TANAKA

PRODUCT
CATALOGUE

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■ Overseas Office

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E-mail: marketing@ncc.in.th

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TANAKA America Inc.
2000 Bloomingdale Road, Suite #230-235, Glendale Heights, Illinois 60139, USA

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

S-198 '2207 AJA 2000①

CORPORATE VISION

Pioneers to the Future by Technology

Corporate Philosophy

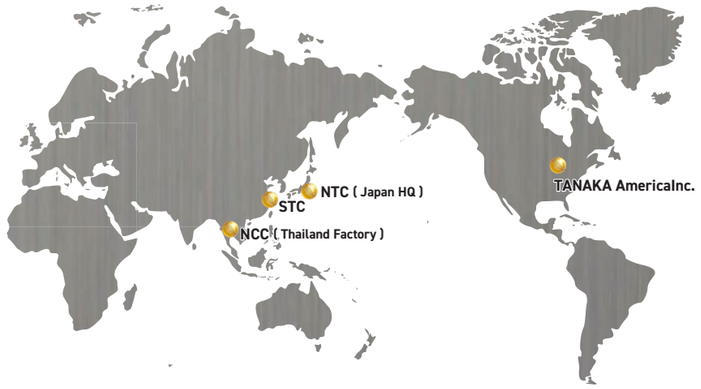
With our original technologies at the core, we contribute to the development of industry and the environmental conservation through valuable products and services, then realize the happiness of our employees.

TANAKA Facts

Established: 15 March, 1917
Trading Goods: Cutting & Welding Torch
Cutting & Welding Nozzle
Gas Regulator
Portable Cutting Machine
CNC Cutting Machine (Laser, Plasma, Oxy - Fuel)
Cutting & Welding Accessories

History

1917 Founder, Mr.Kikundo Tanaka, began to produce oxy fuel cutting accessories in Tokyo, Japan.
1936 Tanaka Engineering Works, Ltd. was established.
1963 Nagano factory was constructed in Koshoku (currently Chikuma-city), Nagano prefecture, Japan.
1967 Saitama factory was constructed in Iruma, Saitama prefecture, Japan.
1979 The head office was transferred to Iruma, Saitama, Japan.
1989 The world's first "Oscillator integrated laser cutting machine" was presented.
Tanaka (Thailand) Co., Ltd. was established in Ayutthaya, Thailand.
1998 Nagano factory acquired ISO9001 certification.
1999 Saitama factory acquired ISO9001 certification.
2002 Nissan Tanaka Corporation was incorporated by merging Nippon Sanso Corp. / Industrial Equipment Div., Nissan Shoji Co., Ltd. and Tanaka Engineering Works, Ltd.
2004 Shanghai Tanaka Co., Ltd. was established in Shanghai, China.
2005 Saitama site and Nagano site acquired ISO 14001 certification.
2007 Tanaka (Thailand) Co., Ltd was renamed to Nippon Cutting & Welding Equipment Co., Ltd. (NCC)
2013 NCC starts sales operation for Asian market.
2017 Celebrate the 100th anniversary of the company's founding



Overseas Bases

Nippon Cutting & Welding Equipment Co., Ltd.

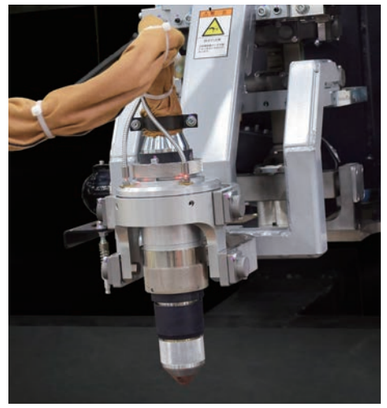
NCC is an overseas production located in Thailand producing a gas apparatus such as pressure regulators, torches, and nozzles for cutting and welding, responsible for international sales and marketing.

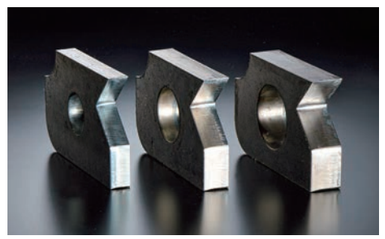
Shanghai Tanaka Co., Ltd.

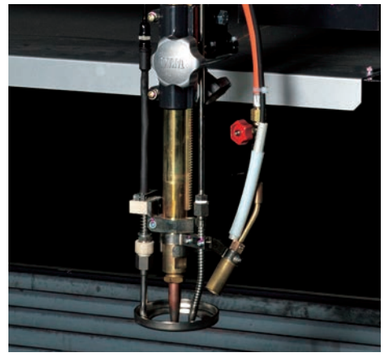
STC is a main sales base in China for a range of cutting equipment, including laser cutting machine.

TANAKA America Inc.

TA is a sales base in North America and offers promotions and services for FA products.







Lever Type

HC-391 Cutting Torch

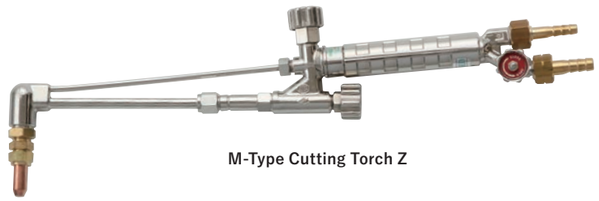
HC-391B HC-391Z Cutting Torch

HC-392 Cutting Torch

Setsudan

Model	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Torch head angle (degree)	Connections	Nozzle	Fuel gas
HC-391 Cutting Torch	2 - 150	512	1,080	90	JIS, BS, CGA	Sr. 3040GT Sr. 3051GE Sr. 3080AA Sr. 3062	Acetylene LPG Ethylene CNG/LNG
HC-391B Cutting Torch	2 - 150	512	1,080	90	JIS, BS, CGA		
HC-391Z Cutting Torch	2 - 150	512	1,080	90	JIS		
HC-392 Cutting Torch	2 - 150	512 1,200 or More	1,410	90, 180	JIS, BS, CGA		
Setsudan	2 - 150	512	1,070	90	JIS, BS, CGA	NCC-H	LPG

Valve Type



M-Type Cutting Torch Z

A-Type Cutting Torch Z

HC-338 Cutting Torch S

C-Type Cutting Torch S

Model	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Connections	Nozzle	Fuel gas
M-Type Cutting Torch Z	3 - 30	433	645	JIS	Sr. 1120N Sr. 1151N	Acetylene LPG
A-Type Cutting Torch Z	3 - 80	517	790	JIS	Sr. 1220N Sr. 1251N	Acetylene LPG
HC-338 Cutting Torch S	3 - 100	525	1,040	JIS	Sr. 3040GT Sr. 3051GE	Acetylene LPG
C-Type Cutting Torch	3 - 645	645	1,580	JIS	Sr. 1420 Sr. 1450	Acetylene LPG

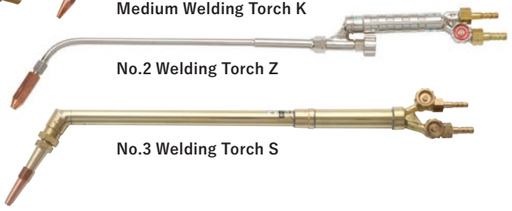
Welding Torch

No.00 Welding Torch MS

Medium Welding Torch K

A Welding Torch [Valve type]

B Welding Torch [Valve type]



