

4 JUPITER Machine Tool

Simply
Unrivaled

AHB
TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS
(800) 991-4225
ISO Certified

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INTRODUCING JUPITER

Jupiter Machine Tool was established as an international total manufacturing solutions provider in 2017 through the union of two American companies with more than 60 years of industry experience between them.

Jupiter's leading-edge technology approach ensures that both your Jupiter machine tools and your shop are always running at their very best.

Jupiter's unique holistic approach to manufacturing allows you to effortlessly allocate resources to overcome any challenge while building a secure foundation for your organization's future success.

GREAT MACHINES START WITH GREAT COMPONENTS

Jupiter's excellence starts from the beginning: our FEM-optimized Meehanite castings are machined in-house with their precision certified on Zeiss and SNK CMM platforms including the best laser systems Renishaw and HP have to offer.



Every point of contact is painstakingly hand-scraped and Turcite® is applied to all slideways.

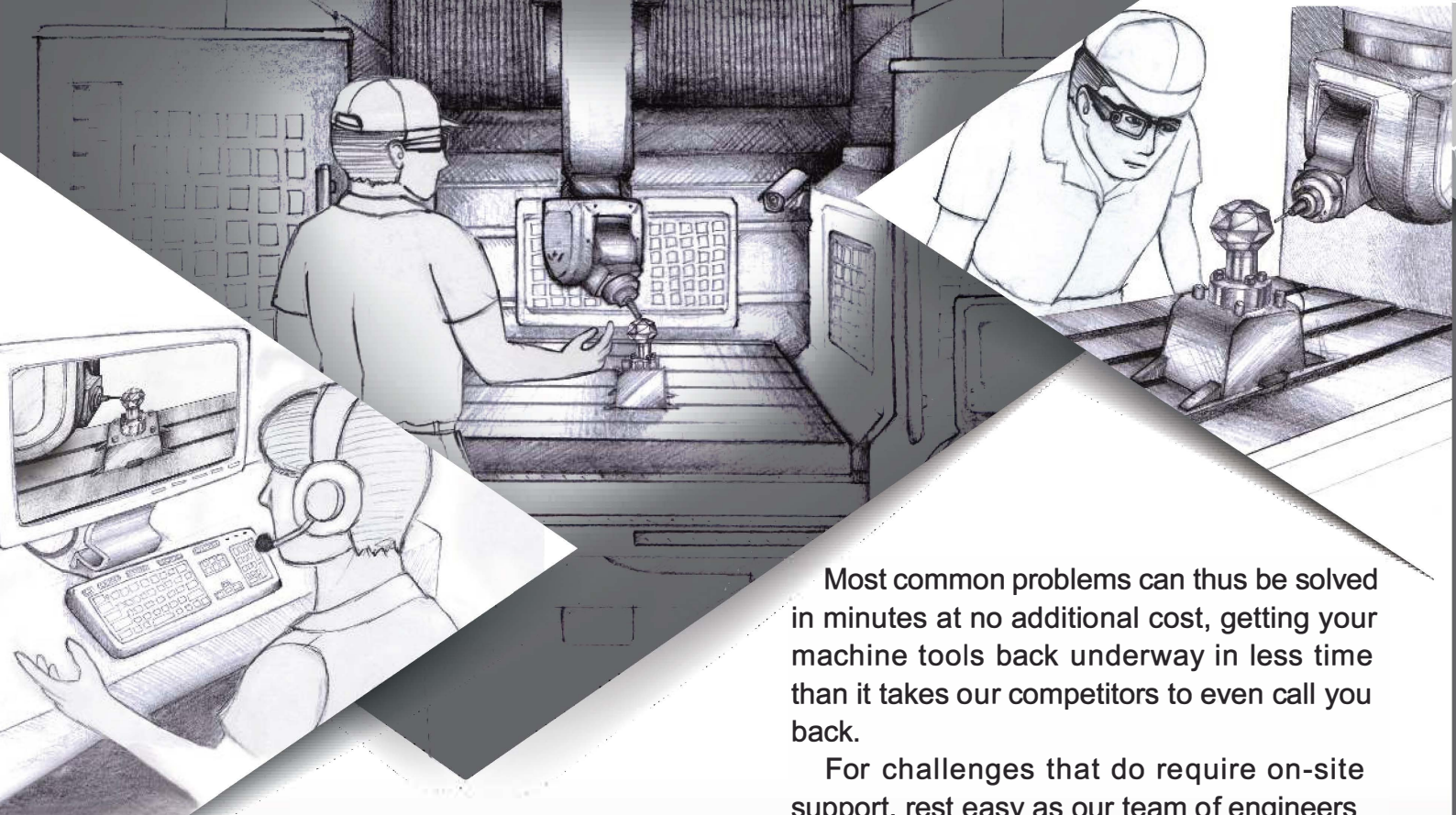
Depending on machine size and configuration, we then install world-class PMI or HIWIN guideways and ballscrews.

