

Certification number		MF-P003		Product Scope	CNC Rolling Machine Arius Series ND-10/CNC、30/CNC	
Registered company		NISSEI CO., LTD.		Certified Product	ND-10/CNC、30/CNC	
Criteria-based product(production)		FA-10UN(October, 2008), FA-20/CNC(February, 2007)				
Requirements & environment factors		Evaluation item	Criteria	Evaluation result and/or remarks		
(1) Essential requirement				ND-10 vs FA-10UN	ND-30 vs FA-20	
Energy saving	Energy consumption	Reduction ratio	15% or more reduced	55%		78%
				based on JFMA criteria		
(2) Selective requirement				ND-10 vs FA-10UN	ND-30 vs FA-20	
Resources Saving	Shrinkage of space/items	Smaller space	10% or more reduced	—	X	
		Number of Pressure Part	10% or more reduced	X	X	
	Lubricating oil	Consumption Volume	10% or more reduced	X	X	
Environment factor	Noise/vibration	Noise Level at the time of operation	3DB or more reduced	X	X	
Minimum selective requirement		3 items or more		3 items	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)	Servo Transfer equipment	Motor is activated only when the slide shaft works, thus causes less power consumption and leads to the energy saving.			
		(ditto)	Motor is activated only when the slide shaft works, thus causes lower noise generation and leads to the environmental protection.			
		(ditto)	Motor is activated only when the slide shaft works, thus causes lower heat generation, and leads to longer life of the machine/equipment, effective for resources saving.			
		load monitor	Each shafts (main and slide) loading time is displayed on the screen on a real time basis, thus becomes effective for environmental protection.			
		overrun watch equipment	Soft limit/hard limit mechanism protects the over-run of slide shaft, thus causes environmental safety.			
Minimum recommendation requirement		3 items or more		5 items		