

# YASAKA

— EXPERIENCE THE FUTURE



FEATURING NOW IN INDIA

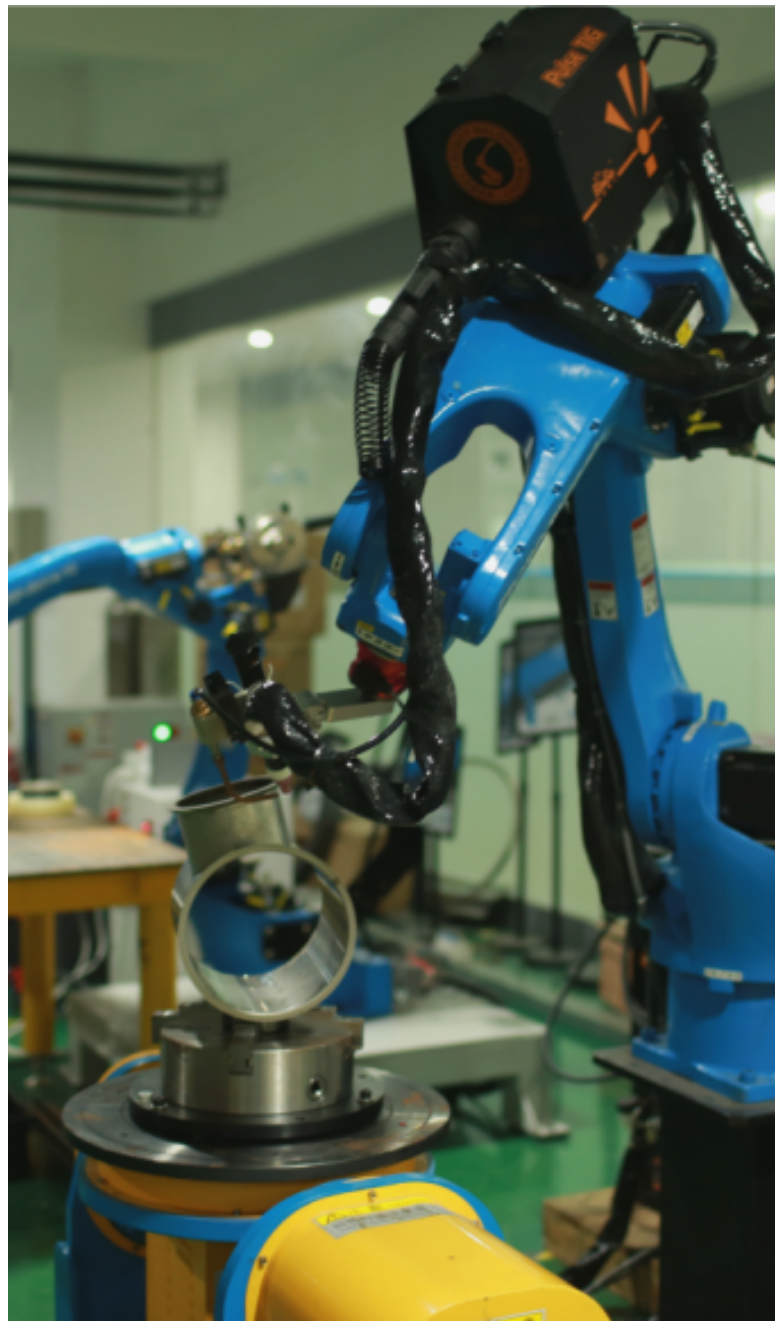


# Not all robots are the same

## Industry 4.0-ready arc welding

As a thought leader and trailblazer, Yasaka offers stable security as well as smart integration capability into digital and networked production world for the factories of the future and the Internet of Things. the result is greater effectiveness and flexibility throughout the value creation chain.

For our customers, it is important to manufacture complex and difficult jobs which are processed to perfection down to the tiniest weld seam. This is a challenge that intelligent robots from Yasaka were designed to meet.

