

## CASE STUDY

### Pick and Place Application

**CHALLENGE** This Pick and Place application required the ability to handle many different “parts” that differed greatly in both mass and shape. Our customer required a comprehensive, integrated solution that was exceptionally durable and able to handle a hostile environment. The ability to quickly change parts with minimal downtime was paramount. Grippers along with associated electrical and pneumatic components needed to be changed out quickly and with no tools or special equipment.

**SOLUTION** The final solution was accomplished with an integrated tool assembly designed and manufactured by Schunk. It included grippers and unique jaw assemblies designed for each customer part. Additionally, a quick tool change system allowed the customer to pneumatically couple each tool to the Pick and Place system. The solution included a custom interface bracket. All electrical and pneumatic lines fed thru the coupling system. This resulted in quick tool changes accomplished in seconds. One mechanical connection is activated or deactivated thru the customers PLC control.

**BENEFITS**

1. High system productivity.
2. Impressive durability has been demonstrated in this application.
3. The customer has achieved higher output while retaining the ability to seamlessly transition from one part to another.

*Since the system was first commissioned, several additional Tool Assemblies have been supplied to allow the handling of more, unique part configurations.*

