

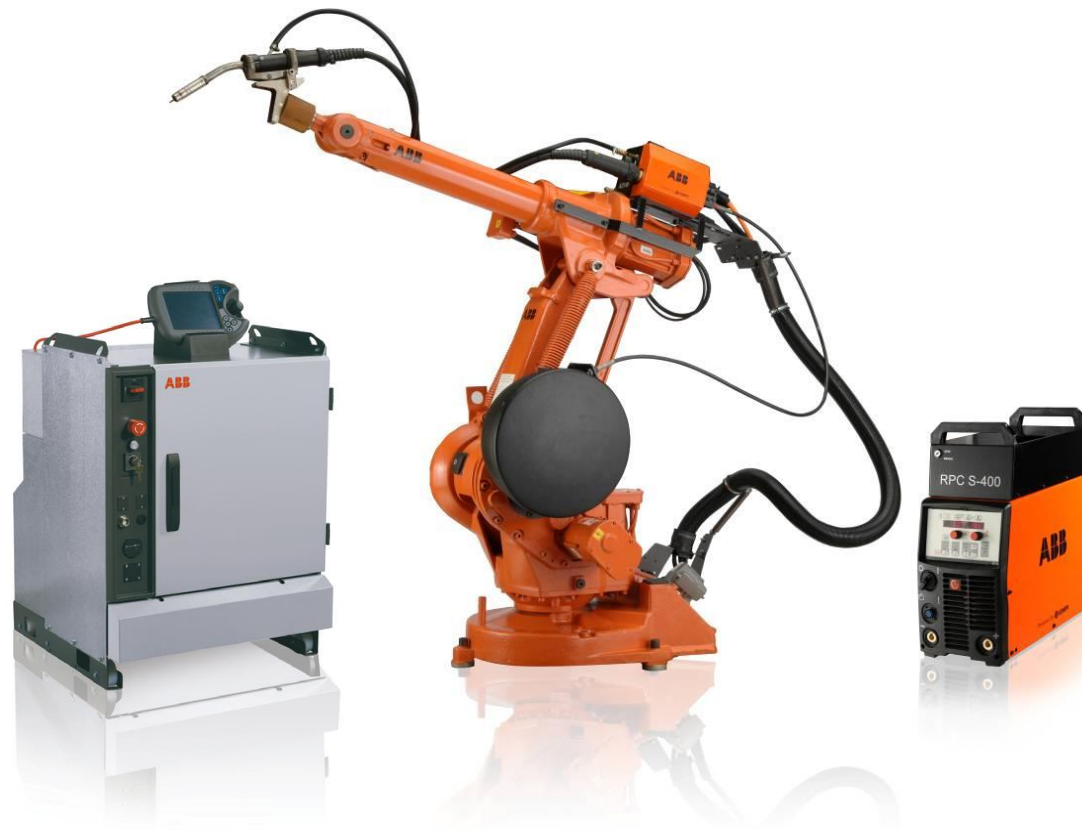


Patric Hed, Product Manager

# Arcpack for IRB 1410

## New RPC arc welding package

# New ArcPack for IRB 1410



Get your welding applications up and running quickly  
while maximizing quality and productivity!

# New RPC welding set



- **State-of-the-art wire feeder**
  - Small and light weight
  - Metallic feeding rolls
  - Wire feeder weighs less than 5kg
- **Compact power source**
  - Minimum footprint
  - Power source weighs only 35kg
- **Synergic welding process**
  - Suited for MIG/MAG welding
  - S-400 - Synergic 400A (80% duty cycle)
- **Enhanced control of welding applications**
  - Quick setup and logical process adjustment for optimum welding parameters

# High reliability



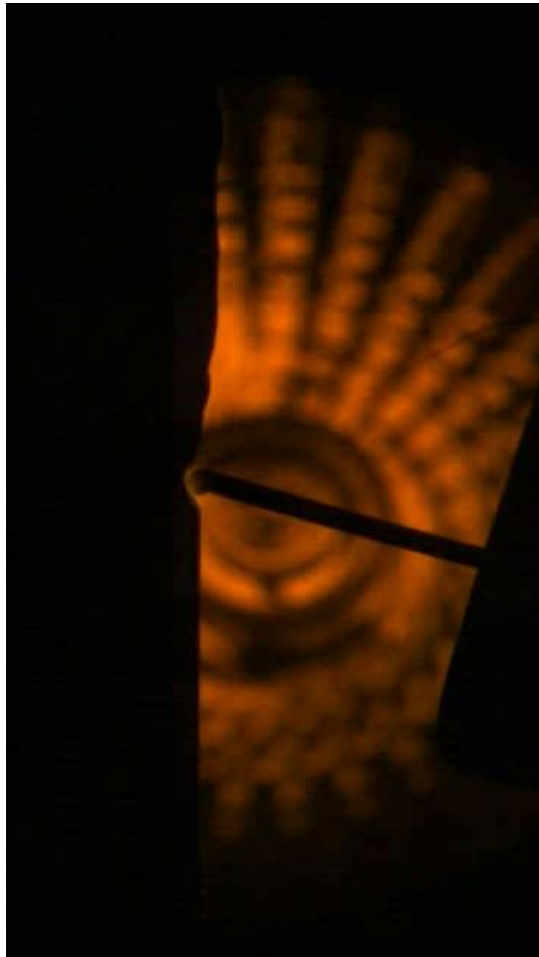
- Based on the IRB 1410 robot
- Proven in arc welding applications
- IRB 1410 installed in over 14,000 units worldwide
- Stiff and robust construction
- Fast and reliable work cycles
- Outstanding performance
- Short payback times

