

## nFA-RH18-20

### FUNCTIONAL FEATURES

- With compact design 20kg payload and about 1.8 meters arm span, 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 highly 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.



<b>Arm form</b>	Vertical multiple joints	
<b>Degree of freedom</b>	6 axis	
<b>Maximum payload</b>	20kg	
<b>Repeated positioning accuracy</b>	±0.08mm	
<b>Maximum reaching distance</b>	1730mm	
<b>Robot body weight</b>	285kg	
<b>Installation mode</b>	Ground, upside down mounting, wall mounting	
<b>Maximum travel</b>	axis 1	Ground/upside down mounting: -167°~167° wall mounting: -30°~30°
	axis 2	-45°~175°
	axis 3	-80°~155°
	axis 4	-190°~190°
	axis 5	-125°~125°
	axis 6	-360°~360°
<b>Maximum speed</b>	axis 1	160°/S
	axis 2	160°/S
	axis 3	169°/S
	axis 4	301°/S
	axis 5	342°/S
	axis 6	520°/S
<b>Allowable torque</b>	axis 4	55N.m
	axis 5	55N.m
	axis 6	30N.m
<b>Allowable moment of inertia</b>	axis 4	2.2kg.m <sup>2</sup>
	axis 5	2.2kg.m <sup>2</sup>
	axis 6	1.2kg.m <sup>2</sup>
<b>Installation environment</b>	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
<b>IP level</b>	Body IP54, wrist IP67	
<b>Advantage features</b>	Compact structure, high speed, high precision, high expansibility and easy operation	
<b>Application</b>	cutting, assembly, handling, marking, grinding	
<b>Electric Cabinet Configuration</b>	C9A	

