

## **AssembleBeamWithClamps (gid, bid, [cid], [jid])**

### **RFL Robot - Free Motion**

Bring (**Gripper**(gid) holding **Beam**(bid)) to approach (**Clamps**([cid]) attached to the **Joints**([jid]))

### **RFL Robot - Linear Motion**

Move **Beam**(bid) into the clamp jaws

### **Clamps([cid]) - Clamp Jaw Motion**

retract jaw to starting position

### **RFL Robots and Clamps([cid]) - Clamp and Robot Sync Linear Motion (SM)**

Robot holds beam and moves towards the assembled position. Clamp(s) retract jaw to apply clamping pressure to the mating joints.

### **Operator - Inspection**

Ensure beam is securely assembled

### **Gripper - Open Gripper**

Release the beam from the robot

### **RFL Robot - Linear Motion**

Retrack Gripper to clear the beam.

