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TL/CSH SERIES

Basic Models



Туре		TL-20/TL-20F TL-20L	TL-35/TL-35K TL-35F/TL-35G	CSH-35/CSH-35K CSH-35F/CSH-35L CSH-35G	CSH-50 CSH-50L
Rated Current	Α	200	350	350	500
Duty Cycle	%(CO2)	40	35	60	60
Duty Cycle	%(MAG)	20	20	35	35
Applicable Wire Diameter	mm	(0.6, 0.8, 0.9, 1.0)1.2	(0.8, 0.9, 1.0)1.2	(0.9, 1.0, 1.4)1.2	(1.2, 1.4)1.6
Cooling Method		Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Cable Length	m	3/4	3 / 4.5 / 6	3/4.5/6	3 / 4.5 / 6
Working weight	kg	0.65	1.0	1.1-1.2	1.7
Total Weight (when cable length is 3m)	kg	1.9	2.3	2.4-2.5	3.6

TLA/CSHA SERIES

Ultralight Aluminum Models



Туре		TLA-20	TLA-35	CSHA-35	CSHA-40	CSHA-50
Rated Current	А	200	350	350	400	500
Destre Consta	%(CO2)	40	35	50	50	40
Duty Cycle	%(MAG)	20	20	35	35	30
Applicable Wire Diameter	mm	(0.6, 0.8, 0.9, 1.0)1.2	(0.8, 0.9, 1.0)1.2	(0.9, 1.0)1.2	1.2(1.4)	(1.2, 1.4)1.6
Cooling Method		Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled	Air-Cooled
Cable Length	m	3/4	3 / 4.5 / 6	3 / 4.5 / 6	3 / 4.5 / 6	3 / 4.5 / 6
Working weight	kg	0.35	0.56	0.6	0.82	0.85



CSA/CSH-50W/CSH-50/CSH-45-NOG



Туре		CSA-252	CSH-50WX	CSH-50	CSH-45-NOG
Rated Current	Α	250(MIG)	500	500	450
Duty Cycle	%	70(MIG)	60(MAG)/100(CO ₂)	35(MAG)/60(CO ₂)	60
Applicable Wire Size	mm	(1.0)1.2	1.2, 1.4, 1.6	(1.2, 1.4)1.6	1.2, 1.6, 2.0, 2.4
Cooling Method		Air-Cooled	Water-Cooled	Air-Cooled	Air-Cooled
Cable Length	m	3	3, 4, 5	3	3
Working weight	kg	-	-	1.8	1.4
Total Weight (with 3m cable)	kg	3.2	3	3.5	3.3



Reliable recovery to welding point

Arc Welding Robotic Torch

TR-308R TR-300R

Features:

- Equipped with "TR SENSOR", a high precision shock sensor
- Can be mounted to various series of robot
 - · Yaskawa Electric AR Series To use it on a robot before MA1440, contact us beforehand.
 - · To use it on a robot made by other manufacturers, contact us beforehand.

Specification

Air-Cooled Robotic Torch

Rated Current: 350Amp. (CO₂) Rated Current: 300Amp. (MAG)

Duty Cycle: 60%

Applicable Wire Diameter: 0.8 - 1.2 mm

Cooling Method: Air-Cooled

Extended life of torch cable

- Improved cable surface and Reduced deterioration from ultraviolet rays.
- Improved cable resistance and reduced wear in robot welding.

ROBOTIC TORCHES FOR MOTOMAN

for Motoman MA / AR Robot

Type MA (with an internally mounted torch cable)









YMSA-250RA

Air-Cooled

Туре

Cooling Method



YMSA-500W Water-Cooled

Туре		YMSA-500W
Rated Current (CO ₂)	Α	500
Rated Current (MAG)	Α	400
Duty Cycle	%	80
Applicable Wire Size	mm	1.2 – 1.6
Cooling Method		Water-Cooled

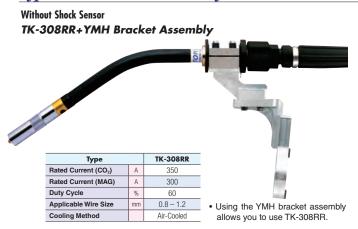
*Nozzle 16mm and Wire 1.6mm (available for other options, ask sales)

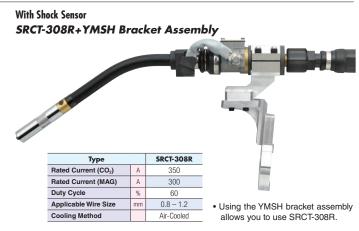


ROBOTIC TORCHES FOR MOTOMAN

for Motoman MA / AR Robot

Type MH (with an externally mounted torch cable)





ACC/TK SERIES

racy shortens the

torch replacement

time!

