



BLUE STAR

ENGINEERING & ELECTRONICS

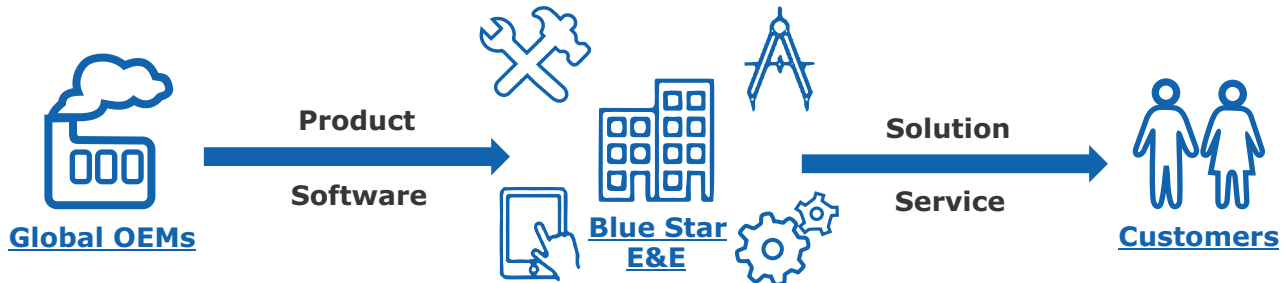
Flexible • Reliable • Efficient • Effective



COLLABORATIVE ROBOT SOLUTIONS

COMPANY PROFILE

Blue Star Engineering & Electronics Ltd. is a wholly owned subsidiary of Blue Star Limited, a large engineering conglomerate headquartered in Mumbai. The company has built a strong reputation for providing advanced technology products as well as turnkey engineering solutions to several industries across the country. It has evolved from being an exclusive distributor to a high-end system integrator and value-added reseller for many globally renowned manufacturers.



Product Features



Operator Safety

- Allows safe working, without the need for fencing or caging.
- Protective stop in case of any unintended contact.

What You Get

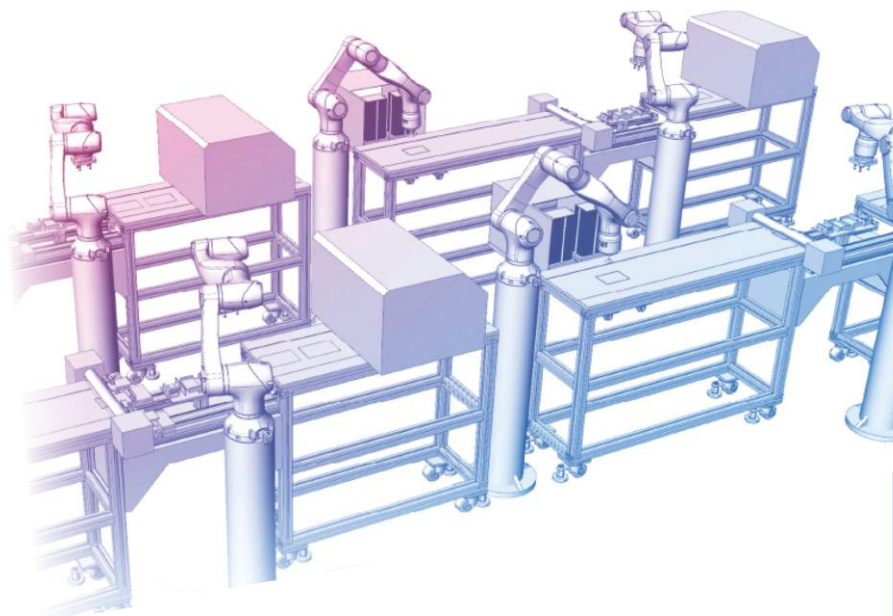
- ✓ Safety of operator, co-workers, work-pieces and production equipment.
- ✓ No additional cost of fencing or caging.

Compact, Flexible & Mobile

- Requires up to 50% less floor space compared to standard industrial robots.
- More flexibility with fast redeployment.
- Can be mounted at any angle.

What You Get

- ✓ More production-line space.
- ✓ Better floor access for operators.
- ✓ Freedom to use in different production areas.
- ✓ Suitable for small batch production.

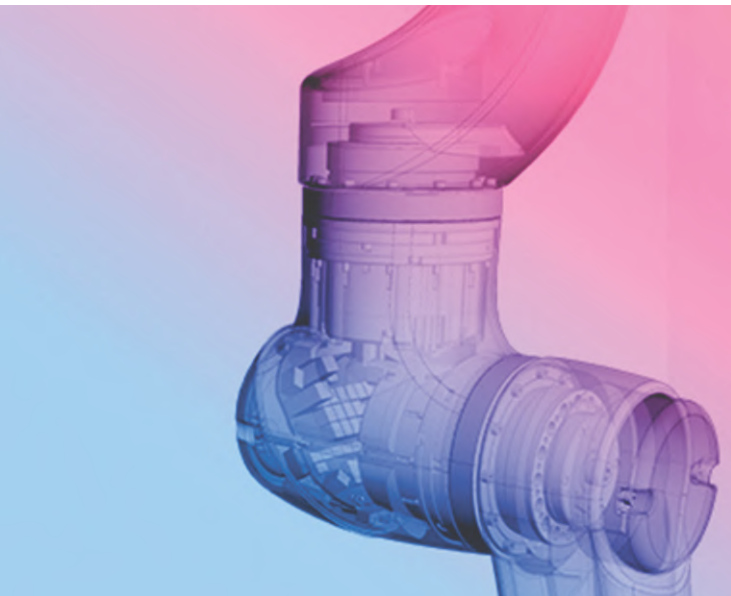


Intuitive Teaching

- Simple, fast teaching.
- Can be taught by moving the end of the arm to the desired position/trajectory.
- Create a simple pick and place application in just 10 minutes.
- Quickly select programs from teach pendant.

What You Get

- ✓ Reduced programming and training time.
- ✓ No dependency on skilled operators.



Highly Integrated Joint Modules

- Modular design.
- Highly integrated mechatronics.
- Lightweight and powerful joint module.
- High torque and low cogging motors.

What You Get

- ✓ Higher accuracy, stability and convenience for the operator.
- ✓ Reduced maintenance cost.

ROS Support

- Open source ROS interface.
- Fast and stable EtherCAT bus.

What You Get

- ✓ High scalability of robotic system.
- ✓ Control multiple robots without dedicated controller.
- ✓ Real-time control of robot and its axes via EtherCAT under ROS.



CUSTOMIZED COBOT SOLUTIONS

Blue Star E&E customized cobot solutions for a wide range of applications in various industries. The solutions are designed to address the most complex challenges. Blue Star E&E ensures maximum up-time through its country-wide sales and service network.



PICK AND PLACE



LAB ANALYSIS



QUALITY INSPECTION



ULTRASONIC TESTING



SCREW DRIVING



WELDING



GLUING



**YOUR
APPLICATION ?**



SPRAYING



POLISHING



CNC



INJECTION MOULDING



EDUCATION



MACHINE TENDING

Type	E3	E5	E5-L	E10	E15
Weight (kg)	17	23	24	40	45
Payload (kg)	3	5	3.5	10	15
Reach (mm)	590	800	950	1000	700
Power	100W	180W		350W	450W
Joint Range	±360°				
Repeatability	±0.05mm (under normal conditions)				
Degree of Freedom	6				
Control Box Size	536 x 445 x 319 mm				
End I/O port	Digital input: 4, digital output: 4, analog input: 2				
Control box I/O port	Digital input: 16, digital output: 16, analog input: 2, analog output: 2				



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