



# LASER SERIES

Leading the Way in Exceeding Customer Expectation

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Saitama Site (Head Office, Saitama Factory) are certified as ISO14001 Registration No.: 05ER • 553 Activities Defined by Products, Processes or Services: 1. Manufacturing and After-sale Service of Laser Processing, Oxy-Fuel Cutting and Plasma Cutting Systems. 2. Manufacturing of Gas Welding and Gas Cutting Apparatus. 3. Manufacturing of Gas Control Products.

Design and specifications subject to change without notice.

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Shanghai TANAKA Co., Ltd.

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Nippon Cutting & Welding Equipment Co., Ltd. 1/10 Moo 5 Rojana Road, Karnharm, U-Thai, Ayutthaya 13210, Thailand



2023.08.500.NPC

# A Pioneer of in the World's Laser Industry

In 1969, TANAKA began research for the practical use of lasers in metal processing. The first laser cutting machine in the industry was completed in 1979. TANAKA introduced a groundbreaking laser cutting machine in 1989. It was the world's first oscillator integrated type laser cutting machine for medium thick plates on the market. TANAKA has continued to maintain a steady position in the steel industry. TANAKA is a leading producer of laser cutting machines that include a total integrated automation system; from the loading of material to processing, to manufacturing management and delivery. TANAKA continues to develop laser cutting technology for all customer's needs.

#### TANAKA laser system history



#### **Environmental Policy**



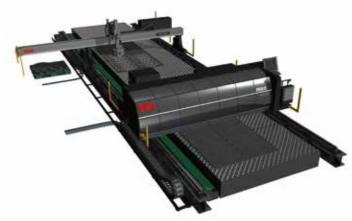
Based on our original technologies for cutting, welding, and gas controls, we strive to prevent damage to the Earth' s environment. It is our goal to minimize our environmental impact and work to improve the environment in all aspects of our business practices.

# **Completely Reimagined**



### A Gantry Type Cutting Machine

The machine is mounted on parallel rails, and the oscillator creates a limitless cutting area. Large and thick plates can be applied to make for high efficiency operation.



### **B** Table Type Cutting Machine

The machine is in a fixed position, and the laser head moves in a limited area. A thin plate will be applied with a pallet changer.



### **Overseas Locations**



#### TANAKA America Inc.

Sales office based in North America. Also offers promotions for FA products.



### Shanghai TANAKA Co., Ltd.

STC is the main sales office in China for a range of cutting equipment, including laser cutting machines.



#### Nippon Cutting & Welding Equipment Co., Ltd.

NCC is a production base located in Thailand. NCC produces gas apparatuses such as pressure regulators, torches, and nozzles for cutting and welding. NCC is also responsible for international sales and marketing of these products.



# Gantry Fiber Laser Cutting Machine TI 12000 TI 20000

### Innovate for Cutting Performance

This new design achieves faster nitrogen cutting and transverses higher speeds by lowering the machine's center of gravity and decreasing the machine's weight. This design change from its predecessor provides for a superior cutting performance. This is a completely new fiber laser cutting machine from TANAKA!



### **NEW & DISTINCT OPERATION DESIGN**

#### **Excellent Operability**

Cockpit design with a slim operation panel / New operation screen & Intuitive operation

#### Improved Maintainability

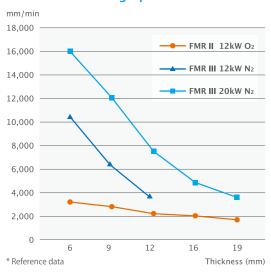
Slide door for easy maintenance / Quick access to torch head from operation deck Installed automatic lubrication systems

### TANAKA CUTTING SIGNATURE

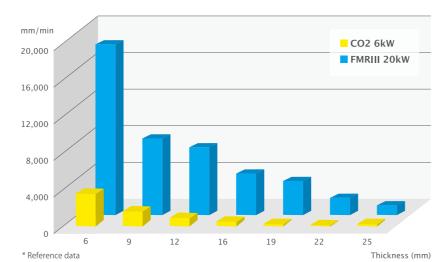
#### **■**High-Speed Cutting & Performance

Offers faster cutting than CO2 laser cutting machine / Great performances for rusty mild steels

