

Product Catalogue

TOKINARC®



Semi-Automatic Torches

TIG Torches

Air-Cooled Robotic Torches

Water-Cooled Robotic Torches

Automatic Torches

Automatic TIG Torches

Robotic Peripherals

Fume Extractors

Plasma-Laser Parts, Optics

www.tokinarc.co.jp

CSL / CSH SERIES

Complete Basic Models



CSL-18
CSL-20
CSL-20L

CSL-20F
CSL-35K
CSL-35L

CSL-35F

CSH-35
CSH-35K
CSH-35V
CSH-35L

CSH-35G
CSH-35F
CSH-45F

CSH-45
CSH-45V
CSH-45L

CSH-50
CSH-50F

Type		CSL-18	CSL-20/CSL-20F/CSL-20L	CSL-35/CSL-35K CSL-35F/CSL-35G/CSL-35L	CSH-35/CSH-35K/CSH-35V CSH-35F/CSH-35L/CSH-35G	CSH-45/CSH-45V CSH-45F/CSH-45L	CSH-50/CSH-50F/CSH-50L
Rated Current	A	180	200	350	350	450	500
Duty Cycle	%(CO ₂)	40	40	35	60	60 (CSH-45F 40)	60 (CSH-50F 35)
	%(MAG)	20	20	20	35	35 (CSH-45F 20)	35 (CSH-50F 20)
Applicable Wire Size	mm	(0.6, 0.8) 0.9	(0.8, 0.9, 1.0) 1.2	(0.8, 0.9, 1.0) 1.2	(0.9, 1.0, 1.4) 1.2	(1.4, 1.6) 1.2	(1.2, 1.4) 1.6
Cooling Method		Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Cable Length	m	3	3 / 4	3 / 4 / 4.5 / 5 / 6	3 / 4 / 4.5 / 5 / 6	3 / 4 / 4.5 / 5 / 6	3 / 4 / 4.5 / 5 / 6
Total Weight (with 3m cable)	kg	1.9	1.9	2.3	2.4	3.0	3.6

CSH-35

-3

Torch Model

Cable Length(m)

The code used here is to specify the special type product.
(Example : "EURO" for European specifications)

This alphabet code is used only for the direct use type of cable-end.

- N Direct** : Panasonic Direct Use
- D Direct** : DAIHEN Direct Use



▲ TOKIN Standard Cable-End



▲ EURO



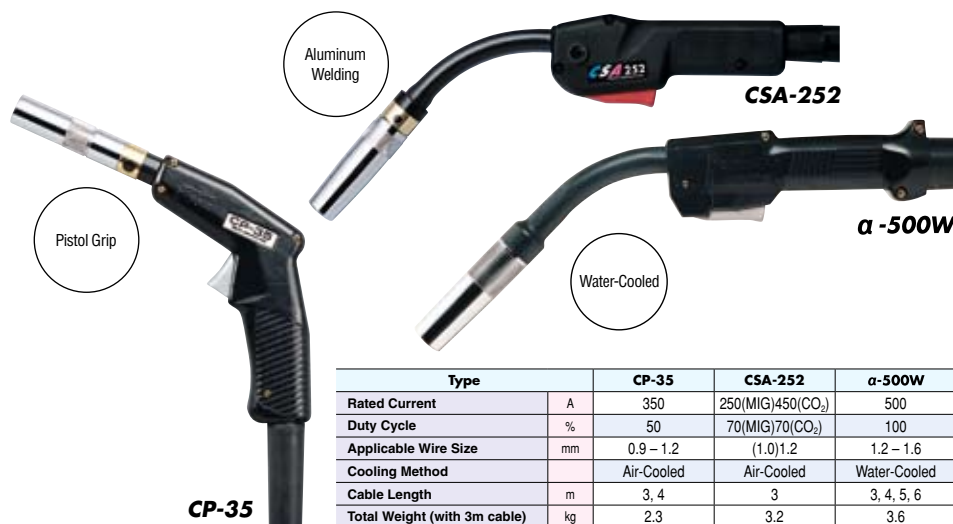
▲ N Direct

CP/CSA/α

Special Torches Designed for Various Applications

ADAPTER

Fit to Various Manufacturers' Wire Feeder



N Adapter

Type		CP-35	CSA-252	α-500W
Rated Current	A	350	250(MIG)450(CO ₂)	500
Duty Cycle	%	50	70(MIG)70(CO ₂)	100
Applicable Wire Size	mm	0.9 - 1.2	(1.0)1.2	1.2 - 1.6
Cooling Method		Air-Cooled	Air-Cooled	Water-Cooled
Cable Length	m	3, 4	3	3, 4, 5, 6
Total Weight (with 3m cable)	kg	2.3	3.2	3.6

TA/CS/FX/FXS SERIES

Various Models for Specific Work Pieces

TA-50



Type		TA-50
Rated Current	A	50
Applicable Tungsten Size	mm	0.5 - 1.0
Cooling Method		Air-Cooled
Weight (without P/C)	g	75

