



# **GEN MILL T-500 MACHINE QUOTATION**

**GEN MILL T500 Video** 

# **GEN MILL T-500 Drill-Mill-Tap Center**



### **GEN MILL T-500 Drill-Tap Center**

### Massive Cast Iron Construction -

The rigidity of the high-strength certified premium Meehanite processed cast iron frame provides a high-strength cutting platform with superior vibration dampening for improved surface finish & extended tool life. The fine grain high-density casting design is FEA (Finite Element Analysis CAD) computer analyzed and internally reinforced with numerous strategically placed heavy cast ribs to resist flexing. The wide spacing of the roller-baring linear ways offers the optimal guide ratio for the moving elements further enhancing the rugged design of the machine. Double anchored pretensioned ballscrews with 3-bearings at each end on all 3-axes are utilized for superb size control.

### **Beltless Direct-Drive Spindle -**

The beltless 12,000 RPM direct-drive spindle provides fast acceleration and greater spindle control in high-speed tapping applications up to 6,000 RPM for increased productivity. Low heat-rise and reduced maintenance are also benefits of this spindle design. The spindle uses air pressure to purge the spindle to ensure no coolant passes the lower bearing seal ring.

### Auto Power Shut Off -

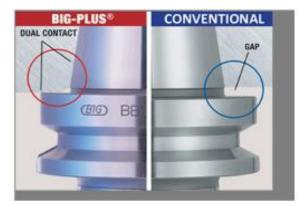
The auto shut off feature on the control can automatically shut off the machine once a long program is finished. This capability enhances your ability to let the machine run lights-out for extended production capability on complex work with long cycle times.

### Chip Wash-Down -

The machine comes standard with a separate coolant pump for chip wash down on all sides. This allows the machine to flush the chips to the rear of the enclosure for easy clean out.

### **Ball-Bar Testing** –

A **geometric ball bar test** conducted on each machine checks for servo gain synchronization, backlash, lateral play, squareness, and straightness to ensure your machine will perform to our rigid accuracy and performance standards. **Laser inspection technology** measures linear and pitch error accuracy and repeatability to ensure high quality performance. The spindle is **dynamically balanced** to ensure long term production performance. Premium quality ball screws are double-anchored and pre-tensioned, and then 100% inspected for parallelism to the axis guideways. The rotational torque of each ballscrew is inspected over the entire length of travel to guarantee a true smooth non-binding alignment to ensure maximum service life and the highest possible machining accuracy.

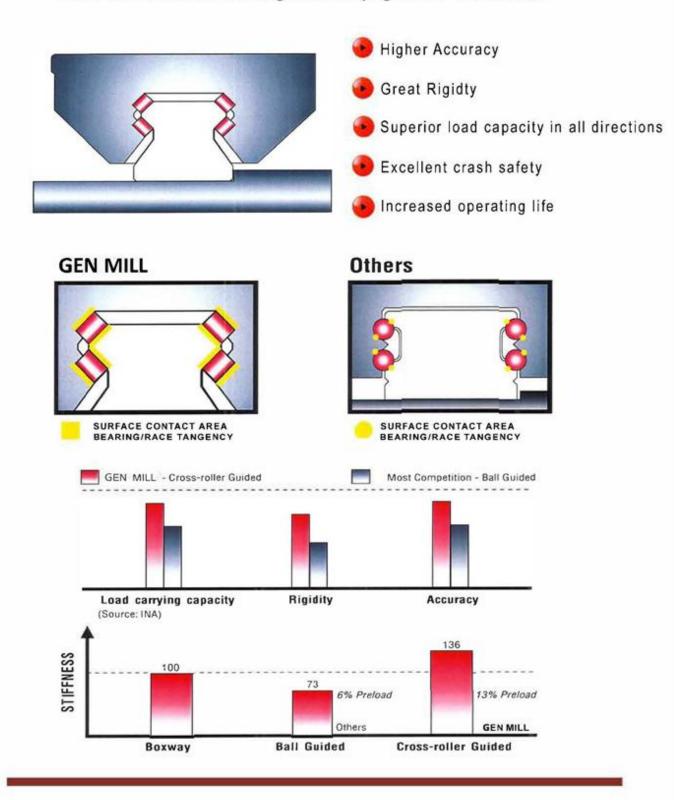


Both the tapered flange & flange face is in full contact for:

- Increased Tool Rigidity
- Reduced Tool Runout
- Increased Tool Life
- Increased Cutting Capability
- Superior Tool Length Repeatability

Use standard tools for general work, and Big-Plus tools for superior results in demanding applications.