High Advanced Robotic Torches

Cooling Method

Cable Length

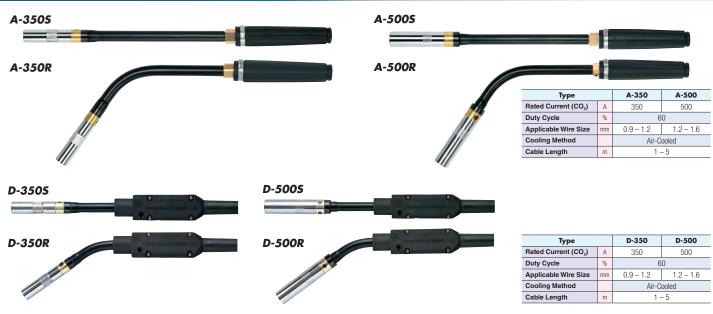


AUTOMATIC TORCHES

Air-Cooled

0.8 – 5

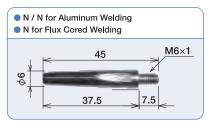
TOKINARC

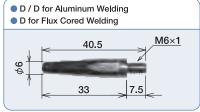


TOKINARC®

N/D TIP

- CuCrZr
- Suitable for both Semi-Automatic & Robotic Welding





Туре	Size	Tokin Part No.	P Part No.	D Part No.
	0.6	002016	TET00601S TET00624	_
	0.8	002005	TET00841 TET00842	K980C02 K980C23 L7250C01
	0.9	002001	TET00958 TET00942 TET00959	K980C03 K980C24 L7250C02
N	1.0	002002	TET01067 TET01055 TET01068	K980C04 K980C25 L7250C03
	1.2	002003	TET01296 TET12005 TET01248 TET01297 TET12003	K980C05 K980C26 L7250C04
	1.4	002017	TET01447 TET01426 TET01448	K980C06 K980C27 L7250C05
	1.6	002004	TET01691 TET01669 TET01692	K980C07 K980C28 L7250C06
	2.0	002020	TET02047	_

Туре	Size	Tokin Part No.	P Part No.	D Part No.
Турс	0.6	023040	TET00625	——————————————————————————————————————
	0.8	023007	TET00843 TET00844	K980B90 K980C29 L7250B01
	0.9	023008	TET00962 TET00944 TET00963	K980B91 K980C30 L7250B02
D	1.0	023009	TET01071 TET01057 TET01072	K980B92 K980C31 L7250B03
	1.2	023010	TET12007 TET12008 TET01265 TET12010 TET12011	K980B93 K980C32 L7250B04
	1.4	023041	TET01451 TET01435 TET01452	K980B94 K980C33 L7250B05
	1.6	023011	TET01695 TET01678 TET01696	K980B95 K980C34 L7250B06

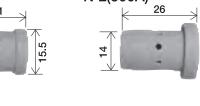
REPLACEMENT PARTS

Various Selections for Customers' Needs



ORIFICE





N L(500A)



Туре	Size	Tokin Part No.	P Part No.	D Part No.
N350A	S	003002	TGR01001	U4167G02
N500A	L	003001	TGR00902	U4173G02
D350A	S	023014	_	U2437H01

INSULATOR





D S(350A)		
` k	38	\Rightarrow
14.5		2

Туре	Size	Tokin Part No.	P Part No.	D Part No.
N350A	S	004002	TFZ35101	U4167L00
N500A	L	004001	TFZ50107	U4173L00
D350A	S	023015	_	U608T00