No.2 Welding Torch Z

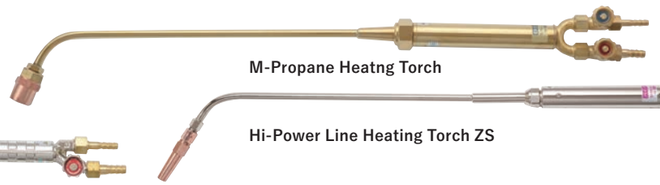
No.3 Welding Torch S

Model	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Connections	Nozzle	Fuel gas
No. 00 Welding Torch MS	0.3 - 2.5	325	200	JIS	Sr. 6120	Acetylene
Medium Welding Torch K	1.0 - 2.5	417	530	JIS	Sr. 6320M Sr. 6350M	Acetylene LPG
A Welding Torch	1.0 - 12	414	680	JIS	Sr. 6420 Sr. 6450	Acetylene LPG
B Welding Torch	5 - 25	493	740	JIS	Sr. 6520 Sr. 6550	Acetylene LPG
No. 2 Welding Torch Z	9 - 45	610	620	JIS	Sr. 6820	Acetylene
No. 3 Welding Torch S	12 - 55	592	1,070	JIS	Sr. 6620 Sr. 6650	Acetylene LPG

Heating Torch

Micro Torch

Small Welding Torch NZ



M-Propane Heatng Torch

Hi-Power Line Heating Torch ZS

Model	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Connections	Nozzle	Fuel gas
Micro Torch	—	165	63	JIS	6150D	Acetylene, LPG Hydrogen, LNG Ethylene
Small Welding Torch NZ	0.5 - 2.5	284	490	JIS	Sr. 6220 Sr. 6250	Acetylene LPG
M-Propane Heating Torch	0.5 - 20	790	1,180	JIS	Sr. 7450	LPG
Hi-Power Line Heating Troch ZS	12 - 80	730	900	JIS	Sr. 6950	LPG

Gouging / Scarfing Torch

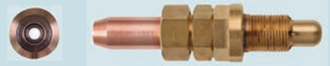
Mighty 1000E Scarfing Torch

Gouging Torch Z

Mighty C65 Scarfing Torch

Model	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Connections	Nozzle	Fuel gas
Gouging Torch Z	5 - 17 (Width) 3 - 12 (Depth)	522	800	JIS	Sr. 1520 Sr. 1550	Acetylene LPG
Mighty C65 Scarfing Torch	20 - 40 (Width) 1 - 2 (Depth)	1,304	1,980	JIS	Sr. 5140 Sr. 5150	Acetylene LPG
Mighty 1000E Scarfing Torch	80 - 110 (Width) 1 - 2 (Depth)	1,297	2,900	JIS	Sr. 5451	LPG

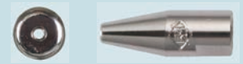
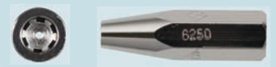
Cutting Nozzle

	Series	Gas	Plate thickness	Size	Appearance	Torch
2 Seets Nozzle	1120N	Acetylene	1 - 30	1, 2, 3		M-Type Cutting Torch Z
	1151N	LPG	3 - 30	1, 2, 3		M-Type Cutting Torch Z
	1220N	Acetylene	1 - 80	1, 2, 3		A-Type Cutting Torch Z
	1251N	LPG	1 - 80	1, 2, 3		A-Type Cutting Torch Z
	1420	Acetylene	100 - 350	7, 8, 9		C-Type Cutting Torch Z
	1450	LPG	100 - 350	7, 8, 9		C-Type Cutting Torch Z
3 Seets Nozzle	3051 Ⅱ	LPG	6 - 350	0, 1, 2, 3, 4, 5, 6, 7, 8, 9		HC-391 HC-391B / Z HC-392 HC-338S HC-312 HC-316 HC-325 HC-326C HC-326L
	3040GT	Acetylene	3 - 300	0, 1, 2, 3, 4, 5, 6, (7, 8)		
	3051GE	LPG	3 - 350	0, 00, 1, 2, 3, 4, 5, 6, (7, 8 , 9)		
	3080AA	Ethylene	5 - 100	0, 1, 2, 3, 4, 5		
	3062GE	LNG / CNG	3 - 350	(0, 00), 1, 2, 3, 4, (5, 6, 7, 8 , 9)		
Flat Seets Nozzle	NCC-H	LPG	3 - 30	0, 1, 2		Setsudan, YAWATA

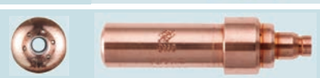
Welding / Heating Nozzle

Series	Gas	Plate thickness	Size	Appearance	Torch
6120M	Acetylene	0.1 - 2.5	10, 15, 25, 50, 75, 100, 150		No.00 Welding Torch M5
6220	Acetylene	0.5 - 2.5	25, 50, 75, 100, 150		Small Welding Torch
6320M	Acetylene	1 - 13	50, 75, 100, 150,225, 350, 500		Medium Welding Torch
6350M	LPG	1 - 12	10, 11, 12, 13, 14, 16, 18, 21		Medium Welding Torch
6520	Acetylene	5 - 25	10, 13, 16, 20, 25		B Welding Torch
6550	LPG	5 - 25	19, 21, 23, 25, 28		B Welding Torch
6620	Acetylene	20 - 50	30, 40, 50		No.3 Welding Torch
6650	LPG	12 - 50	0, 1, 2, 3, 4, 5, 6, 7		No.3 Welding Torch

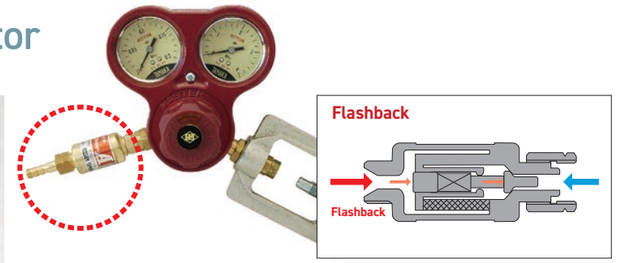
Heating Nozzle

Series	Gas	Plate thickness	Size	Appearance	Torch
6150D	Acetylene, LPG, LNG, Hydrogen, Ethylene	3 - 30	5, 6, (7, 8), 10		Micro Torch
6250	LPG	0.5 - 2.5	6, 7, 8, 9, 10, 11		Small Welding Torch NZ
7450	LPG	0.5 - 20	—		M-Propane Heating Torch
6950	LPG	12 - 50	—		Hi-Power ZS Line Heating Torch

Gouging / Scarfing Nozzle

	Series	Gas	Plate thickness	Size	Appearance	Torch
Gouging Nozzle	1520	Acetylene	5 - 17 (Width) 3 - 12 (Depth)	1, 2, 3, 4, 5, 6, 7		Gouging Torch Z
	1550	LPG	5 - 17 (Width) 3 - 12 (Depth)	1, 2, 3, 4, 5, 6, 7		Gouging Torch Z
	1520L	Acetylene	5 - 17 (Width) 3 - 12 (Depth)	1, 2, 3, 4, 5, 6		A-Type Cutting Torch Z
	1550L	LPG	5 - 17 (Width) 3 - 12 (Depth)	1, 2, 3		A-Type Cutting Torch Z
Scarfing Nozzle	5140	Acetylene	20 - 40 (Width) 1 - 2 (Depth)	6, 8, 10, 11, 12, 14		Mighty C65 Scarfing Torch
	5150	LPG	5 - 17 (Width) 3 - 12 (Depth)	6, 8, 10, 12, 14		Mighty C65 Scarfing Torch
	5451	LPG	5 - 17 (Width) 3 - 12 (Depth)	—		Mighty C65 Scarfing Torch

