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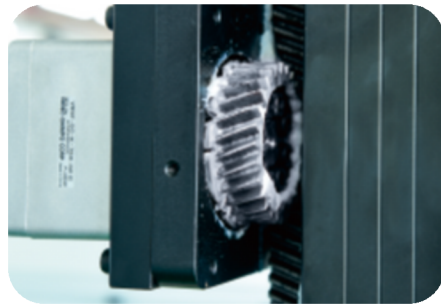
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INDUSTRIAL AUTOMATION ROBOT FOR INJECTION MOLDING



Alean Machinery



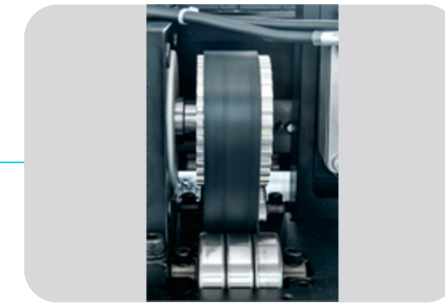
German Henrien gear,
rack WMH HERION



High performance
servo motor



Japan Xinbao
reducer



German Continental
silent timing belt



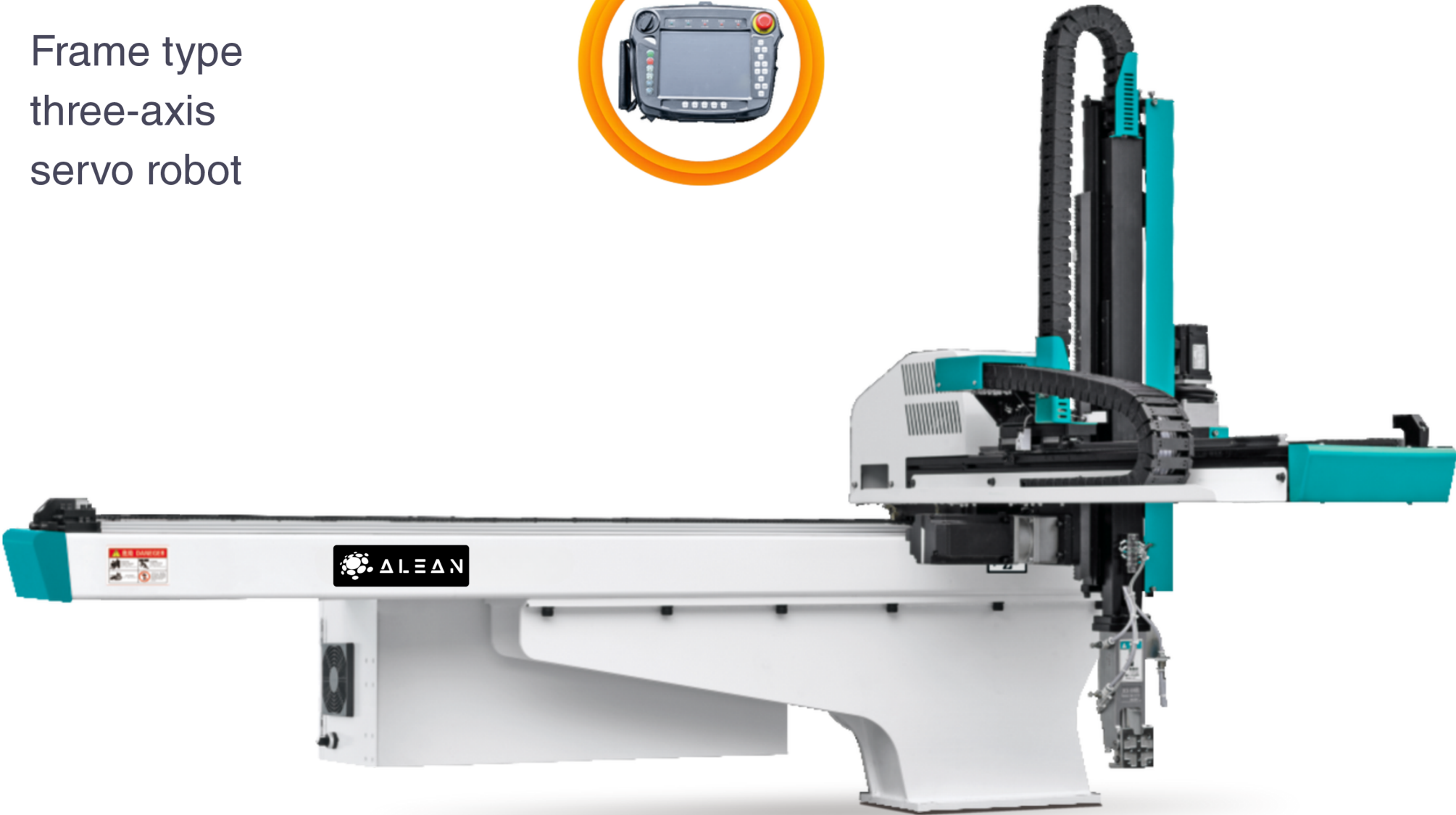
German Igus
energy chain



Japan THK
linear guide

AFK-series

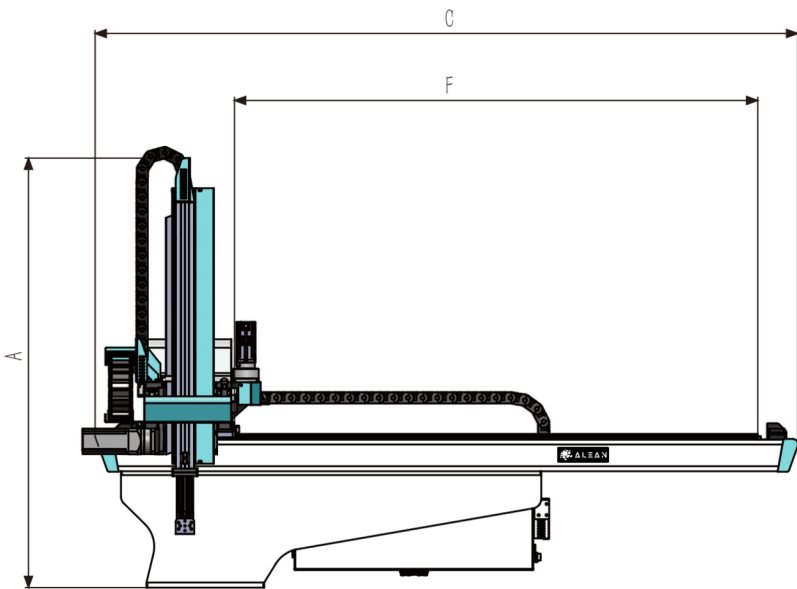
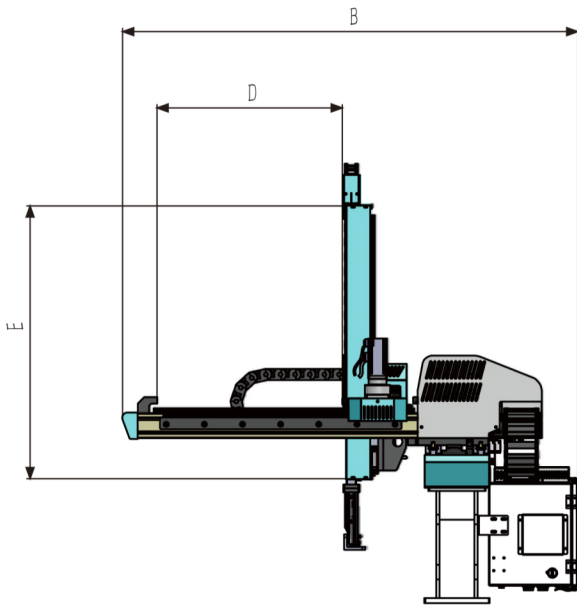
Frame type
three-axis
servo robot



Features

- Arm and pull beam are driven by gear rack transmission
- Frame structure design
- Double horizontal linear rail support
- Uniform load, fast operating speed, long serving life