### GEN MILL Cross-roller guided ways give our customers:



### **GEN MILL T-500 TECHNICAL SPECIFICATIONS**

### **AXIS TRAVEL**

 X-Travel
 20.08"
 510 mm

 Y-Travel
 16.93"
 430 mm

 Z-Travel
 12.99"
 330 mm

 Spindle Nose to Table Surface
 5.1" – 18.1"
 130 – 460 mm

 Spindle Centerline to Column
 18.89"
 480 mm

### **WORK TABLE**

Table Surface Dimension (X, Y)

T-Slot Dimension / Spacing

Table Height

3-14 mm T-slots

Table Height

35" above floor

Table Height

35" above floor

Table Weight for roted accuracy

Maximum Table Weight for rated accuracy 550 pounds 250 kg @ 60 m/min (770 lbs. @ 48m/min.)

### **SPINDLE**

Spindle Motor - Mitsubishi DJ-D5.5/120-01 7.5-HP 3.7/5.5 kw 25% Duty-Cycle Spindle Motor Coupling Beltless Spindle Drive Inline Direct-Drive Spindle Speed 12.000 rpm 15,000 rpm optional Synchronous Tapping Speed Limit 6,000 rpm Tapping Performance in production M20x2.5 in aluminum M14x2.0 in steel **Drilling Performance in production** 38 mm in aluminum 25 mm in steel Spindle Torque 26 ft-lb @ 1,500 rpm 25% Duty-Cycle P4 class-7, steel ball bearings Spindle Bearing – Inner Diameter 40 mm Spindle Material / Hardness SCM415 HRC58-62 Spindle Runout ≤ 0.000040" T.I.R. Pull Stud USST B30-4500H Retention System / Holding Capability MAS-P30T-1 Bellville Spring Stack / 1,650-1,760 lbs.

### **AXIS FEEDS**

60/60/60 m / minute Rapid Traverse - X/Y/Z 2,362 ipm Rated Cutting Feedrate - X/Y/Z 0.04 - 1181 ipm 30/30/30 m/ minute Mechanical Way System - X/Y/Z Roller-Bearing Ways Roller-Ways - 30/30/35 mm width Axis Drive Motor Power - X, Y / Z 2.0-HP / 3.0-Hp 1.5 kw / 2.2 kw with brake Axis Thrust Force - X, Y / Z 3,335 lbs. / 3,692 lbs. 14,840 N / 16,430 N Ballscrews - X, Y, Z 32 mm ballscrews 16 mm pitch Positioning Accuracy - X/Y/Z ±0.00015" ±0.004 mm Positioning Repeatability - X/Y/Z ±0.00008" ±0.002 mm Least Input Command Increment 0.0001" / 0.000040" 0.001 mm / (40-millionths in metric)

### **TOOL CHANGER**

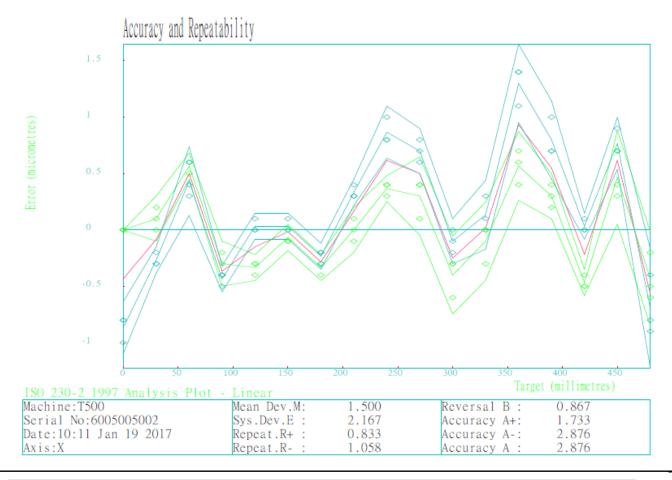
**Tool Capacity** 21-Tools **Drum Turret** Tool Shank BT#30 MAS P30T-1 Pull-Stud Tool Type BT#30 4-bearing spindle – 2-top, 2-bottom **Tool Change Time** 1.6-sec. Tool-to-Tool Servo motor driven Maximum Tool Diameter - with adjacent tool 2.36" / 3.15" 60 mm / 80 mm with no adjacent tool Maximum Tool Length / Max. Tool Weight 7.87" / 6.6 lbs. 200 mm / 3 kg Tool Selection / Tool Access Random access Bi-directional shortest path

