

DONALD BENETEAU CENTRE OF EXCELLENCE

GAS METAL ARC WELDING CELL

Process: Automated GMAW

Equipment Description:

- Kuka KR-16-L8 Arc HW
- Fronius CMT weld controller
- 7 Axis robot
- Cold metal transfer weld control

Features:

- Consistent welds for a variety of metals
- Trunnion rotates fixtures/parts for easier and faster torch access
- Rotates 270° around horizontal axis
- Internal dress for the torch allows better access in confined areas

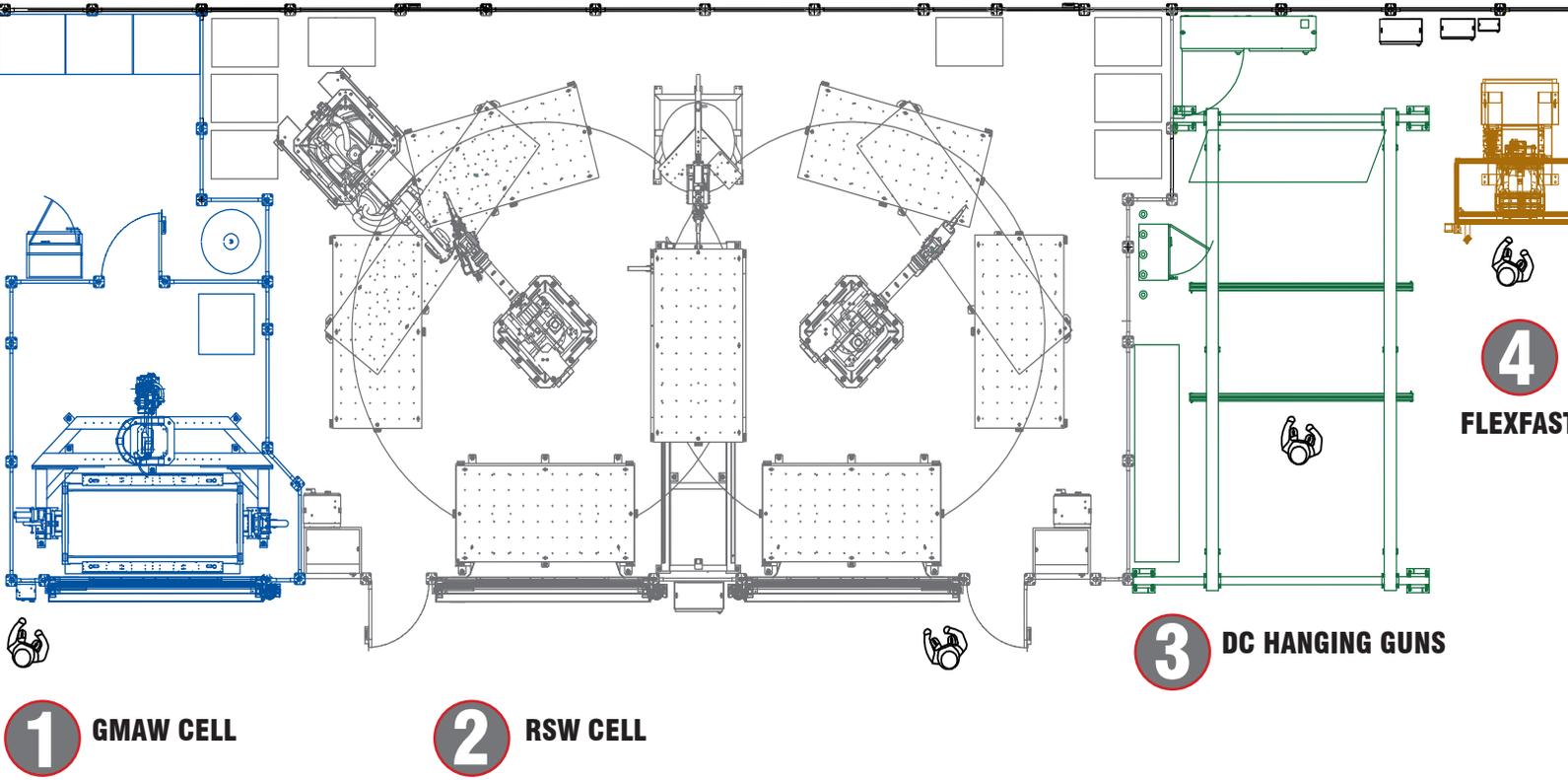


RESISTANCE WELDING ROBOTIC CELL

Process: Automated Resistance Spot Welding

Equipment Description:

- 2 Fanuc R-2000iA robots-165kg load rating, 7 axis
- 2 MEDWELD 6000s weld controllers
- CenterLine FlexGun™ #CLSG-5029-17, RA Modular style Pinch Gun: 137mm opening, 1200lbs force, servo activation, MFDC
- CenterLine Transgun Gun #CLTG-6580-55, Modular Pinch Gun: 155 mm opening, 1660 lbs force, pneumatic actuator, MFDC
- 1 KUKA KR210R2700 robot - 210kg load rating c/w CLTG-UL5-1 Modular Pinch Gun, 100 mm opening, 1600 lbs force, weight 75 kg, air/oil OHMA weld cylinder, MFDC
- 1 CenterLine Weldgun Accessory stand c/w FlexGun™ CLSG 5031- (s/n W435517-02) and Kyokutoh tip dresser
- 1 FlexFast Lite with TruForce Servo projection welding actuator



