MF Eco Machine Certification System Registry (Press Machinese) gistered: December 11, 2012

Revised: March 12, 2013

Revised: December. 2, 2014

Revised: June. 2, 2015 Revised: December 1, 2015

Revised: December 4, 2018

Evaluation result and/or remarks

Certified registration no. & registered	MF-P007	Product	Hybrid AC Servo Press		
product name	Mechanical Servo	Scope	H1F35,45,60,80,110-2,150-2,200-2		
Registered name of	Komatsu Industries Corp.	Certified	H1F35/45/60/80/110-2/150-2/200-2		
corporation	Tromatod madetnee corp.	product	1111 00/10/00/00/110 2/100 2/200 2		
Reference model &	OBS35(-) OBS45 (-) OBS60(-)	OBS80 (-) C	DBS110-2 (-), OBS150 (-), OBS200 (-)		
Production time	OB000(*),OB040(*)	OD000 (-), C	750110-2 (-), 050130 (-), 050200 (-)		
Requirements &	Evaluation item Evaluation	Eval	uation regult and/or remarks		

criteria

Evaluation item

environment factors

requirement

		H1F vs OBS	H1F35	H1F45	H1F60	H1F80	H1F110-2	H1F150-2	H1F200-		
(1) Essential requirement			VS	VS	VS	VS	VS	VS	2 vs		
			OBS35	OBS45	OBS60	OBS80	OBS110	OBS150	OBS200		
	Energy		Reduce	= -0./	400/	• = • /	2221	===:		100/	
Energy	•	Reduction ratio	more than	58%	43%	25%	33%	57%	37%	49%	
saving	consum	Reduction fallo									
Javing	ption		15%	based on JFMA criteria							
				LIAFOE	LIAEAE	LIAEOO	114500	1145440.0	1145450.0	1145000	
(2) Selective requirement			H1F35	H1F45		H1F80		H1F150-2			
		H1F vs OBS		VS	VS	VS	VS	VS	2 vs		
				OBS35	OBS45	OBS60	OBS80	OBS110	OBS150	OBS200	
Resources	Compactification	Number of air/	10% or more	X	l v	V	V	٧	V	٧	
		hydraulic parts	reduced		X	X	X	X	X	X	
saving	Air	Total consumption	10% or more	X	v	v	v	V	V	V	
			reduced		Х	X	X	X	X	X	
Environment conservation	Safety	Safety standard	Applicable	v	v	v	V	V	V	V	
			set standard	X	X	X	X	X	X	X	
Minimum selective		3 items or	3 items or more			3 items					

` ′	Recommendation irement	Names of equipped devices/functions	Summary of effects on environmental burden reduction
_	Energy saving,	·	Constantly monitors inclination at the time of stop by the brake.
factor	display/manageme	Powerful mechanical brake	holds brake torque, exceeding the maximum torque of main motor.
ment	nt of environment info.,	Small capacity servo motor	Adoption of link mechanism enables smaller capacity of servo motor.
iviron	vibration/noise, emission	Photoelectric safety device	Equipped as the standard equipment
Ē	(atmosphere, soil)	Elimination of clutches	No wear and tear of lining enables longer life.
Mini	mum requirement	3 items or more	5 items

Remarks;

- (1) Revised on March 12, 2013: addition of 2 items (H1F35,60)
- (2) Revised on December 8, 2014: change of 1 items (H1F200-2)
- (3) Revised on June 2, 2015: change of 1 items (H1F150-2)