

TECHNICAL DATA

MC BENDING MACHINES

MODEL	WIRE DIAMETER mm (R<750 mm ²)	CHAIN PITCH mm	MAX. OUTPUT links/min	FLOOR SPACE cm	WEIGHT kg
MC7	3 - 7	9 - 45	100	270x140	2200
MC11	6 - 11	18 - 70	70	350x220	4500
MC16	8 - 16	21 - 100	60	360x230	6500
MC22	12 - 22	36 - 120	40	470x300	11000

SH WELDING MACHINES

MODEL	WIRE DIAMETER mm	CHAIN PITCH mm	MAX. OUTPUT links/min	FLOOR SPACE cm	WEIGHT kg
SH0	3 - 6	9 - 40	75	220x160	2020
SH1	5 - 10	15 - 65	70	190x140	4200
SH2	8 - 13	24 - 85	55	250x150	5000
SH3	10 - 16	30 - 100	40	300x200	7000
SH4	14 - 22	40 - 120	30	350x220	9000

CT CALIBRATING MACHINES

MODEL	WIRE DIAMETER mm	TRACTIONS N°/min	TEST LOAD Ton max.	JAW DISTANCE RANGE mm	FLOOR SPACE cm	WEIGHT kg
CT17	7 - 16	35	17	70 - 300	300x105	3400
CT50	13 - 26	19	50	150 - 500	390x160	7000

CHAIN MACHINERY

MC BENDING
SH WELDING
CT CALIBRATING



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MC BENDING MACHINES



The MC chain bending machine series has been engineered to process high alloy materials in grades 80-100 and stainless steel. The machines form the chain in three distinct stages each of which is controlled by a cam shaft that carefully ensures that all stages are executed with the required force and a constant processing action to obtain a perfect chain link geometry. The tooling used during the delicate bending process include polygonal rollers which allow the link to be formed without leaving any surface marks. The machines are all equipped with a wire length control system that guarantees the link's length accuracy, an important feature which coupled with the link ends precise notching geometry enable a weld quality level compliant to the demanding chain lifting standards as well as other high alloy or stainless steel chain industries. The MC bending machines are all equipped with tool security sensors to avoid operator error resulting in tool damage or breakage. All the MC bending machines come with a touch-screen panel allowing the operator to save all chain bending settings as well as essential production data which may be downloaded via USB stick and successively processed.



2nd - 3rd BENDING STAGE



NOTCHED CHAIN LINK



LINK CLAMPING UNIT

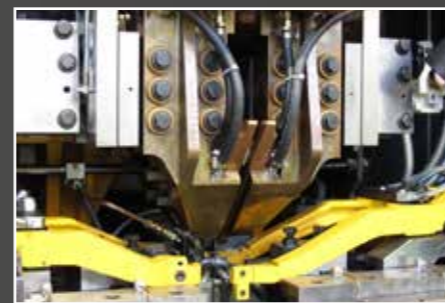


INTEGRATED STAMPING UNIT WITH 4 INDEXING POSITIONS

SH WELDING MACHINES



The SH series of chain welding machines enable welding of each link in continuous mode through an indexing system which accurately positions each link in an upright position beneath the welding head. The SH welding series has been engineered to process high alloy materials in grades 80-100 and stainless steel using medium frequency resistance welding technology (DC 1000Hz). Unlike traditional alternate current welding (AC 50Hz) the cycle is constant throughout, resulting in a superior quality weld. The tilting welding head allows the operator to easily execute any tool adjustment or replacement need. The deburring phase is accomplished in succession with the deburring unit running intermittently alongside the link and accurately removing the hot excess material. The machines are all equipped with security sensors to prevent damage of the tooling and other principal machine components. The SH welding machines come with a touch-screen panel allowing the operator to save all chain weld settings as well as essential production data which may be downloaded via USB stick and successively processed. A major feature of the SH series is the design which allows easy access to principal the main machine components for tool set-up or routine machine maintenance.



INDEXING CHAIN INTO UPRIGHT POSITION



WELDING AND UPSETTING PHASE



TOUCH-SCREEN CONTROL PANEL

CT CALIBRATING MACHINES



The CT calibrating machines are used to test the chains resistance by generating a tractive force on a tangential surface between a set number of chain links. The machine has two robust and oversized jaws one of which is fixed and the other adjustable to allow link setting and traction processing. The jaws are regulated pneumatically whilst the machine's traction force is accurately controlled by its levers and load-cell that verify and record both the link load and elongation values in quick succession. The machines are equipped with a stamping unit to emboss the links after successful traction testing. In the event of link breakage the machine will automatically stop. The machines come with a touch-screen panel allowing the operator to save all the traction settings for different chain sizes. All chain load and elongation values recorded may be downloaded via USB stick and successively processed.



TRACTION PROCESS



PNEUMATIC JAWS



LOAD CELL