#### Mild Steel Cutting Speed



#### Stainless Steel Cutting Speed (N2 Cutting)



## Advantages of RS-CW Cutting \* RS:Range-Spread

# **Cutting without Burning!**

- Superior cutting edge quality
- Expanded maximum cutting thickness / FMRIII-20kW: Mild steel SS400 Max.t40mm (1.57")
- Improved cutting stability on rusty surface

### Rusty Mild Steel SS400 t25mm (1")





**New CW cutting (RS-CW)** 

#### **■**Machine specification

Model	25		30 35		40 45		50		55					
Effective cutting width mm(feet)	2,600 (8.5') 3,100 (10.1')		3,600 (11.8') 4,100 (13.4')		4,600 (15.0')		5,100 (16.7')		5,600 (18.3')					
Rail span mm(feet)	- ,	3,800 (12 <b>.</b> 4')	4,000 (13.1')	.,	.,	.,	5,000 (16.4')	5,300 (17.3')				,		.,
Total length of machine mm(feet)	4,700	(15.4')	5,200	(17.1')	5,700 (18.7') 6,200 (20.3') 6,70			6,700	6,700 (22.0') 7,400 (24.3')		7,900 (25.9')			
Effective cutting length mm(feet)		Rail length – 3,200 (10.5') *												
NC device		FANUC 0i-LF Plus												

<sup>\*</sup> Rail length can be extendable as per 1,200mm (3.9').

<Additional rail length shortening> i-marking device(OP): -200mm(0.66') / Mounting oscillator on machine(OP): -850mm(2.8')

#### **■**Speed specification

Processing feed speed (inch)	$1 \sim 24,000$ mm/min (0.03 $\sim 944$ ipm)
Hi-Rapid feed speed (inch)	60,000mm/min (2362ipm)
Rapid feed speed (inch)	36,000mm/min (1417ipm)
Manual rapid feed speed (inch)	24,000mm/min (944ipm)
Cutting head up/down speed (inch)	20,000/15,000mm/min (787/590ipm)
Home return speed (inch)	24,000mm/min (944ipm)
i-Marking speed (inch)	24,000mm/min (944ipm)

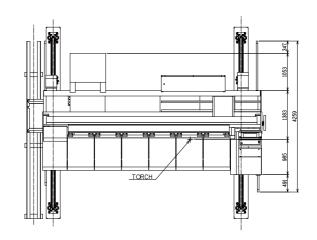
#### ■Standard cutting specification

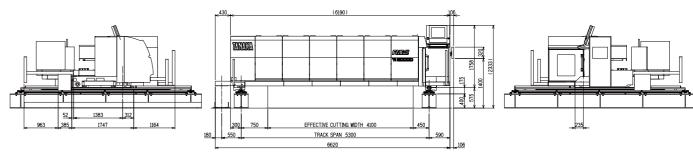
Model	TI12000	TI20000
Mild steel	28mm(32mm)*/1.1"(1.25")*	40mm/1 <b>.</b> 57"
Stainless steel	30mm/1.18"	40mm/1.57"
Aluminum	30mm/1.18"	40mm/1.57"

#### Under validatio

Cutting quality and Dross adhesion may vary depending on material, thickness and condition \* Figures in parentheses are not quaranteed at product cutting.

#### FMRIII40-TI20000





•The figures are subject to change in case of adding functions

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### The Most Powerful Fiber Laser Cutting Machine Ever

TANAKA FMRII and FMZII now has the capability of having a 20kW fiber laser oscillator that is capable of cutting material thicker than ever before! TANAKA's original torch head and gas control technology creates excellent cut quality. This combined with an optimized cutting sequence and superior fiber laser performance provides high productivity. The FMRII and FMZII series are now the most powerful ever!





