

TOKINARC®

A robotic arm, primarily white with black and gold accents, is shown holding a welding torch. The torch has a black cable and a silver nozzle. The background is a blurred blue grid pattern with some light bokeh effects. The company name 'TOKINARC' is prominently displayed in large, metallic, 3D letters across the center of the image.

Semi-Automatic Torches

TIG Torches

Air-Cooled Robotic Torches

Water-Cooled Robotic Torches

Automatic Torches

Automatic TIG Torches

Robotic Peripherals

Fume Collectors

Plasma Laser Parts Optics

CS SERIES

Complete Basic Models



Type		CS-20MINI	CS-35MINI	CS-35MINI G	CS-25PRO	CS-35PRO	CS-45PRO	CS-50PRO	CS-55PRO	CS-35PROFLEX
Rated Current	A	200	350	350	250	350	450	500	550	350
Duty Cycle	%	40	30	30	70	70	70	70	70	70
Applicable Wire Size	mm	0.6 – 1.2	0.9 – 1.2	0.9 – 1.2	0.6 – 1.2	0.9 – 1.2	1.2 – 1.6	1.2 – 1.6	1.2 – 1.6	0.9 – 1.2
Cooling Method		Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Cable Length	m	3, 4	3, 4, 4.5, 5, 6	3, 4, 4.5, 5, 6	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	3, 4, 4.5, 5, 6
Total Weight (with 3m cable)	kg	1.9	2.1	2.1	2.3	2.4	3.0	3.6	3.7	2.4

CP/CSA/α

Special Torches Designed for Various Applications



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

REPLACEMENT PARTS

Various Selections for Customers' Needs



ADAPTER

Fit to Various Manufacturers' Wire Feeder



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



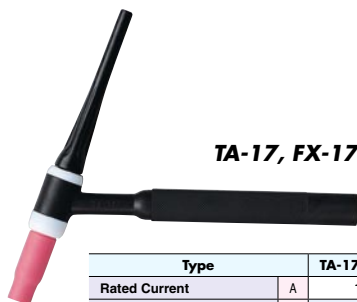
Type	TA-9, FX-9	TA-20
Rated Current	A 125	250
Applicable Tungsten Size	mm 0.5 – 2.4	0.5 – 3.2
Cooling Method	Air-Cooled	Water-Cooled
Weight (without P/C)	g 105	99

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



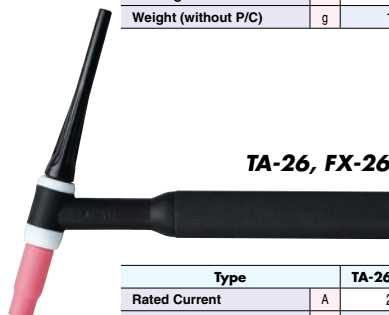
Type	TA-17P
Rated Current	A 150
Applicable Tungsten Size	mm 1.6 – 3.2
Cooling Method	Air-Cooled
Weight (without P/C)	g 192

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



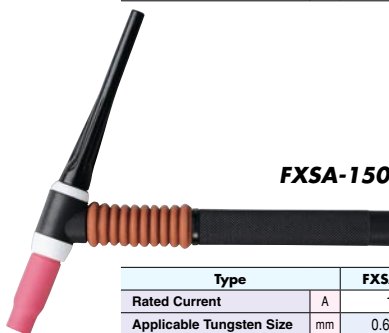
Type	TA-18
Rated Current	A 350
Applicable Tungsten Size	mm 1.6 – 4.0
Cooling Method	Water-Cooled
Weight (without P/C)	g 236

FX-25



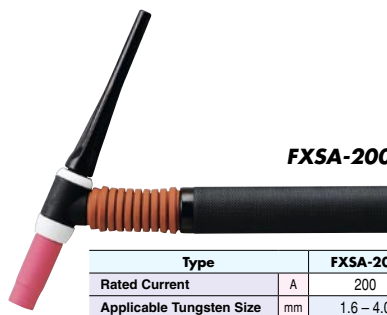
Type	FX-25
Rated Current	A 200
Applicable Tungsten Size	mm 0.5 – 2.4
Cooling Method	Water-Cooled
Weight (without P/C)	g 160