Bore: φ19

Bore: ϕ 16

Bore: φ 13

Bore: φ19

Bore: φ16

 ϕ 25

 ϕ 25

 ϕ 25

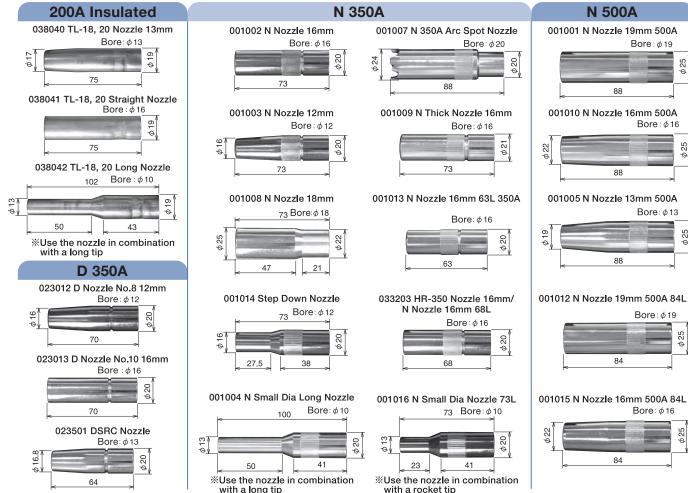
N 500A

88

88

84

NOZZLE



-	with a lor	ng tip		W	ith a rocket tip		
	Nozzle	Size			Part No.		
Туре	Description	ID	OD	Length	Tokin	P Part No.	D Part No.
180A	TL-18, 20 Nozzle 13mm	13	17	75	038040	TGN01208	U4186L00 U5342N00
200A	TL-18, 20 Straight Nozzle	16	19	75	038041	TGN01506	U4186P00 U5342P00
Insulated	TL-18, 20 Long Nozzle	10	13	102	038042	TGN01026	U4186R00
	N Nozzle 16mm	16	20	73	001002	TGN00043	U4167G01
	N Nozzle 12mm	12	16	73	001003	TGN00044	U4167H01
	N Nozzle 18mm	18	25	73	001008	TGN00111	U4167H02
	Step Down Nozzle	12	16	73	001014	TGN00105	_
N 350A	N Small Dia Long Nozzle	10	13	100	001004	TGN01001	U4167H04
N 350A	N 350A Arc Spot Nozzle	20	24	88	001007	TGN02001	U4167H03
	N Thick Nozzle	16	21	73	001009	TGN00038	U4167H16
	N Nozzle 16mm 63L 350A	16	20	63	001013	TGN01663	_
	HR-350Nozzle 16mm/ N Nozzle 16mm 68L	16	20	68	033203	_	-
	N Small Dia Nozzle 73L	10	13	73	001016	_	_
	D Nozzle No.8 12mm	12	16	70	023012	_	U608N01
D 350A	D Nozzle No.10 16mm	16	20	70	023013	-	U608N02 U2437J04
	DSRC Nozzle	13	16.8	64	023501	_	L6380F03
	N Nozzle 19mm 500A	19	25	88	001001	TGN00055	U4173G01
	N Nozzle 16mm 500A	16	22	88	001010	TGN00057	U4173H01
N 500A	N Nozzle 13mm 500A	13	19	88	001005	TGN00064	-
	N Nozzle 19mm 500A 84L	19	25	84	001012	TGN00050 TGN00056	_
	N Nozzle 16mm 500A 84L	16	22	84	001015	TGN00058 TGN00065	-



WX SERIES

The ultimate in water-cooled robotic torches

WX7025





1 - 5

Туре		WX7025/R
Rated Current (CO ₂)	Α	700
Rated Current (MAG)	Α	600
Duty Cyclet (CO ₂)	%	80
Duty Cycle(MAG)	%	80
Applicable Wire Size	mm	1.4 – 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

WX5005





Cable Length

Water-Cooled 500A Standard Type

WX450S



Туре		WX450S/R
Rated Current (CO ₂)	Α	500
Duty Cycle	%	80
Applicable Wire Size	mm	1.2 - 1.6
Cooling Method		Water-Cooled
Cable Length	m	1 – 5

WX451S





• Can be separated into two assemblies: torch body and cable.

WX4525







• Can be separated into three assemblies: torch body, clamp and cable.

WX4515 Water-Cooled Nozzle





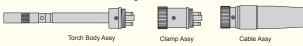
• Water-Cooled Nozzle reduces spatter build-up and increases the durability of contact tip.

WX Series Quick Detachable System

▼WX451S Detachable System



▼WX452S Detachable System



Benefits of WX Series Quick Detachable System

To replace a part in ordinary systems, you have to remove the entire torch from the robot. However, on our Quick Detachable System you only remove the section containing the part you want to replace.











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

teaching point.

Can be replaced without altering the TK-308RR teaching point.

Thermo-chiller equipped coolant circulation system



- Equipped with high-head pump. Approximate discharge pressure of 0.4MPa.
- Temperature setting range between 5°C and 40°C (±0.1°C temperature stability)
- Operating conditions can be monitored from the digital display on the control panel
- Particle filter is provided at the return outlet of the circulating fluid, thus preventing problems caused by dirty circulating fluid
- · Equipped with heating function to prevent freezing
- Compact design allows installation in tight space

Туре	WR-200TC
Supply voltage	AC200V(single phase)
Frequency	50/60Hz
Power consumption	1.1/1.4KVA
Discharge pressure	0.4MPa
Discharge flow rate (* 1)	2.1-2.2L/min
Cooling capacity	1700/1900W
Tank capacity	Approx. 5L
Unit Weight (* 2)	45kg
Exterior dimensions (W×D×H)	377×500(+280)×615
Flow rate (body only)	4.1~4.2L/min
Flow rate (torch head + hose 10m)	2.1~2.2L/min