Copper hydraulic lines and Heidenhain glass scales round out every Jupiter machine's under-the-hood quality.

Most spindles and milling heads are built in-house and all of them are subject to extended run-in and quality verification testing before final installation.

Jupiter machines are available with Fanuc, Heidenhain, Siemens, and Mitsubishi control systems and drives depending on your needs and preferences.

EXPERIENCE SERVICE & SUPPORT THE JUPITER WAY



Jupiter service and technical support is unlike anything you've ever experienced.

Through our Thunderbolt Service program, you get instantaneous assistance from our top experts.

Jupiter provides every customer with state of the art augmented reality eye-wear that allows our team to immediately begin viewing, discussing, and – most importantly – solving the service issue with you in real-time.

Most common problems can thus be solved in minutes at no additional cost, getting your machine tools back underway in less time than it takes our competitors to even call you back.

For challenges that do require on-site support, rest easy as our team of engineers with decades of experience quickly gets your Jupiter machine back into working order.

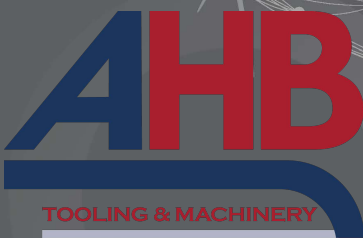
Jupiter's highly skilled specialists in the fields of factory machine design, alignment and repair also have strong electronic, software, mechanical, hydraulic and pneumatic expertise. Our CNC systems specialists are also certified repair and retrofit experts for Fanuc and Heidenhain.

Nobody wants downtime, but when bad luck strikes you can be certain that Jupiter will get you up and running again in less time and at a lower cost than anyone else!

4 JUPITER

Machine Tool

Contact **Jupiter Machine Tool** today to find out how you can change the trajectory of your entire organization.



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PROFESSIONAL PACKAGES

As a total manufacturing solutions provider, Jupiter's professional packages take the guess-work out of outfitting your new Jupiter machine tool. Based on our decades of manufacturing experience we offer both all-in-one and individually customized accessory packages to maximize your productivity and operational effectiveness from Day 1.

Whether you need lubricant, cutting tools, tombstones, fixtures, magnetic chucks or anything else, Jupiter can create a cost-effective, worry-free solution. Don't waste your time flipping through supplier catalogs. Order a pro package from Jupiter today and only focus on what really matters: making great parts!

VMC Series

5-Axis Gantry VMC Series



From ultra-fast, compact VMCs for machining delicate 3C components and medical implants to quad-box way powerhouses that can tear through your hardest materials with impeccable precision and look great doing it, we've got you covered!

Jupiter's vast VMC lineup gets it done faster, better, and more easily than anyone else.

Be warned: when you see how great your first Jupiter VMC runs, you'll immediately want another!

Machining oversized workpieces with complex geometries couldn't be easier on Jupiter's 5-axis gantry VMC. With the bridge fully recessed new workpieces are side or top-loaded with ease. The Italian 5-axis head guarantees unsurpassed range, precision, and accuracy.

Put a Jupiter gantry VMC on your shop floor and unlock a whole new world of manufacturing possibilities!

VMC Series

Motion Axes	3, 4, 5
Max Spindle Speed (rpm)	24,000
Max X/Y/Z Travel (in)	71 / 31.5 / 31.5
Max Rapid Traverse (ipm)	1890
Max Table Size (in)	79 x 31.5
Max Table Load (lbs)	4,840
Max ATC Capacity (tools)	40

5-Axis Gantry VMC Series

Motion Axes	3, 5
Max Spindle Speed (rpm)	18,000
Max X/Y/Z Travel (in)	118 / 79 / 31.5
Max Rapid Traverse (ipm)	1575
Max Table Size (in)	64.5 x 84
Max Table Load (lbs)	8,800
Max ATC Capacity (tools)	32

Tapping Center Series

HMC Series



Jupiter's tapping centers are designed from the ground up for blinding speeds, extreme tolerances, and best-in-class value. Our custom over-sized spindle bearings boost rigidity without sacrificing speed.

