

**MF Eco machine Certification System Registry**  
(Sheet Metal Forming Machines)

Register:Dec 3, 2019

Revised:Dec 15, 2022

Revised:Jun 22, 2023

Certification number & Registered product		MF-B022(1/5) Fiber Laser Cutting		Product scope	ENSIS-Aje, -Rle series				
Registered company		AMADA CO. LTD.		Certified product	ENSIS3015Aje(3kW,6kW,9kW,12kW) ENSIS3015Rle(3kW,6kW,9kW) ENSIS4020Aje(3kW,6kW,9kW,12kW)				
Production of criteria-base product		April, 2015		Criteria-base	FOM2 3015NT/LCG 3015AJ				
Requirements & Environment factors		Evaluation item	Criteria	Evaluation result and/or remarks					
(1) Essential requirement				ENSIS3015Aje/4020Aje					
Total energy consumption				3kW vs FOM2 3015NT(4kW)	6kW vs FOM2 3015NT(4kW)	9kW vs FOM2 3015NT(4kW)	12kW vs FOM2 3015NT(4kW)		
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	92%	90%	88%	84%		
				based on JFMA criteria					
(1) Essential requirement				ENSIS3015Rle					
Total energy consumption				3kW vs FOM2 3015NT(4kW)	6kW vs FOM2 3015NT(4kW)	9kW vs FOM2 3015NT(4kW)			
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	91%	89%	86%			
				based on JFMA criteria					
(2) Selective requirement									
Resource saving	Operating oil	Total consumption	10% or more reduced	100%					
Environment conservation	Safety	Safety standard		○					
	Hazardous materials	JFMA criteria		○					
	EMC	Applicable regulation		○					
Minimum selective		3 items or more		4 items					
(3) Recommendation requirement		Names of equipped devices/functions	Summary of effects on environmental burden reduction						
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Idling stop	Reduce standby power by cutting off the power inside the control panel during idling stop.						
		AMNC4ie	Identify workers and switch to screens that match their skills						
		Eco Machine	Display of CO2 emission						
		assist gas control	Reducing power consumption through assist gas control						
		i-CAS	The function to easily layout and cut out leftover materials						
Minimum recommendation requirement		3 items or more		5 items					

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## (Sheet Metal Forming Machines)

Certification number & Registered product	<b>Fiber Laser Cutting Machine</b>	Product scope	<b>VENTIS-Aje series</b>
Registered company	<b>AMADA CO. LTD.</b>	Certified product	<b>VENTIS3015AJe /4020AJe(4kW,6kW)</b>
Production of criteria-base product	<b>May, 2013</b>	Criteria-base product	<b>LCG3015AJ</b>

Requirements & Environment factors		Evaluation item	Criteria	Evaluation result and/or remarks	
(1) Essential requirement				VENTIS3015AJe/4020AJe	
Total energy consumption				4kW vs LCG305NT (3. 5kW)	6kW vs LCG305NT (3. 5kW)
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	<b>69%</b>	<b>51%</b>
<b>based on JFMA criteria</b>					

(2) Selective requirement					
Resource saving	Operating oil	Total consumption	10% or more reduced	<b>100%</b>	
Environment conservation	Safety	Safety standard		<b>○</b>	
	Hazardous materials	JFMA criteria		<b>○</b>	
	EMC	Applicable regulation		<b>○</b>	
Minimum selective requirement		3 items or more		<b>4 items</b>	

(3) Recommendation requirement		Names of equipped devices/functions	Summary of effects on environmental burden reduction
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Idling stop	Reduce standby power by cutting off the power inside the control panel during idling stop.
		AMNC4ie	Identify workers and switch to screens that match their skills
		Eco Machine	Display of CO2 emission
		assist gas control	Reducing power consumption through assist gas control
		i-CAS	The function to easily layout and cut out leftover materials
Minimum recommendation requirement		3 items or more	5 items