FXSA-150



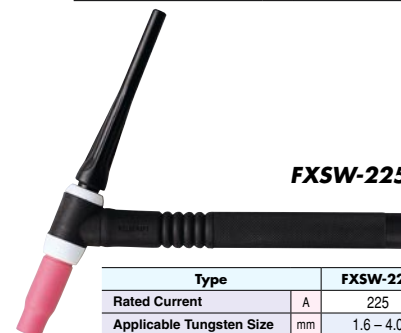
Type	FXSA-150
Rated Current	A 150
Applicable Tungsten Size	mm 0.6 – 4.0
Cooling Method	Air-Cooled
Weight (without P/C)	g 192

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

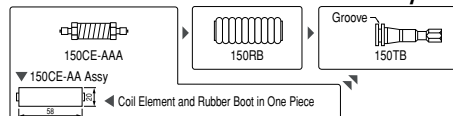


Type	FXSW-225
Rated Current	A 225
Applicable Tungsten Size	mm 1.6 – 4.0
Cooling Method	Water-Cooled
Weight (without P/C)	g 236

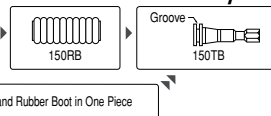
Head



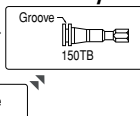
Coil Element



Rubber Boot



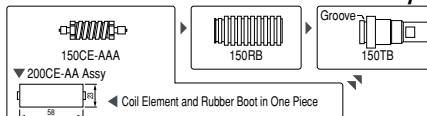
Torch Body



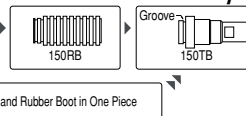
Head



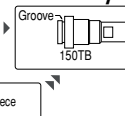
Coil Element



Rubber Boot



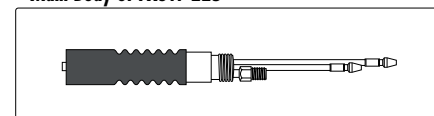
Torch Body



Head



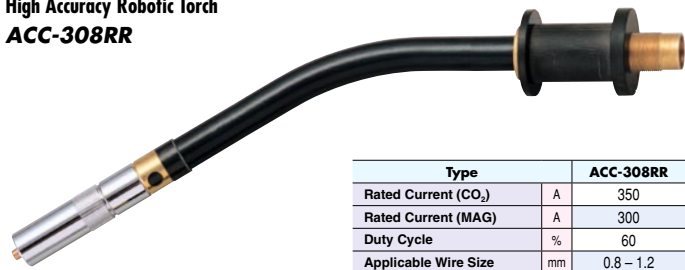
Main Body of FXSW-225



ACC/TK SERIES

Advanced Robotic Torches

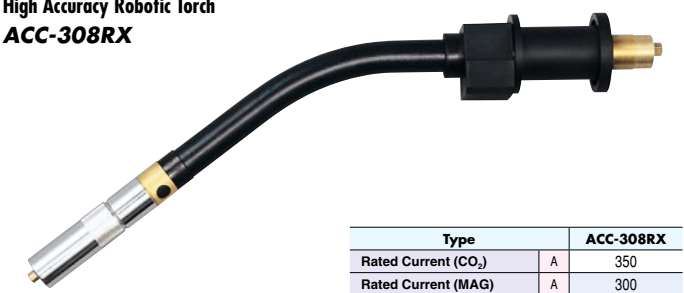
