



Advanced Metal Processing Technologies

Critical Documents – 2017

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Terms & Conditions of Sale

1. Acceptance. The following Terms and Conditions of Sale (“Terms and Conditions”) are applicable to all sales of Products or Services, and all quotations, order acknowledgements, and invoices from SET Enterprises, Inc. and its divisions or subsidiaries, which include, but are not limited to: SET Enterprises – Chicago, SET Enterprises – New Boston, SET Enterprises – North Vernon and SET Alabama, LLC (“Seller”) and to all Purchase Orders from Seller’s customers (“Purchaser”) with respect to any of the aforementioned business units, and are the only terms and conditions applicable to the sale of Seller’s Products or Services (“Products or Services”), except those relating solely to quantities, shipping instructions, or descriptions of the products set forth in Purchaser’s Purchase Orders (collectively, “Purchase Order Terms”). Purchase Orders, if accepted by Seller, are accepted subject to the terms and conditions set forth herein. **SELLER HEREBY REJECTS ANY ADDITIONAL OR DIFFERENT TERMS OR CONDITIONS PROPOSED BY PURCHASER, WHETHER OR NOT CONTAINED IN ANY OF PURCHASER’S BUSINESS FORMS OR ON PURCHASER’S WEBSITE, AND SUCH ADDITIONAL OR DIFFERENT TERMS AND CONDITIONS SHALL BE VOID AND OF NO EFFECT UNLESS IN A WRITING SPECIFICALLY AGREED TO BY SELLER SPECIFICALLY REFERRING TO AND AGREEING TO THE CHANGE.** In addition, no site usage agreement or any other click through agreement on a website will have any applicability or binding effect whether or not Seller clicks on an “ok,” “I accept,” or similar acknowledgment. A written quotation issued by Seller is an offer to sell. Buyer shall be deemed to have accepted the provisions of these Terms and Conditions and an agreement shall be formed by any of the following: (a) signing and returning to Seller a copy of any quotation; (b) sending to Seller a written acknowledgment of the quotation; (c) placing a purchase order or giving instructions to Seller respecting manufacture, assortment, or delivery of the Products or Services (including instructions to bill and hold) following receipt of any quotation; (d) failing to cancel a pending purchase order within ten (10) days after receiving, or being put on notice of, these Terms and Conditions; (e) accepting delivery of all or any part of the Products or Services; (f) paying for all or any part of the Products or Services; or (g) indicating in some other manner Buyer’s acceptance of these terms and conditions. Any changes to these Terms and Conditions must be in writing clearly identifying the change and signed by Seller.

2. Quotations. Quotations are only valid in writing and for thirty (30) days from the date of the quotation unless otherwise set forth in Seller’s quote. All quotations by Seller are subject to change or withdrawal without prior notice to Purchaser unless otherwise specifically stated in the quotation. Quotations are made subject to approval by Seller of Purchaser’s credit. Seller shall have no obligation to sell or deliver Products or Services covered by Seller’s quotation unless and until Seller issues an order acknowledgement form or upon the shipment of Products or commencement of Services by Seller.

3. Prices. Prices are in U.S. Dollars and are subject to change without notice. If a raw material, component, or service provider raises its prices, or imposes a surcharge on Seller, Seller reserves the right to increase prices and/or surcharge Purchaser and Purchaser agrees to accept such price increase or surcharge until the term of such price increase or surcharge or until the termination of the contract to which these terms and conditions apply is reached. Time of payment is of the essence. All orders are accepted subject to Seller’s price in effect at time of shipment.