# Robust hardware integration



- All cables are all carefully integrated with
  - IRB 1410 mechanical arm
  - RPC power source and wire feeder
  - IRC5 robot controller
- Torch and power cables are physically protected
- Signal cables are shielded from outside interference

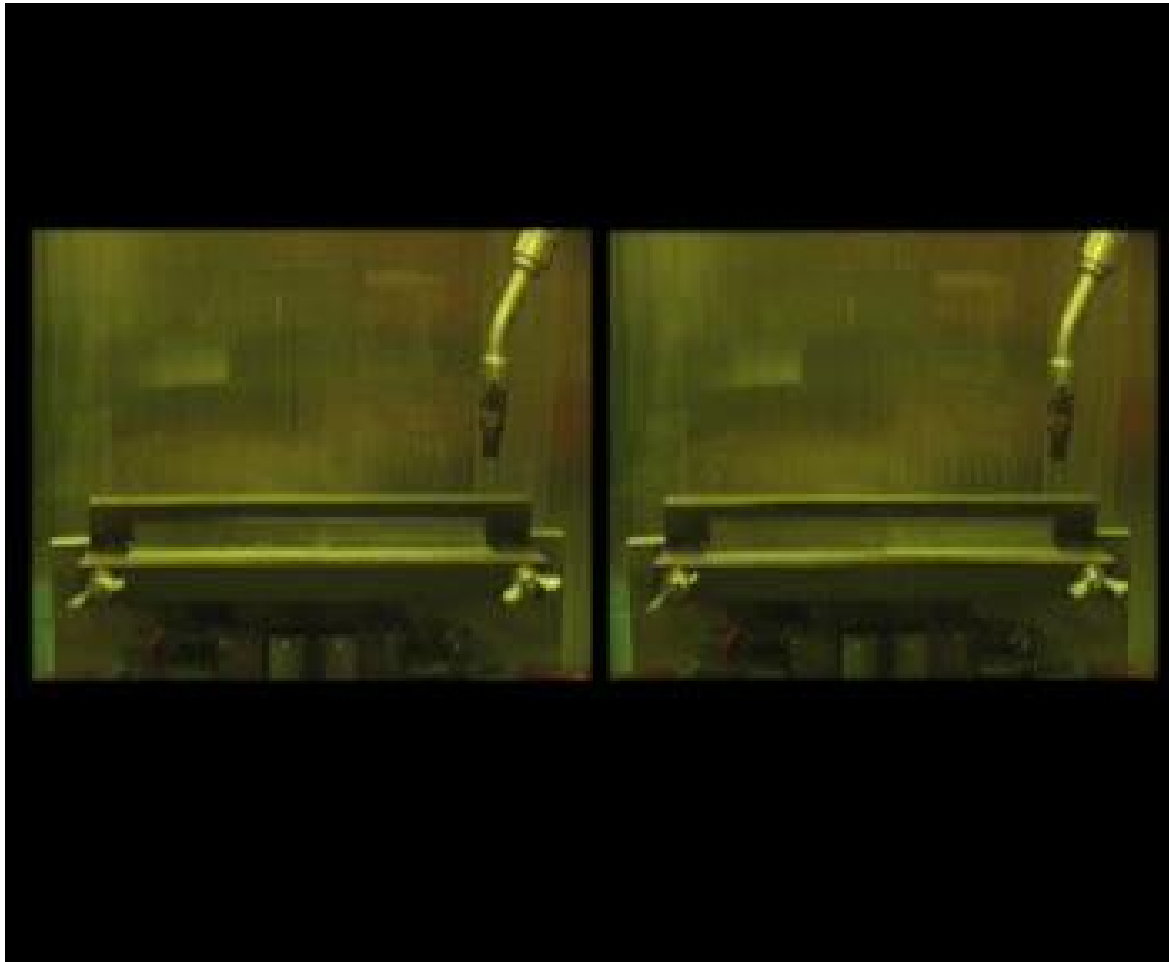
# Quality welding



*NOTE: Click on the image to play the movie.*

- Very good arc performance with basic and synergic MIG
- Excellent stable arc
- Spatter-free CO2 welding
- Special arc performance for modified short arc welding
- Ensures accurate, reliable and highly productive welding process

