ULTIMATE ROBOT TIGHTENING SOLUTIONS

•



INTELLIGENT SPINDLE SOLUTIONS ENABLE HIGHER PRODUCTIVITY

ULTIMATE ROBOT TIGHTENING SOLUTIONS

THE VALUE OF INTELLIGENT SPINDLE:

Increase your productivity and reduce your ROI time which provide the following advantages of up to:

- 25% reduction in total cost of ownership
- 25% reduction in need for spare parts
- 50% reduction in floor space usage
- 50% reduction in installation cost

ST STATION CONVENTIONAL SPINDLES

One power drop required per controller
Elaborate cable festooning required
One controller required per spindle
One cable required per spindle

- Higher total cost of ownership over intelligent spindles











ND STATION

- Single cable for a group of spindles: *Apex Tool Group is the only supplier of this technology*

- -One controller for multiple group of spindles
- -Simple cable management
- Industry-leading speed
- -Simple integration

INTEGRATOR BENEFITS

-Quick integration and start-up

-Reduced system complexity

-Simple cable management

-Use robots with smaller pay load capacity

RD STATION

INTELI-SWAP: AN INDUSTRY FIRST

- One controller for multiple groups of spindles

- High flexibility and ease of reuse
- Rapid plug-and-play
- Reduced floor space

INTELLIGENT SPINDLE SOLUTIONS ENABLE HIGHER PRODUCTIVITY.

ULTIMATE ROBOT TIGHTENING SOLUTIONS



INTELI-SWAP AN INDUSTRY FIRST:

Our patented technology in conjunction with an automatic tool changer enables rapid changing from one group of spindles to another using a common controller.

This results in:

- -minimal floor space consumption
- -reduced capital equipment cost
- -lower total cost of ownership
- -improved productivity
- -increased flexibility

SYSTEM STRUCTURE



Intelligent spindles with simple cable management

CABLES:

 Patented architecture allows a group of spindles to be controlled by a single cable

Cleco[®] mPro400 global controller.

- Super high-flex field cables have been tested to 7 million cycles without failure
- Can easily be used on robots with hollow or solid wrist to the EOAT



mPRO400 CONTROLLER:

- The mPRO400 global controller is able to control all of our tools, spindles, and torque wrenches
- mPR0400 can handle up to 32 spindles from a single controller
- Compact foot print that saves on floor space





DGD° | Cleco°