4. Terms of Payment. The inspection rights granted to Purchaser will not affect or alter the payment terms or the timing of Purchaser’s payment obligations. Under no circumstances will Purchaser have a right of set-off. Seller shall have the right to offset its payables against its receivables related to goods or services purchased from Seller. Unless otherwise expressly agreed to by Seller in Seller’s quotation, terms of payment are thirty (30) days net from



the date of Seller's invoice. No discount shall be allowed on transportation charges. In the event of Purchaser's failure to pay Seller's invoice(s) or of any late invoice payments by Purchaser, Seller reserves the right to take any or all of the following actions: (a) any actions allowable under law; (b) withhold shipment of goods; (c) demand the return of previously shipped goods; (d) institute new payment terms; and/or (e) cancel any purchase orders. In addition, Purchaser agrees to pay interest on overdue invoices at the rate of 1 ½ % per month, but not higher than the highest rate permitted by law. If Purchaser fails to make any payment as required, Purchaser agrees to indemnify Seller for all costs and expenses, including reasonable attorneys' fees, court costs, and associated expenses incurred by Seller.

5. Credit Approval. All shipments to be made hereunder shall at all times be subject to the approval of Seller's credit department. Seller may invoice Purchaser and recover for each shipment made pursuant to these Terms and Conditions as a separate transaction without regard to any other order or agreement with Seller, or if, in Seller's sole judgment, the financial responsibility of Purchaser is or becomes unsatisfactory, then Seller may, at its option and without prejudice to any of its other remedies, (a) defer or decline to make any shipments hereunder except upon receipt of satisfactory security or cash payments in advance, and / or (b) terminate all Purchase Orders of Purchaser.

6. Cancellation. Seller reserves the right to cancel any Purchase Orders or releases thereunder, or terminate any Agreement relating to purchase of Seller's Products or Services on not less than thirty (30) days' notice. Once Seller has either accepted a Purchase Order or has begun taking actions with respect to such Purchase Order, such Purchase Order cannot be canceled, terminated or modified by Purchaser in whole or in part except with Seller's consent in writing and then only upon terms and conditions to be agreed upon which shall include protection of Seller against all losses. If Purchaser nonetheless repudiates the contract or notifies Seller to proceed no further therewith, Seller shall have the right to deliver all finished goods and goods in process, and Buyer agrees to accept same and to pay to Seller the contract price for all finished goods plus reimbursement, including lost profits, for unfinished goods.

7. Inspection / Non – Conforming Shipments. Seller grants Purchaser the right to inspect Products for a period of fifteen (15) business days immediately following delivery ("Inspection Period"). Purchaser must notify Seller of any Products that do not conform to the terms applicable to their sale within the inspection period, and afford Seller a reasonable opportunity to inspect such Products and cure any nonconformity. If Purchaser fails to provide Seller with notice of nonconformity within the Inspection Period, Purchaser shall be deemed to have accepted the Products. Purchaser will have no right to return any Product without Seller's prior written authorization. Any return authorized by Seller must be made in accordance with Seller's return policies then in effect and must be accompanied by a Returned Goods Authorization ("RGA") from Seller. Purchaser will be responsible for all costs and expenses associated with any returns of Products and will bear the risk of loss or damage of such Products, unless Seller agrees otherwise in writing or determines that the Products do not conform to the applicable terms of sale. Seller, in its sole discretion may reject any return of Product not approved by Seller in accordance with this paragraph or otherwise not returned in accordance with Seller's then current-return policies.

8. Title / Risk of Loss / Delivery. Unless other arrangements are made in writing, Seller anticipates use of common carriers for transport of Products. Unless specifically otherwise provided in Seller's invoice, the carrier, and not Seller, will bill for freight rates and other transportation charges. Such payments are solely the responsibility of the Purchaser, to be paid directly by the Purchaser to the carrier. Seller reserves the right to schedule its production and to make deliveries accordingly. In circumstances where the Purchaser specifies deliveries to be made in installments, which do not conform to such schedule and Seller elects to deliver as specified by Purchaser, Seller shall have the right to adjust the price to cover Seller's additional costs. All Products shall be shipped F.O.B. Seller's plant and



shall become the property of Purchaser upon delivery to the carrier and receipt of full payment by Seller. Purchaser shall assume all risk and liability for loss, damage, or destruction, as well as the results of any use or misuse by third parties who may acquire or use the Products illicitly after the delivery to the carrier. Unless mutually agreed upon, shipping dates are approximate and are based upon prompt receipt of all necessary information. Seller reserves the right to ship items in a single or multiple shipments.

