

Uflex™



Ultimate flexibility. Simplified automation.

Market drivers such as abbreviated product lifecycles, rising labor costs, and a shortage of skilled labor resources are escalating the need for cost-effective automation. Uflex™ provides exclusive value by breaking traditional automation barriers with a dramatically shortened payback period and a 50% ROI improvement.

With a revolutionary architecture that enables it to be easily reconfigured in the field, the Uflex automation platform is a valuable asset that speeds time to market – particularly in higher mix environments.

Innovation

- Compact footprint, adaptable for lean or in-line manufacturing processes
- High-performance foundation: 2G acceleration, 50µm accuracy and 8µm repeatability
- Flexible: board size, component range, input types
- Field-reconfigurable with large tooling portfolio, third-party compatibility
- User-level custom programming
- Synergistic automation and process solutions, complementary automation portfolio

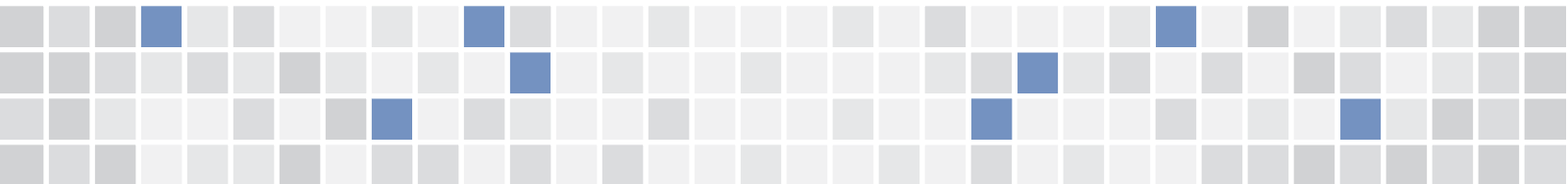
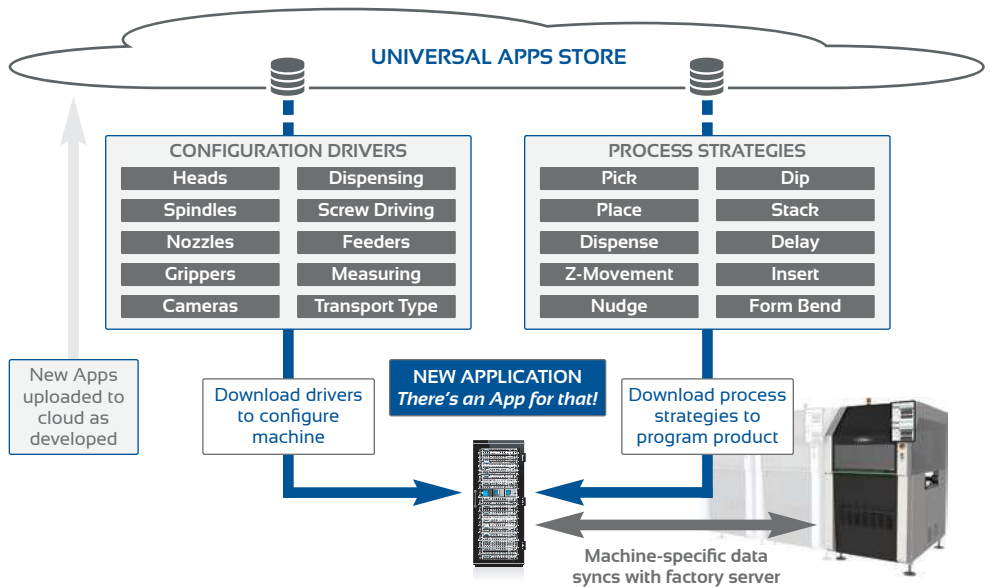
Performance and Value

- Unsurpassed performance for a full range of automation tasks at half the cost
- Supports pick and place, dispensing, screw driving, inspection, test handling, and more
- Up to 4X throughput, consistent rates
- Lowest CAPEX, scalable cost performance
- 50% ROI improvement
- Shortest time to revenue
- 90% OPEX reduction
- Highest yield and quality



New product or application? *There's an App for that!*

Uflex enables user-level custom programming and simplified reconfiguration by leveraging cloud-based libraries of pre-defined process strategies and hardware drivers.





Easily configured for a full range of automation tasks

Uflex accommodates a comprehensive array of standard/OEM tooling, as well as numerous feeding options.



Pick & Place
Servo Theta



Pneumatic
Gripper



Dispensing
Auger



Screw Driver



Clinch



Vision Inspection



Upward
Screw Driver



Pressure
Sense with
Load Cell



Laser Height
Sensing

**Feeding options: tape, strip, tube,
tray, bowl, axial, radial, GPAX**



Uflex value – technology deployment or labor replacement

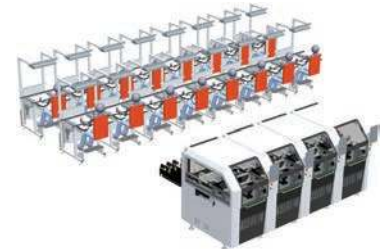
Integrate Uflex to perform complex processes for lower OPEX and superior investment protection versus custom cells or replace manual processes for fast ROI, faster time to market and improved quality.

Technology Deployment

- Field-reconfigurable for a variety of processes/ multiple tasks – pay as needed
- Average of 10% retooling cost vs. 50%
- Reconfiguration can be performed at the manufacturing level vs. engineering
- Icon-based programming, pre-defined strategies

Labor Replacement

- Up to 4X throughput, consistent rates
- Up to 95% lower cost/insertion
- 70+% lower OPEX during payback, <2-year ROI
- 60% smaller footprint (1 Uflex vs. 4 laborers)
- 40+% lower cost/cph/m²
- Superior yields and quality: 99% vs. 95% FPY



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UFLEX SPECIFICATIONS

Insertion Rate	1.2 sec/component (Max with 3-component gang pick)
Board Size (W x D x H)	50 x 75 x 0.5mm (Min) to 630 x 508 x 12mm (Max)
Insertion Heads	2 pneumatic grippers (Max) or 3 vacuum grippers/nozzle (Max)
Max Component Size (W x D x H)	127 x 127 x 100mm (Max)
Feeder Interface	700mm wide, supports up to 10 feeding devices
Positioning System	Lead screw drive with 2G acceleration, 2m/sec speed
Accuracy / Repeatability	50µm accuracy, 8µm repeatability
Automation Processes	Pick & place (including clinch), dispensing, screw driving, inspection, test handling, and more
Machine Dimensions (W x D x H)	1000 x 1700 x 1830mm

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