Flashback Arrestor for Regulator



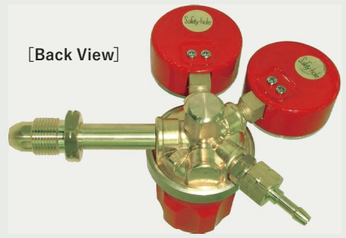
Model	Gas	Maximum working pressure (MPa)	Diameter (A)	Size (mm)	Weight (g)	Connections
FA-210 O	Oxygen	0.99	8	78 × ϕ29	250	JIS
FA-210 A	Acetylene	0.1	8	78 × ϕ29	240	JIS
FA-210 P	LPG	0.1	8	78 × ϕ29	240	JIS
FA-220 H	Hydrogen	0.15	8	78 × ϕ29	250	JIS

Venus / Fighter for Cutting & Welding

Venus O_2

Venus AC

Venus LPG



Model	Gas	Inlet pressure gauge	Outlet pressure gauge	Max. working pressure	Connections	Flow rate [at N_2]	Weight(kg)
Venus O_2	Oxygen	280 kg/cm² (4,000 lb/in2)	25 kg/cm² (350 lb/in2)	9.9 kg/cm²	JIS, BS, CGA	25 Nm³/h (P2 = 9.9 kg/cm²)	1
Venus AC	Acetylene	40 kg/cm² (560 lb/in2)	2 kg/cm² (30 lb/in2)	0.98 kg/cm²	JIS, BS, CGA	5 Nm³/h (P2 = 5 kg/cm²)	1
Venus LP	LPG	40 kg/cm² (560 lb/in2)	2 kg/cm² (30 lb/in2)	0.98 kg/cm²	JIS, BS, CGA	5 Nm³/h (P2 = 5 kg/cm²)	1
Venus Inert [Hi-P]	He, N_2	315 bar (4,500 lb/in2)	25 kg/cm² (350 lb/in2)	9.9 bar	JIS, BS, CGA	25 Nm³/h (P2 = 9.9 kg/cm²)	1.5

Master Series for Cutting & Welding

Master Ⅵ O_2

Master Ⅵ O_2 with New Stop Ace

Master Ⅵ AC with New Stop Ace

[Iron Frame]

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
Master Ⅵ O_2	Oxygen	25 (Max. 15)	2.5	0.99	JIS	61 Nm³/h (P2 = 0.99)	1.5
Master Ⅵ AC	Acetylene	4 (Max. 2.5)	0.2	0.098	JIS	9.4 Nm³/h (P2 = 0.098)	1.9
Master Ⅵ O_2 with New Stop Ace	Oxygen	25 (Max. 15)	2.5	0.99	JIS	33 Nm³/h (P2 = 0.99)	1.8
Master Ⅵ AC with New Stop Ace	Acetylene	4 (Max. 2.5)	0.2	0.098	JIS	2.7 Nm³/h (P2 = 0.098)	2.2

Heater / Non-Heater Regulator for Welding

V-F22AR

AU-888 [Fin-type]

AU-25B [Heater-Type]

Input Voltage : AC100V or AC200V

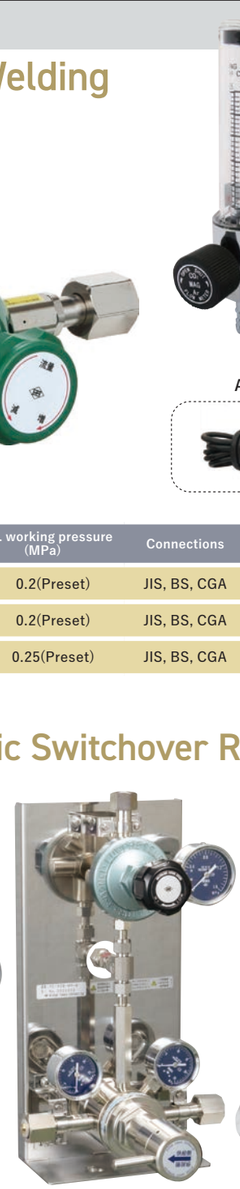
Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
V-F22AR	Argon	25 (Max. 15)	Nil	0.2(Preset)	JIS, BS, CGA	1-25NL/min (P2=0.2)	1.3
AU-888 [Fin-Type]	CO_2, MAG	Nil (Max. 15)	Nil	0.2(Preset)	JIS, BS, CGA	5-20NL/min (P2=0.2)	2.3
AU-25B [Heater-Type]	CO_2, MAG	25 (Max. 15)	Nil	0.25(Preset)	JIS, BS, CGA	1-25NL/min (P2=0.25)	1.9

High Pressure Regulator

JET-Hc

Semi-Automatic Switchover Regulator

Prince Chenger 930MA/NA



PC250B-LP / PC150B-MP

PC150S-MP
[Stainless Body Model]

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
JET-Hc	Oxygen Argon Helium Nitrogen Hydrogen	25 (Max. 15) 35 (Max. 20)	5	3	JIS, R, Rc etc	25Nm³/h (P2=3)	2.6
			10	6		50Nm³/h (P2=6)	
			20	12		80Nm³/h (P2=10)	
			25	15		100Nm³/h (P2=12)	
			35	20		115Nm³/h (P2=15)	

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
930MA/NA	Oxygen Argon Helium Nitrogen	25 (Max. 15)	1	0.5	JIS (Inlet), Rc(Outlet)	120NL/min (P2=0.3)	4.6
PC250B-LP			1	0.5		250NL/min (P2=0.3)	7.2
PC150B-MP			1.6	0.7		150NL/min (P2=0.5)	7.2
PC150S-MP			1.5	0.7		150NL/min (P2=0.5)	7.1

Line Regulator for Piping

Master Line Ⅵ O_2

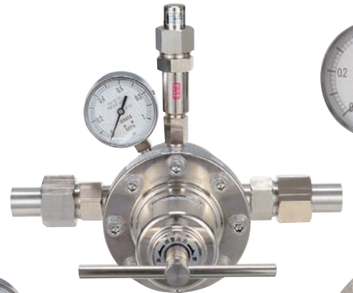
Master Line Ⅵ AC

Master Line Ⅵ LP

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
Master Line Ⅵ O_2	Oxygen	Nil(Max. 0.99)	1	0.7	UNF [Inlet] , JIS [Outlet]	26Nm³/h (P2=0.4)	1
Master Line Ⅵ AC	Acetylene	Nil(Max. 0.098)	0.2	0.07		4Nm³/h (P2=0.05)	1
Master Line Ⅵ LP	LPG	Nil (Max. 0.15)	0.2	0.07		4Nm³/h (P2=0.05)	1
Master Line Ⅵ H_2	Hydrogen	Nil (Max. 0.99)	1	0.7		26Nm³/h (P2=0.4)	1

High Flow Regulator

NT-100B



Wing L200

Aurora 3

NT-50B

Wing H200

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
NT-50B O_2	Oxygen	25 (Max. 15)	1.6	0.99	JIS	80Nm³/h (P2=1.5)	2.4
NT-50B AC	Acetylene	2.5 (Max. 1.5)	0.25	0.13		10Nm³/h (P2=0.05)	2.4
NT-50B LPG	LPG	2.5 (Max. 1.5)	0.25	0.13		10Nm³/h (P2=0.05)	2.4
NT-100B O_2	Oxygen	25 (Max. 15)	4	2	W29-14	300Nm³/h (P2=1.5)	4.4
NT-100B AC	Acetylene	2.5 (Max. 1.5)	0.25	0.13		30Nm³/h (P2=0.05)	4.4
NT-100B LPG	LPG	2.5 (Max. 1.5)	0.25	0.13		30Nm³/h (P2=0.05)	4.4
Wing H200	Oxygen	25 (Max. 15)	1.5	0.99	Socket Welding (15A)	500Nm³/h (P2=1.5)	16
Wing L200 AC	Acetylene	Nil (Max. 1.5)	0.3	0.13		60Nm³/h (P2=1.5)	15.5
Wing L200 LPG	LPG	Nil (Max. 1.5)	0.3	0.13		60Nm³/h (P2=1.5)	15.5
Aurora 3 O_2	Oxygen	Nil (Max. 1.5)	1	0.6	Brazing (Inletϕ28, Outletϕ 34)	530Nm³/h (P2=1.5)	20.5
Aurora 3 FC	Hydrogen	Nil (Max. 1.5)	1	0.6		530Nm³/h (P2=1.5)	22
Aurora 3 AC	Acetylene	Nil (Max. 1.5)	0.2	0.13		140Nm³/h (P2=1.5)	20.5
Aurora 3 LP	LPG	Nil (Max. 1.5)	0.2	0.13		140Nm³/h (P2=1.5)	20.5