Dimensions and parameters

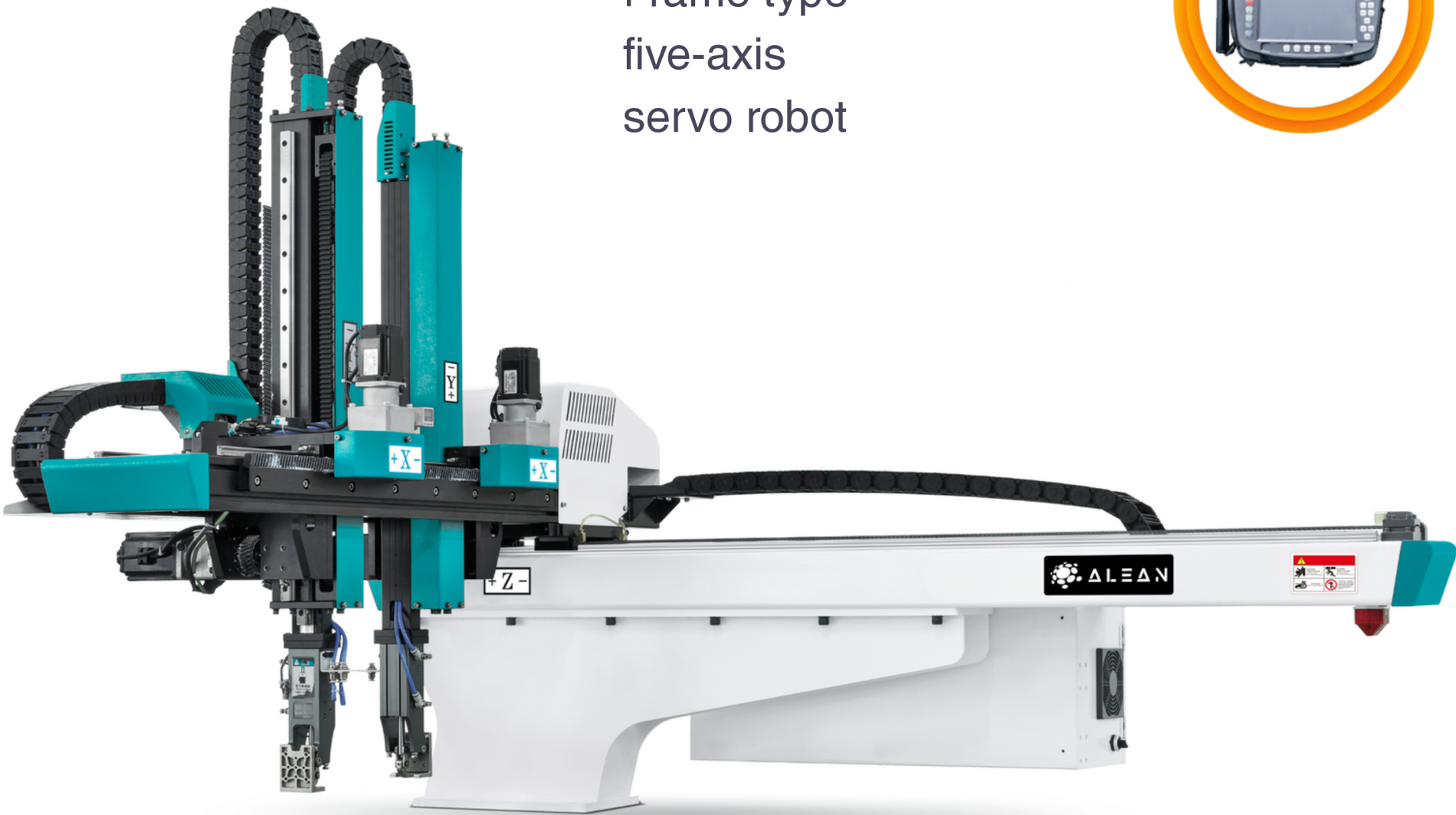


MODEL	A (height)	B (width)	C (length)	D (effective pull beam stroke)	E (effective arm stroke)	F (effective horizontal beam stroke)	Applicable injection molding machines
AFK-700 CW3	1045	1252	1566	419	812	1024	100-200 T
AFK-900 CW3	1473	1178	2081	535	1130	1480	200-300 T
AFK-110 CW3	1583	1185	2179	535	1240	1600	300-450 T