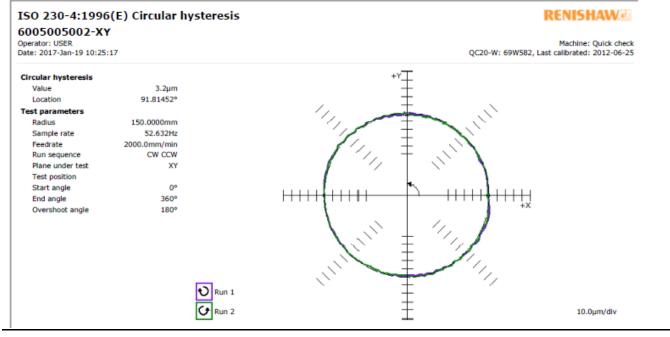
### **SPECIFICATIONS**

Air Service Requirements 85 psi @ 5-scfm 6 Kg/cm<sup>2</sup> Electrical Requirements - connected load 220 vac ±5%, 60-Hz 16 kva Coolant Tank Capacity 32-gallons 120 liters 1.0-HP / 45 PSI Coolant Pump - Cutting Tools - HP / Pressure .75 kw Grundfos MTH4-30/3A Coolant Pump - Chip Flush Pump 1.0-HP .75 kw Machine Weight 6,110 pounds 2,770 kg Warranty – 1-year machine warranty 3-year Mitsubishi control, motors, & drive warranty

Machines need a stable 220 Volts, 3 Phase – Please use appropriate transformers or voltage stabilizers.

### **Machine Performance & Accuracy Test**





### **GEN MILL T-500 Drill/Mill/Tap Machine**

\$80,000.00

### With MITSUBISHI M80 CNC CONTROL

### THESE FEATURES INCLUDED WITH EACH MACHINE:

- Heavy-Duty Cross-Roller-Bearing Ways
- Dual Ground, Dual Contact "Big-Plus" 12,000 RPM Spindle
- 21-Tool High-Speed Tool Changer
- 2,362 Inch-Per-Minute Rapid Traverse Rates
- 32-GB High-Speed Data Server for Massive Program Memory
- High-Speed Synchronous Rigid Tapping
- 45-PSI Coolant System for Cutting Tools
- Chip Wash Down Coolant Flushing System
- Air Gun & Coolant Gun
- Full Machine Enclosure including Top Cover
- Spindle Air Blast by M-Code for Thru-Spindle & at the Cutting Tool
- Portable MPG Hand wheel with magnetic base
- LED Worklight
  - Heat Exchanger for Electrical Cabinet
- Machine Condition Signal Lamp Tri-Color Stack Lamp
- Automatic Pressurized Centralized Lubrication System
- 4<sup>th</sup> Axis Wiring Pre-Installed
- M30 Automatic Power-Off turns off the Circuit Breaker
- Renishaw Tool & Part Probe

### **Machine Options**

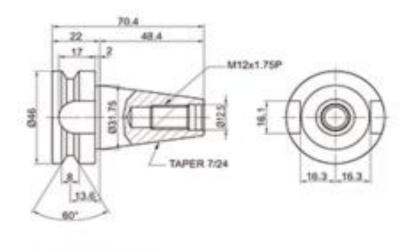
Factory machine installation: "Peace-of-Mind Factory Installation" – includes expenses	\$3,995.00
Factory on-site 2-day machine operation and program training – includes expenses	\$5,995.00
Automatic Operator Door with M code	\$6,995.00
Belt-Style Rear Discharge Chip Conveyor	\$3,995.00
Auger-Style Chip Conveyor	\$2,995.00
15,000 RPM spindle speed upgrade	\$6,495.00
Air Conditioner for Electrical Cabinet – Refrigerated-style, upgrade over standard heat-exchanger	\$2,495.00
375 PSI Through-The-Spindle-Coolant Prep	\$5,995.00
375 PSI Through-The-Spindle-Coolant upgrade (25-Bar – no additional coolant tank supplied)	\$10,995.00
Linear scales for all 3-axis – Heidenhain 5µm optical liner scales	\$14,995.00
OMP40/OTS Shank Hardware and Software Kit installed	\$10,990.00
MP Systems Purge Option (Recommended for Fine Chips)	\$10,990.00