(*1) With water-cooled torch connected: 60Hz (*2) Cooling water mass not included

Coolant circulation system

WS1700 (21118A)

Body Front



- Reviewing the basic design to achieve "simple, high performance, low price"
- Flow switch is standard equipment
- Large radiator with excellent heat dissipation and improved cooling efficiency

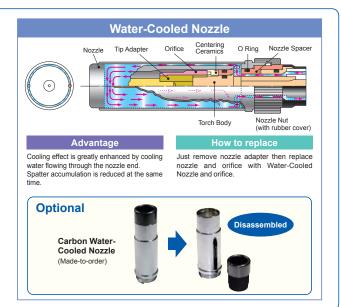
Туре	WS1700		
Supply voltage	Single phase AC200V ±10% 50/60Hz		
Power consumption	270W		
Discharge pressure	0.35MPa(60Hz)		
Discharge flow rate (* 1)	2.1 – 2.2 L/min		
Heat radiation	1.7 kW/min		
Flow rate switch	Flow switch included as standard (OFF signal when flow rate is below 0.3L/min)		
Tank capacity	9L		
External dimensions	W250×D570×H340(mm)		
Unit Weight (* 2)	15.5kg		
(4.4) 14.0			

(*1) When connecting a 10m water-cooled TIG torch

(*2) Cooling water mass not included

Water-Cooled Nozzle and Wire Clamp





Realizing high rigidity and high precision A high grade Collision sensor optimal for tough use environments

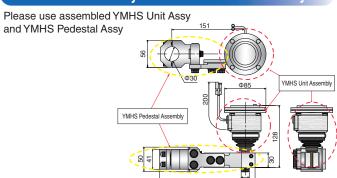
High Grade Collision Sensor

Features:

- Detects shocks from all directions.
- Despite its high rigidity, it is designed for optimal lost motion to alleviate torch deformation on impact and minimize damage to the robot.
- Impact detection of interference objects is set to an optimal sensitivity level in order to protect the robot; as such, it does not impede the robot's normal movements such as high-speed air cuts.
- Due to its highly rigid and high precision nature, it offers high duplicability, which shortens the recovery time following an impact.
- Because the torch clamp portion has been changed, it can use torches of varying diameters, such as for air-cooled or water-cooled applications. (*1)
- By replacing the flange portion, it can be used regardless of the type of robot (*2)
- *1 For use with a Tokin torch. (Contact us before using a torch made by another manufacturer.)
- *2 The standard specs are for the HP /MH series robots made by Yaskawa Electric. To use it on a robot made by other manufacturers, contact us beforehand. (At times, it might not be possible to mount it on a robot made by other manufacturers.)

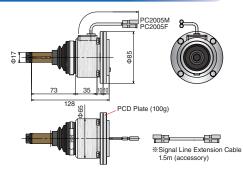
YMHS Unit Assembly YMHS Pedestal Assembly

YMHS Unit Assembly + YMHS Pedestal Assembly



YMHS unit Assembly YMHS00001 900g

The standard specs are for the HP/MH Robot series robots made by Yaskawa Electric.

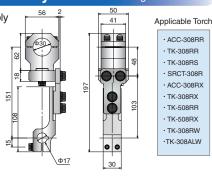


Other Robots can be used with an applicable PCD plate. (ask us for more information in case of using other Robots.)

YMHS unit Assembly YMHS00005 620g

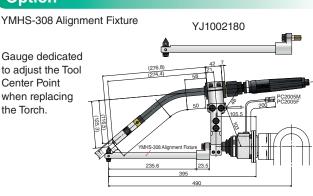
YMHS Pedestal Assembly for MH6·Φ30

For mounting Tokin308 (TK-308) Torch series. A torch with a clamp part of φ30 can be attached.



Gauge dedicated to adjust the Tool Center Point when replacing the Torch.

Option





TA/FX/FXS SERIES

Various Models for Specific Work Pieces



Туре		TA-9, FX-9	TA-20
Rated Current	Α	125	250
Applicable Tungsten Size	mm	0.5 - 2.4	0.5 – 3.2
Cooling Method		Air-Cooled	Water-Cooled
Cable Length	m	4, 8, 10, 15	3.8, 7.6



Туре		TA-24	TA-24W
Rated Current	Α	80	180
Applicable Tungsten Size	mm	0.5 - 1.6	0.5 – 2.4
Cooling Method		Air-Cooled	Water-Cooled
Cable Length	m	4, 8, 10, 15	3.8, 7.6



Туре		TA-280
Rated Current	Α	280
Applicable Tungsten Size	mm	0.5 - 3.2
Cooling Method		Water-Cooled
Cable Length	m	3.8, 7.6