High Accuracy Robotic Torch
ACC-308RR



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

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

High Accuracy Robotic Torch
ACC-308RX



Replaceable Type of ACC-308RR

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

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



TK-308RS



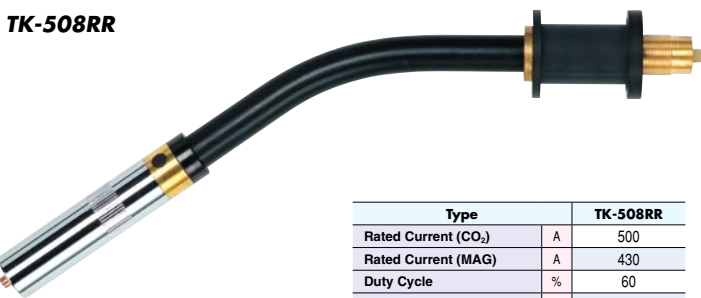
Type	TK-308RR/S	
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	0.8 – 5

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

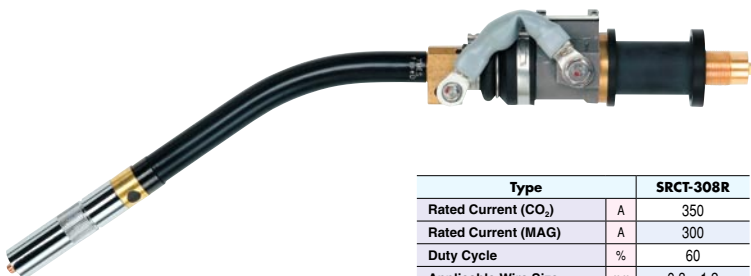
TK-508RR



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

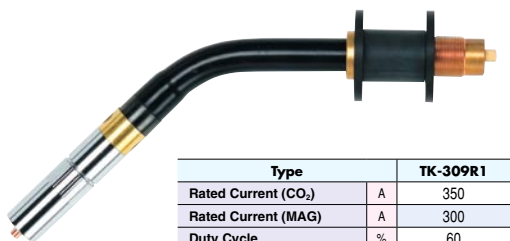
Air-Cooled 500A Standard Type

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

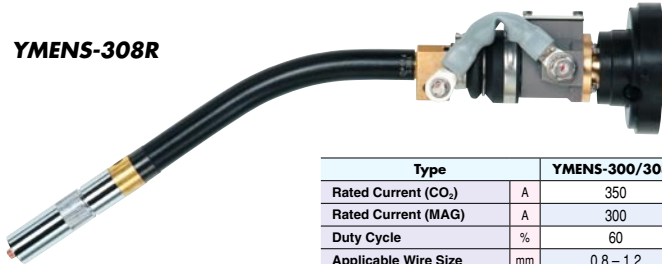
Built-in Shock Sensor Type of TK-308RR
Without loosing a control point, the torch (TK-308RR) is replaceable.