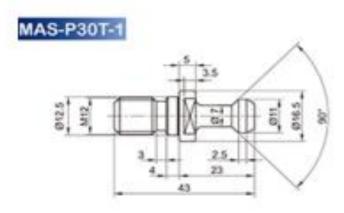
### **GENMILL T-500 (3+2) 5-Axis Package**

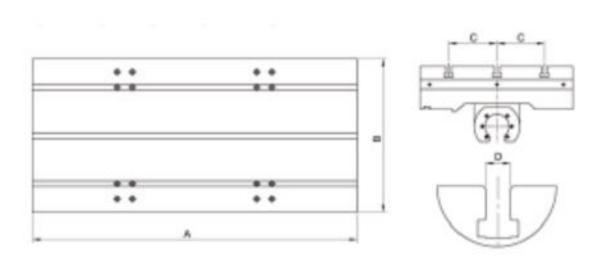
\$99,990.00

Includes: Index Positioning Trunnion Indexer Installed with Control Box Renishaw QE/ RMP 400/ RMI-Q Radio Probe Package



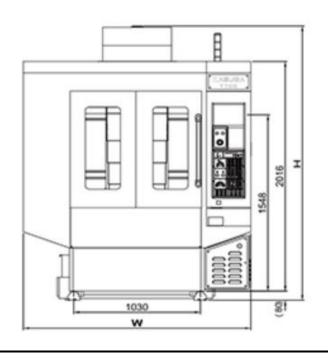


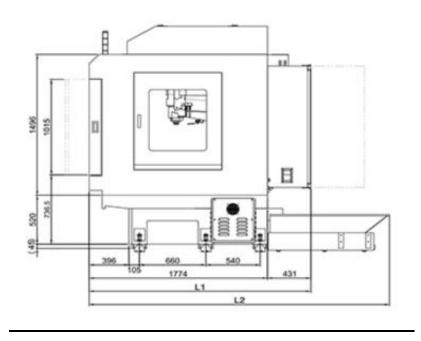




<u>Table Dimensions: A: 22.04" (560mm), B: 15.75" (400mm)</u>
<u>T-Slot Dimensions: 3 – 14mm T-Slots on 125mm centers</u>

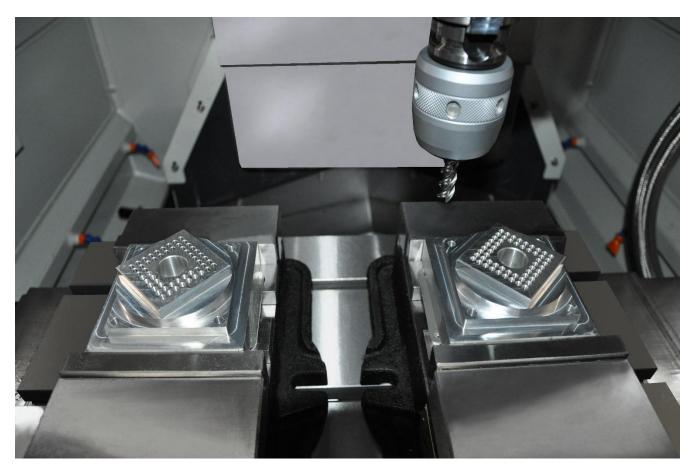
# **GEN MILL T-500 Machine Dimensions**

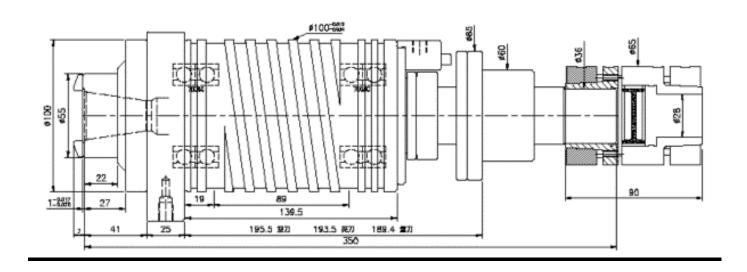




Width: 50", Height: 95", Depth:87" (add 18" for optional chip conveyor)

