

Common Issue - SY Axis Errors

Potential root causes of SY axis problems

Contents

Symptoms

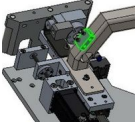
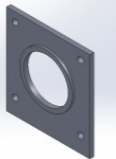
Potential Root Causes

Comments

Symptoms

- SY Axis / Drive Errors
- Arrow heads not in centre
- Cut length inaccuracy on mitre cuts
- SY axis seized

Potential Root Causes

Root Cause	Indicators	Tests	See Also	Pic
SY Linear Bearing Seized	Cannot turn the leadscrew (it should turn easily in your fingers)	Is the lubrication getting to the bearing?	SY Lubrication manifold needs grubscrew "blocker". See ECN005	
Leadscrew seized	Cannot turn the leadscrew (it should turn easily in your fingers)	Lubrication?		
Spacer between motor and motor mount not fitted	Coupling inside SY axis bottoms out			
SY axis coupler slipping	Intermittent SY axis losing datum position			
Centraliser pressure too high				
Datum sensor faulty	Sensor light flickers Datum position wanders	Physically mark the zero position. Using the drive screen repeatedly home the axis and check zero		
Datum sensor cable faulty	Intermittent cable connection can cause the SY axis datum position to change	and wiggle the cables - see if the datum position moves or the sensor light flashes		
SY Motor Failure	Intermittent problems SY Motor Quality issues since m/c Z097			
SY Motor Cable failure				
SY axis drive failure				
48v PSU failure	Rarely an intermittent fault			

48v PSU cable failure				
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