9. **Damage.** Purchaser shall notify Seller and the delivering carrier within fifteen (15) business days from date of receipt of Products, of any damage or shortage, and afford Seller a reasonable opportunity to inspect the Products.

Any loss occasioned by damage or shrinkage in transit will be for Purchaser's account and claims for such loss shall be made solely against the carrier.

10. Quantities. Unless otherwise agreed in writing, any variation in quantities shipped over or under the quantities ordered (not to exceed 10%) shall constitute compliance with Purchaser's Order and the stated price per item will continue to apply.

11. Warranty. SELLER WARRANTS ONLY THAT THE PRODUCTS OR SERVICES SOLD HEREUNDER (A) WILL CONFORM TO THE DESCRIPTION, IF ANY, ON THE FACE HEREOF, (B) WILL BE CONVEYED FREE AND CLEAR OF ANY LIEN, SECURITY INTEREST OR ENCUMBRANCE CREATED BY SELLER OR ANY PARTY CLAIMING BY, THROUGH OR UNDER SELLER, AND (C) WILL BE FREE FROM SUBSTANTIAL DEFECTS IN MATERIAL AND WORKMANSHIP UNDER NORMAL USE GIVEN PROPER STORAGE AND HANDLING AND CARE FROM PHYSICAL DAMAGE FOR A PERIOD OF THREE (3) MONTHS FROM THE DATE OF DELIVERY TO THE CARRIER.

SELLER SHALL HAVE THE RIGHT EITHER TO REPLACE OR REPAIR ANY DEFECTIVE PRODUCTS, TO REFUND THE PURCHASE PRICE UPON RETURN OF THE PRODUCTS OR TO GRANT A REASONABLE ALLOWANCE ON ACCOUNT OF SUCH DEFECTS, AND SELLER'S LIABILITY AND PURCHASER'S EXCLUSIVE REMEDY FOR DEFECTIVE PRODUCTS SHALL BE LIMITED SOLELY TO REPLACEMENT, REPAIR, REFUND OR ALLOWANCE AS SELLER MAY ELECT.

SELLER SHALL BE GIVEN A REASONABLE OPPORTUNITY TO INVESTIGATE ALL CLAIMS AND NO PRODUCTS SHALL BE RETURNED TO SELLER UNTIL AFTER INSPECTION AND APPROVAL BY SELLER AND RECEIPT BY PURCHASER OF A RGA.

12. Disclaimer of Further Warranties. EXCEPT AS SET FORTH ABOVE, SELLER MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, EXPRESS OR IMPLIED (INCLUDING NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE) WITH RESPECT TO ITS PRODUCTS OR SERVICES.

13. Limitation of Liability and Remedies. SELLER SHALL NOT BE LIABLE, AND PURCHASER WAIVES ALL CLAIMS AGAINST SELLER, FOR INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, LOST PROFITS OR COMMERCIAL LOSSES, WHETHER OR NOT BASED UPON SELLER'S NEGLIGENCE OR BREACH OF WARRANTY OR STRICT LIABILITY IN TORT OR ANY OTHER CAUSE OF ACTION. SELLER WILL NOT BE LIABLE TO PURCHASER FOR ANY LOSS, DAMAGE, OR INJURY



TO PERSONS OR PROPERTY RESULTING FROM THE HANDLING, STORAGE, TRANSPORTATION, RESALE, OR USE OF ITS PRODUCTS IN MANUFACTURING PROCESSES, OR IN COMBINATION WITH OTHER SUBSTANCES, OR OTHERWISE. IN NO EVENT WILL SELLER'S LIABILITY UNDER THESE TERMS AND CONDITIONS OR IN CONNECTION WITH THE SALE OF PRODUCTS BY SELLER EXCEED THE PURCHASE PRICE OF THE SPECIFIC PRODUCTS OR SERVICES AS TO WHICH THE CLAIM IS MADE.

