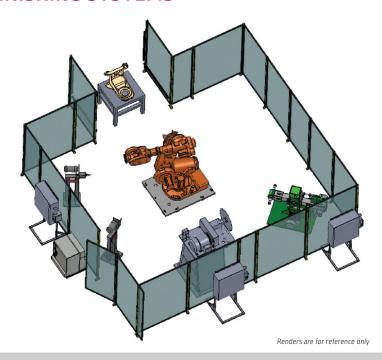
# LOW VOLUME FINISHING CELL

## ROBOTIC PART FINISHING SYSTEMS



### LOW VOLUME FINISHING CELL

#### **KEY FEATURES**

- Foundry-protected robot and controller with force control feature
- Multi-function end-of-arm tool with tool changer
- Holding fixtures with tool changer flange
- · Input/output device
- · Finishing fixture
- · Casting infeed devices
- · Aluminum casting finishing tools
- Iron/steel casting finishing tools
- · Safety fence and system

#### **INDUSTRIES**

- Die casting
- Foundry

#### **BENEFITS**

- Flexible to customers' part finishing processes
- · Modular robot training
- Cell is economical with no expensive end-of-arm tools or infeed devices
- Customer can build their own robotic holding fixtures
- · Two or more castings can be finished at the same time
- Helps improve employee safety through automation of key processes
- May reduce consumable tool costs as a result of more accurate speeds and feed
- May reduce work-in-progress costs as a result of automation processes
- Achieve lower scrap volume from reducing manual finishing errors

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#### FINISHING FIXTURE CONCEPT

- · Castings are manually bolted or clamped to the fixture (manual swing clamps are available)
- Fixture has robotic tool changer flange
- Two fixtures can be made to help increase cycle time by eliminating load/unload time

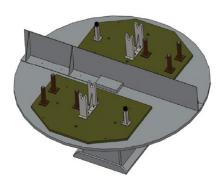






#### **CASTING INFEED DEVICES**

- · Simple turntable with light curtains
- · Fixture located with simple pin arrangement
- · Robot picks up using tool changer





#### **ALUMINUM CASTING FINISHING TOOLS**

- Electric spindles for various tools including deburring, milling, drilling, etc.
- Foundry riser saw with carbide-tipped blades
  30hp with robust design
- · Compliant belt sanders for flush finishing

#### **IRON/STEEL CASTING FINISHING TOOLS**

- · Traditional media grinder
- Foundry cut-off saw with abrasive cut-off wheel
- · Diamond wheels and cutters









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