Length unit: mm ; Working voltage: 220V ; Working pressure: 6-8 kgf/cm²
Due to improvements and other reasons, no notice will be given for specification and appearance changes

AFK-series

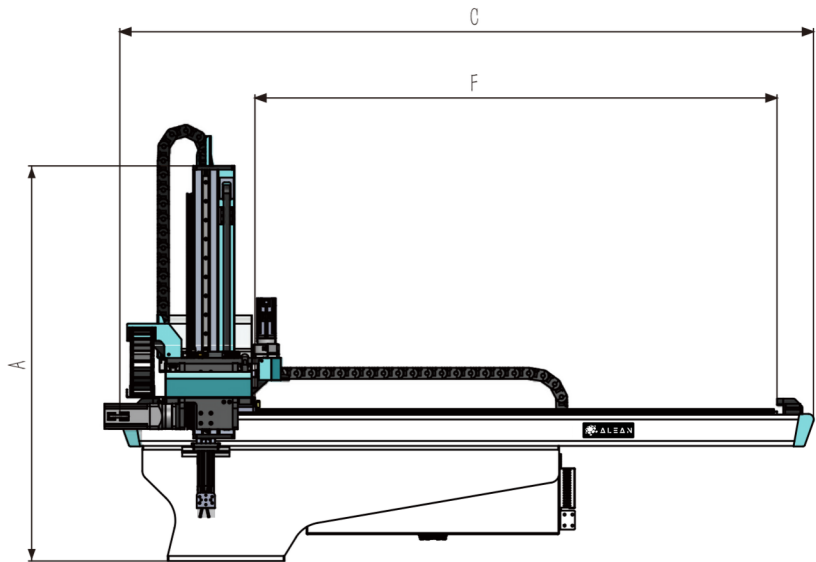
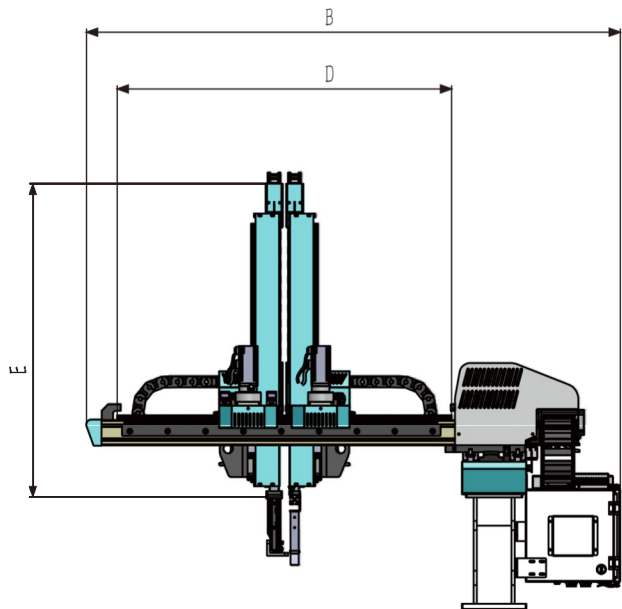
Frame type
five-axis
servo robot



Features

- Arm and pull beam are driven by gear rack transmission
- Frame structure desig, double horizontal linear rail support
- Main and auxilliary puller arm have same profile, allowing a more flexible operation
- Uniform load, fast operating speed, long serving life

Dimensions and parameters



MODEL	A (height)	B (width)	C (length)	D (effective pull beam stroke)	E (effective arm stroke)	F (effective horizontal beam stroke)	Applicable injection molding machines
AFK-700 CW5	1045	1252	1566	419	812	1024	100-200 T
AFK-900 CW5	1473	1178	2081	535	1130	1480	200-300 T
AFK-110 CW5	1583	1185	2179	535	1240	1600	300-450 T

Length unit: mm ; Working voltage: 220V ; Working pressure: 6-8 kgf/cm²
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APT-series