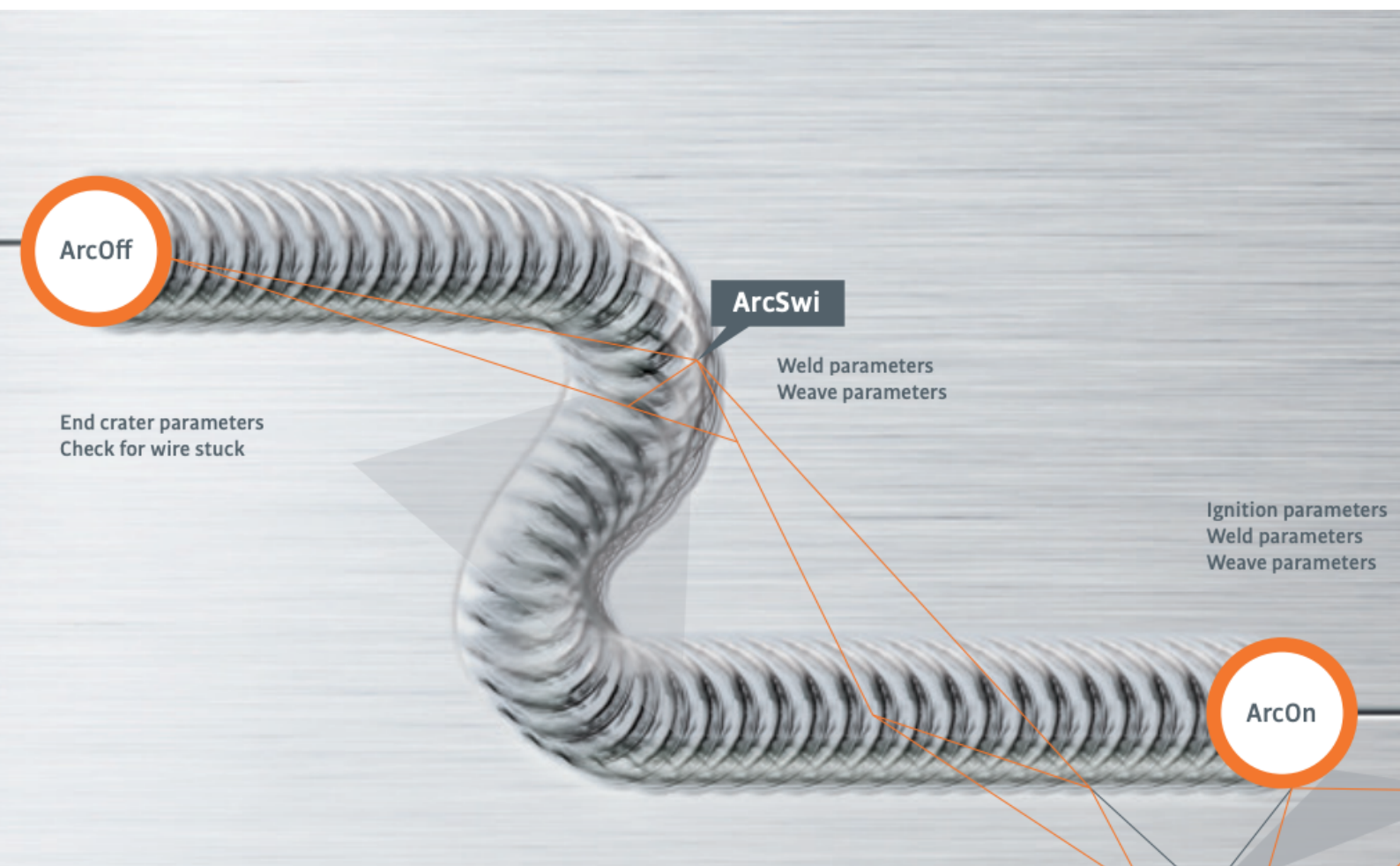


## "FASTEST ROI IN INDIA AND FASTER SERVICE "

It is not easy to compete while the ground is shifting under your feet. In many industries ' high mix low volume' is the new normal, while automation becomes more complex and production cycles shorter,

Is your business ready?

Adapting to the realities of today's manufacturing can carry unique challenges.



# Owning a robot has never been more easier

STAY AHEAD OF THE GAME  
WITH YASAKA ROBOTS

Yasaka, Arc weld parameter management ensures simple programming and optimization of weld parameters. This is achieved by Stable arc, high consistency in parameter and high reliability in power source, to be effective supporting in bulk copy operation and long stable welding of robot;

Flexible communication interface:  
Analog \Device net \CAN Open \MEGMEET  
CAN \RS-485 \EtherNet/IP (6 selections);  
"One Key" selection of rob No additional  
touch sensor power source is needed for  
robot;

Accurate real-time feedback of welding  
current and voltage to support effective  
robot arc tracking; Push-pull welding torch  
for robot is available: welding power source  
directly drive push-pull welding torch motor  
and maintain synchronization with wire  
feeder torque and speed.

**\*YASAKA INDIA NOW  
OFFERS LIFE LONG  
SUPPORT.\***





## Industrial Robot Welding Application



- The arm span is 1.4 meters. It can be installed on the ground or upside down flexibly.
- With large working space and fast running speed, it is suitable for welding, spraying, loading and unloading, handling, sorting, assembling and other applications.
- The safety emergency stop board is independent of the controller, and the safety relay circuit is adopted to provide double circuit emergency stop to ensure the reliability of emergency stop.
- The robot body cables are made of special cables for flexible robots.
- Built-in three-phase transformer, 380V and 200V isolation, more stable power supply.
- Power supply requirements can be customized for different countries. Built-in three-phase filter can effectively improve the performance of EMC and EMI.
- The robot body is with dual-circuit gas pipe and meets welding and handling requirements
- The inner diameter of 6-axis middle hole is 46 mm, which can meet the installation requirements of water-cooled gun and bellows gun.
- It's with highly flexible built-in welding cable.