COMET for Industrial Gases

CML

CMH

CM2

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2] (MPa)	Weight (kg)
CML *Line Use	Oxygen Argon Helium Nitrogen Hydrogen	Nil (Max. 3)	0.3	0.2	Rc1/4	200NL/min (P2=0.2) 400NL/min (P2=1)	1
			0.6	0.4			
			1.0	0.6			
			1.5	0.99			
CMH *Single Stage	Oxygen Argon Helium Nitrogen Hydrogen	25 (Max. 15)	0.3	0.2	JIS, CGA	400NL/min (P2=1.0)	1.65
			0.6	0.4			
			1.0	0.6			
			1.5	0.99			
CM2 *Double Stage	Oxygen Argon Helium Nitrogen Hydrogen	25 (Max. 15)	0.3	0.2	JIS, CGA	55NL/min (P2=1.0)	2
			0.6	0.4			
			1.0	0.6			
			1.5	0.99			

SUPER LABO for Specialty Gases

LABL/SL-1/ML-1

LAB1/S1-1/M1-1

LAB2/S2-1

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
LABL [Brass] **SL-1** [Stainless] **ML-1** [Monel] ***Line Use**	Same as TORR Series	Nil (Max. 1)	0.3	0.2	Depend on your request	260NL/min (P2=0.6)	1.2
			0.6	0.4			
			1.0	0.6			
			1.5	1.0			
LAB1 [Brass] **S1-1** [Stainless] **M1-1** [Monel] ***Single Stage**	Same as TORR Series	25 (Max. 15)	0.3	0.2	Depend on your request	250NL/min (P2=1.0)	1.4
			0.6	0.4			
			1.0	0.6			
			1.5	1.0			
LAB2 [Brass] **S2-1** [Stainless] ***Double Stage**	Same as TORR Series	25a (Max. 15)	0.3	0.2	Depend on your request	200NL/min (P2=1.0)	2
			0.6	0.4			
			1.0	0.6			

MARS for Specialty Gases

Model	Gas	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Connections	Flow rate [at N_2]	Weight (kg)
SH1	Other than strongly corrosive gases	25 (Max. 15)	0.3	0.2	FNPT1/4"	250 L/min (P2=1.0)	1
			0.6	0.4			
			1.0	0.6			
			1.5	1.0			
			2.0	1.3			
			2.5	1.5			
SL1	Other than strongly corrosive gases	Nil (Max. 3)	0.3	0.2	FNPT1/4"	350 L/min (P2=1.0)	1
		5.0 (Max. 3.0)	0.6	0.4			
		2.5 (Max. 1.5)	1.0	0.6			
		1.5 (Max. 1.0)	1.5	1.0			
		1.0 (Max. 0.7)	2.0	1.3			
		0.6 (Max. 0.4)	2.5	1.5			

SH1

SH2

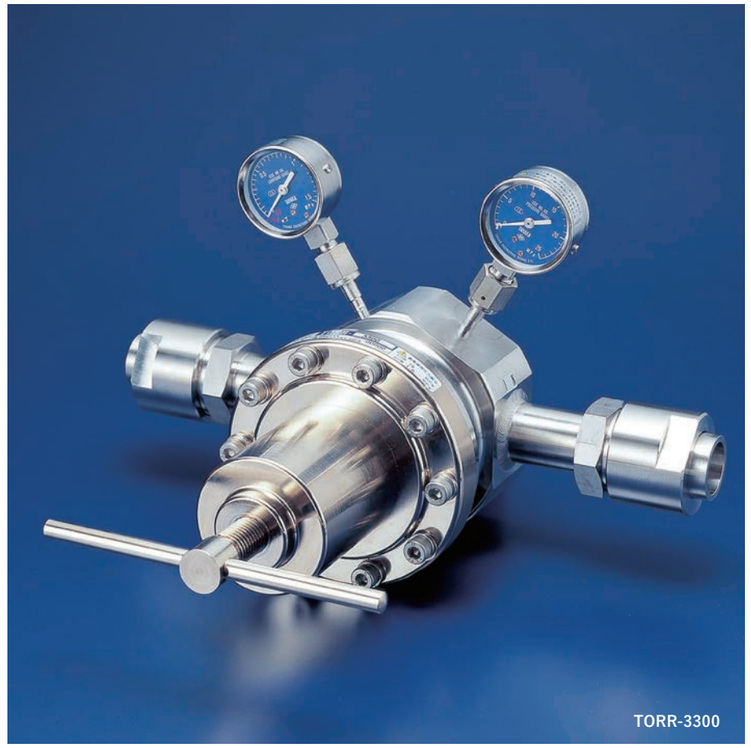
TORR Low Pressure Regulator for Semi-Cnductor Use

*Applied Gases for TORR Series

O_2, N_2, Ar, H_2, He, CO_2, Ne, Xe, Kr, B_2H_6, SiH_4, PH_3, GeH_4, AsH_3, H_2Se, Si_2H_6, NF_3, BF_3, PF_3, SiF_4, CF_4, CHF_3, CH_2F_2, C_2F_6, C_3F_6, C_3F_8, C_4F_6, C_4F_8, C_5F_8, CO, NO, F_2, HF, HCl, HBr, N_2O, SF_6, NH_3, Cl_2, BCl_3, ClF_3, SiH_2Cl_2, $SiCl_4$, WF_6.....

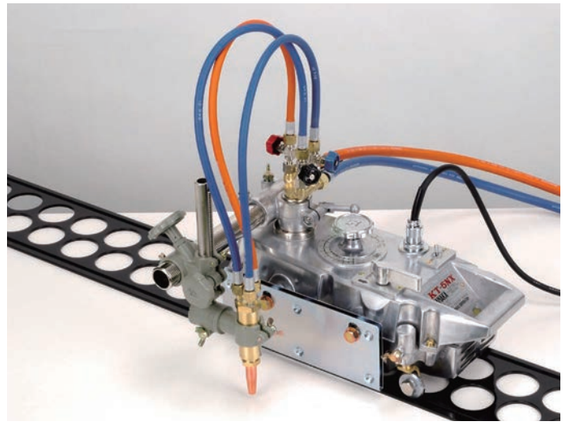
Model	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Flow rate [at N_2]	Weight (kg)
TORR-30	Nil (Max. 5)	0.3 0.6 1.0 1.5	0.2 0.4 0.6 0.99	300NL/min (P2=0.4)	1.1
TORR-50	Nil (Max. 3.5)			800NL/min (P2=0.4)	1.6
TORR-80	Nil (Max. 2)	0.3 0.6 1.0 1.5	0.2 0.4 0.6 1	1,400NL/min (P2=1.0)	3
TORR-150	Nil (Max. 2)			1,400NL/min (P2=1.0)	3.7
TORR-350	Nil (Max. 1.5)			220Nm³/h (P2=1.0)	10
TORR-800	Nil (Max. 1)			300Nm³/h (P2=1.0)	32