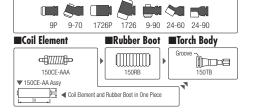
Туре		TA-9P	TA-20P
Rated Current	Α	125	225
Applicable Tungsten Size	mm	0.5 - 2.4	0.5 - 3.2
Cooling Method		Air-Cooled	Water-Cooled
Cable Length	m	4, 8, 10, 15	3.8. 7.6

TA-9P,20P



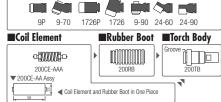














1726

9P 9-70 1726P

■Main Body of FXSW-225

9-90 24-60 24-90

FX-25

NEW ROBOTIC TIG TORCHES TA-203/TA-303 SERIES



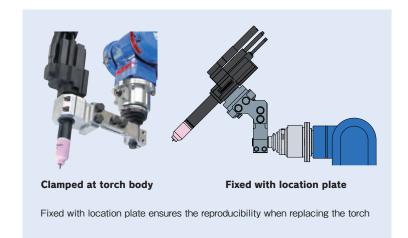
TA-203CDA (Long torch body)



TA-303CDW (Short torch body)

Features:

- Two types of mounting to the robot (refer to right)
- Specifications are easily interchangeable between TA-203CDA (Air Cooled) and TA-303CDW (Water Cooled)
- Two types of torch body length (long or short) available
- Complete insulation
- Reduce the time for tungsten electrode exchanges with built-in air cylinder.
 - * Each torch has compatible tip parts





TA-203CDA

Type		For robot welding
Rated Current	Α	200
Duty Cycle	%	60
Tungsten diameter	mm	1.6, 2.4, 3.2
Electrode chucking		Double acting air cylinder
Cooling Method		Air-Cooled
Cable Length	m	6,8

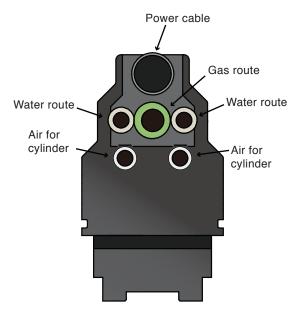
TA-303CDW

Type		For robot welding
Rated Current	Α	300
Duty Cycle	%	100
Tungsten diameter	mm	2.4, 3.2
Electrode chucking		Double acting air cylinder
Cooling Method		Water-Cooled
Cable Length	m	6,8

TA-500CDW

Type		For robot welding
Rated Current	Α	500
Duty Cycle	%	100
Tungsten diameter	mm	3.2, 4.0
Electrode chucking		Double acting air cylinder
Cooling Method		Water-Cooled
Cable Length	m	6,8

Specifications are easily interchangeable between TA-203CDA(Air-Cooled) and TA-303CDW(Water-Cooled).





Backside of TA-203 (Without water hose)



Backside of TA-303 (With water hose)

Because TA-203 and TA-303 share parts on the main body, can be used either as a Water-Cooled or Air-Cooled by switching between a water hose or an air hose.

- * Cooling water circulation device must be used if used as a Water-Cooled torch, and always confirm that cool water is circulating.
- * When using as a Air-Cooled torch, shut off the water route and protect it so that no foreign objects enter the water route.

When using as a Water-Cooled torch, a one-touch hose fitting is required. (In its initial settings, TA-203 comes with a plug for stopping off the water route. TA-303 comes with a one-touch hose fitting to attach a water hose.)



ROBOTIC TIG SERIES

TA-500HW



- 500A/Water-Cooled/100% duty cycle
- TA-500CDW has a built-in pneumatic cylinder makes replacing the tungsten electrode easy.
- · Reliable gas shielding by gas lens

TA-500CDW



Туре		500HW	500CDW
Rated Current	Α	500	500
Duty Cycle	%	100	100
Applicable Tungesten Size	mm	3.2, 4.0	3.2, 4.0
Cable Length	m	6, 8	6, 8
Cooling Method		Water-Cooled	Water-Cooled
Cylinder		-	Double-Acting Type

^{*}Standard model: Gaslens Nozzle No.10 and Electrode 4.0mm

Filler unit for TA-500

Insertion angle (30°/45°) selectable * Standard Spec.: insertion Angle 45° and wire 1.2mm

- * The filler unit is available as an option.
- * The filler unit does not include a flexible conduit. Please specify the length that you need when ordering.

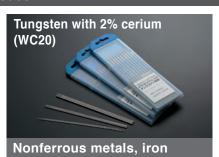
TUNGSTEN CHANGER

Automatic Changing of Tungsten Electrodes on the Robot Made Possible











SMART-GLIDE



ROLLER-TYPE FLEXIBLE CONDUIT



Achieves excellent wire feeding with minimum frictional resistance.