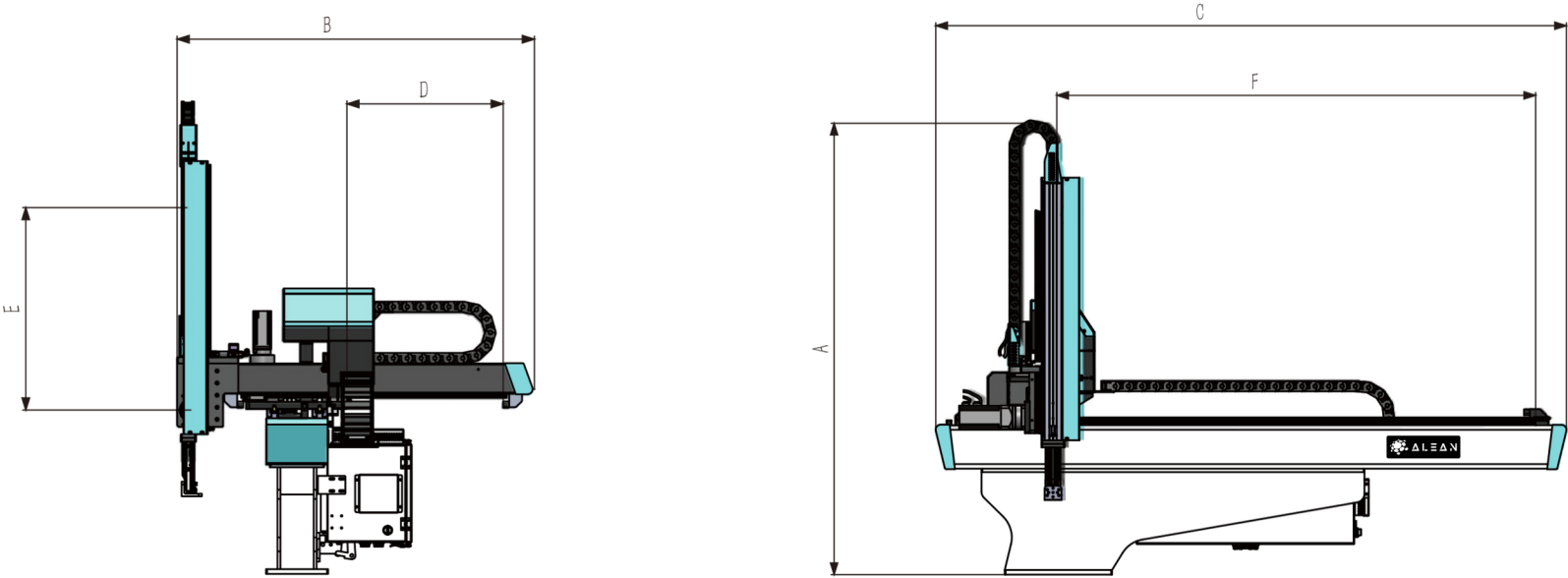
Bull head type
three-axis
servo robot



Features

- Stable structure thanks to the enlarged square crossbeam
- Seamless steel pipe used for puller arm, with increased rigidity
- Arm and pull beam are driven by gear rack transmission
- The center of gravity is set back, to reduce force lever arm and guarantee a stabler operation
- Open structure design, wide fixture application space
- Uniform load, fast operating speed, long serving life

Dimensions and parameters



MODEL	A (height)	B (width)	C (length)	D (effective pull beam stroke)	E (effective arm stroke)	F (effective horizontal beam stroke)	Applicable injection molding machines
APT-900 CW3	1473	1178	2081	535	1130	1480	200-300 T
APT-1100 CW3	1583	1185	2179	535	1240	1600	300-450 T
APT-1300 CW3	1646	1425	2415	703	1488	1889	450-600 T

Length unit: mm ; Working voltage: 220V ; Working pressure: 6-8 kgf/cm²
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APT-series