Macinie specification															
Model	2	5	3	30		35		40		45		50		55	
Effective cutting width mm(feet)	2,600	(8.5')	3,100	3,100 (10.1')		3,600 (11.8')		4,100 (13.4')		4,600 (15.0')		5,100 (16.7')		5,600 (18.3')	
Rail span mm(feet)	3,500 (11.4')	3,800 (12.4')	4,000 (13.1')	4,300 (14.1')	4,500 (14.7')	4,800 (15.7')	5,000 (16.4')	5,300 (17.3')	5,500 (18.0')	5,800 (19.0')	6,000 (19.6')	6,500 (21.3')	6,500 (21.3')	7,000 (22.9')	
Total length of machine mm(feet)	4,700	(15.4')	5,200 (17.1')		') 5,700 (18.7') 6,200 (20.3')			6,700 (22.0')		7,400 (24.3')		7,900 (25.9')			
Effective cutting length mm(feet)		Rail length - 3,200 (10.5') *													
NC device		FANUC 31ilb PANELi													

#### **■**Speed specification

<del></del>	
Processing feed speed (inch)	$1 \sim 24,000$ mm/min (0.03 $\sim 944$ ipm)
Hi-Rapid feed speed (inch)	60,000mm/min (2362ipm)
Rapid feed speed (inch)	36,000mm/min (1417ipm)
Manual rapid feed speed (inch)	24,000mm/min (944ipm)
Cutting head up/down speed (inch)	20,000/15,000mm/min (787/590ipm)
Home return speed (inch)	24,000mm/min (944ipm)
i-Marking speed (inch)	24,000mm/min (944ipm)

#### ■Standard cutting specification

Model	TI6000	TI12000	TI20000				
Mild steel mm(inch) Pulse / CW	32 (1.25") / 19 (0.74")	38 (1.5") / 28 (1.1")	40 (1.57") / 32 (1.25")				
Stainless steel mm(inch)	20 (0.75")	30 (1.42")	40 (1.57")				
Aluminum mm(inch)	20 (0.75")	30 (1.42")	40 (1.57")				

Cutting quality and Dross adhesion may vary depending on material, thickness and condition.

#### **■**Machine specification

	25 30		30 35		5	40		45		50		
Bevel	2,500 (8.2') 2,800 (9.2')		2,500 (8.2') 3,000 (9.8')		3,500 (11.5') 4,000 (13.1')		4,500 (14.8')		5,000 (16.4')			
Vertical			3,300 (10.8')		3,800 (12.5')		4,300 (14.1')		4,800 (15.7')		5,300 (17.4')	
	4,000 (13.1')	4,300 (14.1')	4,500 (14.7')	4,800 (15.7')	5,000 (16.4')	5,300 (17.3')	5,500 (18.0')	5,800 (19.0')	6,000 (19.6')	6,500 (21.3')	6,500 (21.3')	7,000 (22.9')
et)	5,200	(17.1')	5,700	(18.7')	6,200	(20.3')	6,700 (22.0')		7,200 (23.6')		7,500 (24.6')	
t)	Rail length - 4,000 (13.1')											
	FANUC 30ilb PANELi											
	Vertical et)	Bevel         2,500           Vertical         2,800           4,000         (13.1')           et)         5,200	Bevel         2,500 (8.2')           Vertical         2,800 (9.2')           4,000 (13.1')         4,300 (14.1')           2t)         5,200 (17.1')	Bevel         2,500 (8.2')         3,000           Vertical         2,800 (9.2')         3,300 (9.2')           4,000 (13.1')         4,300 (14.1')         4,500 (14.7')           xt)         5,200 (17.1')         5,700	Bevel         2,500 (8.2')         3,000 (9.8')           Vertical         2,800 (9.2')         3,300 (10.8')           4,000 (13.1')         4,300 (14.1')         4,500 (15.7')           (2,000 (17.1')         5,700 (18.7')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500           Vertical         2,800 (9.2')         3,300 (10.8')         3,800           4,000 (13.1')         4,300 (14.7')         4,800 (15.7')         5,000           (11.1')         (14.1')         (14.7')         (15.7')         (16.4')           (10.1')         5,200 (17.1')         5,700 (18.7')         6,200           (10.1')         1,000 (17.1')         1,000 (18.1')         1,000 (18.1')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')           4,000 (13.1')         4,500 (14.1')         4,800 (15.7')         5,000 (17.3')           (t)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')           (t)         Rail length -	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')         4,000           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')         4,300           4,000 (13.1')         4,300 (14.1')         4,500 (15.7')         4,500 (16.4')         5,300 (17.3')         5,500           (13.1')         (14.1')         (14.7')         (15.7')         (16.4')         (17.3')         (18.0')           (20)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')         6,700           (3)         8 (18)         8 (18)         10,000 (11.5')         10,000 (11.5')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')         4,000 (13.1')           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')         4,300 (14.1')           4,000 (13.1')         4,500 (14.1')         4,800 (16.4')         5,000 (17.1')         5,500 (18.0')         5,800 (19.0')           (13.1')         (14.1')         (14.7')         (15.7')         (16.4')         (17.3')         (18.0')         (19.0')           (10.2)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')         6,700 (22.0')           (10.2)         Rail length - 4,000 (13.1')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')         4,000 (13.1')         4,500           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')         4,300 (14.1')         4,800           4,000 (13.1')         4,300 (4.1')         4,800 (16.4')         5,000 (17.1')         5,500 (18.0')         5,800 (19.0')         6,000 (19.0')         (19.0')         (19.6')           (tt)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')         6,700 (22.0')         7,200           (t)         Rail length - 4,000 (13.1')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')         4,000 (13.1')         4,500 (14.8')           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')         4,300 (14.1')         4,800 (15.7')           4,000 (13.1')         4,300 (44.1')         4,800 (5.7')         5,000 (13.1')         5,500 (14.8')         6,000 (13.1')           (13.1')         (14.1')         (14.7')         (15.7')         (16.4')         (17.3')         (18.0')         (19.0')         (19.6')         (21.3')           (21.3')         (21.3')         (21.3')         (21.3')         (21.3')         (21.3')           (31)         3,000 (10.8')         3,800 (12.5')         4,300 (14.1')         4,800 (15.7')         4,800 (15.7')           (4,000)         13.1')         (14.1')         (14.7')         (15.7')         (16.4')         (17.3')         (18.0')         (19.0')         (19.6')         (21.3')           (21)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')         6,700 (22.0')         7,200 (23.6')           (31)         7,200 (23.6')         7,200 (23.6')         7,200 (23.6')         7,200 (23.6')	Bevel         2,500 (8.2')         3,000 (9.8')         3,500 (11.5')         4,000 (13.1')         4,500 (14.8')         5,000           Vertical         2,800 (9.2')         3,300 (10.8')         3,800 (12.5')         4,300 (14.1')         4,800 (15.7')         5,300           4,000 (13.1')         4,300 (4.1')         4,800 (15.7')         5,300         5,500 (18.0')         5,800 (19.0')         6,500 (19.0')         6,500 (21.3')         6,500 (21.3')         6,700 (22.0')         7,200 (23.6')         7,500           (1)         5,200 (17.1')         5,700 (18.7')         6,200 (20.3')         6,700 (22.0')         7,200 (23.6')         7,500           (2)         8,800 (12.5')         8,800 (12.5')         4,300 (14.1')         4,800 (15.7')         6,500 (21.3')         6,700 (22.0')         7,200 (23.6')         7,500