14. Inventory. Except as provided in Sections 7 and 11 hereof, Seller will neither accept return of Product, nor be responsible for its destruction.

15. Technical Data. All physical properties, statements and recommendations are either based on the tests or experience that Seller believes to be reliable, but they are not guaranteed.

16. Product Use. Purchaser is solely responsible for determining whether any Product is fit for a particular purpose and suitable for Purchaser's method of application. Accordingly, and due to the nature and manner of use of Seller's Products, Seller is not responsible for the results or consequences of use, misuse or application of its Products by anyone.

17. Tooling / Molds / Dies. Unless otherwise agreed in writing signed by Seller, all material, equipment, facilities, and special tooling, (which term includes but is not limited to tools, jigs, dies, fixtures, molds, patterns, special taps, special gauges, special test equipment, and manufacturing aids and replacements thereof), used in the manufacture of the Products covered by any Purchase Order shall remain the property of Seller. Any material, tooling, or equipment furnished to Seller by Purchaser shall be and remain the personal property of Purchaser with the title to and right of possession remaining in Purchaser.

18. Taxes. Purchaser shall pay to Seller, in addition to the purchase price, the amount of all fees, duties, licenses, tariffs, and all sales, use, privilege, occupation, excise, or other taxes, federal, state, local or foreign, which Seller is required to pay or collect in connection with the Products or Services sold to Purchaser. Failure by the Seller to collect any such fees or taxes shall not affect Purchaser's obligations hereunder and Purchaser shall fully defend, indemnify and hold harmless Seller with respect to such tax obligations.

19. Ownership of Intellectual Property. All drawings, know-how, designs, specifications, inventions, devices, developments, processes, copyrights, trademarks, patents and applications therefore, and other information or Intellectual Property disclosed or otherwise provided to Purchaser by Seller and all rights therein (collectively, "Intellectual Property") will remain the property of Seller and will be kept confidential by Purchaser in accordance with these terms and conditions. Purchaser shall have no claim to, nor ownership interest in, any Intellectual Property and such information, in whatever form and any copies thereof, shall be promptly returned to Seller upon written request from Seller. Purchaser acknowledges that no license or rights of any sort are granted to Purchaser hereunder in respect of any Intellectual Property, other than the limited right to use the Seller's proprietary Products purchased from Seller. Unless specifically provided for and itemized for payment as agreed to by Seller, the sale of Products or Services by Seller to Purchaser does not include any design, development or related services associated with the Intellectual Property of the Seller.

20. Confidential Information. All information furnished or made available by Seller to Purchaser in connection with the subject matter of these Terms and Conditions or of Purchaser's Purchase Order shall be held in confidence



by the Purchaser. Purchaser agrees not to use such information or disclose such information to others without Seller's prior written consent. The obligations in this paragraph will not apply to any information which (a) at the time of disclosure was or thereafter becomes, generally available to the public by publication or otherwise through no breach by the Purchaser of any obligation herein, (b) the Purchaser can show by written records was in the Purchaser's possession prior to disclosure by Seller, or (c) is legally made available to the Purchaser by or through a third party having no direct or indirect confidentiality obligation to Seller with respect to such information.