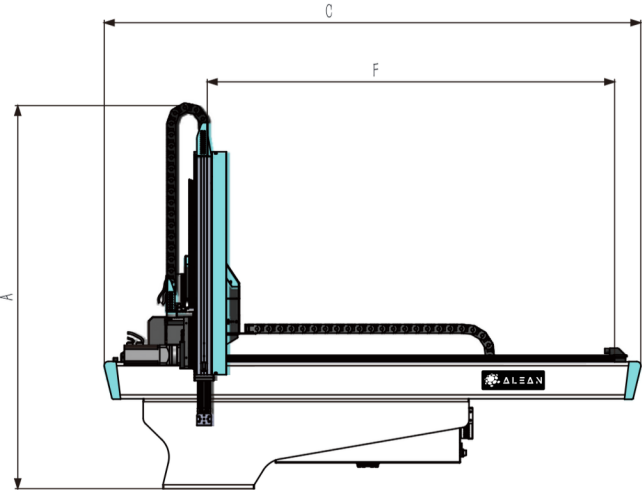
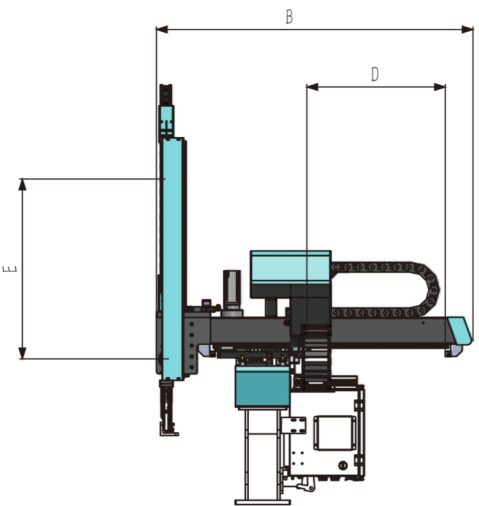
Medium and large
Bull head type
three-axis servo robot



Features

- Stable structure thanks to the enlarged square crossbeam
- Seamless steel pipe used for puller arm, with increased rigidity
- Arm and pull beam are driven by gear rack transmission
- The center of gravity is set back, to guarantee a stabler operation
- Open structure design, wide fixture application space
- Uniform load, fast operating speed, long serving life

Dimensions and parameters



MODEL	A (height)	B (width)	C (length)	D (effective pull beam stroke)	E (effective arm stroke)	F (effective horizontal beam stroke)	Applicable injection molding machines
APT-1500 CW3	1770	1720	3050	900	1700	2430	650-800 T
APT-1700 CW3	1890	2030	3500	1200	1900	2870	800-1000 T
APT-1900 CW3	2140	2090	3680	1350	2100	2870	1000-1300 T
APT-2100 CW3	2420	2430	4000	1550	2300	3400	1300-1800 T
APT-2500 CW3	2730	2550	4000	1980	2700	3400	1800-2200 T
APT-3000 CW3	3150	2790	4500	2300	3100	3900	2800-3000 T

Length unit: mm ; Working voltage: 220V ; Working pressure: 6-8 kgf/cm²
Due to improvements and other reasons, no notice will be given for specification and appearance changes

Labeling machine series

Top-entry five axis double arm
high-speed labeling machine
IML (for plane labeling)

Features

- Easy operation, only little training required
- Quick and easy changing of label
- Strong versatility, labeling and picking can be switched to accomodate multiple molds
- Low use and maintenance costs

