





# MMC SX2 & SX2-G SERIES STRAIGHTSIDE TIE ROD & UNITIZED FRAME PRESSES

160-1,200 METRIC TONS



Material Forming Solutions

# MMC PRESSES

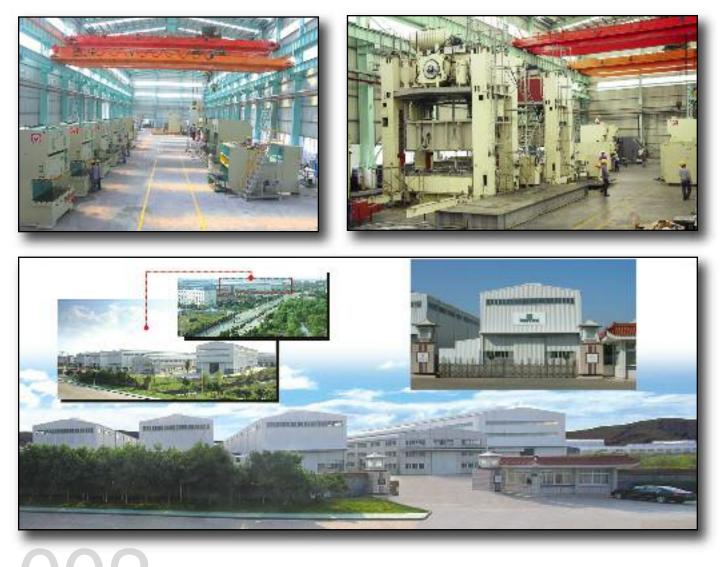
The Minster Machine Company, which has been in operation since 1896, has achieved legendary status amongst press users worldwide by providing innovative solutions backed with unmatched service and support for the life of the machine.

As a member of the Nidec Group of Companies (180+ companies as of April, 2012), Minster has the financial and technical strength of a 9billion dollar manufacturing powerhouse behind it to ensure ongoing innovation, growth and stability well into the future.

As a result of our continuing efforts to bring affordable quality and high performance to our customers, Minster has teamed with one of our strategic partners, Ningbo CFG Machinery (located in the port city of Ningbo, China), to introduce the new "MMC Presses" brand. With decades of experience building a wide range of presses, management has not only invested in the facilities infrastructure necessary to be a leading producer of metal stamping presses, but has also assembled a dedicated and innovative team of associates with the skills necessary to provide metal stampers with high quality, reliable, and affordable mechanical presses up to 1,200 tons capacity.

We invite you to compare the quality, support, and value of MMC Presses to the competition.

Select models of MMC straightside presses are in stock for immediate delivery. Fast delivery is available on special orders.



All MMC Presses have been engineered to provide high levels of performance, functionality, and reliable operation under demanding conditions. Some of the many features of the MMC line of straightside machines include:

- Wintriss WPC2000 / SmartPAC 2 clutch and automation controls provides safe and simple operation, while allowing expansion with a wide range of additional features as required.
  (AutoSetPAC tonnage monitor, DieProPAC 8-input die protection and ProCamPAC 8 channel programmable limit switch modules are standard.)
- Built to meet or exceed JIS Class 1 accuracy standards.
- Rigid, fabricated steel frame helps to maintain better minimizing deflection. (Standard bed deflection is 1/8,000 mm or .0015" / ft.)
- Precision-machined gears, forged steel crankshafts and other drive train components are designed for smooth power transmission, quiet operation, and long life.
- Ross brand dual air valves meet all safety requirements, and are easily serviceable if required.
- Electrical components are name-brand, and readily sourced locally.