<sup>\*</sup> Rail length can be extendable as per 1,200mm (3.9').

#### ■Speed specification

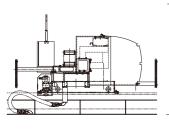
Specu specification	
Processing feed speed (inch)	$1 \sim 24,000$ mm/min (0.03 $\sim 944$ ipm)
Rapid feed speed (inch)	36,000mm/min (1417ipm)
Manual rapid feed speed (inch)	24,000mm/min (944ipm)
Cutting head up/down speed (inch)	20,000/15,000mm/min (787/590ipm)
Home return speed (inch)	24,000mm/min (944ipm)
i-Marking speed (inch)	24,000mm/min (944ipm)

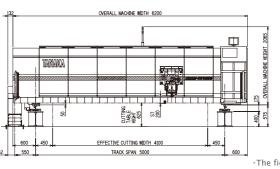
#### Standard cutting specification

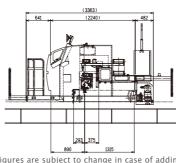
•			
Model	TI12000		
		Vertical	36 (1.41")
Mild steel material mm(inch)		Top/bottom V bevel 30deg	25 (0.98")
		Top/bottom V bevel 45deg	25 (0.98")
	N <sub>2</sub> <1MPa	Vertical	10 (0.39")
Stainless steel mm(inch)	N2≧1MPa	Vertical	25 (1.0")
	INZ = IIVIF a	Top / bottom V bevel 22.5deg	12 (0.47")
	N <sub>2</sub> <1MPa	Vertical	10 (0.39")
Aluminum mm(inch)	N2≧1MPa	Vertical	25 (1.0")
	IN2 ≡ IIVII α	Top / bottom V bevel 22.5deg	16 (0.62")

Cutting quality and Dross adhesion may vary depending on material, thickness and condition.