Hose

Self-extinguishing material with reinforcing thread for high durability.

Coupler Plug

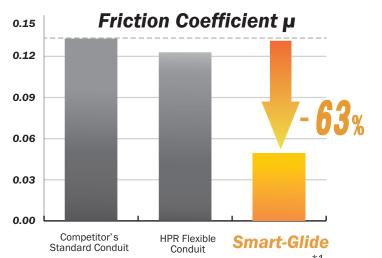
High durable stainless steel plug with a replaceable inner guide tube to maintain good wire feedability.



Body and Roller

Excellent chemical and oil resistance. **Excellent friction and wear properties.**

* Rollers highlighted in red.

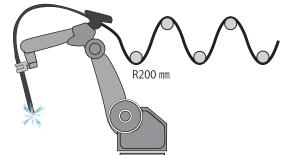


Connection 9/16-18UNF 7/16-20UNF Smart-Glide Coupler Socket (019PP53) **OTC Conversion Fitting** Easy attaching/detaching coupler connection. • Coupler Socket is sold separately.

• OTC Conversion Fitting is required depending on the thread size of the wire feeder/drum wire/spool wire.

Optimal for the following welding conditions:

- Tight layout / narrow robot cell spaces and the conduit cable have several bends, which leads to poor wire feeding.
- Long wire paths (MAX. 20m) and requires to reduce wire replacement
- For customers who frequently clean/replace the conduit cable due to recurring build-up of wire shavings.
- Optimal for Servo Torch application.

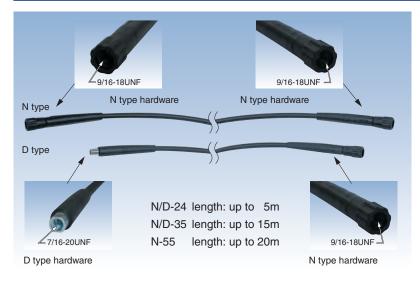


Weight (per 1m) Approx.	0.51 kg	
Maximum Length	20	m
Minimum	Wire insertion point	R250 mm
Bend Radius	Wire feeding path	R200 mm
Applicable Wire Diameter	φ 0.9~1.4	

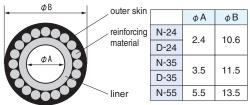
^{*1} Test Conditions: The tensile strength of the wire is measured by winding each 3m flexible conduit at a 600mm diameter.



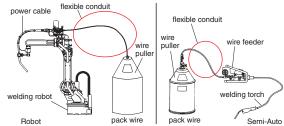
FLEXIBLE CONDUIT N-24, D-24, N-35, D-35, N-55



Inside image of Flexible Conduit

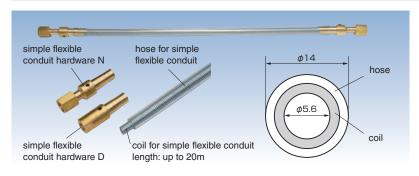


Use positions of Flexible Conduit



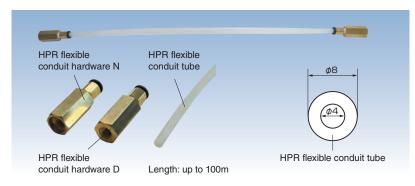
A semi-rigid conduit with high resistance to bending.

SIMPLE FLEXIBLE CONDUIT



- A combination of hardware (both ends) + coil spring + outer skin hose can be assembled on site.
- Parts can be separated, enabling a worn coil or hose to be replaced.

HPR FLEXIBLE CONDUIT



- Simply constructed of hardware (both ends) + HPR tube only, it can be assembled easily by anyone.
- Made of a ultra-high molecular material that excels in impact resistance and wear resistance, the tube has low friction resistance and improved feeding performance.
- Its length can be set at will, enabling it to be installed to suit the available space on site.
- Aluminum wire can be used.

INTERNAL REPLACEMENT TYPE FLEXIBLE CONDUIT



Types of Internal Replacement Type Flexible Conduits

N internal replacement type flexible conduit up to 5m	Liner	for ~ Ø1.2	
	Liner	for ~ Ø 1.6	
	Resin liner	for ~ Ø1.2	
	Resin liner	for ~ Ø1.6	
D internal replacement type flexible conduit up to 5m	Liner	for ~ Ø1.2	
	Liner	for ~ Ø1.6	
	Resin liner	for ~ Ø1.2	
	Resin liner	for ~ Ø1.6	

- Optimally used in a wide range of applications from feeders to torches, these conduits stabilize the feeding of wires through the use of liners.
- By replacing the internal liner, the flexible conduit can be used in various applications including iron, aluminum, and other uses.
- The liner replacement type can reduce operation costs.