TORR High Pressure Regulator for Semi-Conductor Use

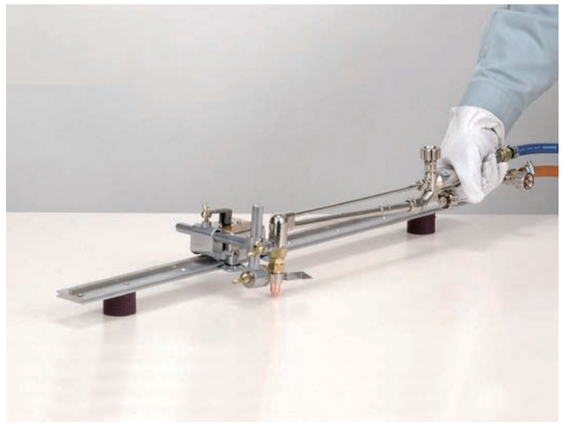


Model	Inlet pressure gauge (MPa)	Outlet pressure gauge (MPa)	Max. working pressure (MPa)	Flow rate [at N_2]	Weight (kg)
TORR-1300	25 (Max. 15)	0.3 0.6 1.0 1.5	0.2 0.4 0.6 1	250NL/min (P2=0.5)	1.3
TORR-2300				1,400NL/min (P2=0.5)	1.8
TORR-2500				90Nm³/h (P2=0.5a)	4.9
TORR-3300				120Nm³/h (P2=0.5)	14
TORR-2800 *Corrosion gas	25 (Max. 15)	0.3 0.6 1.0 1.5	0.2 0.4 0.6 1	1,400NL/min (P2=0.5)	6.7
TORR-H *High pressure	25 (Max. 15) 35 (Max. 15)	5 10 20	3 6 12	800NL/min (P2=6.0)	2

Straight Line / Pacer / 3D Position Cutting



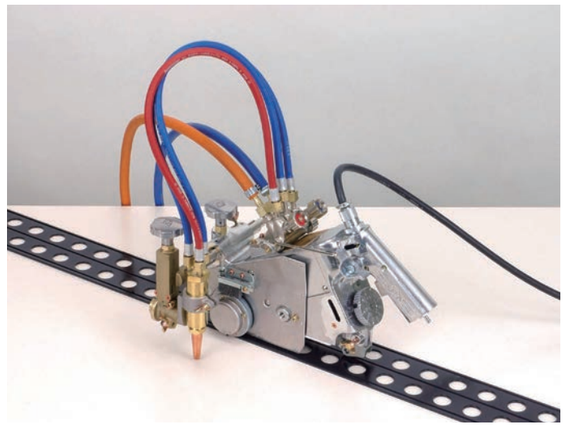
KT-5NX [Straight]



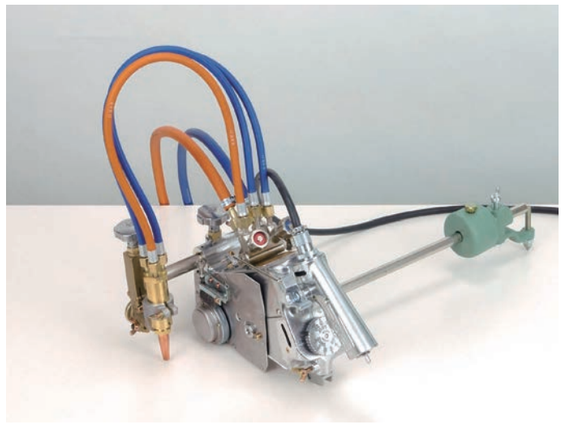
KT-270 [Pacer]

Model	KT-5NX	KT-270
Cutting thickness (mm)	6 - 40	6 - 40
Cutting speed (mm/min)	100 - 1,000	300 - 700
Maximu bevel angle (degree)	45	45
Cutting torch model	HC-312	HC-338S
Cutting nozzle	Sr. 3051(LPG) or Sr. 3040G(ACE)	Sr. 3051(LPG) or Sr. 3040G(ACE)
Speed control	Friction Disk System	By Gear
Input voltage (V)	Single Phase AC100 or AC220	—
Optional items	X/Y Bebel , Circle , 1.8M Rail	Guide Rail/Magnet

Free Line Cutting



KT-160NⅡ [Free Line]

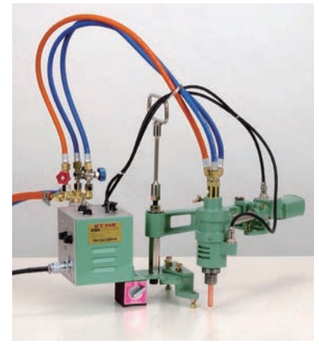


KT-160NⅡ [Circle Option]

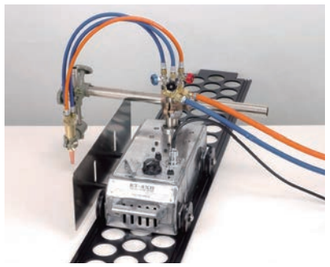
Model	KT-160NⅡ	KT-160NⅡ (Circle Option)
Cutting thickness (mm)	6 - 40	—
Cutting speed (mm/min)	100 - 1,000	—
Maximu bevel angle (degree)	45	—
Cutting torch model	HC-312	—
Cutting nozzle	Sr. 3051(LPG) or Sr. 3040G(ACE)	—
Speed control	IC Control	—
Input voltage (V)	Single Phase AC100 or AC220	—
Optional items (mm)	—	Ø 100 - 1,000 Circle

Straight / Shape Trace Cutting

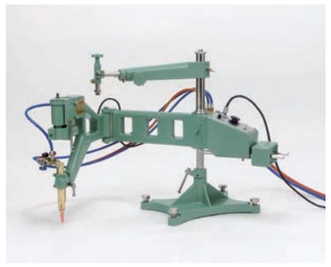
Model	KT-8XB	KT-350NⅡ	KT-74 (M-L)
Cutting thickness (mm)	6 - 40	6 - 40	6 - 40
Cutting speed (mm/min)	100 - 1,000	100 - 750	150 - 700
Maximu bevel angle (degree)	45	—	—
Cutting diameter / Area (mm)	—	○700 / □1000×500	○250 / Oval 200 - 500 (M) ○350 / Oval 200 - 800 (L)
Cutting torch model	HC-312	HC-317	HC-311
Cutting nozzle	Sr. 3051(LPG) or Sr. 3040G(ACE)	Sr. 3051(LPG) or Sr. 3040G(ACE)	Sr. 3250M(LPG) or Sr. 3240M(ACE)
Speed control	PWM Control	Thyristor Control	Thyristor Control
Input voltage (V)	Single Phase AC100 or AC220	Single Phase AC100 or AC220	Single Phase AC100 or AC220
Optional items	—	—	—



KT-74(M-L) [Shape Trace]



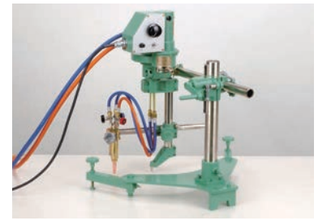
KT-8XB [Straight]



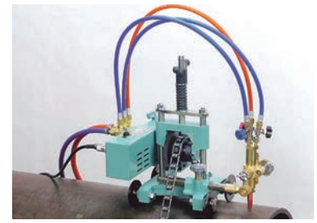
KT-350NⅡ [Shape Trace]