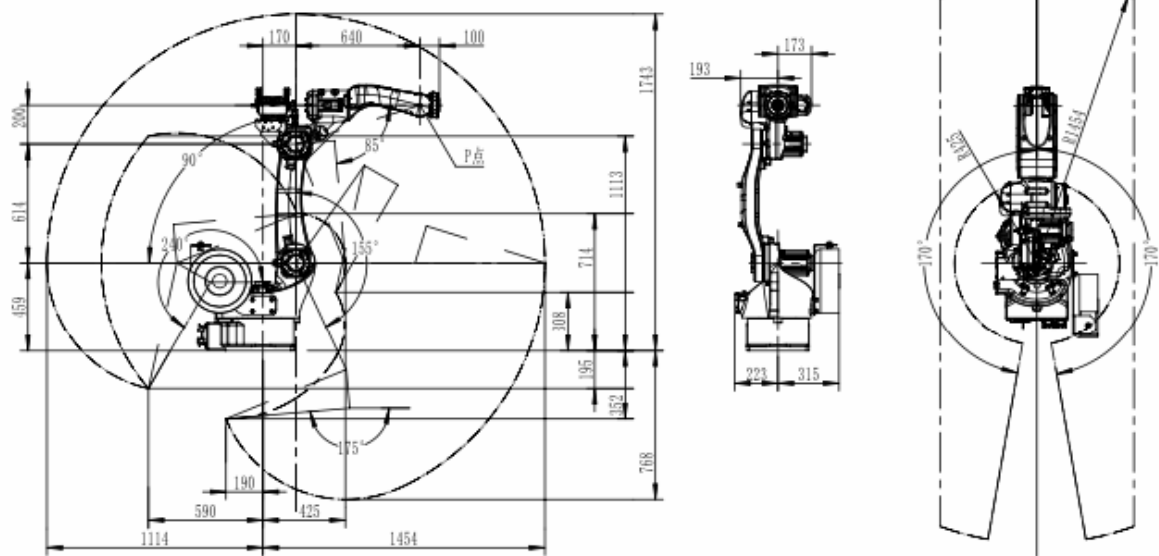
The technical drawing consists of two views of the pump head assembly:

- Left View (Side View):** Shows the profile of the pump head. Key dimensions include a total width of 100, a mounting flange thickness of 6, and a central bore diameter of  $\varnothing 52H7/k9$ . The internal impeller area has a diameter of  $\varnothing 80$ .
- Right View (Front View):** Shows the circular face of the pump head. Key dimensions include an outer diameter of 128, a central bore diameter of  $\varnothing 56$ , and four mounting holes with a diameter of  $\varnothing 10$ . The distance between the centers of opposite mounting holes is 128.

Nearly all power sources from market-relevant manufacturers can be integrated seamlessly



\*All information are only valid according to availability of parts



## Robot Body Technical Parameters

Model		YS-RH14-10-W
Arm form		Vertical multiple joints
Degree of freedom		6 axis
Maximum payload		10KG
Maximum travel	axis 1	Ground/upside down mounting -167°~167°, wall mounting -30°~30°
	axis 2	0°~175°
	axis 3	-80°~150°
	axis 4	-190°~190°
	axis 5	-105°~130°
	axis 6	-210°~210°
Maximum speed	axis 1	169°/S
	axis 2	169°/S
	axis 3	169°/S
	axis 4	280°/S
	axis 5	240°/S
	axis 6	520°/S
Allowable torque	axis 4	10N.m
	axis 5	10N.m
	axis 6	3N.m
Allowable moment of inertia	axis 4	0.25kg.m <sup>2</sup>
	axis 5	0.25kg.m <sup>2</sup>
	axis 6	0.05kg.m <sup>2</sup>
Repeated positioning accuracy		±0.08mm
Maximum reaching distance		1440mm
Robot body weight		170KG
Installation mode		Ground or upside down mounting
Installation environment	ambient temperature	0~45°C
	relative humidity	20~80%( No condensation)
	vibration	Under 0.5 G
	Others	Robot installation must be away from: Flammable or corrosive liquids or gases, electrical sources of interference
IP level		Body IP54 , wrist IP67
Advantage features		Compact structure, high speed, high precision, high expansibility and easy operation
Application		Welding, cutting, assembly, handling, marking, grinding

Built with the  
needs of  
customers in  
mind, the  
Yasaka robot  
can grow in  
capabilities to  
make it a lasting  
investment

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