### ■FMRII40-TI20000







·The figures are subject to change in case of adding functions

### Built on over 30 years of CO2 Laser Cutting Machine Experience

TANAKA's laser technology and years of experience were combined to build the finest CO2 laser cutting machines. The LMRV and LMZV series are about creating superior cutting quality for both straight and bevel cutting. The machines are versatile with improved beam quality, TANAKA's latest cutting torches, and spacious horizontal plate staging to ensure that the machines are customized for each customer's expectation.







■ Machine specification														
Model	2	25	30		35		40		45		50		5 5	
Effective cutting width mm(feet)	2,600	(8.5')	3,100	(10.1')	3,600 (11.8') 4,100 (13.4')		4,600 (15.0')		5,100 (16.7')		5,600 (18.3')			
Rail span mm(feet)	3,500 (11.4')	3,800 (12.4')	4,000 (13.1')	4,300 (14.1')	4,500 (14.7')	4,800 (15.7')	5,000 (16.4')	5,300 (17 <b>.</b> 3')	5,500 (18.0')	5,800 (19.0')	6,000 (19.6')	6,500 (21.3')	6,500 (21.3')	7,000 (18.0')
Effective cutting length mm(feet)		Depends on customer's requirement												
Rail size		50kg/m (33.6 lb/ft)												
Rail length mm (feet)		Effective cutting length +3,000 (9.8')												
Vertical stroke mm(feet)							200	(0.65')						
Overall machine length mm(feet)*1							3,130	(10.2')						
Overall machine width mm(feet)*2	4,530 (14.8')	4,830 (15.8')	5,030 (16.5')	5,330 (17.4')	5,530 (18.1')	5,830 (19.1')	6,030 (19.7')	6,330 (20.7')	6,530 (22.4')	6,830 (22.4')	7,130 (23.3')	7,530 (24.7')	7,630 (25.0')	8,030 (26.3')
Overall machine height mm(feet)		LMRV25~35:2,475 (8.1') / LMRV40~55:2,575 (8.4')												

<sup>\*1</sup> Including the area sensor: 3,873mm (12.7') \*2 Overall machine width of LMRV25-TF6000

#### ■Standard cutting specification

Model		TF2000	TF4000	TF6000				
Mild steel material mm(inch)			19 (0.74")	22(0.86")	32(1.25")			
Stainless steel material mm(inch)	<1MPa	Normal	8 (0.31")	10(0.39")	12(0.47")			
	≧1MPa	Normal	_	16(0.62")	20(0.78")			
	= INIF a	High Quality	-	-	25(0.98")			

Dross may be adhere in a certain thickness and conditions.

#### ■Speed specification

Processing feed speed (inch)	1~6,000mm/min (0.03~236ipm)
Rapid feed speed (inch)	24,000mm/min (944ipm)
Manual rapid feed speed (inch)	12,000mm/min (472ipm)
Cutting head approach speed (inch)	20,000mm/min (787ipm)
Cutting head lifting speed (inch)	15,000mm/min (590ipm)
Home return speed (inch)	24 000mm/min (944inm)

#### ■ Machine specification

Model	25		30		35		4	0	4	-5	5	0
Effective cutting width mm (feet)	2,600 (8.5') 3,100 (10.17')			3,600 (	11.81')	4,100 (	13.45')	4,600	(15.09')	5,100	(16.73')	
Rail span mm(feet)	4,000 (13.1')	4,300 (14.1')	4,500 (14.7')	4,800 (15.7')	5,000 (16.4')	5,300 (17.3')	5,500 (18.0')	5,800 (19.0')	6,000 (19.6')	6,500 (21.3')	6,500 (21.3')	7,000 (22.9')
Effective cutting length mm(feet)		Depends on customer's requirement										
Rail size	50kg/m (33.6 lb/ft)											
Rail length mm(feet)		Effective cutting length +3,500 (11.4')										
Vertical stroke mm (feet)		250 (0.82')										
Overall machine length mm(feet)		3,500 (11.48')										
Total length of the Machine mm(feet)	4,930 (	4,930 (16.17') 5,430 (17.81') 5,930 (19.45') 6,330 (20.76') 7,030 (23.06') 7,730 (25.36						(25.36')				
Total high of the Machine mm(feet)		2,680 (8.79')										
NC device						FANUC 30	ilb paneli					