21. Infringement and Indemnification. (a) Except as set forth below, Seller agrees to defend, indemnify and hold the Purchaser harmless against any claims, costs, damages, liability and expenses resulting from actual patent, trademark, or copyright infringement, misappropriation of confidential information, or violation of any other Intellectual Property right, domestic or foreign, that may arise from the sale of Seller's proprietary Product to the Purchaser as such pertains to the subject matter of these Terms and Conditions (provided that the Product (i) is not modified in any way by the Purchaser or any other party, (ii) is not a resourced part provided by Purchaser to Seller, and (iii) is used in the manner intended by Seller). If a suit or claim results in any injunction or any other order that would prevent Seller from supplying any part or Product falling under these Terms and Conditions, or if the result of such a suit or claim would, in the reasonable opinion of Seller, otherwise cause Seller to be unable to supply such parts or Products, Seller shall have the right, at its option, if it so chooses, to do one or more of the following: (i) secure an appropriate license to permit Seller to continue supplying said parts or Products to Purchaser; (ii) modify the appropriate part or Product so that it becomes non-infringing; (iii) replace the appropriate part or Product with a non-infringing but practically equivalent part or Product; or (iv) if the Seller cannot reasonably accomplish the actions specified in subparagraphs (i) – (iii), then in Seller's sole discretion, Seller may discontinue selling the part or Product without any further liability to Purchaser. (b) Purchaser agrees to defend, indemnify and hold Seller harmless against any claims, costs, damages, liability and expenses resulting from actual or alleged patent, trademark, or copyright infringement, misappropriation of confidential information, or violation of any other Intellectual Property right, domestic or foreign, that may arise from the making, using or selling of any part or Product or using any process that is designed or specified by the Purchaser. (c) If any claim is made by a third party on the basis of which indemnification may be sought under this paragraph, the party entitled to indemnification (the "Indemnified Party") shall give written notice of such claim to the party liable for such indemnification (the "Indemnifying Party") promptly after the Indemnified Party has actual notice of such claim. The Indemnifying Party shall have the right to defend and/or settle such claim at its expense, provided that it does so diligently and in good faith. The Indemnified Party shall cooperate with such defense and/or settlement and shall have the right to participate in (but not to control) such defense and/or settlement at its expense. No settlement shall be entered into unless the Indemnified Party shall be released from all liability for such claim.

22. Force Majeure. Seller shall not be liable for failure to perform or delay in performance or delivery of any Products or Services due to (a) fires, floods, strikes, or other labor disputes, accidents, sabotage, terrorism, war, riots, acts of precedence or priorities granted at the request or for the benefit, directly or indirectly, of any federal, state or local government or any subdivision or agency thereof, delays in transportation or lack of transportation facilities, restrictions imposed by federal, state or local laws, rules or regulations; or (b) any other cause beyond the reasonable control of Seller. In the event of the occurrence of any of the foregoing, the time for performance shall be extended for such time as may be reasonably necessary to enable Seller to perform. Seller may, during any period of shortage due to any of the above circumstances, allocate its available supply of Products or Services among itself and its Purchasers in such manner as Seller, in its judgment, deems fair and equitable.



23. Assignment and Delegation. No assignment of any rights or interest or delegation of any obligation or duty of Purchaser under these terms and conditions, Seller's quotation, order acknowledgement, or invoice, or Purchaser's Purchase Order may be made without the prior written consent of Seller. Any attempted assignment or delegation will be wholly void and totally ineffective for all purposes.

24. Integration Clause. These Terms and Conditions and other written agreements duly accepted by Seller in writing and which supplement these standard Terms and Conditions constitute the entire agreement between the parties relating to the sale of the Products, services and programs described herein and supersede all previous communications, representations or agreements, either oral or written, with respect to the subject matter thereof. No representations or statements of any kind made by any representative of Seller, which are not stated in these Terms and Conditions, shall be binding on Seller. No addition to or modification of any provision to the contract shall be binding on Seller unless made in writing and signed by a duly authorized representative of Seller located at Seller's headquarters in Warren, Michigan. No course of dealing or usage of trade or course of performance shall be relevant to explain, supplement, or determine the meaning of any term or provision expressed in these Terms and Conditions or any Purchase Order.

25. Waiver. No failure of Seller to insist upon strict compliance by Purchaser with these terms and conditions or to exercise any right accruing from any default of Purchaser shall impair Seller's rights in case Purchaser's default continues or in case of any subsequent default by Purchaser. Waiver by Seller of any breach by Purchaser of these terms and conditions shall not be construed as a waiver of any other existing or future breach.