TA-24, 24W



Type		TA-24	TA-24W
Rated Current	A	80	180
Applicable Tungsten Size	mm	0.5 - 1.0	0.5 - 2.4
Cooling Method		Air-Cooled	Water-Cooled
Weight (without P/C)	g	66	80

CS-310



Type		CS-310
Rated Current	A	310
Applicable Tungsten Size	mm	0.5 - 3.2
Cooling Method		Water-Cooled
Weight (without P/C)	g	100

TA-9, FX-9, TA20



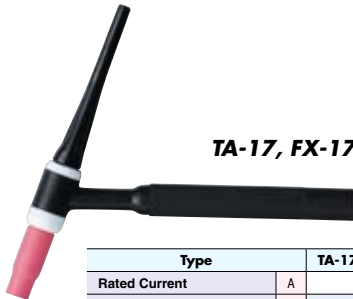
Type		TA-9, FX-9	TA-20
Rated Current	A	125	250
Applicable Tungsten Size	mm	0.5 - 2.4	0.5 - 3.2
Cooling Method		Air-Cooled	Water-Cooled
Weight (without P/C)	g	105	99

TA-9P, 20P



Type		TA-9P	TA-20P
Rated Current	A	125	250
Applicable Tungsten Size	mm	0.5 - 2.4	0.5 - 3.2
Cooling Method		Air-Cooled	Water-Cooled
Weight (without P/C)	g	105	105

TA-17, FX-17



Type		TA-17, FX-17
Rated Current	A	150
Applicable Tungsten Size	mm	1.6 - 3.2
Cooling Method		Air-Cooled
Weight (without P/C)	g	192

TA-17P



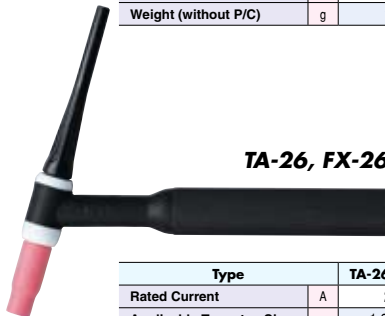
Type		TA-17P
Rated Current	A	150
Applicable Tungsten Size	mm	1.6 - 3.2
Cooling Method		Air-Cooled
Weight (without P/C)	g	192

CS-410



Type		CS-410
Rated Current	A	410
Applicable Tungsten Size	mm	0.5 - 4.0
Cooling Method		Water-Cooled
Weight (without P/C)	g	160

TA-26, FX-26



Type		TA-26, FX-26
Rated Current	A	200
Applicable Tungsten Size	mm	1.6 - 4.0
Cooling Method		Air-Cooled
Weight (without P/C)	g	270

TA-18



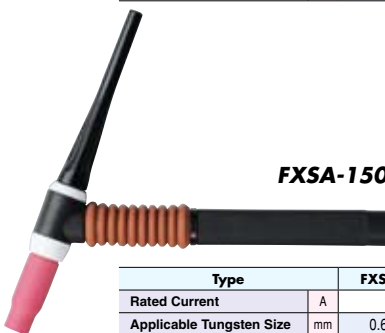
Type		TA-18
Rated Current	A	350
Applicable Tungsten Size	mm	1.6 - 4.0
Cooling Method		Water-Cooled
Weight (without P/C)	g	236

FX-25



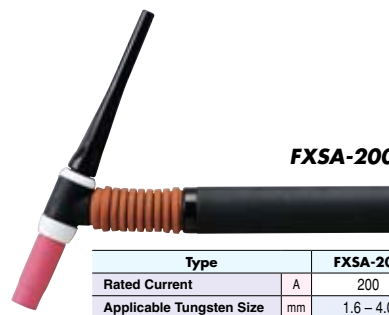
Type		FX-25
Rated Current	A	200
Applicable Tungsten Size	mm	0.5 - 2.4
Cooling Method		Water-Cooled
Weight (without P/C)	g	160

FXSA-150



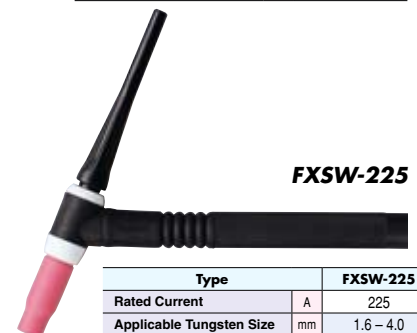
Type		FXSA-150
Rated Current	A	150
Applicable Tungsten Size	mm	0.6 - 4.0
Cooling Method		Air-Cooled
Weight (without P/C)	g	192

FXSA-200



Type		FXSA-200
Rated Current	A	200
Applicable Tungsten Size	mm	1.6 - 4.0
Cooling Method		Air-Cooled
Weight (without P/C)	g	270

FXSW-225

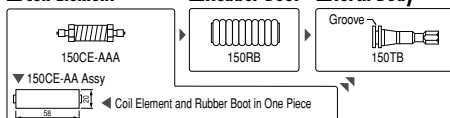


Type		FXSW-225
Rated Current	A	225
Applicable Tungsten Size	mm	1.6 - 4.0
Cooling Method		Water-Cooled
Weight (without P/C)	g	236