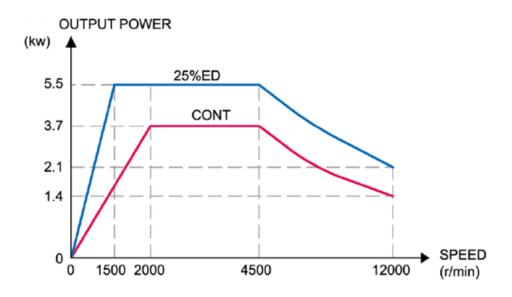
# **GEN MILL T-500 Sample Work Piece**

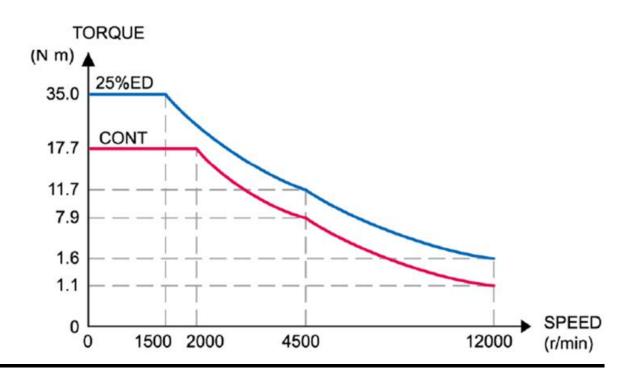




### **GEN MILL T-500 Spindle**

### Spindle Motor Power & Torque Diagram





Spindle Motor – Mitsubishi 3.7/5.5kw, 7.5-HP @ 25% Duty-Cycle - Spindle Torque 26 ft-lb @ 1,500 rpm

# **GEN MILL T-500 Work Zone**



### **Training & Terms of Sale**

**FREE Training** – Expand Machinery offers a training program for all production CNC machines at our training center. The intense training program includes basic manual programming, machine setup, operation, and operator level maintenance for those with a working knowledge in the programming & setup of CNC machines. Training does not cover CAD/CAM systems or Manual Guide-i type of programming. On-site training is an available option charged at the prevailing hourly rate.

<u>Warranty</u> – 1 full year parts warranty on the machine and 3-years CNC control & drives. Labor warranty will be provided by your local servicing distributor.

Parts - Spare parts are available at our facility in Chatsworth to support your continued machine operation.

**F.O.B. Point** – Machines ship F.O.B. from Chatsworth, CA 91311.

<u>Payment Terms</u> – 30% down payment with your Purchase Order secures the machine. 60% is due prior to machine shipment, and the 10% balance is due after installation. **Or the machine can be financed with our approved lender**. Leases with \$1.00 buyout are available upon approved credit.

Purchase is governed by the Expand Machinery terms and conditions of sale.

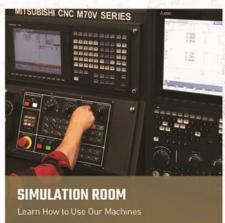
UL & TÜV ELECTRICAL APPROVAL IS AN AVAILABLE OPTION

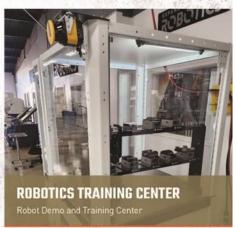
Prices and specifications subject to change without prior notice.

















### **EXPAND MACHINERY TERMS & CONDITIONS OF SALE**

### General Offer & Applicable Law

Products and services furnished by Expand Machinery (referred to herein as "Expand", "we", "us" and "our") are sold to you ("Customer") only on the terms and conditions stated herein. Notwithstanding any terms or conditions on Customer's orders, our performance of any contract is expressly made conditional on Customer's agreement to these terms and conditions of sale. We hereby reject any conflicting, different or additional terms and conditions proposed by Customer, unless otherwise specifically consented to in a writing signed by a duly authorized officer of Expand. To the extent that Customer attempts to place an order with us with open-ended terms (such as, but not limited to, without an end date that has been specifically agreed to in writing by an authorized representative of Expand), such open-ended terms are specifically rejected by us and shall not be deemed to be part of any agreement or arrangement between us and Customer. Acceptance of any good or part thereof delivered by us or other assent by Customer to these Terms and Conditions of Sale (the "Terms") shall constitute an agreement to all of the Terms, including, without limitation, our limitations of warranty and liability. All contracts for the sale of products shall be construed under and governed by the laws of the State of California. All orders shall be subject to our acceptance.