26. Limitation of Actions. Notwithstanding any contrary statute of limitations, any cause of action for any alleged breach of these terms and conditions by Seller shall be barred unless commenced by Purchaser within one (1) year from the accrual of such cause or action.

27. Litigation Costs. If any litigation or arbitration is commenced between Seller and Purchaser concerning any provision of these Terms and Conditions, the party prevailing in the litigation or arbitration is entitled, in addition to such other relief that is granted, to a reasonable sum as and for their attorney's fees in such litigation or arbitration, provided that if each party prevails in part, such fees shall be allocated in such manner as the court or arbitrator shall determine to be equitable in view of the relative merits and amounts of the parties' claims.

28. Choice of Laws. Any dispute arising out of or related to these Terms and Conditions shall be governed by and construed according to the laws of the State of Michigan and litigated exclusively in a state court located in Oakland County, Michigan or a federal court located in Wayne County. The parties hereby agree to the exclusive jurisdiction and venue of such courts.

29. Jury Waiver. The parties hereto expressly release and waive any and all rights to a jury trial and consent to have any dispute heard solely by a Court of competent jurisdiction.

30. Severability. If any provision herein shall be held to be unlawful or unenforceable, the remaining provisions herein shall remain in full force and effect.

Capabilities by Facility



Process Equipment Capabilities

Blanking

Division	Line	Press OEM	Press Tonnage	Die Loading	Bed Size	Shut Hgt	Bolster	Gauge Range	Max Width	Max Pitch	Max O.D.	Max Coil Wgt (lbs.)	CFG	CTL	TRP	CHV	RAD	SS	ALM	AHS	EX	
													F	T	R	H	A	U	S	HP		
Chicago, IL	1	Auto Feed	160	Swing Shear	x			0.010" - 0.100"	72"	120"	72"	60,000		X	X						X	X
	3	Clearing	400	Side	136" x 84"	47"	Fixed	0.024" - 0.100"	66"	120"	72"	60,000	X	X	X	X	X	X	X	X	X	X
	4	Clearing	400	Side	136" x 84"	47"	Fixed	0.020" - 0.126"	66"	120"	72"	60,000	X	X	X	X	X	X	X	X	X	X
	5	Danley	400	Side	205" x 96"	52"	Fixed	0.020" - 0.100"	72"	124"	68"	60,000	X	X	X	X	X	X	X	X	X	X
	6	Clearing	500	Side	186" x 108"	46.75"	Sub-Plate	0.024" - 0.100"	72"	164"	72"	60,000	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX
	7	Clearing	500	Side	186" x 108"	46.75"	Fixed	0.024" - 0.090"	72"	165"	72"	60,000	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX
New Boston, MI	Ace	Fukui	400	Side	134" x 86"	43"	Rolling	0.020" - 0.090"	72"	118"	72"	44,000	X	X	X	X	X	X	X	X	X	X
	Deuce	Fukui	600	Side	204" x 104"	53"	Rolling	0.020" - 0.126"	78"	165"	96"	65,000	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX
	Quattro	Barrie HYD	250	Side	121" x 96"	36"	Fixed	0.024" - 0.126"	72"	200"	72"	40,000	X	X	X	X	X	X	X	X	X	
North Vernon, IN	1	Clearing	500	Side	186" x 108"	48"	Fixed	0.017" - 0.135"	72"	200"	72"	40,000	X	X	X	X	X	X	X	X	X	X
	2	Barrie HYD	250	Side	121" x 96"	48"	Fixed	0.040" - 0.104"	72"	200"	72"	60,000	X	X	X	X	X	X	X	X	X	X
	3	Air Ram	150	Side	74" x 77"	23"	Fixed	0.030" - 0.110"	72"	200"	72"	45,000		X	X							
	4	Air Ram	80	Side	74" x 72"	19.5"	Fixed	0.030" - 0.065"	60"	200"	72"	30,000		X	X							