MOTOMAN-EA SERIES

YMENS-300R



YMENS-308R

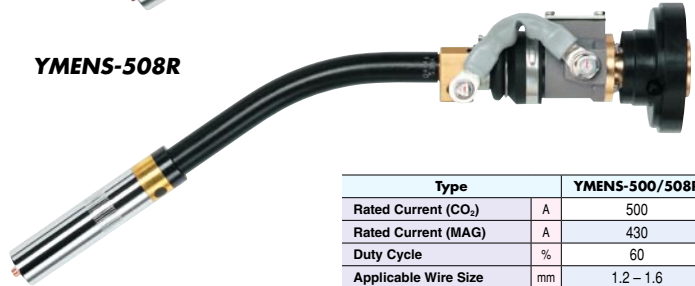


Type		YMENS-300/308R
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled

YMENS-500R

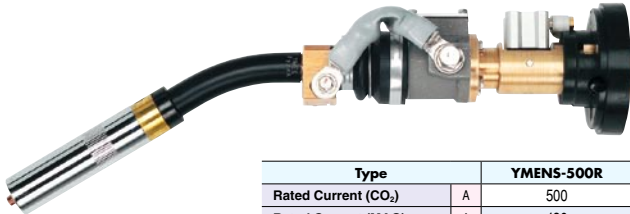


YMENS-508R



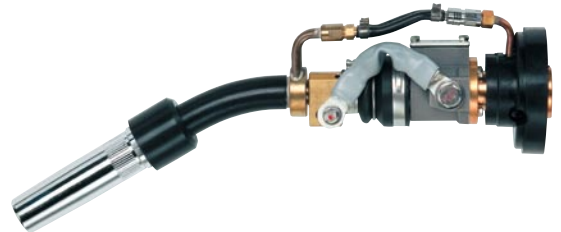
Type		YMENS-500/508R
Rated Current (CO ₂)	A	500
Rated Current (MAG)	A	430
Duty Cycle	%	60
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Air-Cooled

YMENS-500R With Wire Clamp

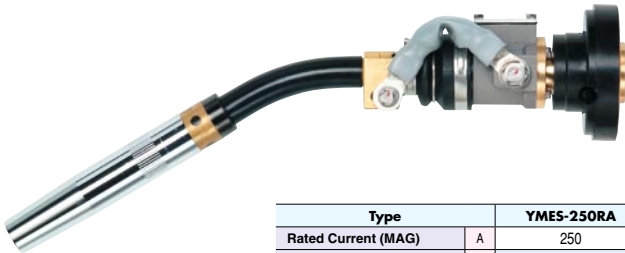


Type		YMENS-500R
Rated Current (CO ₂)	A	500
Rated Current (MAG)	A	430
Duty Cycle	%	60
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Air-Cooled

YMES-500W



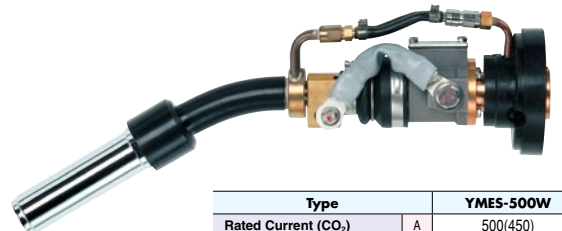
YMES-250RA



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

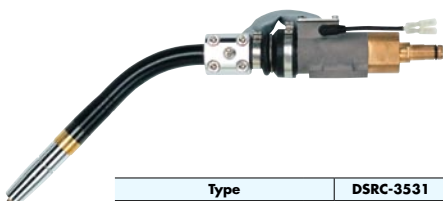


Type		YMES-500W
Rated Current (CO ₂)	A	500(450)
Rated Current (MAG)	A	430(380)
Duty Cycle	%	80(100)
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled

Water-Cooled Torch for EA Series

ROBOTIC TORCHES FOR OTHERS

DSRC-3531



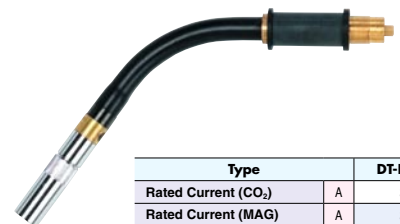
Type		DSRC-3531
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	250
Duty Cycle	%	50
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	1 – 5

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

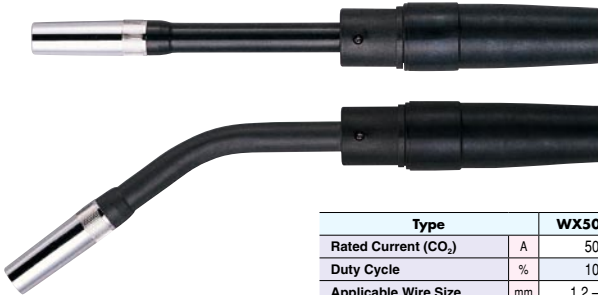


Type		DT-RA352
Rated Current (CO ₂)	A	350
Rated Current (MAG)	A	300
Duty Cycle	%	60
Applicable Wire Size	mm	0.8 – 1.2
Cooling Method		Air-Cooled
Cable Length	m	1 – 5

