

- 1.The integrated MIG machine(350~500A)
- 2.Compressor built-in plasma cutters 40~160A
- 3.ZX7-800\_Steel bar butt welding+arc gouging+MMA
- 4.Nine functions welder\_NZL-5120+NBC-500FNZL

# INTEGRATED MIG/MAG MACHINE

## THE TREND+HISTORY CHANCE

### TO REPLACE SEPARATED MIG/MAG MACHINE

SEPARATED  
MIG/MAG MACHINE

PK

INTEGRATED  
MIG/MAG MACHINE



OUTPUT	500A/350A	500A/350A
DUTY CYCLE	80%	80%
PERFORMANCE	GOOD	GOOD
ACCESSORIES	TORCH+EARTH LEADS+WIRE FEEDER+CABLE+GAS HOSE	TORCH+EARTH LEADS
SIZE	420X190X290+540X243X430	420X330X300
WEIGHT	8KG+6KG(Connecting cable)+25KG	14.5KG
COST	HIGH COST	LOW
USABILITY	COMPLICATED	EASY

### SUMMARY:

With the development of technology, now we can design and produce integrated 500A/350A MIG/MAG machine for industrial application, it save much cost and easy for operating, also improve the liability of MIG/MAG welding system.



## THE TREND & CHANCE OF COMPRESSOR BUILT-IN PLASMA CUTTING MACHINES

### PART i. Compare the Parameter and Performance

No.	Parameter	Classic LGK-100	Built-in LGK-100	Remark
1	current	100A	100A	
2	duty cycle	80%	80%	
3	quality cut	20-25mm	20-25mm	
4	Max. cut	40mm	40mm	
5	air	outside air	inside air or outside air	
6	failure rate/year	<5%	<5%	
7	maintenance cost	Classic compressor>built-in compressor		Classic compressor with control and testing components
8	MMA current	320A optional	320A	
9	size	540X302X550	540X243X430	
10	weight	22KG	37KG	

### PART ii. Failure Rate of Built-in Compressor

Service life: 4000~5000hours

Clean environment: >2~3years

Dust environment: 1000~4000hours

Maintenance or change spare parts: dust will effect the piston plate and steel ring of compressor, so only need to change these 2 parts.

Other failure of compressor: the failure rate of compressor head less than 0.2%, it is lower than classic compress(as include control components, testing components, and so on).

### PART iii. Market of Built-in Compressor Plasma Cutter

Mainland of China:

The second half of 2018---0~5% market share of total plasma cutting machines

Present 2021---90% market share of total plasma cutting machines

---sales volume increase every year as more and more new

types/functions

---Riland and Jasic also launch new plasma cutter with built-in compressor

In this period:

1. the reliability is getting better and better
2. the cost is getting more and more reasonable
3. more and more new types/function, include MMA, generator friendly

Market of outside China:

1. more and more application, more market share
2. specially 60A compressor built-in type with 4.0mm MMA function
3. spare parts of compressor will be strongly support the market



**ZX7-630(3ph 380V)/630D(1ph/3ph)/800(3ph 380V)**

Model	ZX7-630(IGBT modules)	ZX7-630D(IGBT modules)	<b>ZX7-800(IGBT modules)</b>
Input Voltage	AC380-3P	AC220-1P/AC380-3P	AC380-3P
Size	435*203*235	478*233*390	
Weight	10kg	12kg	16kg
Max. Input power	27.8KVA		35.6KVA
OCV	77V	82V	
Max. MMA output	500A@60%	1P 400A / 3P 500A@60%	<b>700A@60%</b>
MMA	5.0mmmm continuously		
Others	25mm diameter: Steel bar butt welding		1. 32mm diameter: Steel bar butt welding 2. <b>16mm diameter steel bar butt welding in 3s , efficiency is at least 2 times of classic ZX7-630</b> 3. 10mm arc gouging



# NINE FUNCTIONS WELDER



## NZL-5120 PLASMA CUT+MIG/MAG+FCAW+MMA...

Quality cut 25MM

Max. cut 45MM

3ph 400V

580x305x480mm



27kg

MIG/MAG 500A  
Contact TIG 500A  
Plasma cutting 120A  
Plasma gouging 120A  
FCAW 500A  
MMA 500A  
Carbon arc gouging 500A  
Electroplating power 500A  
Steel bar butt welding 500A

# NBC-500FNZL



## NINE FUNCTIONS WELDER (dual handles)

### COMPRESSOR BUILT-IN PLASMA CUTTING



Generator

MIG/MAG 500A  
FCAW 500A  
MMA 500A  
Carbon arc gouging 500A  
Electroplating power 500A  
Steel bar butt welding 500A  
Contact TIG 500A  
Plasma cutting 120A  
Plasma gouging 120A

50kg

3ph 400V

MMA current 500A

Max. cut 45MM

dual handles at Max. output need generator 50kW