#### **Prices & Specifications**

All published prices and specifications are subject to change without notice. Unless otherwise specified in writing, all quotations are firm and expire thirty days after the date thereof. Unless otherwise stated, all prices, published or quoted, shall be exclusive of insurance and any and all taxes and transportation costs. All deposits are non-refundable.

#### **Transportation & Acceptance**

We reserve the right to select the means of transportation and routing if we determine that Customer's instructions are unsuitable. Customer shall be responsible for all risk of loss and/or damage commencing upon delivery of the products to the transportation company at the F.O.B. point. Title to any products shall pass to Customer when products are delivered to the transportation company at the F.O.B. point. All products must be inspected by Customer immediately upon receipt and any claims should be filed with the transportation company when there is evidence of shipping damage, even if the damage is concealed. The furnishing of a product to Customer shall constitute acceptance of that product by Customer unless written notice of defect or nonconformity is received by us within ten-days of receipt of the product at Customers designated receiving address. We may repair or, at our option, replace defective or nonconforming parts after receipt of such notice of defect or nonconformity.

### Performance

Delivery dates and production figures are approximate and are based on the prompt receipt by us of all information and materials we deem necessary. Failure to deliver within the time estimated shall not be a breach of contract on our part, and in no event shall we be responsible for, or Customer be entitled to, any damages of any kind whatsoever arising out of or relating to any such delay in delivery. Without limiting the foregoing, acceptance of any good or part thereof by Customer shall constitute a waiver of any and all claims for delay. We shall be excused for delay in delivery and/or may suspend performance of any contract for the sale of products and services without liability to Customer in the event and to the extent of a "force majeure" which shall include, without limitation, strike, lockout, riot, act of civil or military authority, war, riot fire, flood, storm, explosion, act of God, act of Customer, pandemic, quarantine restriction, government order, delay in transportation, accident, or subcontractor or supplier delays or other events beyond our control. We reserve the right to substitute suitable products, when we determine in our sole discretion that such substitution is necessary due to a force majeure. No order may be terminated by Customer without our prior written consent. Machines are not designed to conform to UL or OSHA Standards. It is Customer's sole responsibility to verify the electrical standards applicable to any machines purchased subject to these terms and conditions in their locality.

#### Warranty & Liability for Machine Sales

Our machines, including accessories and spare parts purchased and/or included with the machine sale, are guaranteed to be free from defects in workmanship for twelve months after the date of purchase, unless specified otherwise in writing. This warranty is effective only if the necessary information is provided: serial number of machine and nature of defect, and any part claimed defective is returned prepaid to us. No such return will be accepted unless we issue a returned material authorization (RMA) number. Upon its proper return to us, we shall repair or replace, at our option, the defective part. This warranty applies only if (a) our instructions as to installation, operation and maintenance have been completely followed; (b) the products have been used solely under normal operating conditions or procedures; (c) the products have been properly installed, operated and maintained and have not been affected by misuse, neglect or accident; (d) Customer has not attempted or performed (or caused to be attempted or performed) any type of repair or corrective work or modification without our prior written consent and (e) we shall have received written notice of any defect no later than thirty days after Customer first has knowledge of same. THIS WARRANTY IS EXPRESSLY IN LIEU OF, AND EXCLUDES ALL OTHER EXPRESS, IMPLIED OR STATUTORY WARRANTIES INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, USE OR APPLICATION AND ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART. The machine is not guaranteed to make specific parts. Customer is responsible for studying the machine's specifications to make its own determination that it can machine the desired parts. The remedy of repair or replacement, as provided herein, shall be the Customers exclusive remedy and will satisfy all our liabilities whether based upon contract, negligence, or otherwise. In no event shall we be liable for indirect, incidental, exemplary, punitive, special, or consequential damages of any nature whatsoever,