WX/β SERIES

Outstanding Water-Cooled Robotic Torches

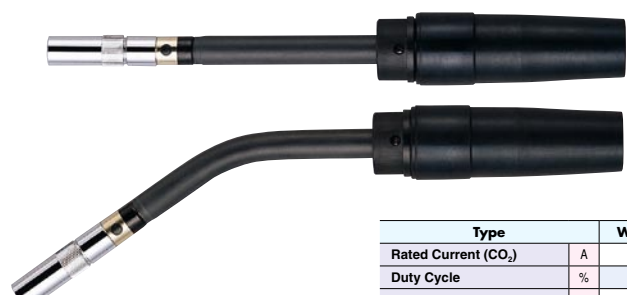
WX500S/R



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

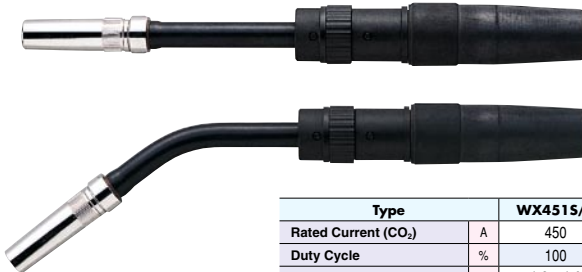
WX400S/R



100% duty cycle at 450A
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

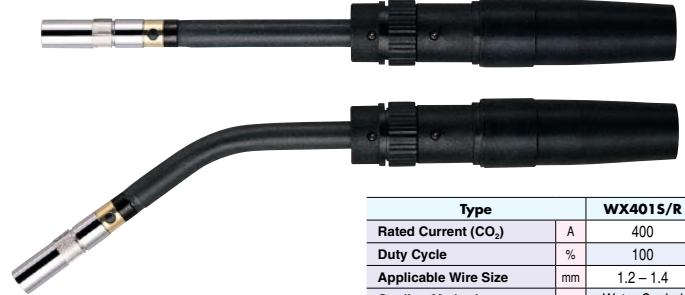
WX451S/R



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

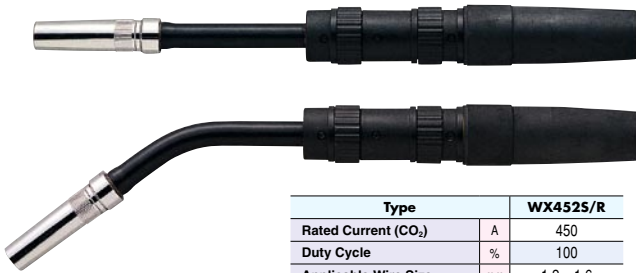
WX401S/R



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

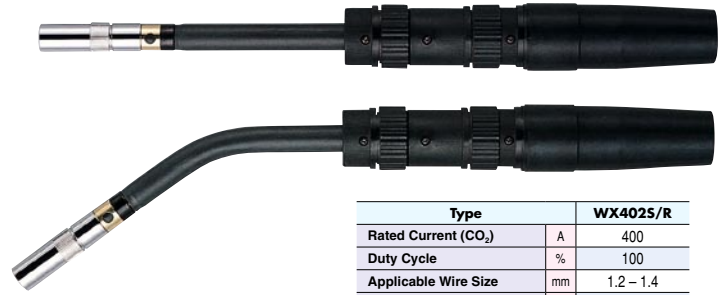
WX452S/R



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



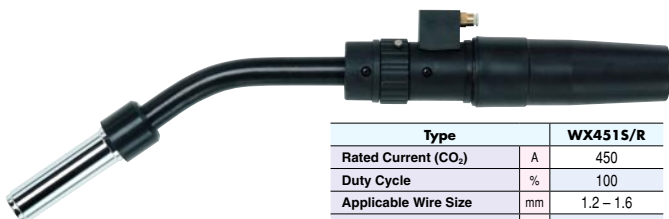
Developed by WX-400 and separated into three assemblies, torch body, clamp, and cable.

