

Revised 14/11/18

NC Hydraulic Shearing Machine

1	Shearing Capacity (plate of tensile strength of 45 Kg/mm ²)	Up to 6 x 2500 mm
2	Shearing Length	2500 mm
3	Rake Angle Range	0.5 - 3
4	Stroke per Minute	20 (Max) – 8 (Min)
5	No.Of Hold	10 or more
6	Table Width	200 mm or more
7	Motor	20 HP min. (Siemens / ABB or equivalent)
8	Back Gauge	Motorized back gauge with DRO (with timer belt)
9.	Accuracy	Back Gauge: +/-0.1mm Cutting Accuracy: As per DIN standard Bow: As per DIN Standard CAMBER: As per Din standard
10	Console with ESSENTIAL ACCESSORIES	<ul style="list-style-type: none"> Operational Consol. Rake angle selection through selector switch Lever operated Blade clearance with calibration. Fine stroke adjustment rod with limit switch Squaring arm with steel rule. Hardened Transfer bars mounted on table Hold down cylinders. Cutting area illuminated for clear view of blades. Four edge HCHCr Blade suitable to MS & SS. Degree protector for angular cutting. Stroke counter. Design with throat depth. Front & Rear Sheet Support Centralized lubrication system with flow control valves for adequate lubrication A SET OF ADDITIONAL BLADES (1 UPPER & 1 BOTTOM) FIRST FILL OF HYDRAULIC OIL. <p>The OEM to provide catalogue / drawings of the items offered.</p>
11	Machine Construction Features	<ul style="list-style-type: none"> Hydraulic Seals: Simrit/Sambhen/Equivalent Padings: Simrit/Sambhen/Equivalent Hydraulic Pumps: Integral gear Pump (Bosch/Rexoroth/Atos/Voith/equivalent) Hydraulic valves; Bosch/Rexoroth/Atos Timer Belt: Specify the Manufacturer Ball Screw: THk /Hiwin LM Guide: THk/Hiwin A/C servo Motor: Schinder/Siemens/Fanuc/Fuji PLC: Schinder/Siemens/Fuji Electrical Elements: Siemens/L&T/Schinder

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		<ul style="list-style-type: none"> Optical Linear Scale: Hiedenhien/Givi/Equivalent
12	Optional Item (Quoted Separately)	<ul style="list-style-type: none"> Optional items if any for smooth operation of machine OEM has to be mentioned & Quote
13	PRE DESPATCH INSPECTION	<p>Before inspection of the machine at OEM's works, shearing of Test pieces will be carried out by the OEM. All the tooling, work holding devices & Standard test piece will be supplied by the OEM at free of cost.</p> <p>Accuracy:</p> <p>Back gauge: +/-0.1mm Cutting Accuracy: As per DIN standard Bow: As per DIN Standard CAMBER: As per Din standard</p>
14	INSTALLATION & COMMISSIONING OF THE MACHINE	<p>Installation, commissioning & proving of the machine to its desired capacity and complete at Customer site and will be done by the OEM's engineer. Commissioning work including acceptance test/component trial will be carried out by the OEM's Expert.</p> <p>During commissioning at least 10 nos. Of different thickness and materials test pieces will be produced on the machine and test pieces will be inspected for dimensional accuracy.</p> <p>The commissioning will be treated as complete when we issue the certificate of acceptance. Installation, commissioning & proving of the machine to its desired capacity and complete satisfaction</p>
15	TRAINING	The OEM shall have to provide training exclusively for min. four working days in the field of programming, operation, maintenance (mechanical/hydraulic/electrical) etc.
16	WARRANTY & SERVICE BACK UP	<p>The complete machine must have comprehensive on site warranty from the date of successful commissioning as per below period:</p> <p>a) Machine: 12 months</p>
17	DOCUMENTATION	<p>Three sets of hardcopy in English language and one set of soft copy in English language Programming, Operating and Maintenance manual .</p> <p>a) Mechanical b) Electrical</p>
18	IMPORTANT Notes	<ul style="list-style-type: none"> Vendors should provide in the technical document compliance sheet against the specification of CSIR-CMERI. Comments like yes, agreed, will be given at the time of supply, confirmed and will be completed ARE NOT ACCEPTABLE where numerical values

Signature

		are required to be quoted.
		<ul style="list-style-type: none"> • THE MACHINE MODEL BEING OFFERED MUST BE A STANDARD LATEST MODEL. • THE DATE OF DISPATCH SHOULD BE WITHIN ONE YEAR FROM DATE OF MANUFACTURING. • THE OEM MUST HAVE AT LEAST 5 INSTALLATIONS OF THE OFFERED SYSTEM IN INDIA (DOCUMENTARY EVIDENCE MUST BE SUBMITTED).

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10	Console with ESSENTIAL ACCESSORIES	<ul style="list-style-type: none"> • Operational Control • Blade angle selection through selector switch • Level adjusted blade clearance with calibration • Fine stroke adjustment rod with limit switch • Squaring arm with steel rule • Hardened Transfer bars mounted on table • Hold down cylinders • Cutting area illuminated for clear view of blades • Four edge H.C.N.Cr 11' x 16' suitable to MS & SS • Degree protector for angular cutting • Stroke counter • Design with throat depth • Front & Rear Sheet Support • Centralized lubrication system with flow control valves for adequate lubrication • A SET OF ADDITIONAL BLADES (1 UPPER & 1 BOTTOM) • FIRST FILL OF HYDRAULIC OIL <p>The OEM to provide catalogue / drawing of the items offered.</p>
11	Machine Construction Features	<ul style="list-style-type: none"> • Hydraulic Oil • Switch / Switcher / Controller • Bearings: Shimizu / Shimizu / Tapered • Hydraulic Pumps: Integral gear Pump (Bosch Rexroth / Toy / Vickers / equivalent) • Hydraulic Valves: Bosch / Rexroth / Moog • Tapered roller bearings: Specify the Manufacturer • Ball bearing: NSK / Hiwin • Cast Steel: T10 / H10 • A.C. Motor • 3-Phase / Single / 3-Phase / 4-Phase • P.C. Schindler / Siemens / Fuji • Electrical Elements: Siemens / A.T. / Schneider

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