

MINSTER

INTRODUCING THE STANDARD GM2 MECHANICAL PRESS SERIES

With capacity ranging from 4000-8000 kN, the GM2 Mechanical Press Series offers proven technology, performance and flexibility found in the full portfolio offering from Nidec Minster. A trusted brand in the global metalforming industry, Minster has a demonstrated history and installation base on five continents. Metalformers around the world have come to rely on the precise and highly engineered turn-key systems from Minster for consistent pressroom results.

GM2 Series with its standard configurations enable you to respond quicker to business needs and industry trends through reduced lead times and competitive pricing.

Key Features:

- Precision kinematics enables quicker system response with target torque-speed ratio achieved in minimum space
- Eccentric wheels with helical gearing, higher gear tooth contact, smoother running, increased power transmission and higher durability
- Case hardened pinion shaft provides ultra high wear resistance, and it is manufactured on state-of-the art gear hobbing machines
- Minster proven robust design insures years of trouble-free operation and lowest overall cost of ownership.
- Zero clearance slide guiding improves die set up and operation.
- Option of configuration of the machine for variable stroke. Automatic stroke adjustment allows to increase the versatility of the press which can be adapted to multiple process requirements.



Nidec
PRESS & AUTOMATION

One Brand: A World of Resources

A single source solution that will help you find the efficiencies you want — all from the products, services and technology of Nidec Press & Automation.

nidecpa.com



GM2 SERIES

MECHANICAL PRESSES

	GM2-400						GM2-630						GM2-800								
SPECIFICATIONS																					
Capacity	4,000 kN 450 US tons						6,300 kN 710 US tons						8,000 kN 900 US tons								
DRIVE MECHANISM																					
	ECCENTRIC Single Reduction Gear		ECCENTRIC Double Reduction Gear		LINK DRIVE Double Reduction Gear		ECCENTRIC Single Reduction Gear			ECCENTRIC Double Reduction Gear			LINK DRIVE Double Reduction Gear			ECCENTRIC Double Reduction Gear			LINK DRIVE Double Reduction Gear		
FRAME SPECIFICATIONS																					
Construction	Tie Rod		Tie Rod		Tie Rod		Tie Rod			Tie Rod			Tie Rod			Tie Rod			Tie Rod		
Bed & Slide, R-L	3,050 mm 120 in	3,650 mm 143 in	3,050 mm 120 in	3,650 mm 143 in	3,050 mm 120 in	3,650 mm 143 in	3,050 mm 120 in	3,650 mm 143 in	4,250 mm 167 in	3,050 mm 120 in	3,650 mm 143 in	4,250 mm 167 in	3,050 mm 120 in	3,650 mm 143 in	4,250 mm 167 in	3,650 mm 143 in	4,250 mm 167 in	4,850 mm 191 in	3,650 mm 143 in	4,250 mm 167 in	4,850 mm 191 in
Bed & Slide, F-B	1,400 mm 55 in		1,400 mm 55 in		1,400 mm 55 in		1,500 mm 59 in			1,500 mm 59 in			1,500 mm 59 in			1,800 mm 71 in			1,800 mm 71 in		
Shutheight on Bolster (SDAU)	750 mm 29.5 in (For stroke of 350 mm)		750 mm 29.5 in (For stroke of 350 mm)		750 mm 29.5 in (For stroke of 350 mm)		850 mm 33.5 in (For stroke of 400 mm)			850 mm 33.5 in (For stroke of 400 mm)			850 mm 33.5 in (For stroke of 400 mm)			900 mm 35.4 in (For stroke of 450 mm)			900 mm 35.4 in (For stroke of 450 mm)		
Bolster Thickness	190 mm 7.5 in		190 mm 7.5 in		190 mm 7.5 in		190 mm 7.5 in			190 mm 7.5 in			190 mm 7.5 in			235 mm 9.3 in			235 mm 9.3 in		
Side Window Opening, F-B	1,400 mm 55 in		1,400 mm 55 in		1,400 mm 55 in		1,500 mm 59 in			1,500 mm 59 in			1,500 mm 59 in			1,800 mm 71 in			1,800 mm 71 in		
Slide Guiding	Roller		Roller		Roller		Roller			Roller			Roller			Roller			Roller		
Clutch	Pneumatic		Pneumatic		Pneumatic		Pneumatic			Pneumatic			Pneumatic			Hydraulic			Hydraulic		
Weight (kg / lbs)	82,000 kg 180,780 lb	93,000 kg 205,000 lb	82,000 kg 180,780 lb	93,000 kg 205,000 lb	82,000 kg 180,780 lb	93,000 kg 205,000 lb	106,000 kg 233,700 lb	125,000 kg 275,578 lb	145,000 kg 319,670 lb	106,000 kg 233,700 lb	125,000 kg 275,578 lb	145,000 kg 319,670 lb	106,000 kg 233,700 lb	125,000 kg 275,578 lb	145,000 kg 319,670 lb	145,000 kg 319,670 lb	175,000 kg 385,809 lb	203,000 kg 447,538 lb	145,000 kg 319,670 lb	175,000 kg 385,809 lb	203,000 kg 447,538 lb
STROKE & SPEED SPECIFICATIONS																					
Variable Stroke	50-400 mm 2-16 in		50-400 mm 2-16 in		260-390 mm 10-15 in		50-450 mm 2-18 in			50-450 mm 2-18 in			300-450 mm 12-18 in			50-500 mm 12-19 in			330-500 mm 13-19 in		
Max. Fixed Stroke	400 mm 16 in		400 mm 16 in		390 mm 15 in		450 mm 18 in			450 mm 18 in			450 mm 18 in			500 mm 19 in			500 mm 19 in		
Speed (@ variable stroke) <i>Stroke Dependant</i>	25-120 SPM		15-50 SPM		15-50 SPM		25-120 SPM			15-45 SPM			15-45 SPM			15-40 SPM			15-40 SPM		
Slide Adjustment	250 mm 9.8 in		250 mm 9.8 in		250 mm 9.8 in		300 mm 11.8 in			300 mm 11.8 in			300 mm 11.8 in			300 mm 11.8 in			300 mm 11.8 in		
Max Upper Die Weight	6,000 kg 13,200 lb		6,000 kg 13,200 lb		6,000 kg 13,200 lb		7,000 kg 15,430 lb			7,000 kg 15,430 lb			7,000 kg 15,430 lb			10,000 kg 22,045 lb			10,000 kg 22,045 lb		
CONTROL SPECIFICATIONS																					
Motor Manufacturer	Nidec		Nidec		Nidec		Nidec			Nidec			Nidec			Nidec			Nidec		
AC Motor Power Infeed	55 kW		55 kW		55 kW		112 kW			90 kW			90 kW			132 kW			132 kW		
Energy	25 kJ (@25 SPM)		47 kJ (@15 SPM)		47 kJ (@15 SPM)		60 kJ (@25 SPM)			90 kJ (@15 SPM)			90 kJ (@15 SPM)			130 kJ (@15 SPM)			130 kJ (@15 SPM)		