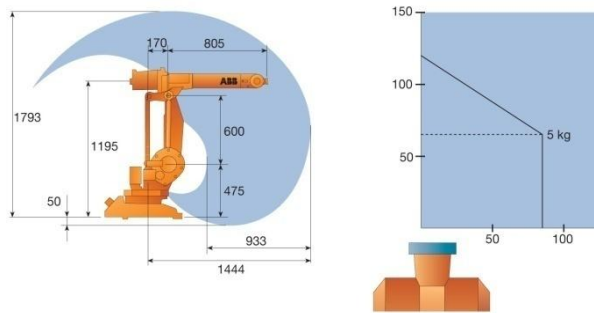


# ABB Robot Welding



WORKING RANGE AND LOAD DIAGRAM



## Manipulator consisting of :

- o Manipulator Model IRB1410 / 6 Axis
- o Payload 5 kg
- o Reach 1,44 Meter
- o Repeatability 0.05 mm (average result from ISO test)
- o Manipulator cable-length 7 m
- o Collision detector Collision detector on all servo motor and robotorch



## Controller consisting of :

- o Controller Model IRC5 Single cabinet controller
- o Size H x W x D 970 x 725 x 710 mm
- o Electrical Connections 200-600 V, 50-60 Hz
- o Protection IP54 (IP33 in rear compartment)
- o IRB Support All Robots



## Teach Pendant consisting of :

- o Flex Pendant Flex Pendant 10 m
- o Display / Key Touch Screen
- o Motion Axis Joy Stick
- o Language English



## Welding Power Source Consisting of :

- o Inverter type power source LORCH P 3500 Basic
- o Output current 300A with duty cycle 60 % ( 40° C ), 260A at 100% ( 40° C )
- o Complete integration with robot
- o Parameter settings made on FlexPendant
- o Wire feeder for 1.0 - 1.2 mm
- o Speeds between 1.8 – 23.5 m/min



## Welding Gun consisting of :

- o **TBi 60G**, Air-cooled
- o 60% (10 min.)
- o Mix : 10.5 kW (300 - 320 A)
- o Ø 0.8 - 1.6 mm
- o Gas flow: from 8 l/min
- o 2 channel for protective or blow-out gas

## **TBi 80w**, Water-cooled

- o 100% (10 min.)
- o Mix : 17.5 kW (370 - 500 A)
- o Ø 0.8 - 1.6 mm
- o Gas flow: from 6 l/min
- o 2 channels for protective or blow-out gas
- o 2-circuit water cooling
- o High accuracy of both torch and robot TCP
- o 1 year warranty on TCP
- o Quick replacement of torch and cable assembly
- o Long life cycle contact tips available