Suitable for in-mold labeling of round and square covers

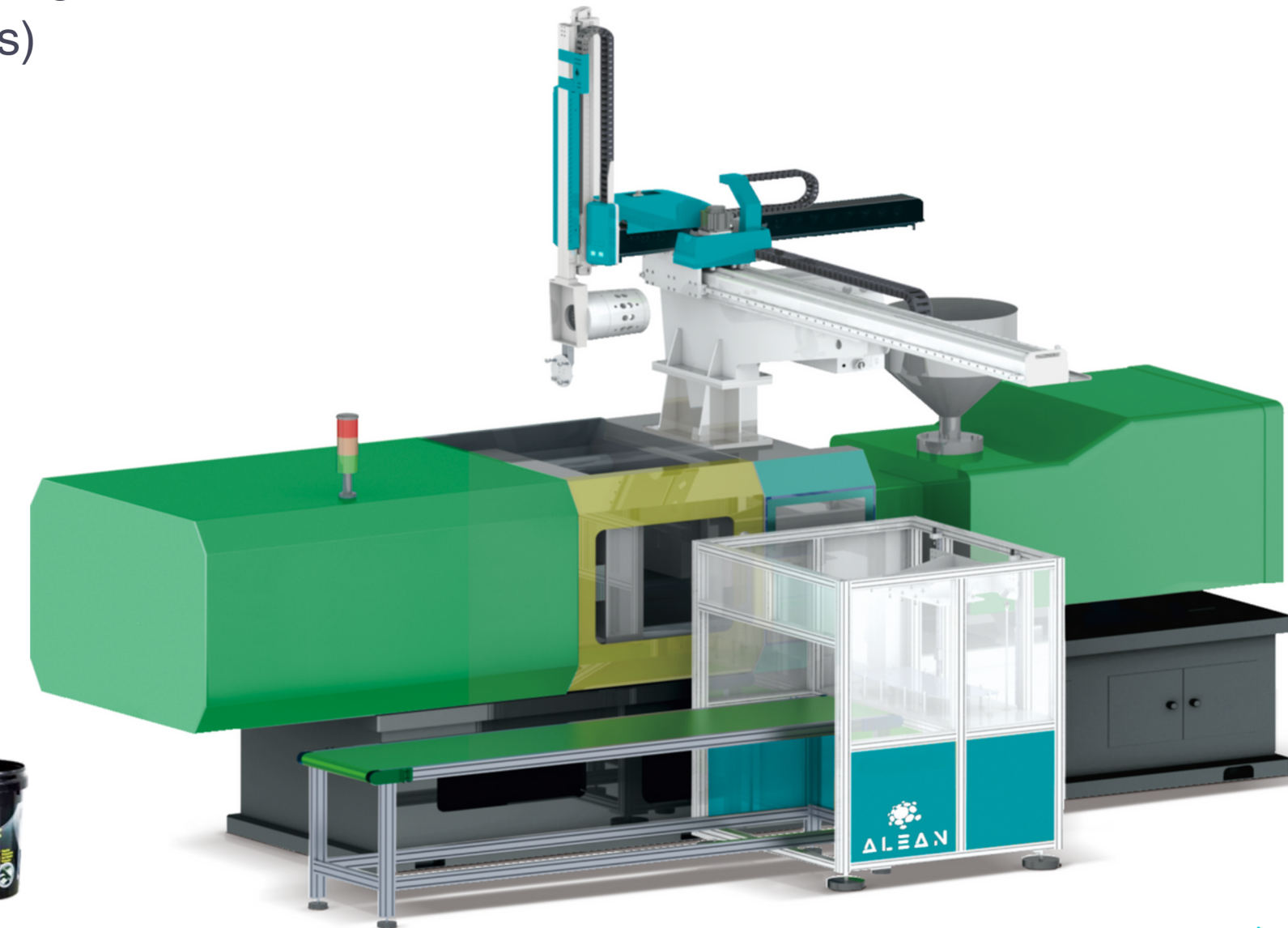


Labeling machine series

Top-entry three axis
high-speed labeling machine
IML (for barrels)

Features

- Small footprint
- Easy to operate
- Cost-effective



Labeling machine series

Side-entry type in-mold labeling machine
(standard series ABZ-IML)

Features

- Strong structure
- High-speed operation



Labeling machine series

Side-entry type in-mold labeling machine
(multifunctional universal series ATY-IML)

Features

- Large internal space, suitable for standard bins of various sizes
- Easy operation for bottom and cover interchange
- Large shock-absorbing feet can be raised and lowered by 400mm, making it compatible with 200-700 T injection molding machines



Packing series

Automatic packaging machine
for knives, forks and spoons

Features

Achieves automatic part removal, sprue removal,
stacking, automatic sorting, and automatic packaging,
providing a fully automated, unmanned packaging
system



Vertical walking series

Vertical walking robot

Features

- Compared to horizontal robots,
it saves over 30% of space,
aligning with modern workshop
management concepts
- Tailored to customer needs,
compatible with various types of
injection molding machines,
offering a range of vertical robot
solutions