#### ■Standard cutting specification

Model		TF4000	TF6000	
	Vertica	Vertical 22 (0.86")		32 (1.25")
Mild steel material mm(inch)	Top/bo	op/bottom V bevel 30deg 12 (0.47")		16 (0.62")
	Top/bo	ottom V bevel 45deg	9 (0.35")	12 (0.47")
	<1MPa	Vertical	10 (0.39")	12 (0.47")
Stainless steel material mm(inch)	≧1MPa	Vertical	16 (0.62")	20 (0.79")
Stanness steel indicind mini(inch)		Top/bottom V bevel 22.5deg	-	12 (0.47")
		High Quarity	-	20 (0.79")

Dross may be adhere in a certain thickness and conditions.

#### **■**Speed specification

Processing feed speed (inch)	1~6,000mm/min (0.03~236ipm)
Rapid feed speed (inch)	24,000mm/min (944ipm)
Manual rapid feed speed (inch)	12,000mm/min (472ipm)
Cutting head approach speed (inch)	20,000mm/min (787ipm)
Cutting head lifting speed (inch)	15,000mm/min (590ipm)
Home return speed (inch)	24,000mm/min (944ipm)

<sup>·</sup>The figures are subject to change in case of adding functions

<sup>\*</sup> Rail length can be extendable as per 1,200mm (3.9'). <Additional rail length shortening> i-marking device(OP): -200mm(0.66') / Mounting oscillator on machine(OP): -850mm(2.8')

<sup>&</sup>lt;Additional rail length shortening> i-marking device(OP): -150mm(0.49') / Mounting oscillator on machine(OP): -850mm(2.8')

# Creates the Innovation at the Cutting Site

To the aim of improving the automation rate of cutting work, Automates by the picking machine the taking out and sorting of cutting members. Contributes to reducing the workload.

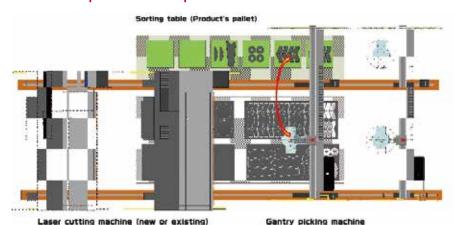








#### ■Machine operation example

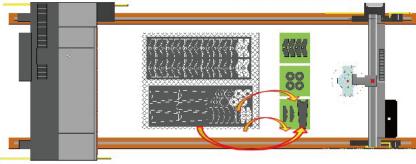


■Optional equipment
Pallet Changer Stocker









Laser cutting machine (new or existing) Gantry machine PMG

## **Specifications**





#### **■**Oscillator specification

	Fiber Laser				CO2 Laser			
Model	TI6000	TI12000		TI20000	TF2000	TF4000	TF6000	
Laser gas composition	N/A				CO2:He:N2=5:60:35			
Max. fiber cable length (mm)	30,000	YLS-CUT 50,000	YLS-U 30,000	30,000	N/A	N/A	N/A	
External dimension (mm)	430x808x700	1,007x806x805	430x808x900	1,007x806x805	1,007x806x805	2,050x750x1,376	3,250x790x1,490	
Weight (kg)	About 190	About 400	About 250	About 500	About 700	About 900	About 1,300	

#### **■**Cooling water circulator specification

		Fiber Laser		CO2 Laser			
Model	TI6000	TI12000	TI20000	TF2000	TF4000	TF6000	
Cooling water circulator	RKE5500B-V-2CH-TA	RKE11000B-V-2CH-TA	RKE18000A-V-ISP-TA	RKL-5500-GTA-B	RKE-12000A-VTA	RKE-22000V-VTA	
External dimension (mm)	854x1,100x1,700	854x1,610x1,700	2,100x960x2,220	1,404x800x1,780	1,440x930x1,800	2,010x1,200x2,190	
Weight (kg)	About 360	About 510	About 770	About 390	About 550	About 1,050	