## MMC PRESSES QUALITY FEATURES

- Yaskawa variable frequency drive allows fine-tuning the press speed to best suit the application.
- Variety of clutches available, including pneumatically operated friction, hydraulically operated friction, and wet type – suited to application.
- Low-inertia air actuated wet clutch & brake is responsive and long-lasting.
- Powered die height adjustment in .1 mm/.004" increments provides fast, accurate tooling setups.
- Cast connection rod and fabricated slide with 8point gibs and bronze liners for maximum accuracy.
- Fast-acting hydraulic overload protection system helps to prevent damage due to tonnage overload.
- Automatic monitored recirculating oil lubrication system helps to increase the life of bearings and slide ways.
- T-slotted slide face and bolster helps to provide easier clamping of tooling.
- Leveling mounts help dampen vibration and increase tooling life by helping maintain slide-to-bolster parallelism.

#### Comprehensive 3-2-1 Warranty Protects Your Purchase and Helps Reduce the Cost of Overall Ownership.

#### AVAILABLE WITH LINK MOTION AND IN A WIDE RANGE OF BOLSTER SIZES TO SUIT MANY APPLICATIONS. CONTACT MINSTER OR YOUR LOCAL REPRESENTATIVE FOR MORE INFORMATION







MMC SX2 & SX2-G Series Presses

#### MMC PRESSES 160 THRU 800 TON SX2-G PRESSES



All specifications are subject to change without notice. If you have critical dimensions that must be maintained, please confirm before ordering.

2800 x 1000

3100 x 1000

2800 x 1000

3100 x 1000

2400 x 1000

2800 x 1200

3000 x 1200

3400 x 1200

3000 x 1200

3400 x 1200

2800 x 1000

3100 x 1000

(R-L x F-B)

3

4

2100 x 750

2400 x 940

2100 x 940

2400 x 940

#### MMC PRESSES 400 THRU 1200 TON SX2, SE2 & SE4 PRESSES



SX2-SERIES STRAIGHTSIDE, DOUBLE CRANK, MECHANICAL TIE-ROD PRESSES												
Model			SX2-4000		SX2-5000		SX2-6000		SX2-8000		SX2-10000	
Туре			L	н	L	Н	L	Н	L	н	L	Н
Capacity k		kΝ	4000		5000		6000		8000		10,000	
Stroke Le	Stroke Length		300	200	300	200	400	200	400	200	400	200
S.P.M.	Fixed		22	_	20	—	20	—	20	—	20	—
<b>J.F.IVI.</b>	Variable		20-40	30-60	20-40	30-60	20-40	25-50	10-30	25-35	10-30	25-35
Rated To	Rated Tonnage Pt.		7	4	9	4.5	9	5	13	6.5	13	6.5
Shutheight (SDAU)		mm	600		700		700		700		700	
Slide Adjustment		mm	250		250		250		250		250	
			2500 x 1200		3100 x 1400		3100 x 1400		3700 x 1550		3700 x 1550	
Slide/Bolster Area (R-L x F-B)		2	3100 x 1400		3400 x 1400		3400 x 1400		4000 x 1550		4000 x 1550	
		3	3400 x 1400		3700 x 1550		3700 x 1550		4600 x 1700		4600 x 1700	

SE2-SERIES SINGLE ACTION, ECCENTRIC GEAR, 2-POINT, MECHANICAL TIE-ROD PRESSES											
Model		SE2-2500	SE2-3000	SE2-4000	SE2-5000	SE2-5000	SE2-6000	SE2-6000	SE2-8000	SE2-10000	SE2-12000
Capacity	kΝ	2500	3000	4000	5000	5000	6000	6000	8000	10,000	12,000
Stroke Length	mm	400	400	500	500	250	250	500	500	500	500
Strokes Per Minute		10-20	10-20	10-20	10-20	20-40	20-40	10-20	10-20	10-20	10-20
Rated Tonnage Pt.	mm	10	10	13	13	6	6	13	13	13	13
Shutheight (SDAU)	mm	800	800	900	900	800	800	1000	1000	1000	1000
Slide Adjustment	mm	300	300	400	400	400	400	400	400	400	400
Cliste /Delater Arres	1	2500 x 1300		2500 x 1400		2500 x 1400		3000 x 1500		3000 x 1600	
Slide/Bolster Area (R-L x F-B)	2	2800 x 1300		2800 x 1500		2800 x 1500		3000 x 1500		3400 x 1600	
, ,	3	3000 x 1300		3000 x 1500		3000 x 1500		3600 x 1500		3800 x 1600	

