm machine size, 20000hrs (approx). Good condition.

NO MATTER WHEN OR WHERE, SOUTHERN CROSS HAS YOUR SERVICE NEEDS COVERED.

Specialising in work on:

- Mitsubishi, Bystronic, Trumpf, Amada, Yawei & Hans Lasers (CO2 & Fibre)
- CNC Pressbrakes and Guillotines
- Turret Punch Presses
- CNC Milling Machines (3, 4 & 5 axis)
- Bandsaws, Folders, Mills, Drills & Lathes
- Routine maintenance schedules
- Factory relocations and consultation



MECHANICAL • ELECTRICAL • HYDRAULIC • PNEUMATIC

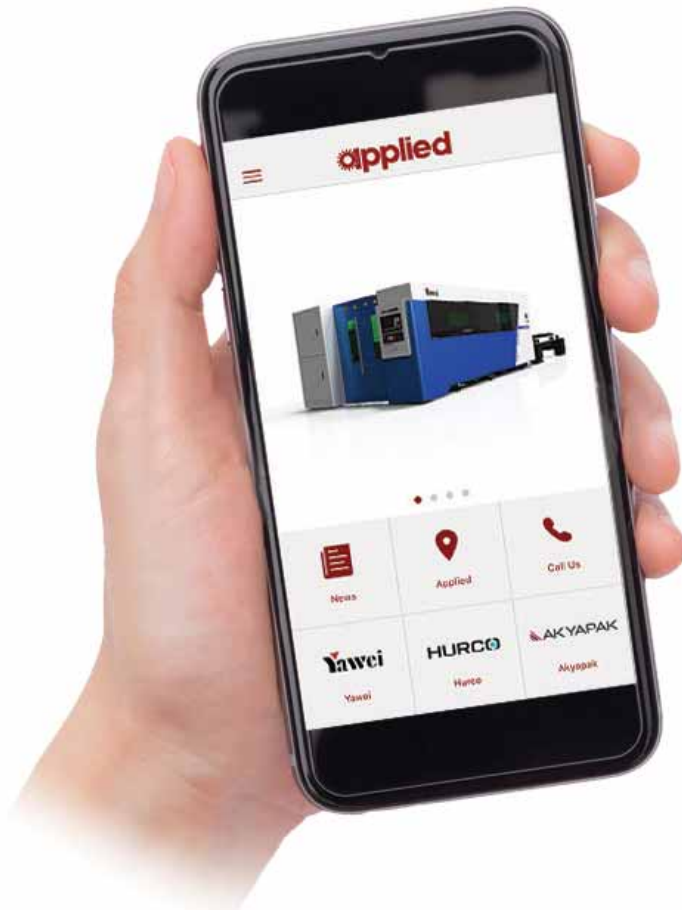
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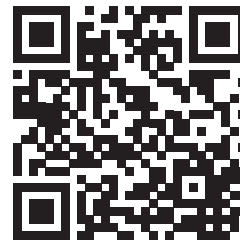
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