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

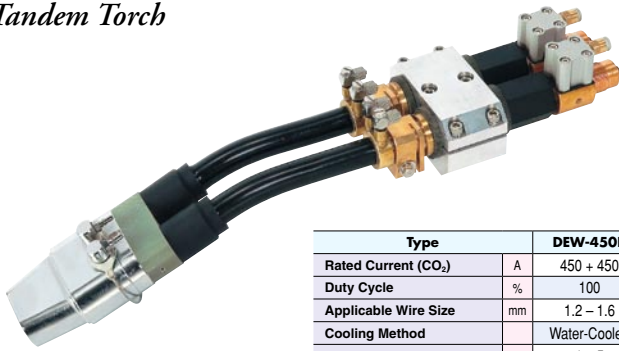


Type	β-600W	
Rated Current (CO ₂)	A	600
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

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

DEW-450R

Tandem Torch

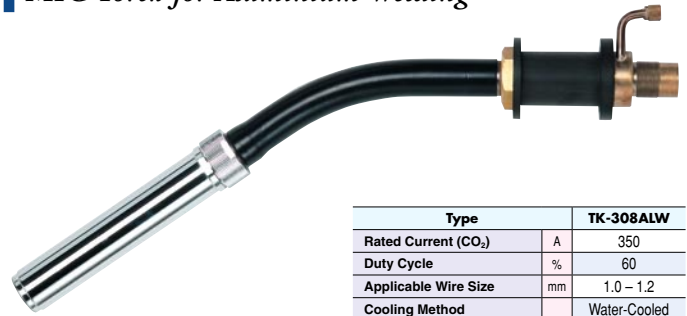


Type	DEW-450R	
Rated Current (CO ₂)	A	450 + 450
Duty Cycle	%	100
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method	Water-Cooled	
Cable Length	m	1 – 5

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

TK-308ALW

MIG Torch for Aluminium 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 replacement. Unique designed tip body provides stable gas shielding.

AUTOMATIC TORCHES

A-350S



A-350R



D-350S



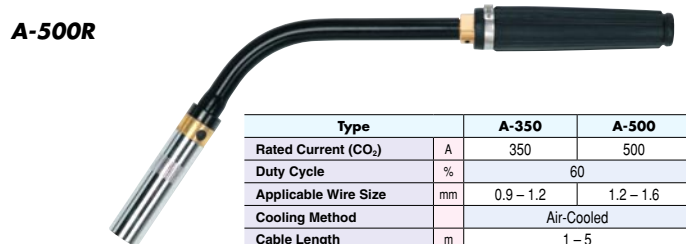
D-350R



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

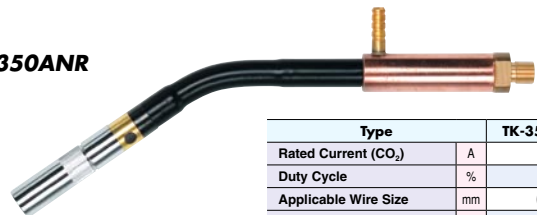


Type	D-350		D-500
Rated Current (CO ₂)	A	350	500
Duty Cycle	%	60	
Applicable Wire Size	mm	0.9 – 1.2	1.2 – 1.6
Cooling Method	Air-Cooled		
Cable Length	m	1 – 5	

TK-350ANS



TK-350ANR

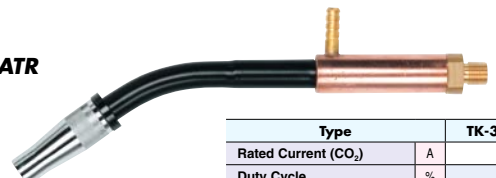


Type	TK-350ANS/ANR	
Rated Current (CO ₂)	A	350
Duty Cycle	%	80
Applicable Wire Size	mm	0.9 – 1.6
Cooling Method	Air-Cooled	