#### Warranty & Liability for Accessory & Spare Part Sales

Accessories and spare parts purchased after the original machine sale are guaranteed to be free from defects in workmanship for 90-days after the date of purchase, unless specified otherwise in writing. This warranty is effective only if the necessary information is provided: original date of purchase and nature of defect, and any part claimed defective is returned prepaid to us. No such return will be accepted unless we issue a returned material authorization (RMA) number. Upon its proper return to us, we shall repair or replace, at our option, the defective part. This warranty applies only if (a) our instructions as to installation, operation and maintenance have been completely followed; (b) the products have been used solely under normal operating conditions or procedures; (c) the products have been properly installed, operated and maintained and have not been affected by misuse, neglect or accident; (d) Customer has not attempted or performed (or caused to be attempted or performed) any type of repair or corrective work or modification without our prior written consent and (e) we shall have received written notice of any defect no later than thirty days after Customer first has knowledge of same. THIS WARRANTY IS EXPRESSLY IN LIEU OF, AND EXCLUDES ALL OTHER EXPRESS, IMPLIED OR STATUTORY WARRANTIES INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, USE OR APPLICATION AND ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART. The machine is not guaranteed to make specific parts. Customer is responsible for studying the machine's specifications to make its own determination that it can machine the desired parts. The remedy of repair or replacement, as provided herein, shall be the Customers exclusive remedy and will satisfy all our liabilities whether based upon contract, negligence, or otherwise. In no event shall we be liable for indirect, incidental, exemplary, punitive, special, or consequential damages of any nature whatsoever, including, without to comply with an

### Indemnity and Hold Harmless

Customer agrees to indemnify, defend, and hold us harmless from any claims, liability, costs, expenses, obligations or losses incurred in connection with the sale, operation or use of any product, good or part which is the subject of this sale, including, but not limited to, unattended use of the equipment, bodily injury or death or any fire or other calamites resulting from Customer's use of any machine sold hereunder whether any such claims, liability, costs expenses or losses are suffered by Customer or any third party. Customer shall assume the sole responsibility and all risk for any and all loss, damage, or injury (including death) to any and all persons (including, without limitation, to employees and agents of Customer and us) and to all property in connection with the performance of its obligations hereunder or any act or omission of Customer, and shall indemnify, defend, and hold us harmless from and against any and all claims, liabilities, expenses (including, without limitation, attorneys' fees), fines, penalties, damages, and economic losses of whatsoever nature associated therewith, except for such claims, liabilities, etc. caused by our gross negligence or willful misconduct of Seller.

#### Compliance with Manuals, Instructions and Good Safety Practices; Compliance with Laws

Customer shall be responsible for ensuring compliance by its personnel and others given access to any products in Customer's possession or control with all operating and maintenance manuals and instructions provided by us or any of our distributors and with other normal safety, operation and maintenance practices commonly observed in the industry. Compliance with local, state or federal laws, codes, directives or regulations relating to the products and their use is the sole responsibility of Customer, and we make no warranty or representation with respect thereto.

#### **Terms of Payment**

All payments for products released and shipped on approved credit accounts shall be due in full thirty days from the date of invoice. Past due balances shall be subject to a service charge of 1.5% per month or, if lower, the highest rate permitted under law. Partial shipments will be billed as made and payments therefore are subject to the above terms. All deposits are non-refundable. We may cancel or delay delivery of products or services in the event Customer fails to make prompt payment therefore or in the event of arrearage in Customers account. To secure the full and prompt payment and performance of any and all debts, liabilities, agreements, covenants, warranties, obligations, and amounts from time to time now or hereafter owing by Customer to us and/or to any of our affiliates (the "Obligations"), Customer, in consideration of our obligations hereunder, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, grants to us, for ourselves and as agent for each and all of our affiliates (as the case may be, the "Secured Party) a continuing first priority security interest in and lien against any good or part thereof tendered for delivery to Customer by us or any of our affiliates, together with any and all additions, accessions and replacements thereto and proceeds and products thereof, whether now owned or existing or hereafter acquired or coming into existence (collectively, the "Collateral"). Customer agrees that any good or part thereof tendered for delivery by us or any of our affiliates will be used primarily for business purposes. Customer irrevocably appoints Secured Party as Customer's attorney-in-fact with full authority to take any action and to prepare, execute and/or file any instrument that Secured Party deems necessary to carry out the terms herein and to perfect, and maintain the perfection of, Secured Party's lien against and first priority security interest in the Collateral. Customer agrees to pay any and all costs and expenses in conne