TKS-R SERIES

Models According to End User Needs

TKS-RC - Direct Command Type -

A direct signal connection to the control panel allows for reliable stable command.

TKS-RS - Proximity Sensor Type -

Since the internal proximity sensor detects when the nozzle is getting close and automatically activates, only robot teaching is required for operation.

■Ratings and Specifications

Size (Length x Width x Heigh	at) 327×255×904mm
Applicable Nozzle Inner Diamete	rs φ12、φ13、φ16、φ19
Input Power Source	AC100-240V/DC24V
Operating Voltage	DC24V
Operating Wattage	12.5W
Unclamp Signal Output	AC/DC5-240V (10W Max.)
Air Pressure	0.5 ∼ 0.6MPa
Temperature	0 ~ 55℃
Relative Humidity	35 ~ 85%RH
Weight	25kg



Features

- ①Both nozzle cleaning and anti-spatter spraying are performed in the same location saving time.
- With one input signal from the internal programmable logic controller (PLC) the whole operation from the nozzle clamp to the anti-spatter spraying is performed in series.
- ③Using an ultra-hard reamer and air motor the spatter is firmly removed.

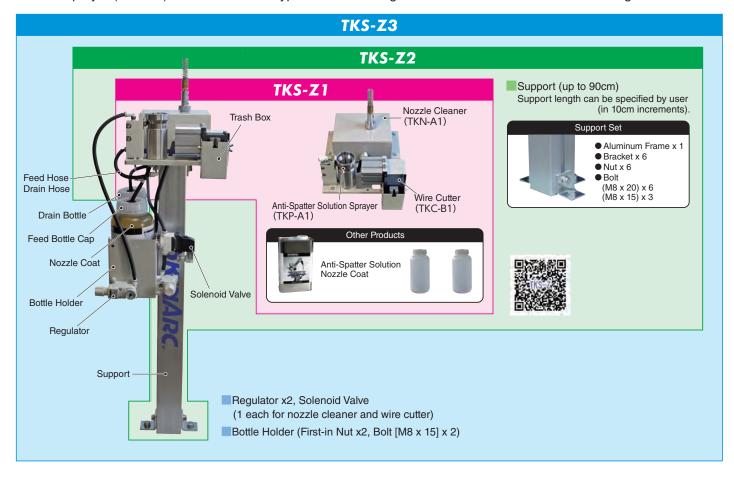
Nozzle cleaner (Ultra-Hard Reamer)

Anti-Spatter Sprayer

- A speciality steel cutting blade allows for long operating life and stability.
- © Equipped with a large access panel making maintenance and troubleshooting easy.

TKS-Z SERIES (0462Z*) (*Fits type numbers 1-3)

It consists of a nozzle cleaner (TKN-A1), in which the signals from the robot turn the solenoid valve ON/OFF, allowing the pneumatic force to turn the spring, thus removing the spatter; a compact wire cutter (TKC-B1), and an anti-spatter solution sprayer (TKP-A1). It is the standard type nozzle cleaning station that accommodates a wide range of conditions.





ANTI-SPATTER SOLUTION SPRAYER



- Sprays a fine mist of anti-spatter solution to apply a thin uniform coating to the interior surface of the nozzle. This nozzle coating dries right after welding due to nozzle heat to form an anti-spatter coating.

 Anti-spatter solution can be sprayed in opti-
- mum quantities to prevent wasted fluid Supports nozzles with external dimensions in range from 16mm through 26mm.

*The dedicated anti-spatter solution "Nozzle Coat" is required when using the above device. (Unit comes with 1 bottle)

Regulator and bottle holder are available as an

WIRE CUTTER



- Cutting blade is designed by principle of leverage and made of highly durable material, allowing 40,000 cuts or more on one side.

 (Both sides of cutting blade are weekle)
- *Number of cuts varies according to usage of location. Thus, the data on number of cuts was obtained from actual testing under certain conditions and does not imply quarantee. *Solenoid valve is available as an

NOZZLE CLEANER



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

ANTI-SPATTER SOLUTION

NOZZLE COAT



• When Nozzle Coat is sprayed by the sprayer, the post-welding heat of the nozzle dries it quickly and forms anti-sputter film on the nozzle surface. This film allows the sputter to be removed with a weak force from the nozzle.

HANDY TIP CHANGER (046703)

Allows for fast attaching and detaching of tips with the nozzle still in place.