With traditional table or twin-pallet configurations, your new JTC will push your shop's productivity to never before seen heights!

At Jupiter, brilliant solutions routinely come in small packages. Jupiter's HMCs pack unparalleled performance into so-small-you-must-see-it-to-believe-it footprints. Available in both single and twin-pallet configurations with a wealth of powerful options, your only challenge will be choosing a machine.

Make no mistake - the engines of tomorrow's vehicles are created on the Jupiter HMCs of today!

Tapping Center Series

Motion Axes	3
Max Spindle Speed (rpm)	24,000
Max X/Y/Z Travel (in)	27.5 / 16 / 16
Max Rapid Traverse (ipm)	2362
Max Table Size (in)	33.5 x 16
Max Table Load (lbs)	660
Max ATC Capacity (tools)	24

HMC Series

Motion Axes	3, 4
Max Spindle Speed (rpm)	15,000
Max X/Y/Z Travel (in)	31.5
Max Rapid Traverse (ipm)	2362
Max Table Size (in)	20 x 25
Max Table Load (lbs)	1,320
Max ATC Capacity (tools)	60

LATHE Series

Bridge Mill Series



This ain't your father's lathe. Masterpieces of design each and every one, to turn a part on a JHL is to witness a symphony of automation unfold before your very eyes.

Our Japanese-style lathe design mates ultra-rigid castings with industry-leading spindles, sub-spindles, turrets, and tailstocks to create outstanding parts time and time again with only minimal effort.

Turn and mill the corner on a new era with a Jupiter horizontal lathe!

LATHE Series

Max Swing Over Bed (in)	36
Max Turning Diameter (in)	25.5
Max Working Length (in)	90
Max Distance b/w Centers (in)	94
Max Bar Capacity (in)	6.5
Max Chuck Size (in)	21
Max Spindle Speed (rpm)	10,000
Max Rapid Traverse (ipm)	1417 / 1181 / 1181

Heavy-duty machines live or die by the quality of their castings. That's why Jupiter Machine Tool machines all of its bridge and gantry mill castings to spec in-house on pristine SNK machines and verifies their quality on an extra large SNK CMM system specially designed for oversized components.

With a JBM you'll be churning out up to 35 tons of breathtaking work at a time without breaking a sweat!

Bridge Mill Series

Motion Axes	3, 5-face, 5
Max X Travel (in)	256
Max Y Travel (in)	165
Max Z Travel (in)	39
Max Distance b/w Columns (in)	138
Max Table Size (in)	236 x 118
Max Table Load (lbs)	75,000
Max Table Load (lbs / ft ²)	400
Max ATC Capacity (tools)	60

Gantry Mill Series



For the most challenging workpieces look no further than Jupiter's range of gantry mills.

Featuring the same excellent design and build quality of our bridge mills, your JGM will reliably machine in all 5 axes simultaneously on mammoth workpieces weighing hundreds of tons and measuring up to 135 feet in length.

Get used to saying "we can do it" because with a Jupiter gantry mill in your shop nothing can stop you!

Gantry Mill Series

Motion Axes	3, 5-face, 5
Max X Travel (in)	1575
Max Y Travel (in)	157
Max Z Travel (in)	49
Max Distance b/w Columns (in)	118
Max Table Size (in)	1626 x 95
Max Table Load (lbs)	600,000
Max Table Load (lbs / ft ²)	600
Max ATC Capacity (tools)	60

Engineering Consulting

Now that you've chosen your next Jupiter machine tool, let us help you make the most of it through our engineering consulting division.

Our design and manufacturing engineers have decades of experience with all major CAD/CAM applications, programming, fixture design, process improvement, and quality verification.

Jupiter's experts can even provide on-site training for your shop staff to guarantee you're machining at top performance from the moment our machine tool arrives!

No matter your requirements, you can rest assured that a Jupiter-led engineering project will result in better cycle times, tighter tolerances, and less wastage for your operations. Make our total solution, your solution, today!