#### Arbitration

All disputes under any contract concerning products sold to Customer pursuant to these terms and conditions that are not otherwise resolved between Customer and us shall be resolved through mandatory and binding arbitration to be conducted in Los Angeles, California and in accordance with the Judicial Mediation Arbitration Service ("JAMS") strictly in accordance with the terms of the contract, these terms and conditions and the substantive laws of the State of California, before a single arbitrator knowledgeable in the subject matter of the dispute selected in accordance with the procedures of the JAMS. The parties hereby consent to the service of process by registered mail, return receipt requested or by any other manner provided by the laws of the State of California and hereby waive any claims or defenses based on venue or forum non conveniens. Any related arbitration award will be final, conclusive and binding upon the parties and any judgment thereon may be entered and enforced in any court of competent jurisdiction. To the extent reasonably practicable, all disputes of a similar subject matter relating to more than one contract between any one Customer and us concerning products sold pursuant to these terms and conditions shall be consolidated into a single arbitration proceeding.

#### Attorneys' Fees

Should any legal action or arbitration be brought for the enforcement of these terms and conditions, or due to any alleged dispute, breach, default or misrepresentation in connection with any provisions herein, the non-prevailing party shall pay all reasonable attorneys' fees, expert witness fees and other costs and expenses, as well as arbitration costs and recoverable court costs, incurred by the prevailing party in any such action or proceeding and any action to enforce a judgment (including bankruptcy representation) and any appeal, in addition to such other relief, as may be granted to the prevailing party by the arbitrator or, if applicable, a court.

#### Fire Waiver

Customer shall be solely responsible for the appropriate use of the products, including, without limitation, the machining of certain metals that use oil as the cutting and cooling medium which can provoke the ignition of oil mists, fillings, chips or parts of a machine which could cause considerable damage to a machine and its surroundings. By accepting the products sold hereunder, Customer assumes this risk and is hereby required to use best efforts to avoid such incidents and to limit any potential risk or exposure to life and property arising therefrom. For the avoidance of doubt, we are not responsible for any fires on the machine.

#### <u>Assignment</u>

Customer's assignment of its order, or of any interest thereof or of any right of Customer against Expand or obligation of Customer to Expand, without our prior written consent, shall be void and shall entitle us to cancel such order and to obtain from Customer any applicable cancellation charges. We may assign our rights and/or obligations relating to Customer's order(s) to Expand upon notice to, but without the necessity of the consent of, Customer.

### **CREDIT APPLICATION**

Fax completed form to 818.349.9166 or email to accounting@expandmachinery.com



### Company Information

COMPANY NAME							
ADDRESS							
СІТУ				STATE		ZIP CODE	
COMPANY PHONE			COMPANY FAX				
COMPANY EMAIL			COMPANY WEBSITE				
DATE COMPANY FOTABLIQUES	001451111771				NO 05 51	IDLOVEEO	
DATE COMPANY ESTABLISHED	COMPANY TAX I	D NUMBER	ANNUAL SALES		NO. OF EM	IPLOYEES	
Owner(s) Information	٦						
Owner 1							
ST NAME LAST NAME				PERCENT OF OWNERSHIP			
HOME ADDRESS							
CITY				STATE		ZIP CODE	
PHONE		SC	CIAL SECURITY NUMBER	J <sub>2</sub> L			
Owner 2 FIRST NAME		LAST NAME		F	PERCENT OF O	WNERSHIP	
HOME ADDRESS							
CITY				STATE		ZIP CODE	
PHONE		SC	OCIAL SECURITY NUMBER				
Fautions and Informati	0.10						
Equipment Informati	OH						
EQUIPMENT DESCRIPTION							
PURCHASE PRICE	VE	ENDOR NAME					
Bank Reference							
	DANIK GONTAGT		ANI/ ADDD500				
BANK NAME	BANK CONTACT BA		ANK ADDRESS				
BANK PHONE	ACCOUNT NUMBER						
Submission of this application by each in	ndividual named above	authorizes Expand M	achinery, LLC, Inc. and its a	agents and affiliates	, to conduct	inquiries regarding the	
undersigned's business operations and in contacting banks and secured lenders, le			may deem necessary. This	may include, withou	ut limitation, r	requesting credit reports,	
	.55015 and trade creditt	ora for references.				0	
SIGNATURE					DA	ATE	