SE4-SERIES SINGLE ACTION, ECCENTRIC GEAR, 4-POINT, MECHANICAL TIE-ROD PRESSES										
Model	SE4-4000	SE4-5000	SE4-6300	SE4-6300	SE4-8000	SE4-8000	SE4-10,000			
Capacity	kΝ	4000	5000	6300	6300	8000	8000	10,000		
Stroke Length	mm	500	500	600	250	250	800	800		
Strokes Per Minute		10-20	10-20	10-20	20-60	20-60	10-18	10-18		
Rated Tonnage Pt.	mm	13	13	13	6	10	13	13		
Shutheight (SDAU)	mm	1100	1100	1100	1000	1000	1300	1300		
Slide Adjustment	mm	500	500	500	400	400	600	600		
	1	3000 :	x 2000	3500	x 2000	4000 x 2000		4000 x 2200		
Slide/Bolster Area (R-L x F-B)	2	3500 :	x 2000	4000	4000 x 2200		4500 x 2200			
(,	3	4000 x 2000		4600	x 2200	5000 :	5000 x 2500			

All specifications are subject to change without notice. If you have critical dimensions that must be maintained, please confirm before ordering.



#### MMC SX2 & SX2-G Series Presses

#### MMC PRESSES MAXIMIZE PRODUCTIVITY

## TAKE ADVANTAGE OF THE LATEST PRESS TECHNOLOGIES

## **INCREASE:**

- MACHINE UPTIME
- TOTAL PARTS OUTPUT
- OPERATOR SAFETY
- PART QUALITY & CONSISTENCY

## **REDUCE:**

- SET-UP & JOB CHANGEOVER TIME
- LABOR COSTS
- TOOLING MAINTENANCE AND REPAIR COST

## FOLLOWING ARE EXAMPLES OF THE FULL RANGE OF PRODUCTION AND SAFETY-ENHANCING PRODUCTS FROM MINSTER AND OUR QUALITY SUPPLY PARTNERS.





SERVO ROLL & ZIG-ZAG FEEDS

**PULL-THROUGH & POWERED STRAIGHTENERS** 

MMC SX2 & SX2-G Series Presses

#### MMC PRESSES MAXIMIZE PRODUCTIVITY



PALLET DECOILERS



**STOCK REELS** 



COMBINATION REEL/STRAIGHTENER/FEED



**STOCK & TOOLING LUBRICATION SYSTEMS** 

**CONVEYORS** 



PROCESS AUTOMATION, MONITORING & SAFEGUARDING (MANY BRANDS AVAILABLE)

WHATEVER YOUR APPLICATION, MINSTER KNOWS HOW TO HELP YOU GET THE MOST OUT OF YOUR PRESS. LET US BE YOUR GO-TO SOURCE FOR AUXILIARY EQUIPMENT DONE RIGHT.



Nidec Minster, Minster, OH Telephone: (491) 628-2331



Nidec Shimpo, Kyoto, Japan Telephone: +81-75-958-3606



Minster GmbH, Halblech, Germany Telephone: (49) 8368 9134 0



Minster China, Ningbo, China Telephone: +86 574 8630-8020

Before You Invest in New Material Forming Technology, You're Invited to Visit Our Manufacturing, Training, Research, Parts and Service Facilities to See How "Minster Quality" is Built Into All of Our Products and Services.



A Century of Heritage Pressed Into a Lifetime of Quality

240 WEST FIFTH STREET • MINSTER, OHIO 45865-0120 U.S.A. • PHONE: (419) 628-2331 • FAX: 419-628-3517 www.minster.com

Minster Has Sales and Service Offices Located Throughout the World Contact Minster Direct For The Name of Your Global Representative