Slitting

Division	Line	Gauge Range	Max Coil Width		Max Coil OD		Coil ID Range				Materials						Max Coil Wgt (lbs)						
			IN	OUT	IN	OUT	IN		OUT		HR	CR	CO	SS	EX	ALM	AHS	IN	OUT				
Jackson, AL	Nova - 73"	0.145" - 0.500"	74"	73"	84"	84"	24"	to	32"	24"				X	X	X	X					80,000	80,000
	Braner - 72"	0.010" - 0.250"	73"	72"	72"	72"	20"		24"	20"		24"		X	X	X	X		X	X		60,000	60,000
New Boston, MI	Stamco - 76"	0.015" - 0.140"	76"	76"	96"	96"	20"		24"	20"		24"		X	X	X	X	EX	EX			60,000	60,000
	Braner - 60"	0.030" - 0.148"	61"	60"	72"	72"	20"	22"	24"	20"	22"	24"		X	X	X	X		X	X		55,000	55,000
North Vernon, IN	Braner - 60"	0.015" - 0.157"	62"	60"	72"	72"	20"	to	24"	20"		24"		X	X	X	X		X	X		60,000	60,000
	Chicago - 72"	0.015" - 0.157"	74"	72"	72"	72"	20"	to	24"	20"		24"		X	X	X	X		X	X		50,000	50,000

Rollforming - Customer inquiries are welcomed regarding size requirements other than those shown.

Division	Line	Rings	Diameter		Length	Section Height and Width	Gauge Range	Steel	
			MIN	MAX				Type	Grades
Jackson, AL	SET	ID	20"	30"	Circumference + 4"	1.75" - 4.75"	0.028" - 0.036"	CO - 30/30 Min	CQ & EDDS
		OD	31"	79"	Circumference + 4"	2.00" - 5.00"	0.028" - 0.036"	CO - 30/30 Min	CQ & EDDS
		Quarters	20"	79"	47" Min - 75" Max	2.00" - 5.00"	0.028" - 0.036"	CO - 30/30 Min	CQ & EDDS

CFG: Configured blanks
 HR: Hot rolled steel
 CQ: Commercial Quality

CTL: Cut-to-length or rectangular blanks
 CR: Cold rolled steel
 EDDS: Extra Deep Drawing Steel

TRP: Trapezoids or parallelograms
 CO: Coated steel
 AHS: Advance High Strength Steels
 Unit of Measure: English

CHV: Chevrons
 SS: Stainless steel
 EX: Exposed quality steel
 RAD: Radius Cuts
 ALM: Aluminum



Process Equipment Capabilities

Blanking

Division	Line	Press OEM	Press Tonnage - Metric Tons	Die Loading	Bed Size (mm)	Shut Hgt (mm)	Bolster	Gauge Range (mm)	Max Width (mm)	Max Pitch (mm)	Max O.D. (mm)	Max Coil Wgt (kgs.)	C	C	T	C	R	A	A	
													F	T	R	H	A	L	H	
Chicago, IL	1	Auto Feed	145	Swing Shear	x			0.25 - 2.54	1,829	3,050	1829	27,216 kgs.	X	X	X	X	X	X	X	X
	3	Clearing	362	Side	3,454 x 2,134	1,194	Fixed	0.61 - 2.54	1,676	3,050	1829	27,216 kgs.	X	X	X	X	X	X	X	X
	4	Clearing	362	Side	3,454 x 2,134	1,194	Fixed	0.50 - 3.20	1,676	3,050	1829	27,216 kgs.	X	X	X	X	X	X	X	X
	5	Danley	362	Side	5,207 x 2,438	1,321	Fixed	0.50 - 2.54	1,829	3,150	1727	27,216 kgs.	X	X	X	X	X	X	X	X
	6	Clearing	453	Side	4,724 x 2,743	1,187	Sub-Plate	0.61 - 2.54	1,829	4,165	1829	27,216 kgs.	EX							
New Boston, MI	Ace	Fukui	362	Side	3,404 x 2,184	1,092	Rolling	0.50 - 2.29	1,829	3,000	1829	19,958 kgs.	X	X	X	X	X	X	X	X
	Deuce	Fukui	544	Side	5,182 x 2,642	1,346	Rolling	0.50 - 3.20	1,981	4,200	2438	29,484 kgs.	EX							
	Quattro	Barne HYD	226	Side	3,073 x 2,438	914	Fixed	0.60 - 3.20	1,829	5,080	1829	18,144 kgs.	X	X	X	X	X	X	X	
North Vernon, IN	1	Clearing	453	Side	4,724 x 2,743	1,219	Fixed	0.43 - 3.43	1,829	5,080	1829	18,144 kgs.	X	X	X	X	X	X	X	X
	2	Barrie HYD	226	Side	3,073 x 2,438	1,219	Fixed	1.02 - 2.64	1,829	5,080	1829	27,216 kgs.	X	X	X	X	X	X	X	X
	3	Air Ram	136	Side	1,880 x 1,956	584	Fixed	0.76 - 2.79	1,829	5,080	1829	20,412 kgs.	X	X						
	4	Air Ram	72	Side	1,880 x 1,829	495	Fixed	0.76 - 1.65	1,524	5,080	1829	13,608 kgs.	X	X						