HANGING GUN CELL

Process: Manual Resistance Spot Welding

Equipment Description

- Cell 1: CenterLine Pinch Gun #CLTG-6617-32, 101mm opening, 2000lbs force, 130kg gun weight
- Cell 2: CenterLine "C" Gun #CLTG-6670-17, 99mm opening, 1600lbs force, 118kg gun weight
- Guns have firing handle with trigger for initiation and thumbwheel control for selection of schedule and weld forces
- Self bleeding OHMA® air over oil actuator system prevents air from getting in the fluid lines when the guns are moved in various orientations to the floor



FLEXFAST STANDARD WELDER

Process: Projection Welding

Equipment Description:

- FlexFast Standard
- 8000lbs total force, 35 kA (high)
- 400 x 200mm welding window
- Operator interface including safety light curtains
- Quick-Change Tooling Platen
- Quick-Change Upper Electrode System



ROLL SPOT WELDER

Process: Seam Welding

Equipment Description:

- CenterLine SeamTec 4000
- 4000lbs force, 40kA continuous, fast feed rate
- "Floating heads" for automatic wheel wear compensation
- (Equal force on each side regardless of variation in material thickness)
- Integrated wheel dressers

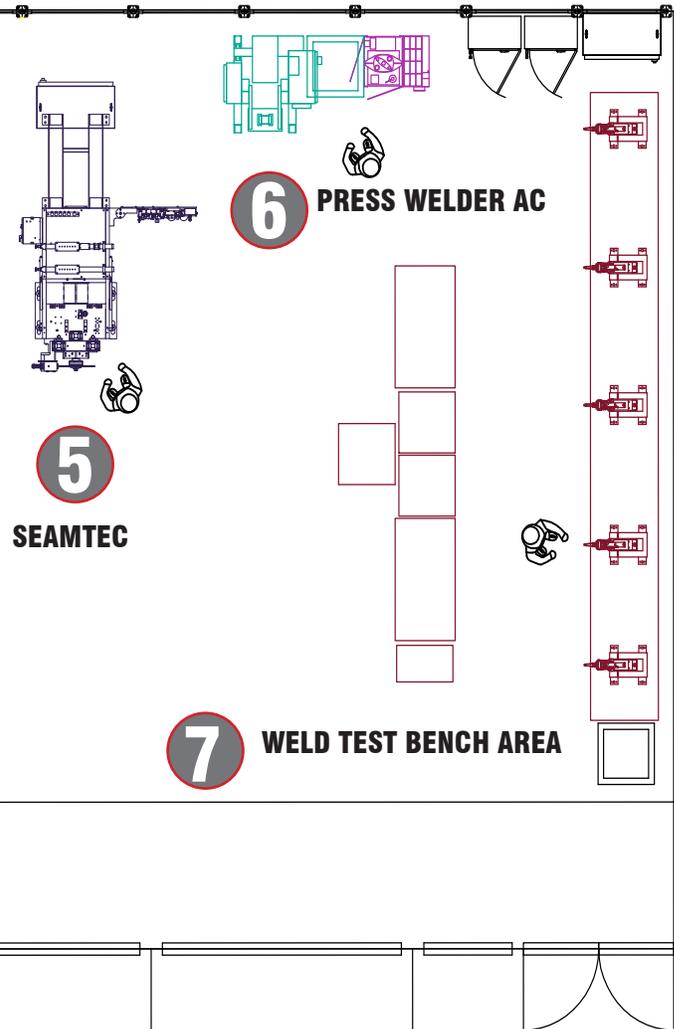


PRESS WELDER AC

Process: Heavy Duty Projection Welding

Equipment Description:

- CenterLine: High Force Press Welder
- 12000lbs force, 100 kA (approximately)
- Designed for R & D applications
- High precision force and current control



WELD TEST BENCH AREA

Process: Resistance Welding

- This area includes a range of CenterLine welding guns for use in process development work and training

Equipment Description:

Five (5) bench mount guns, which include:

Model Number	Opening	Type	Actuator	TX	Opening	Max Weld Force
# CFOPIN-020-060-122		Pinch	Air/Oil	AC-136KVA	237mm	2000lbs
# CFOB9N-140-185-006		Nutweld	Air/Oil	AC-65KVA	140mm	2600lbs
# CFOB9N-200-185-005		Nutweld	Air/Oil	DC Size 3.5	200mm	2600lbs
# CFOPIN-080-060-013		Pinch	Air/Oil	DC Size 3	235mm	2000lbs
# CFOB9N-120-185-030		Nutweld	Air/Oil	DC Size 4	120mm	2600lbs





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