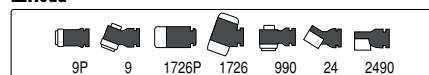
■ Head



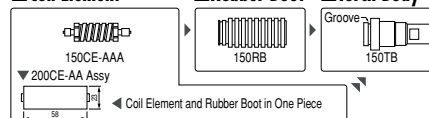
■ Coil Element



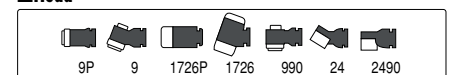
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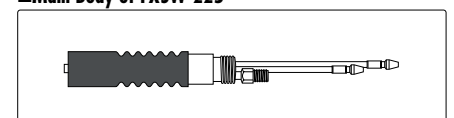
■ Coil Element



■ Head



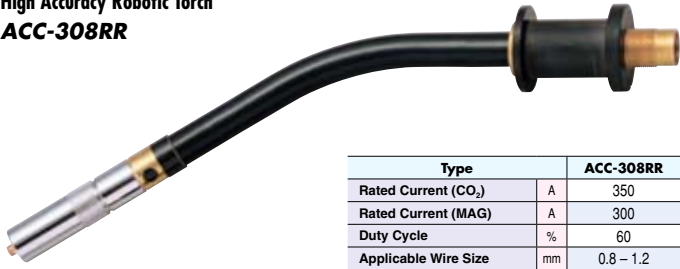
■ Main Body of FXSW-225



ACC/TK SERIES

Advanced Robotic Torches

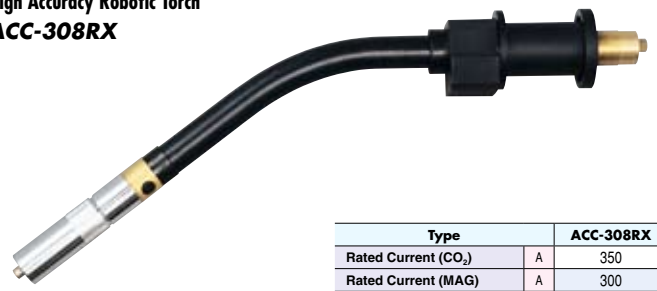
High Accuracy Robotic Torch
ACC-308RR



Type	ACC-308RR	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Dimensional Accuracy	X	264.3 ± 0.3
	Y	116.5 ± 0.4
	θ	35° ± 4.0
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

By innovation of Lost-Wax processed component made of special copper alloy, accomplished more than twice the impact resistance of the conventional component.

High Accuracy Robotic Torch
ACC-308RX



Type	ACC-308RX	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

Replaceable Type of ACC-308RR

Basic Torch for HP-6 and HP-20
TK-308RR



TK-308RS



Type	TK-308RR/S	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

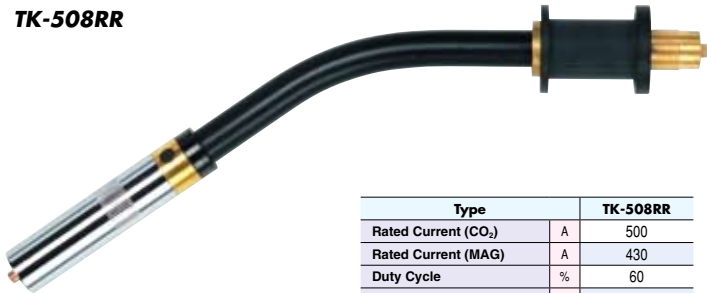
TK-308RX



Type	TK-308RX	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

Accomplished a quick replacement of torch body by separating from clamp and to keep a reliable repeatability.

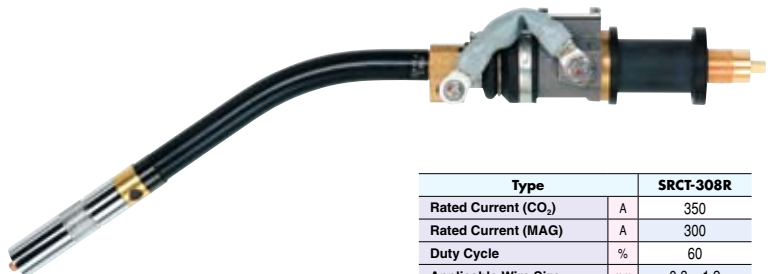
TK-508RR



Air-Cooled 500A Standard Type

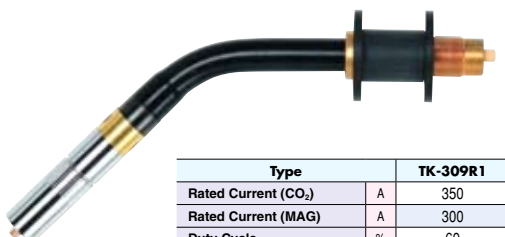
Type	TK-508RR	
Rated Current (CO ₂)	A	500
Rated Current (MAG)	A	430
Duty Cycle	%	60
Applicable Wire Size	mm	1.2 - 1.6
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

SRCT-308RR



Type	SRCT-308R	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

TK-309R1



Type	TK-309R1	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 - 1.2
Cooling Method	Air-Cooled	
Cable Length	m	0.8 - 5

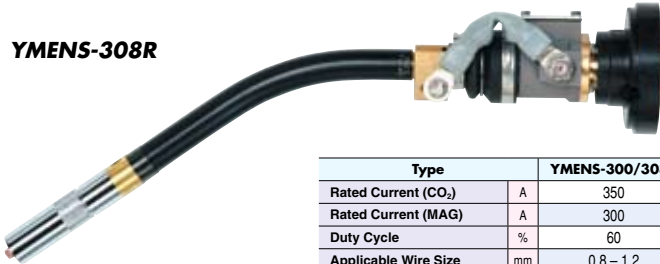
Built-in Shock Sensor Type of TK-308RR
Without loosening a control point, the torch (TK-308RR) is replaceable.

MOTOMAN - EA SERIES

YMENS-300R



YMENS-308R

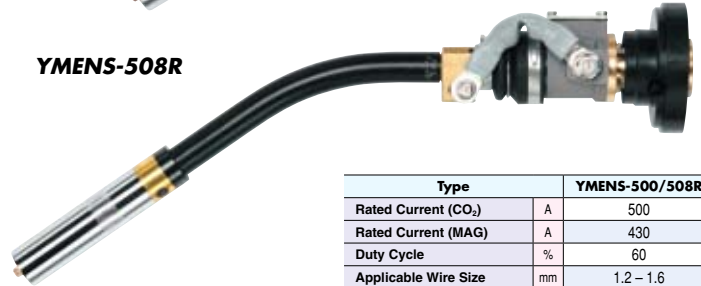


Type	YMENS-300/308R	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled

YMENS-500R

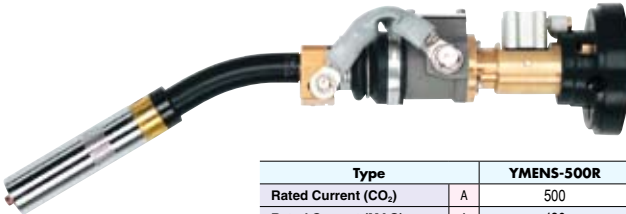


YMENS-508R



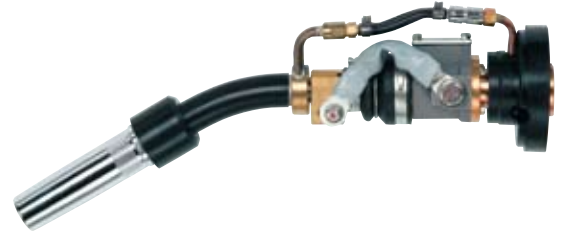
Type	YMENS-500/508R	
Rated Current (CO ₂)	A	500
Rated Current (MAG)	A	430
Duty Cycle	%	60
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Air-Cooled

YMENS-500R With Wire Clamp

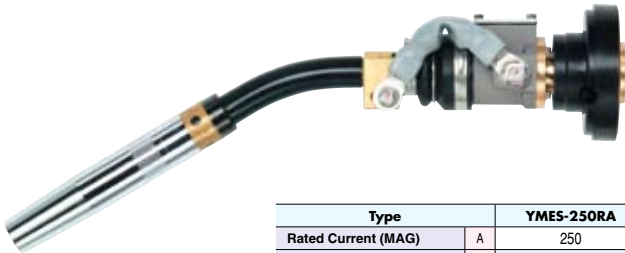


Type	YMENS-500R	
Rated Current (CO ₂)	A	500
Rated Current (MAG)	A	430
Duty Cycle	%	60
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Air-Cooled

YMES-500W



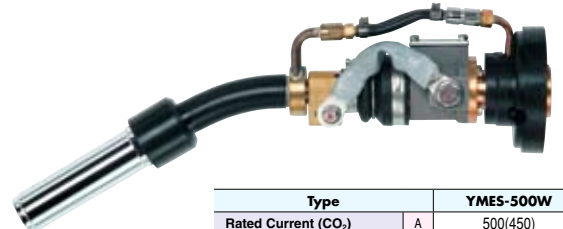
YMES-250RA



Type	YMES-250RA	
Rated Current (MAG)	A	250
Duty Cycle	%	60
Applicable Wire Size	mm	1.0 – 1.2
Cooling Method		Air-Cooled

Air-Cooled Torch for Aluminum Welding

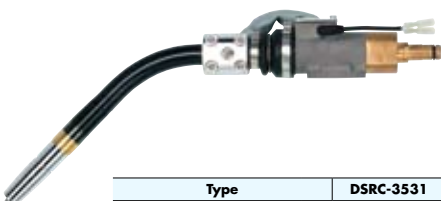
YMES-500W Water-Cooled Nozzle



Type	YMES-500W	
Rated Current (CO ₂)	A	500(450)
Rated Current (MAG)	A	430(380)
Duty Cycle	%	80(100)
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled

ROBOTIC TORCHES FOR OTHERS

DSRC-3531



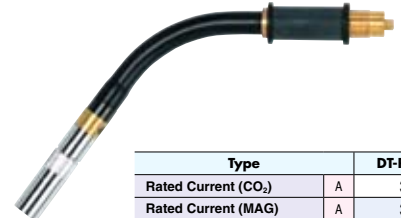
Type	DSRC-3531	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	250
Duty Cycle	%	50
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	1 – 5

YT-352CCS



Type	YT-352CCS	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	1 – 5

DT-RA352C55



Type	DT-RA352	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	1 – 5

WX/β SERIES

Outstanding Water-Cooled Robotic Torches

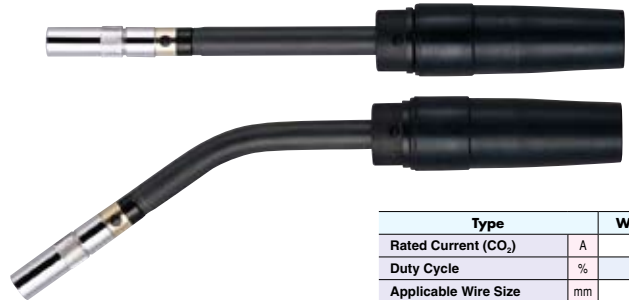
WX500S/R



Water-Cooled 500A Standard Type

Type		WX500S/R
Rated Current (CO ₂)	A	500
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

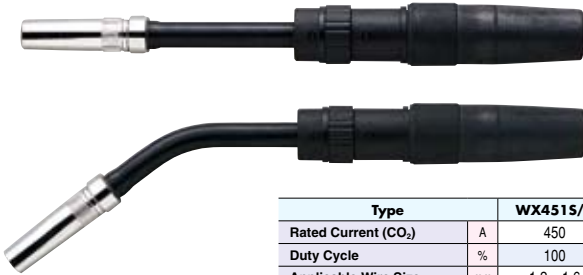
WX400S/R



100% duty cycle at 400A
Use of replacement parts for 350A Type.

Type		WX400S/R
Rated Current (CO ₂)	A	400
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.4
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

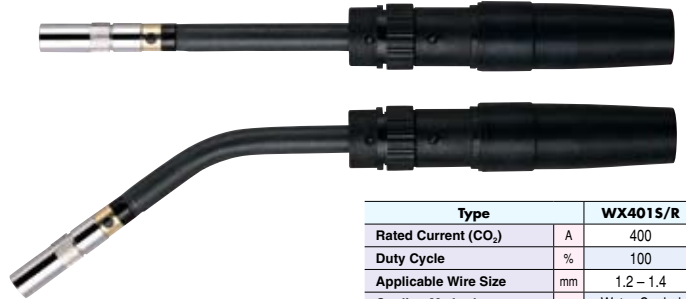
WX451S/R



100% duty cycle at 450A with the separable torch body and cable assemblies.

Type		WX451S/R
Rated Current (CO ₂)	A	450
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

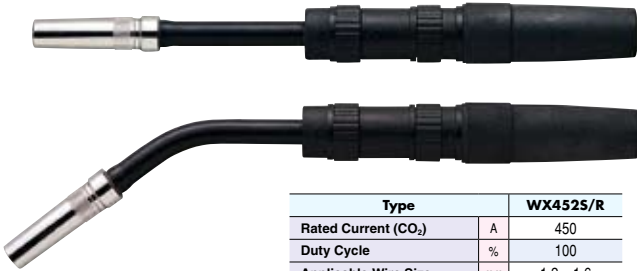
WX401S/R



Developed by WX-400. Torch body assembly is separable from cable assembly.

Type		WX401S/R
Rated Current (CO ₂)	A	400
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.4
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

WX452S/R



100% duty cycle at 450A with the separable torch body, clamp and cable assemblies.

Type		WX452S/R
Rated Current (CO ₂)	A	450
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

WX402S/R



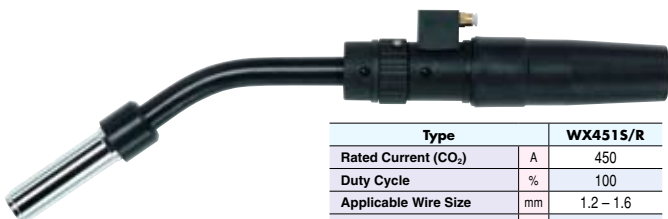
Developed by WX-400 and separated into three assemblies, torch body, clamp, and cable.

Type		WX402S/R
Rated Current (CO ₂)	A	400
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.4
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

WX451S Water-Cooled Nozzle



WX451R Water-Cooled Nozzle with Wire Clamp



Type		WX451S/R
Rated Current (CO ₂)	A	450
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

Water-Cooled Nozzle features effects of minimizing spatter build-up and increasing the durability of contact tip.

β-600W

Designed for continuous heavy duty applications

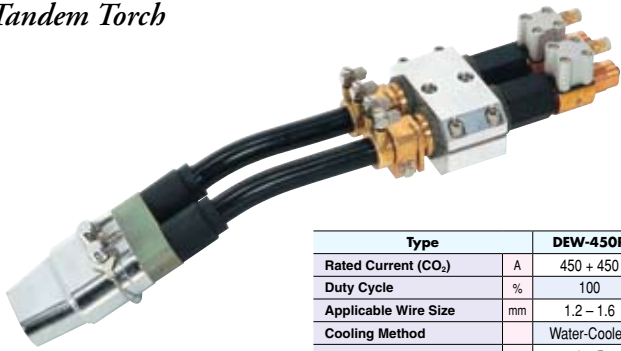


Type		β-600W
Rated Current (CO ₂)	A	600
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

Cooling effect produced by the unique design of water channels achieves 100% duty cycle at 600A.

DEW-450R

Tandem Torch

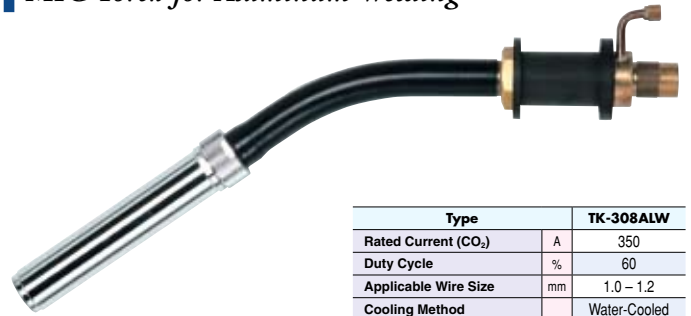


Type		DEW-450R
Rated Current (CO ₂)	A	450 + 450
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

Special torch designed to provide high speed and high deposit applications.

TK-308ALW

MIG Torch for Aluminum Welding



Type		TK-308ALW
Rated Current (CO ₂)	A	350
Duty Cycle	%	60
Applicable Wire Size	mm	1.0 – 1.2
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

External water inlet and outlet enables easy maintenance. Unique designed tip body provides stable gas shielding.

AUTOMATIC TORCHES

A-350S



A-350R



D-350S



D-350R



TK-350ANS



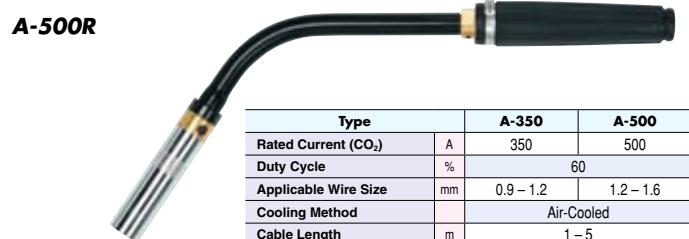
TK-350ATS



A-500S



A-500R



Type		A-350	A-500
Rated Current (CO ₂)	A	350	500
Duty Cycle	%	60	
Applicable Wire Size	mm	0.9 – 1.2	1.2 – 1.6
Cooling Method		Air-Cooled	
Cable Length	m	1 – 5	

D-500S

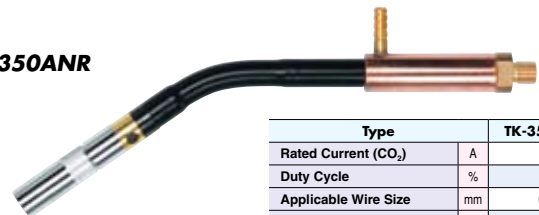


D-500R



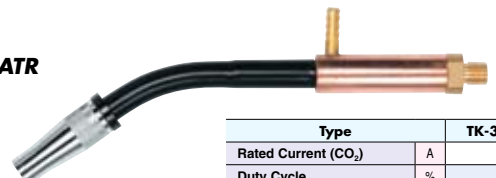
Type		D-350	D-500
Rated Current (CO ₂)	A	350	500
Duty Cycle	%	60	
Applicable Wire Size	mm	0.9 – 1.2	1.2 – 1.6
Cooling Method		Air-Cooled	
Cable Length	m	1 – 5	

TK-350ANR



Type		TK-350ANS/ANR
Rated Current (CO ₂)	A	350
Duty Cycle	%	80
Applicable Wire Size	mm	0.9 – 1.6
Cooling Method		Air-Cooled

TK-350ATR



Type		TK-350ATS/ATR
Rated Current (CO ₂)	A	350
Duty Cycle	%	80
Applicable Wire Size	mm	0.9 – 1.6
Cooling Method		Air-Cooled

ROBOTIC TIG SERIES

Robotic TIG Torches

TA-125HA



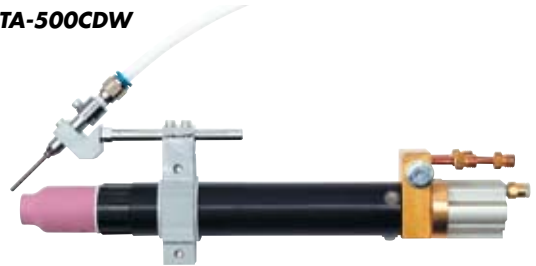
TA-301HW



TA-301CDW



TA-500CDW



Type		TA-125HA	TA-200HA/CDA	TA-301HW/CDW	TA-500HW/CDW
Rated Current (CO ₂)	A	125	200	300	500
Duty Cycle	%	60	60	100	100
Applicable Wire Size	mm	1.6, 2.4	1.6 – 3.2	2.4, 3.2	3.2 – 4.8
Cooling Method		Air-Cooled	Air-Cooled	Water-Cooled	Water-Cooled
Cable Length	m	6, 8	6, 8	6, 8	6, 8
Cylinder		–	– / Double-Acting Type	– / Double-Acting Type	– / Double-Acting Type

Note: Water-cooled P/C type and cabtyre cable type are available for TA-301 and TA-500.

AUTOMATIC TIG SERIES

TIG Torches for Automatic Welding System

TA-23A



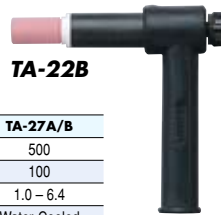
TA-22A



TA-27B



TA-22B



TA-27A



Type		TA-23A	TA-22A/B	TA-27A/B
Rated Current (CO ₂)	A	125	250	500
Duty Cycle	%	60	100	100
Applicable Wire Size	mm	0.5 – 3.2	0.5 – 3.2	1.0 – 6.4
Cooling Method		Air-Cooled	Water-Cooled	Water-Cooled
Cable Length	m	4, 8	3.8, 7.6	3.8, 7.6

ROBOTIC PERIPHERALS

SERVO TORCH



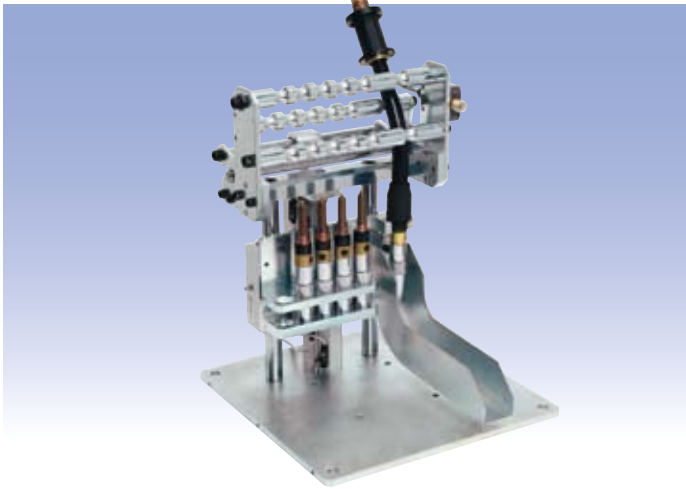
High speed stable wire feeding for small gauge wires and aluminum wires.

SERVO FEEDER UNIT



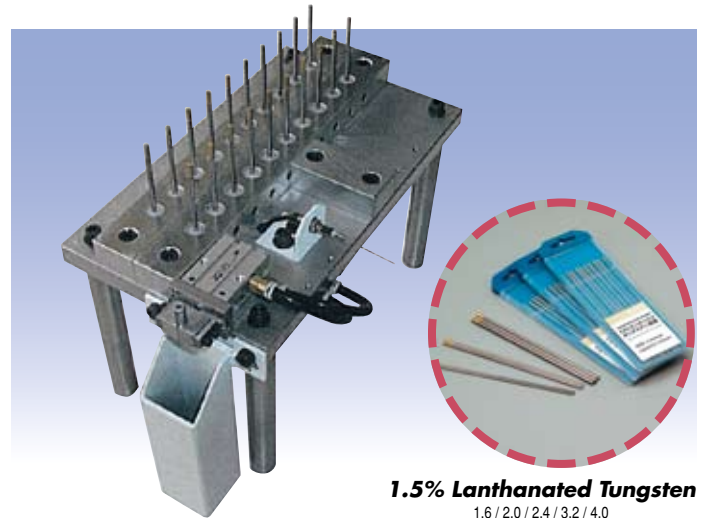
Compact Wire Feeder Unit with 100W Servo Motor designed for Plasma and Laser welding.

APC – AUTO PARTS CHANGER –



Consumable parts unit on the tip body can be replaced by a single touch operation.

TUNGSTEN CHANGER



1.5% Lanthanated Tungsten
1.6 / 2.0 / 2.4 / 3.2 / 4.0

Enables robotic auto-change of tungsten electrodes in combination with Tokin cylinder TIG torch.

(TA-200CDA/TA-301CDW/TA-500CDW)

NOZZLE CLEANER



Easy installation provided by a simple structure of air piping drive force. Various cleaning heads are available for different nozzle sizes.

AIR BLOW UNIT



Designed for spatter removal of inside of nozzles and cooling effect of nozzles and tips. The unit can be mounted on existing torches listed below.

(TK-308RR/ACC-308RR/ACC-352/RT352/RR308Y/DT-RA/MAN-308RR)

WIRE CLAMP UNIT

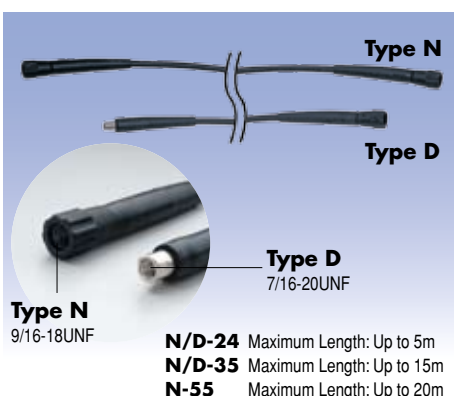


Wire Clamp Unit retains the wire stick-out for accurate touch sensing. The unit can be mounted on existing torches listed below.

(TK-308RR/ACC-308RR/ACC-352/RT352/RR308Y/DT-RA/MAN-308RR)

FLEXIBLE CONDUIT CABLES

Flexible Conduits N/D



Type N
9/16-18UNF

Type D
7/16-20UNF

N/D-24 Maximum Length: Up to 5m
N/D-35 Maximum Length: Up to 15m
N-55 Maximum Length: Up to 20m

Simplified Flexible Conduit



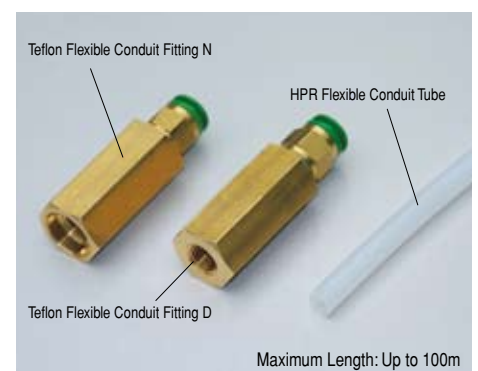
Simplified Flexible Conduit Fitting N

Hose for Simplified Flexible Conduit

Simplified Flexible Conduit Fitting D

Coil for Simplified Flexible Conduit
Maximum Length: Up to 20m

Teflon Flexible Conduit



Teflon Flexible Conduit Fitting N

HPR Flexible Conduit Tube

Teflon Flexible Conduit Fitting D

Maximum Length: Up to 100m

WF SERIES

Fume Extractors

WF-800 · 900



Photo:WF-800

WF-801 · 901



Photo:WF-801



Unique mechanism capturing spatters, called Spatter-Trap, reduces the possibility of cause of fire.

WF-180



WF-120



Type	WF-800/801	WF-900/901	WF-300
Rated Input Voltage	200V (3 phase)	200V (3 phase)	200V (3 phase)
Motor Power	2.3kW	3.8kW	0.75kW
Maximum Air Flow	33m ³ /min	55m ³ /min	8m ³ /min
Maximum Pressure	2.65kpa	3.43kpa	2.16kpa
Filter	3	5	1
Noise Level	68dB(A)	73dB(A)	75dB(A)
Weight	200kg	250kg	64kg
Dimensions	H1,645xW767xL730(mm)	H1,740xW900xL880(mm)	H1,060xW490xL600(mm)

Eliminate the hazardous welding fume at welding point.
Recommended to be used with a fume extractor torch.

Type	WF-180	WF-120
Rated Input Voltage	200V (3 phase)	200V
Maximum Air Flow	3.1m ³ /min	3.0m ³ /min
Maximum Pressure	23.5kpa	21.6kpa
Rated Current	5.0A	5.3A
Maximum Output	1,000W	1,000W
Filter	1	Small Filter x 1
Noise Level	75dB(A)	75dB(A)
Weight	80kg	30kg
Dimensions	H1,000xW360xL660(mm)	H550xW300xL583(mm)

ROBOTIC FUME EXTRACTOR TORCHES

FUME EXTRACTOR TORCHES



F-308RR



WXF-500R



CF-27J



CF-37J

Suction Nozzle φ26



CF-37J

Suction Nozzle φ30



CFL-20

Suction Unit



CFL-35

Suction Unit

PLASMA / LASER PARTS



OPTICS



REPLACEMENT PARTS

Various Selections for Customers' Needs



TEACHING TIP



BUTT WELDER



OTHER PRODUCTS



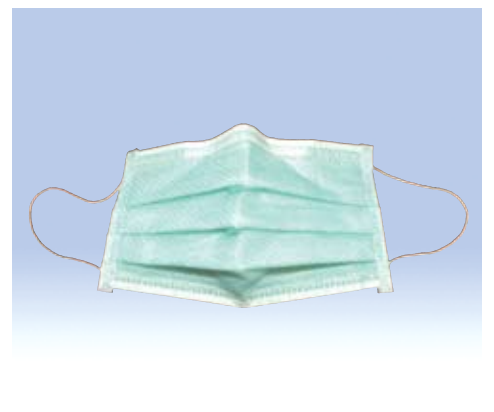
Pack-wire Pulling Apparatus
047801



Flexible Cable Support
047805



Pack-wire Pulling Tool
047800



Fume Guard
046001

TOKINARC®



Semi-Automatic Torches



Air-Cooled Robotic Torches



Water-Cooled Robotic Torches



TIG Torches



Replacement Parts



Fume Extractors



Plasma-Laser



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