TK-350ATS



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

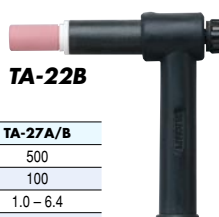
TA-23A



TA-22A



TA-22B



TA-27B



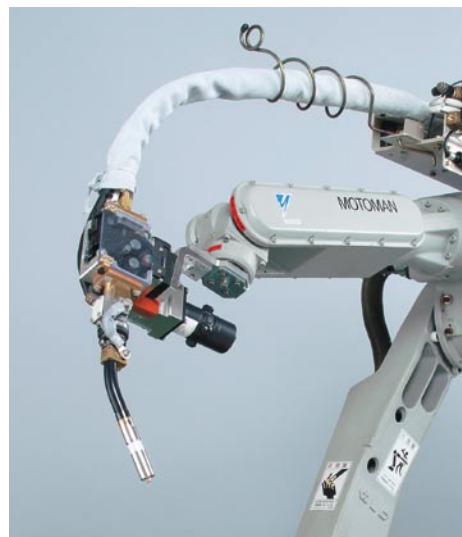
TA-27A



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



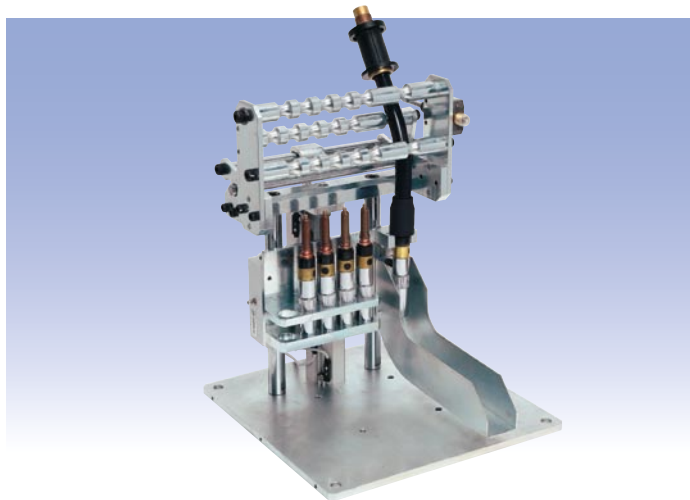
High speed stable wire feeding for small gauge wires and aluminum wires.

SERVO FEEDER UNIT



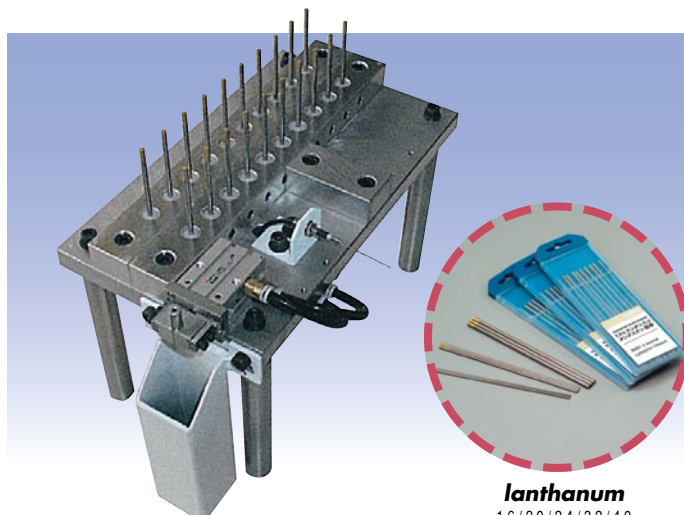
The Compact Wire Feeder Unit with a 100W servo motor designed for Plasma and Laser welding.