Circle / Pipe Cutting

Model	KT-30-6	KT-45
Cutting thickness (mm)	6 - 40	6 - 40
Cutting speed	0.14 - 4.3rpm	100 - 700mm/min
Maximu bevel angle (degree)	45	45
Cutting diameter / Area (mm)	Dia 40 - 600	Pipe Dia 150 - 600
Cutting torch model	HC-316	HC-316
Cutting nozzle	Sr. 3051(LPG) or Sr. 3040G(ACE)	Sr. 3051(LPG) or Sr. 3040G(ACE)
Speed control	Thyristor Control	Thyristor Control
Input voltage (V)	Single Phase AC100 or AC220	Single Phase AC100 or AC220
Optional items	—	Extension Chain

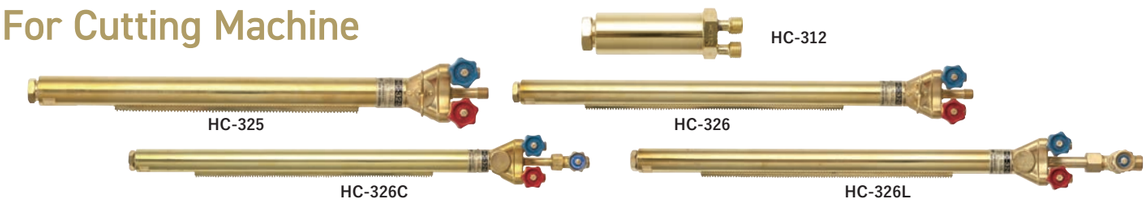


KT-30-6 [Circle/Frange]



KT-45 [Pipe]

For Cutting Machine



Model	Applicable	Plate thickness (mm)	Torch body length (mm)	Torch body weight (g)	Connections	Nozzle	Fuel gas
HC-312 Cutting Torch	Gas portable cutting machine	6 - 100	102	500	JIS	Sr. 3040GT Sr. 3051GE Sr. 3080AA Sr. 3062 Sr. 3055 II Sr. 3057 II	Acetylene LPG Ethylene CNG/LNG
HC-325 Cutting Torch	KT-530 series	6 - 100	443	1,400			
HC-326 Cutting Torch	All gas cutting machine except KT-530	6 - 100	533	1,800			
HC-326C Cutting Torch	All gas cutting machine except KT-530	50 - 300	577	1,900			
HC-326L Cutting Torch	All gas cutting machine except KT-530	150 - 350	606	2,100			

GANTRY FIBER LASER CUTTING MACHINE

FMR III

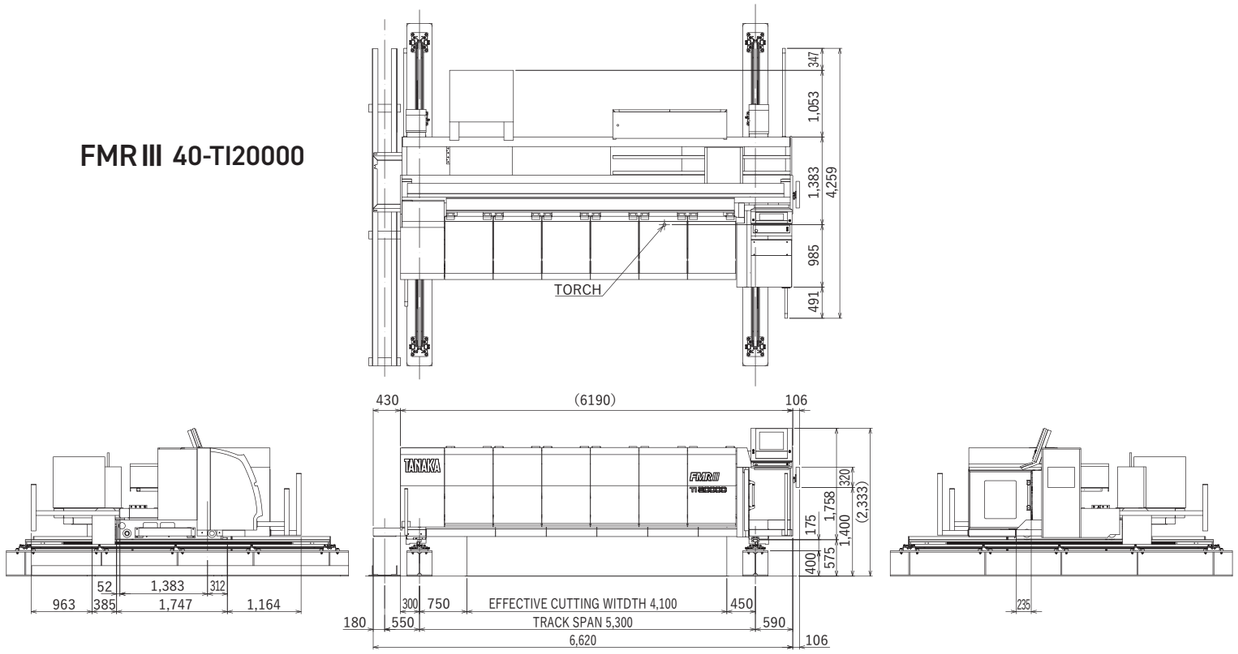
THE ALL NEW FMR III

- *High Speeding of Machine Motion and Control*
- *High Quality Cutting Capability*
- *Improved Operability*

ALLURING DESIGN

- *Low gravity center and lighter weight*
- *Improving drive system and maintainability*

FMR III 40-TI20000



[Machine specification]

Model	25	30	35	40	45	50	55
Effective cutting width（mm）	2,600	3,100	3,600	4,100	4,600	5,100	5,600
Rail span（mm）	3,500/3,800	4,000/4,300	4,500/4,800	5,000/5,300	5,500/5,800	6,000/6,300	6,500/7,000
Rail length（mm）	Standard: 9,600 *Rail length can be extendable as per 1,200						
Effective cutting length（mm）	Rail Length - 3,000						
Rapid feed rate（mm/min）	60,000						
NC device	FANUC 0i-LF Plus						

NEW AND DISTINCT OPERATION DESIGN

- *Excellent Operability*

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

- *Improved Maintainability*

Slide door for easy maintenance
Quick access to torch head from operation desk

TANAKA CUTTING SIGNATURE

- *New Torch Head*

Redesigned torch head and optiacal system

- *New CW Cutting*

New torch head + New nozzle developed and combine

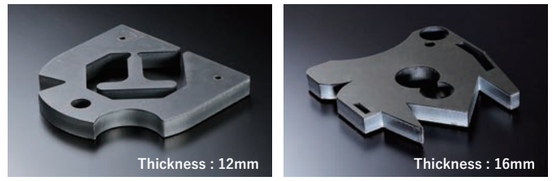
Advantages of New CW Cutting

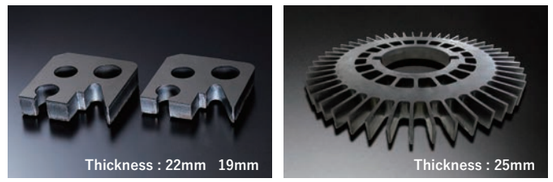
Dramatically improved cut surface quality

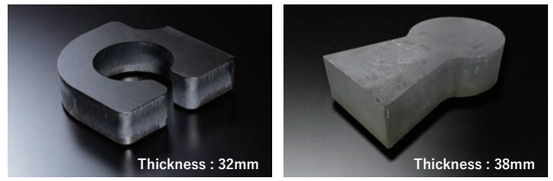
Expanded maximum cutting thickness
(FMRIII-20kW : Max.t40mm)

Cutting stability is improved with little affect of material surface.

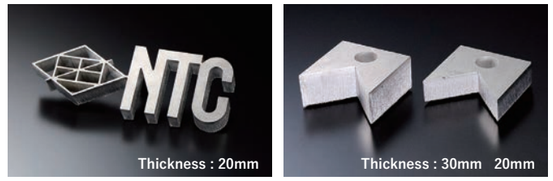
Mild Steel SS400



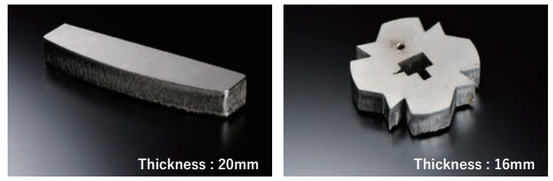




Aluminum A5052



Stainless Steel SUS304



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.

FMZ II Gantry Bevel Fiber Laser Cutting Machine

TI 6000 / TI 12000 / TI 20000

LMZ V Bevel Torch Head

[Machine specification]

Model		25	30	35	40	45	50
Effective cutting width (mm)	Bevel	2,500	3,000	3,500	4,000	4,500	5,000
	Vertical	2,800	3,300	3,800	4,300	4,800	5,300
Rail span (mm)		4,000 4,300	4,500 4,800	5,000 5,300	5,500 5,800	6,000 6,500	6,500 7,000
Total length of machine (mm)		5,200	5,700	6,200	6,700	7,200	7,500
Effective cutting length (mm)		Total length – 4,000 *Rail length can be extendable as per 1,200					
NC device		FANUC 30iLB PANELi					

[Standard cutting specification]

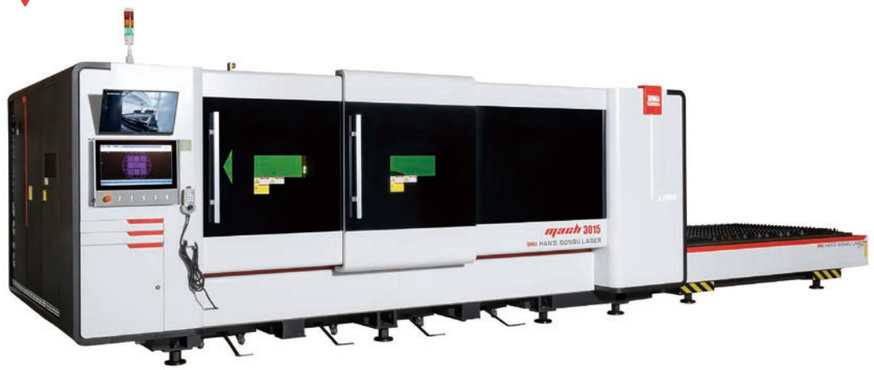
Model		TI6000	TI12000	TI20000
Mild steel material (mm)	Vertical	32	36	38
	Top/bottom V bevel 30deg	16	28	36
	Top/bottom V bevel 45deg	12	28	32

[Speed specification]

Processing feed speed (mm/min)	1 – 24,000
Rapid feed speed (mm/min)	45,000
Manual rapid feed speed (mm/min)	24,000
Cutting head up/down speed (mm/min)	20,000
Home return speed (mm/min)	24,000
I Marking speed (mm/min)	24,000
P Marking speed (mm/min)	30,000

TANAKA HAN'S SONGU LASER

mach / wind Table Type Fiber Laser Cutting Machine



[Machine specification]

Model	3015	4020	6025
Output laser power (W)	4,000 / 6,000		
Working area (mm)	3,000 x 1,500	4,000 x 2,000	6,000 x 2,500
Transmission system	Synchronized direct driving system		
Loading method	Automatic exchanging pallets Hydraulic shuttle tables		
Rapid feed speed (mm)	Mach : 240 / Wind : 200		
Position accuracy (mm)	± 0.05		
Reposition accuracy (mm)	± 0.03		
Overall dimension (mm)	9,800 x 3,000 x 2,200	12,000 x 3,500 x 2,200	15,500 x 4,200 x 2,200
Gross weight (tonne)	13.5	15.5	17.5

[Standard cutting specification]

Material [Assista gas](W)	4,000	6,000
Mild steel [O_2] (mm)	19	25
Mild steel [N_2](mm)	4	6
Stainless steel [N_2] (mm)	14	20

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

LMR V Gantry CO_2 Laser Cutting Machine

TF2000 / TF4000 / TF6000

[Machine specification]

Model	25	30	35	40	45	50	55
Effective cutting width (mm)	2,600	3,100	3,600	4,100	4,600	5,100	5,600
Rail span (mm)	3,500 3,800	4,000 4,300	4,500 4,800	5,000 5,300	5,500 5,800	6,000 6,500	6,500 7,000
Effective cutting length	Depends on customer's requirement						
Rail size	50kg/m LMRV25~LMRV35: Campatible 37kg/m rail for TF2000, TF4000						
Rail length(mm)	Effective cutting length +3,000						
Vertical stroke (mm)	200						
Overall machine length (mm)*1	3,130						
Overall machine width (mm)*2	4,530 4,830	5,030 5,330	5,530 5,830	6,030 6,330	6,530 6,830	7,130 7,530	7,630 8,030
Overall machine height (mm)	LMRV25~35: 2,475 / LMRV40~55: 2,575						

*1 Including the area sensor: 3,873mm *2 Overall machine width of LMR V25-TF6000 : 4,930mm

[Standard cutting specification]

Model			TF2000	TF4000	TF6000
Mild steel material (mm)			19	22	32
Stainless steel material (mm)	<1Mpa	Normal	8 (10*1)	10(12*1)	12(16*1)
	≧1MPa	Normal	—	16(20*1)	20(28*1)
		High quality	—	—	25

*1 The numerical value of () is the cutting specification for separate cutting. Drossmay adhere to the product, so please check the sample.

[Speed specification]

Processing feed speed (mm/min)	1 – 6,000
Rapid feed speed (mm/min)	24,000
Manual rapid feed speed (mm/min)	12,000
Cutting head approach speed (mm/min)	20,000
Cutting head lifting speed (mm/min)	15,000
Home return speed (mm/min)	24,000

LMZ V Gantry Bevel CO_2 Laser Cutting Machine

TF4000 / TF6000

LMZ V Bevel Torch Head

[Machine specification]

Model	25	30	35	40	45	50
Effective cutting width (mm)	2,600	3,100	3,600	4,100	4,600	5,100
Rail span (mm)	4,000 4,300	4,500 4,800	5,000 5,300	5,500 5,800	6,000 6,500	6,500 7,000
Total length of the machine (mm)	5,200	5,700	6,200	6,700	7,200	7,500
Effective cutting length	Depends on customer's requirement					
Rail size	50 kg/m					
Rail length (mm)	Effective cutting length + 3,500					
Vertical stroke (mm)	250					
Overall machine length (mm)	3,500					
Total length of the machine (mm) *1	4,930	5,430	5,930	6,330	7,030	7,730
Total high of the machine (mm)	2,680					

* 1 Excluding fluid introduction part

[Standard cutting specification]

Model			TF4000	TF6000
Mild steel material *1	Vertical cutting (mm)		22	32
	Front/Back V bevel 30° (mm)		12	16
	Front/Back V bevel 45° (mm)		9	12
Stainless steel material *2	<1MPa	Vertical cutting (mm)	10 / (12*3)	12(16*3)
	≧1MPa	Vertical cutting (mm)	16 / (20*3)	20(28*3)
		Front/back V bevel 22.5°	–	12
		High quarity cutting (mm)	–	20*4

[Speed specification]

Processing feed speed (mm)	1 – 6,000
Rapid feed speed (mm)	24,000
Manual rapid feed speed (mm)	12,000
Cutting head approach speed (mm)	20,000
Cutting head lifting speed (mm)	15,000
Home return speed (mm)	24,000

*1 Material: SS400(Middle Steel), Shape:□70mm×70mm(Corner part R5)
*2 Merterial: SUS304 , Shape:□70mm×70mm(Corner part R5)
*3 The numerical value of () is the cutting specification for separate cutting. Dross may adhere to the product, so please check the sample.
*4 R processing is required for corners. In addition, the cutting quality may change depending on the stainless steel manufacturer, the material, and the condition of the steel plate.

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

KT-790 PMX Ⅱ

3D Type Bevel Cutting Unit

Operating Panel

Model	KT-790PMXⅡ						
Effective cutting width (mm)	2,800	3,300	3,800	4,300	4,800	5,300	5,800
Rail span (mm)	4,000	4,500	5,000	5,500	6,000	6,500	7,000
Rail length (mm)	Standard: 9,600 *Rail length can be extendable as per 1,200						
Effective cutting length (mm)	Total Length -4,300						
Torch rotated system	3D Link(TCL)						
Optional functions	Stainless Steel Cutting Function, Marking Device, Dust Collector, etc.						
NC device	FANUC Series 31iMB						
Driving system	Dual Side Rack & Pinion Drive						
Torch head lifting speed (mm/min)	20,000						
Torch head descenting speed (mm/min)	20,000						
Rail size	50 kg/m						

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

PLASIAN Ω

Normal

Piercing

Operating Panel

Model	20R	25R	30R	35R	40R
Effective cutting range (mm)	2,100	2,600	3,100	3,600	4,100
Rail span (mm)	3,000	3,500	4,000	4,500	5,000
Rail size (mm)	37 kg/m *Standard: 9,600 Rail length can be extendable as per 1,200.				
Effective cutting length (mm/min)	Standard: 7,200 (Total Length -2,400)				
Plasma power source	XPR300 / XPR170				
Macheing feed speed (mm)	0 – 10,000				
Rapid feed speed (mm/min)	30,000 *OP(Hi-Rapid Feed Speed: 50,000)				
Marking speed (mm/min)	24,000				
Up-down stroke (mm)	Standard: 200				
NC device	FANUC FS-0iMF Plus				
Total length of machine (mm)	2,435				
Total hight of machine (mm)	1,829 from Rail Top				

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

KT-650PGR

Model	KT-650PGR				
Effective cutting width (mm)	3,000	3,500	4,000	4,500	5,500
Rail span (mm)	4,000	4,500	5,000	5,500	6,000
Rail length (mm)	Standard: 9,600 *Rail length can be extendable as per 1,200				
Effective cutting length (mm)	Total length –2,500				
Rail size	50 kg/m				
Torch block	Vertical plasma cutting torch + Vertical gas cutting torch (Capable of mounting up to 4 torches)				
Plasma power source	Standard: PEGASUS Series, XPR Series				
NC device	FS-0iMF Plus, RNQ–150				
Speed specifications (mm/min)	Cutting speed: 1–10,000 Rapid feed speed: 24,000 Manual rapid feed speed X-Axis: 24,000 Manual rapid feed speed Y-Axis: 24,000				
Driving system	Dual Side Rack & Pinion Drive				
Number of torch	1 x Plasma, 2~4 x Oxy–fuel Gas				
Input voltage	3–Phase 220V, 50/60Hz				

Plasma Power Source

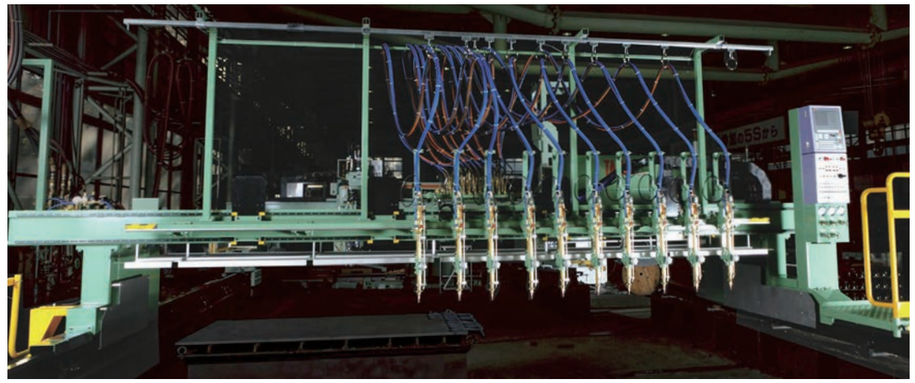
PEGASUS 500 Ⅲ Neo

XPR300

Model	TANAKA PEGASUS 500 Ⅲ Neo	Hypertherm XPR300
Input power	TSIB-100K1	3-phase 200/220V 50/60Hz
Rated input(kVA)	136	72
Rated output current(A)	500	300
Cutting thickness ［Mild steel］(mm)	t6 – t50	t6 – t38
Cutting thickness ［Stainless steel］	—	t6 – t32
Input voltage (V) ［3-Phase］	AC200 / AC220 / AC380 / AC400 / AC440	AC200 / AC220
External dimensions ［W×L×H］(mm)	560×665×1,200	817×1,273×1,248

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

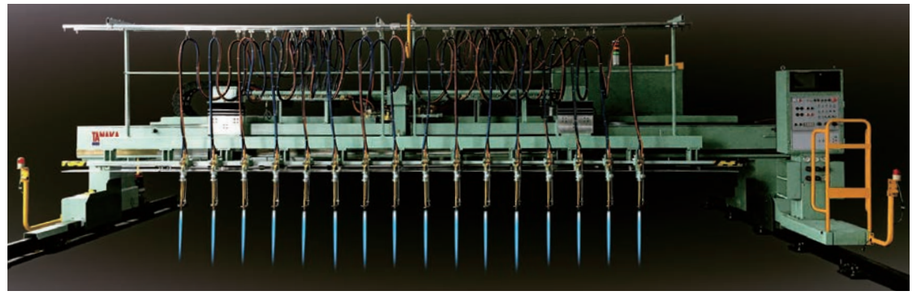
KT-650J / KT-650



KT-650J

Model	KT-650J		KT-650	
Effective cutting width (mm)	Rail Span – 800			
Rail span (mm)	4,000 – 8,000		4,000 – 6,000	
Rail length (mm)	Standard: 9,600 *Rail length can be extendable as per 1,200			
Effective cutting length (mm)	Rail Length – 2,400			
Machine body	Rectangular Bar Type	Steel Belt Type	Rectangular Bar Type	Steel Belt Type
Sigle torch stroke (mm)	1,500 – 2,500	Depends on Number of Torch	1,500 – 2,500	Depends on Number of Torch
Number of torch block	Standard 6(Max. 16 torches)	Standard 6(Max. 10 torches)	Standard 6(Max. 16 torches)	Standard 6(Max. 10 torches)
Rapid feed speed / Marking speed (mm/min)	18,000		12,000	
NC device	RNQ–150		FANUC–0iMD+PANELi	
Driving system	Dual Side Rack & Pinion Drive			
Rail size	37 kg/m or 50 kg/m			
Optional functions	Auto Ignition, Capacitance Height Sensor, Zinc-Marking(Line) , Water Spray, etc.			
Cutting speed (mm/min)	0 – 3,000			
Cutting thickness (mm)	6 – 100 (Max.50 with 4 torches)			
Input voltage	3–Phase 220V, 50/60Hz			

KT-790



Model	KT-790	
Effective cutting width (mm)	Rail Span – 800	
Rail span (mm)	4,000 – 20,000	
Rail length (mm)	Standard: 9,600 *Rail length can be extendable as per 1,200	
Effective cutting length (mm)	Rail length – 3,000	
Driving system	Rectangular Bar Type	Steel Belt Type
	Dual Side Rack & Pinion Drive	
Rail size	50 kg/m	
Rapid feed speed / Marking speed (mm/min)	24,000	
NC device	FANUC / RNQ-150	

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