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Revised: Jun 22, 2023

Certification number & Registered product	Fiber Laser Cutting Machine	Product scope	REGIUS-AJeシリーズ
Registered company	AMADA CO. LTD.	Certified product	REGIUS3015AJe /4020AJe (6kW, 9kW, 12kW)
Production of criteria-base product	Sep. ,2011	Criteria-base product	FOL3015NT (4. 5kW)

Requirements & Environment factors	Evaluation item	Criteria	Evaluation result and/or remarks
(1) Essential requirement		REGIUS3015AJe/4020AJe	
Total energy consumption		6kW vs FOL3015NT	9kW vs FOL3015NT 12kW vs FOL3015NT
Energy saving	Energy consumption	Reduction ratio	20% or more reduced
			89% 85% 81%
based on JFMA criteria			

(2) Selective requirement		6kW vs FOL3015NT	9kW vs FOL3015NT	12kW vs FOL3015NT
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	79% 73% 65%
Reduced the loaded enegy consumption by one piece				
Resouce saving	Operating oil	Total consumption	10% or more reduced	100%
Environment conservation	Safety	Safety standard	○	
	Hazardous materials	JFMA criteria	○	
	EMC	Applicable regulation	○	
Minimum selective requirement		3 items or more	5 items	

(3) Recommendation requirement		Names of equipped devices/functions	Summary of effects on environmental burden reduction
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Idling stop	Reduce standby power by cutting off the power inside the control panel during idling stop.
		AMNC4ie	Identify workers and switch to screens that match their skills
		Eco Machine	Display of CO2 emission
		assist gas control	Reducing power consumption through assist gas control
		i-CAS	The function to easily layout and cut out leftover materials
Minimum recommendation requirement		3 items or more	5 items

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Certification number & Registered product		MF-B022(4/5) Fiber Laser Cutting Machine		Product scope	ENSIS-AJ Series	
Registered company		AMADA CO. LTD.		Certified product	ENSIS3015AJ	
Production of criteria-base product		April, 2015		Criteria-base product	FOM2 3015NT	
Requirements & Environment factors		Evaluation item	Criteria	Evaluation result and/or remarks		
(1) Essential requirement						
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	86.8%		%
				based on JFMA criteria		
(2) Selective requirement						
Resouce saving	Operating oil	Total consumption	10% or more reduced	100%		
Environment conservation	Safety	Safety standard		○		
	Hazardous materials	JFMA criteria		○		
	EMC	Applicable regulation		○		
Minimum selective requirement		3 items or more		4 items		
(3) Recommendation requirement		Names of equipped	Summary of effects on environmental burden reduction			
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Fiber Laser oscillator	The power consumption reduction and the activation time abridgment			
		Fiber Laser oscillator	The oil reduction for the blower in the oscillator.			
		Fiber Laser processing	The productivity improvement and the running cost reduction			
		Latest processing technology	Best beam control's high-speed processing			
Minimum recommendation requirement		3 items or more		4 items		

Remarks:

Certification number & Registered product	MF-B022(5/5) Fiber Laser Cutting Machine		Product scope	VENTIS-AJ Series	
Registered company	AMADA CO. LTD.		Certified product	VENTIS3015AJ	
Production of criteria-base product	April, 2018		Criteria-base product	LCG3015AJ	
Requirements & Environment factors	Evaluation item	Criteria	Evaluation result and/or remarks		
(1) Essential requirement					
Energy saving	Energy consumption	Reduction ratio	20% or more reduced	33.6%	%
				based on JFMA criteria	
(2) Selective requirement					
Environment conservation	Safety	Safety standard	○		
	Hazardous materials	JFMA criteria	○		
	EMC	Applicable regulation	○		
Minimum selective requirement		3 items or more	3 items		
(3) Recommendation requirement		Names of equipped	Summary of effects on environmental burden reduction		
Environment factor	Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil)	Locus Beam Contorol	The control technique in the track for where the laser beam is the optimal		
		Productivity Mode	The high-speed processing of the middle board-thickness of SUS, and Aluminium		
		Kerf Width the control mode	It realizes stable processing in expanding Kerf Width.		
		Quality mode	It realizes high quality processing.		
Minimum recommendation requirement		3 items or more	4 items		

Remarks: