

MF Eco machine Certification System Registry (Fabricating Machines)

Register: April 1, 2009
 Revised: June 5, 2009
 Revised: September 8, 2009
 Revised: September 13, 2012
 Revised: June 13, 2013
 Revised: December 13, 2013
 Revised: July 10, 2014
 Revised: December 1, 2015
 Revised: December 4, 2018
 Products deleted: September 15, 2020
 Revised: December 10, 2021
 Criteria revised: June 21, 2024

Certification number & Registered product		MF-B002 Mechanical Servo Punching Press		Product scope	Motorum Series	
Registered company		MURATA MACHINERY Ltd.		Certified product	M3048TG,M3058TG, M2544TS/2548TS/2558TS	
Reference product & production time		C2500 (200kN) (August, 2001)				
Requirements & environment factors		Evaluation item	Criteria	Evaluation result and/or remarks		
(1) Essential requirement				M3048TG/M3058TG vs C2500	M2544TS /2548TS /2558TS vs C2500	
Energy saving	Energy consumption	Reduction ratio	25% or more reduction	27%	34%	
				based on JFMA criteria		
(2) Selective requirement				M3048TG/M3058TG vs C2500	M2544TS /2548TS /2558TS vs C2500	
Energy saving	Energy saving	Reduction ratio	25% or more reduction	34%	37%	
				Only the certified model adopted dwell mode (3 seconds halt after each punch). For other conditions such as loading condition, the reduction of power consumption is applied per one punch based on JFMA criteria.		
Resource saving	Shrinkage of space/items	Number of parts for air/hydraulic pressure	10% or more reduction	X	X	
	Operating oil	Consumption volume	10% or more reduction	X	X	
Minimum selective requirement		3 items or more		3 items		
(3) Recommendation requirement		Names of equipped devices/functions		Summary of environmental load reduction		
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Automatic electricity shut-off		Reduction of power consumption		
		LCD display		Reduction of power consumption		
		Electric power regeneration		Reduction of power consumption		
		Electric servo drive		Reduction of power consumption		
Minimum recommendation requirement		3 items or more		4 items		

Note:

- (1) Revision content on June 5, 2009: 3 models were added (M2544, 2548 and 2558).
- (2) Revision content on September 8, 2009, 2 models (M2048UT, 2044UT) were added.
- (3) 2 models (M2044LT, 2048LT) were taken off the list on September 13, 2012.
- (4) Revision content on June 13, 2013, 2 models(M3048,3058) were added.
- (5) Revision content on December 13, 2013, 4 models(M2044TC, 2044/2048TS, 2048TE) were added.
- (6) Revision content on June 10, 2014, 3 models(M2544TS, 2548TS, 2558TS) were added.
- (7) 5 models (M2044UT, 2048UT,M2544,M2548,M2558) were taken off the list on December 1, 2015.
- (8) 2 Model names were changed from M2544,M2548 to M2544TG,M2548TG on December 4, 2018.