APC – AUTO PARTS CHANGER –



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

TUNGSTEN CHANGER



lanthanum
1.6 / 2.0 / 2.4 / 3.2 / 4.0

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

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

NOZZLE CLEANER



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

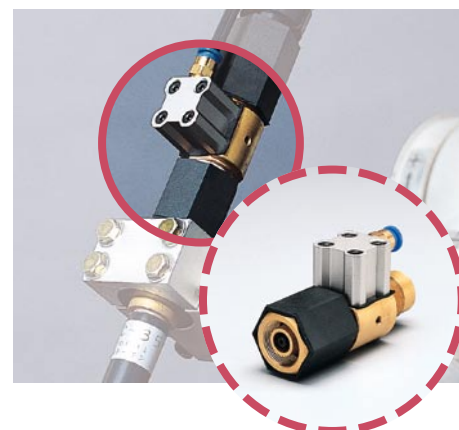
AIR BLOW UNIT



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

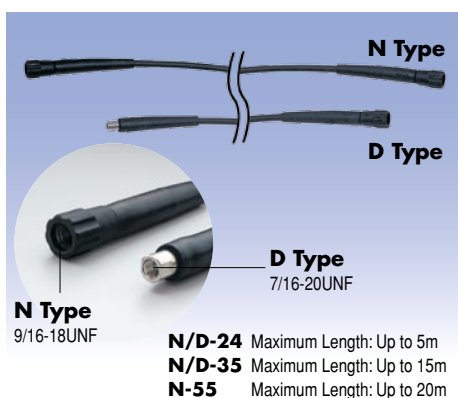


This unit can retain contact tip-to-work distance to detect the workpiece. The unit can be mounted on existing torches listed below.

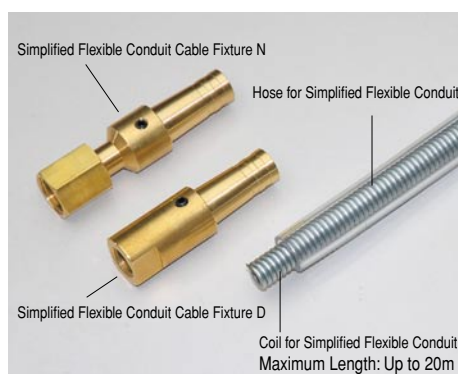
(TK-308RR/ACC-308RR/ACC-352/RT352/RR308Y/DT-RA/MAN-308RR)

FLEXIBLE CONDUIT CABLES

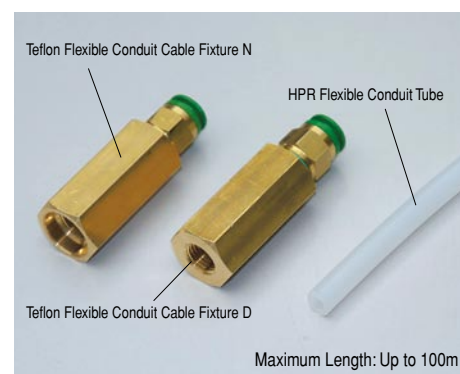
N/D Flexible Conduit Cables



Simplified Flexible Conduit Cables



Teflon Flexible Conduit Cables



WF SERIES
Fume Collectors

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	33m³/min	55m³/min	8m³/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	H1,645×W767×L730(mm)	H1,740×W900×L880(mm)	H1,060×W490×L600(mm)

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

Type	WF-180	WF-120
Rated Input Voltage	200V (3 phase)	200V
Maximum Air Flow	3.1m³/min	3.0m³/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	H1,000×W360×L660(mm)	H550×W300×L583(mm)

ROBOTIC FUME COLLECTOR TORCHES

FUME COLLECTOR TORCHES



F-308RR



WXF-500R



CF-27J



CF-37J
Suction Nozzle φ26



CF-37J
Suction Nozzle φ30



CF-20MINI
Suction Unit



CF-35MINI
Suction Unit

PLASMA LASER PARTS



OPTICS



OTHER PRODUCTS



Back-wire Pulling Apparatus



Back-wire Pulling Tool



Butt Welder

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