Slitting

Division	Line	Gauge Range (mm)	Max Coil Width (mm)		Max Coil OD (mm)		Coil ID Range (mm)				HR	CR	Materials					Max Coil IN	Wgt (kgs.) OUT	
			IN	OUT	IN	OUT	IN	OUT	IN	OUT			IN	OUT	EX	ALM	AHS			
Jackson, AL	Nova - 1854	3.68 - 12.7	1879	1854	2133	2133	609	to	812	609			X	X	X	X	X	36,287 kgs.	36,287 kgs.	
	Braner - 1828	0.25 - 6.35	1854	1828	1828	1828	508		609	508			X	X	X	X	X	27,216 kgs.	27,216 kgs.	
New Boston, MI	Stanco - 1930	0.38 - 3.55	1930	1930	2438	2438	508		609	508	609		X	X	X	X	EX	EX	27,216 kgs.	27,216 kgs.
	Braner - 1524	0.76 - 3.75	1549	1524	1828	1828	508	558	609	508	558	609	X	X	X	X	X	24,948 kgs.	24,948 kgs.	
North Vernon, IN	Braner - 1524	0.38 - 3.98	1574	1524	1828	1828	508	to	609	508			X	X	X	X	X	27,216 kgs.	27,216 kgs.	
	Chicago - 1828	0.38 - 3.98	1879	1828	1828	1828	508	to	609	508			X	X	X	X	X	22,680 kgs.	22,680 kgs.	

Rollforming - Customer inquiries are welcomed regarding size requirements other than those shown.

Division	Line	Rings	Diameter (mm)		Length (mm)	Section Height and Width (mm)		Gauge Range (mm)	Steel		
			MIN	MAX		Type	Grades				
Jackson, AL	SET	ID	508	762	Circumference + 100	44.5	- 120.7	0.71	- 0.91	CO - 30/30 Min	CQ & EDDS
		OD	787	2006	Circumference + 100	50.8	- 127.0	0.71	- 0.91	CO - 30/30 Min	CQ & EDDS
		Quarters	N/A	N/A	1193 min-1905 max	50.8	- 127.0	0.71	- 0.91	CO - 30/30 Min	CQ & EDDS

CFG: Configured blanks
HR: Hot rolled steel
CQ: Commercial Quality

CTL: Cut-to-length or rectangular blanks
CR: Cold rolled steel
EDDS: Extra Deep Drawing Steel

TRP: Trapezoids or parallelograms
CO: Coated steel
AHS: Advance High Strength Steels
Unit of Measure: Metric

CHV: Chevrons
SS: Stainless steel
EX: Exposed quality steel
RAD: Radius Cuts
ALM: Aluminum



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