#### ■Utility / Input power supply capacity

		Fiber Laser		CO2 Laser			
Model	TI6000	TI12000	TI20000	TF2000	TF4000	TF6000	
Machine body	15 kVA	15 kVA	15 kVA	15 kVA	15 kVA	20 kVA	
Oscillator	40 kVA	45 kVA	70 kVA	33 kVA	55 kVA	75 kVA	
Cooling water circulator	19 kVA	29 kVA	40 kVA	17 kVA	27 kVA	44 kVA	

#### Fluid used

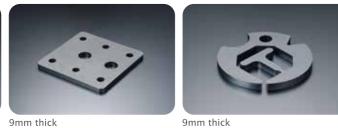
		Fiber Laser			CO2 Laser			
Model		TI6000	TI12000	TI20000	TF2000	TF4000	TF6000	
Laser gas	0.3MPa		N/A			10 L/hr	20 L/hr	
Oxygen	0.7MPa	10 m3/hr	20 m3/hr	20 m3/hr	10 m3/hr	10 m3/hr	10 m3/hr	
Dry air for cutting	0.7MPa	24 m3/hr	24 m3/hr	24 m3/hr	43 m3/hr	43 m3/hr	43 m3/hr	

#### ■Mild steel SS400



6mm thick with common cutting







9mm thick



25mm thick

The sample picture is for reference only. No warranty is given for actual cutting.

•The figures are subject to change in case of adding functions.

**Functions** 

#### ■Standard functions

	FMRIII	FMRII	FMZII	LMRV	LMZV
Automatic lens positioning controlled by NC	0	0	0	0	0
AICC control	0	0	0	0	0
Scheduled operation	0	0	0	0	0
NC memory extension	0	0	0	0	0
Capacitance height sensor controlled by NC	0	0	0	0	0
High-speed piercing	N/A	0	0	0	0
Piercing completion detection	0	0	0	0	0
Self burning detection	N/A	0	0	0	0
Coordinate axis rotation	0	0	0	0	0
Laser spot function	0	0	0	0	0
Retry cut fault recovery	0	0	0	0	0
Fault skipping	0	0	0	0	0
Retry/Skip log for re-cutting	0	0	0	0	0
Flashing warning lights	0	0	0	0	0
Obstacle detection	0	0	0	0	0
Maintenance screen	0	0	0	0	0
Operators platform	0	0	0	0	0
Ping-pong torch motion	0	0	0	0	0
Shield gas optimizing function (GOS)	0	0	0	0	0
Stand-by	0	0	0	0	0
Shape drawing	0	0	0	0	0
Backward travel	0	0	0	0	0
Ultra-high-speed piercing	0	0	0	0	0
Stainless steel nitrogen cutting up to 1 MPa	0	0	0	0	0
Automatic power shut off	0	0	0	0	0
Operator reflection light protection	0	0	0	0	0
Torch monitoring TV camera & monitor	0	0	0	N/A	N/A
Positioning TV camera & monitor	0	0	0	N/A	N/A
Machine back face monitoring TV camera & monitor	0	0	0	N/A	N/A
Air blow inside machine cover	N/A	0	0	N/A	N/A

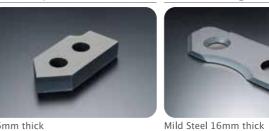
#### **■**Optional functions

	FMRIII	FMRII	FMZII	LMRV	LMZV
Preceding burning function	0	0	0	0	0
Stainless steel nitrogen cutting up to 2 MPa	0	0	0	0	0
i-Marking device	0	0	0	0	0
Pen marking device	N/A	0	0	0	0
Coordinate rotation ITV	0	0	0	0	0
Nozzle monitoring ITV	0	0	0	0	0
Collision prevention function	0	0	0	0	0
Automatic power-on	0	0	0	0	0
Laser cutting table	0	0	0	0	0
Air compressor	0	0	0	0	0
Steel plate stocker	0	0	0	0	0
High-speed piercing II	N/A	0	0	N/A	N/A
High-speed piercing III	0	N/A	N/A	N/A	N/A

### ■Coated steel plate (Zinc rich primer material)

■Stainless steel SUS304

16mm thick







Stainless Steel 12mm thick



■Aluminum A5052







The sample picture is for reference only. No warranty is given for actual cutting. • The figures are subject to change in case of adding functions.

16mm thick