CONVERSION ADAPTERS



021012

N-D Flexible Conduit Conversion Adapter 55 (converts N type → D type)

Adapter for ø5.5 inner diameter)

N-D Flexible Conduit Conversion Adapter 35 (converts N type → D type)

Adapter for ø3.5 inner diameter)

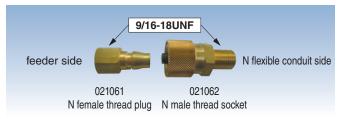


021015

Nippon Steel Flexible Conduit Conversion Adapter (converts N type → Nippon Steel type)

●Puller for Nippon Steel Sumikin This hardware is for attaching an N flexible conduit to (thread pitch M14-P1.5).

QUICK JOINTS



- * A reverse male-female type for N type flexible conduit is also available.
- Placing the joint between the feeder and the flexible conduit enables the flexible conduit to be removed or installed at a touch.
- The joint can be used also on a puller.

 ϕ 15

90

60



Image of Joint Connected to Feeder Side

PACK-WIRE PULLING TOOL

(047800)



Pack-Wire Pulling Tool

- Attaches to spool shaft for semi-automatic welder
- Attachable to N Flexible Conduit Cable

DRUM WIRE COVER

(047801)



- A clear plastic cover with an access flap allowing easy inspection.
 - Dimensions: φ510 x 290
- * Comes with Hardware

CONDUIT CABLE STAND

(047805)



- Installs above the drum wire cover to support the conduit. Use cable ties or similar to fix the conduit.
- Adjustable height between 300 and 350mm.

WIRE REEL STAND

REEL STAND (TM4-116) REEL STAND with cover (TM4-116C)



- For up to 20kg spool wire $(\phi 300 \times 98 \text{mm}).$
- Has an adjustable brake to prevent spinning.
- Insulated design to prevent short circuits.

TEACHING TIP / DUMMY TIP



Size	Teaching Tip	Dummy Tip
N-EXT10	DTT000N10	_
N-EXT12	DTT000N12	DT0000N12
N-EXT15	DTT000N15	DT0000N15
N-EXT20	_	DT0000N20
N-EXT25	_	DT0000N25
D-EXT10	DTT000D10	_
D-EXT12	DTT000D12	DT0000D12
D-EXT15	DTT000D15	DT0000D15
D-EXT20		DT0000D20
D-EXT25	_	DT0000D25

Teaching Tips

Movable tips for test operation of a teaching robot.

Dummy Tip

Stainless steel tips used for torch calibration.

WIRE STRAIGHTENER

Wire Straightener WS-3 Unit Assy (047810) for YASKAWA ELECTRIC CO. Wire Feeder (047811)



Utilizes power of corrective roller to straighten bends in wire and suppress position deviations caused by wire to a minimum.

- 1. Installing on Plastic Dome Cover.
- *2. Installing on Wire Feeder.

BUTT WELDER

100V (046270) 200V (046271)



- Simple flawless butt welding for anybody by pushing the button.
- In the range of 0.8 to 1.6mm wire diameter



FUME EXTRACTOR WF SERIES

WF-130

WF-180



• Elim at welding point. Recommended to be used with a fume extractor torch.

Rated Input Voltage

Maximum Air Flow

Maximum Pressure Rated Current Maximum Output

ninate the hazardous welding fume	• Equipped

WF-180

200V (3 phase)

3.1m³/min

80kg

H1,000×W360×L660(mm)

with the same brushless motor

as WF-180. (It can be used approximately 8000 hours, instead of approximately 700 hours on WF-120.)	
Туре	WF-130
Rated Input Voltage	200V (3 phase)
Maximum Air Flow	3.1m³/min
Maximum Pressure 23.5kpa	
Rated Current 5.0A	
Maximum Output 1,000W	
Filter	1
Noise Level	75dB(A)

80kg

H661×W300×L686(mm)





WF-120EX



Туре	WF-120	
Rated Input Voltage	200V	
Maximum Air Flow	3.0m ³ /min	
Maximum Pressure	21.6kpa	
Rated Current	5.3A	
Maximum Output	1,000W	
Filter	Small Filter × 1	
Noise Level	75dB(A)	
Weight	30kg	
Dimensions	H550×W300×L583(mm)	

Туре	WF-120EX
Rated Input Voltage	100V
Maximum Air Flow	2.8m³/min
Maximum Pressure	25.5kpa
Rated Current	10A
Maximum Output	1,000W
Filter	Small Filter × 1
Noise Level	82dB(A)
Weight	20kg
Dimensions	H400×W274×L587(mm)

ROBOTIC FUME EXTRACTOR TORCH

FUME EXTRACTOR TORCH









CSH-35(CF-H35)

TOKINARC







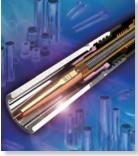
Air-Cooled Robotic Torches



Water-Cooled Robotic Torches



TIG Welding Torches



Replacement Parts



Robotic Peripherals



Please contact us by FAX or E-mail for catalogues that interest you. You can also download them from our website.

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