# Faster start and stop of welding






RPC S-400

RPB welding set

# Easy to use

## SYNERGIG PROGRAMS

1-MIG			
Prog	 Ø mm		
<b>Fe</b>			
101	0,8	Fe	Ar+18%-25%CO <sub>2</sub>
102	0,9	Fe	Ar+18%-25%CO <sub>2</sub>
103	1,0	Fe	Ar+18%-25%CO <sub>2</sub>
104	1,2	Fe	Ar+18%-25%CO <sub>2</sub>
106	1,6	Fe	Ar+18%-25%CO <sub>2</sub>
111	0,8	Fe	CO <sub>2</sub>
112	0,9	Fe	CO <sub>2</sub>
113	1,0	Fe	CO <sub>2</sub>
114	1,2	Fe	CO <sub>2</sub>
116	1,6	Fe	CO <sub>2</sub>
121	0,8	Fe	Ar+8%CO <sub>2</sub>
122	0,9	Fe	Ar+8%CO <sub>2</sub>
123	1,0	Fe	Ar+8%CO <sub>2</sub>
124	1,2	Fe	Ar+8%CO <sub>2</sub>
126	1,6	Fe	Ar+8%CO <sub>2</sub>
152	0,9	Fe MC	Ar+18%-25%CO <sub>2</sub>
154	1,2	Fe MC	Ar+18%-25%CO <sub>2</sub>
164	1,2	Fe MC	CO <sub>2</sub>
174	1,2	Fe FC rutile	Ar+18%-25%CO <sub>2</sub>
184	1,2	Fe FC rutile	CO <sub>2</sub>
194	1,2	Fe FC basic	Ar+18%-25%CO <sub>2</sub>
<b>SS</b>			
201	0,8	SS-316	Ar+2%CO <sub>2</sub>
202	0,9	SS-316	Ar+2%CO <sub>2</sub>
203	1,0	SS-316	Ar+2%CO <sub>2</sub>
204	1,2	SS-316	Ar+2%CO <sub>2</sub>
206	1,6	SS-316	Ar+2%CO <sub>2</sub>
211	0,8	SS-316	Ar+30%He+1%O <sub>2</sub>
212	0,9	SS-316	Ar+30%He+1%O <sub>2</sub>
213	1,0	SS-316	Ar+30%He+1%O <sub>2</sub>
214	1,2	SS-316	Ar+30%He+1%O <sub>2</sub>
216	1,6	SS-316	Ar+30%He+1%O <sub>2</sub>
221	0,8	SS-309	Ar+2%CO <sub>2</sub>
222	0,9	SS-309	Ar+2%CO <sub>2</sub>
223	1,0	SS-309	Ar+2%CO <sub>2</sub>

- Includes synergic curves especially designed for welding automation
  - Easy programming
  - Easy equipment calibration
- Program all parameters within one memory channel
  - welding voltage
  - wire feed speed
  - creep start
  - burnback
  - crater fill
  - etc
- 90 memory channels to facilitate the programming
  - Easy to install and configure
  - Easy to customize

# Seamless software integration



- FlexPendant touch screen
  - User friendly programming
  - Easy operation of welding cell
  - Monitoring of production results
- RobotWare Arc software
  - Flexible RAPID programming language
  - Controls parameters such as voltage, current, wire feed speed and gas flow
- IRC5 robot controller
  - Superior path motion
  - Powerful communication capabilities

# Power source RPC S-400



# Wire feeder A314F



# Technical Data

Power source		RPC S-400	RPC P-350
Welding mode		Synergic	Pulsed
Output		400 A @ 80% duty cycle	350 A @ 80% duty cycle
Connection voltage		400 V (-15 ... +20 %)	400 V (-15 ... +20 %)
Fuse, delayed		35A	25A
Rated power at max current		19.5 kVA	16.0 kVA
Load capacity 40°C	80 % ED	400 A	350 A
	100 % ED	380 A	330 A
Open circuit voltage		50 V	50 V
Power factor at maximum current		0.9	0.85
Efficiency at maximum current		0.87	0.88
Dimensions LxWxH (mm)		590 x 230 x 500	590 x 230 x 430
Weight (kg)		35	36
<b>Wire feeder</b>		<b>A314F</b>	
Operating voltage		50 V DC	
Rated power		100 W	
Load capacity 40° C	80% ED	600 A	
	100% ED	500 A	
Operating principle		4 wheel feed	
Wire feed speed		0 ... 25 m/min	
Filler wires	Ø Fe, Ss	0.8 ... 1.6 mm	
	Ø Flux-cored wire	0.8 ... 1.6 mm	
	Ø Al	1.0 ... 1.6 mm	
Welding gun connector		Euro	
Operating temperature range		-20 ... +40 °C	
Storage temperature range		-40 ... +60 °C	
EMC class		A	
Degree of protection		IP23S	
Dimensions LxWxH (mm)		269 x 175 x 169	
Weight (kg)		4.5	
<b>Torch</b>		<b>PSF315</b>	
Cooling		Air cooled	
Cable length		1.5 m	
Bend		25°	
Load capacity		170 A @ 100% duty cycle	
Standard tips		0.8 – 1.2 mm	

Power and productivity  
for a better world™

