

기술근본, 상호신뢰, 동반성장을 기업이념으로 출발한 저희 아테스는 풍부한 경험을 가진 전문인력들의 노하우를 바탕으로 최상의 로봇 포장시스템을 공급함으로써 고객의 신뢰에 보답하도록 하겠습니다.

- 임직원 일동 -

스파이럴 컨베이어
Spiral Conveyor



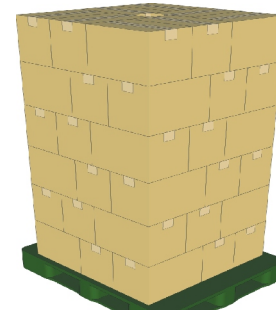
Single Lane

Dual Lane

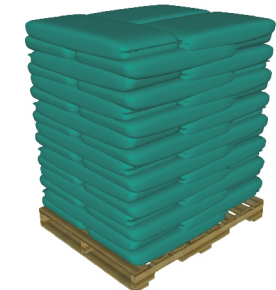
Mass Flow

Heavy Duty

로봇트 파렛타이징 시스템
Robotic Palletizing System

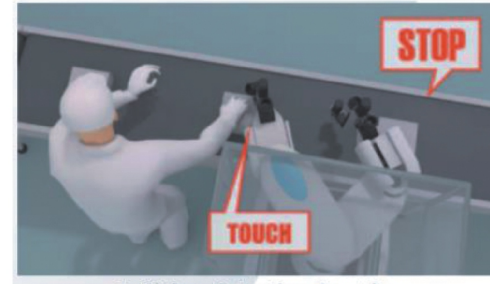


Box 적재



Bag 적재

파렛트 이송 컨베이어 시스템
Pallet Conveyor system



80W 이하의 저출력 모터로 인한 부드러운 동작, 충돌감지 기능으로 작업자 부근의 저속동작 가능

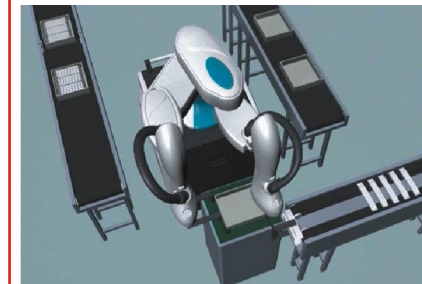
Specifications

Product name		duAro 1	
Degree of freedom (axes)		4 x 2 arms	
Max. payload (kg)		2 (1 arm)	
Positional repeatability (mm)		±0.05	
Motion range (°)	Arm rotation (°)	Arm 1 (lower arm)	Arm 2 (upper arm)
	Arm rotation (°)	- 170 ~ +170 (JT1)	- 140 ~ +500 (JT1)
	Arm rotation (°)	- 140 ~ +140 (JT2)	- 140 ~ +140 (JT2)
	Arm up-down (mm)	0 ~ +150 (JT3) *1	0 ~ +150 (JT3) *1
		Wrist swivel (°)	- 360 ~ +360 (JT4) *1 - 360 ~ +360 (JT4) *1
Number of controlled axes		Max. 12	
Drive system		Full digital servo system	
Coordinate systems		Joint, Base, Tool	
Types of motion control		Joint/Linear/Circular Interpolated motion	
Programming		Programming, Direct teach	
Memory capacity (MB)		4	
General purpose signals	Input (Channels)	12 (Max. 28) *2	
	Output (Channels)	4 (Max. 12) *2	
Power requirements		AC200-230V ±10%, 50/60Hz±2%, 1ø, Max. 2.0kVA Class-D earth connection (Earth connection dedicated to robots), leakage current: maximum 10mA	
Mass (kg)		about 200	
Installation		Floor	
Environmental condition	Temperature (°C)	5 - 40	
	Humidity (%)	35 - 85 (No dew, nor frost allowed)	

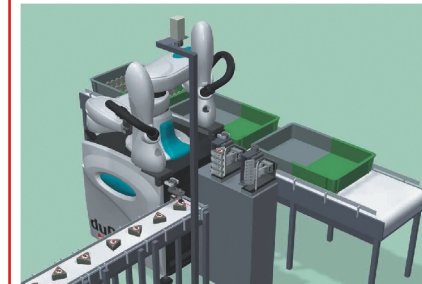
*1. Specification varies in case of other options or conversion

*2. Option

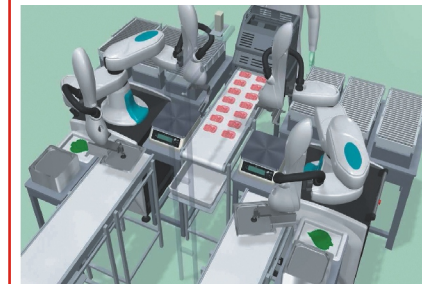
과자 상자포장



주먹밥 트레이포장



육류 트레이포장



종이컵 박스포장



고객 가치 중심의 자동화 혁신
Robotic Automation Partner

아테스
ARTES
Advanced Robot of Technology Expansion System

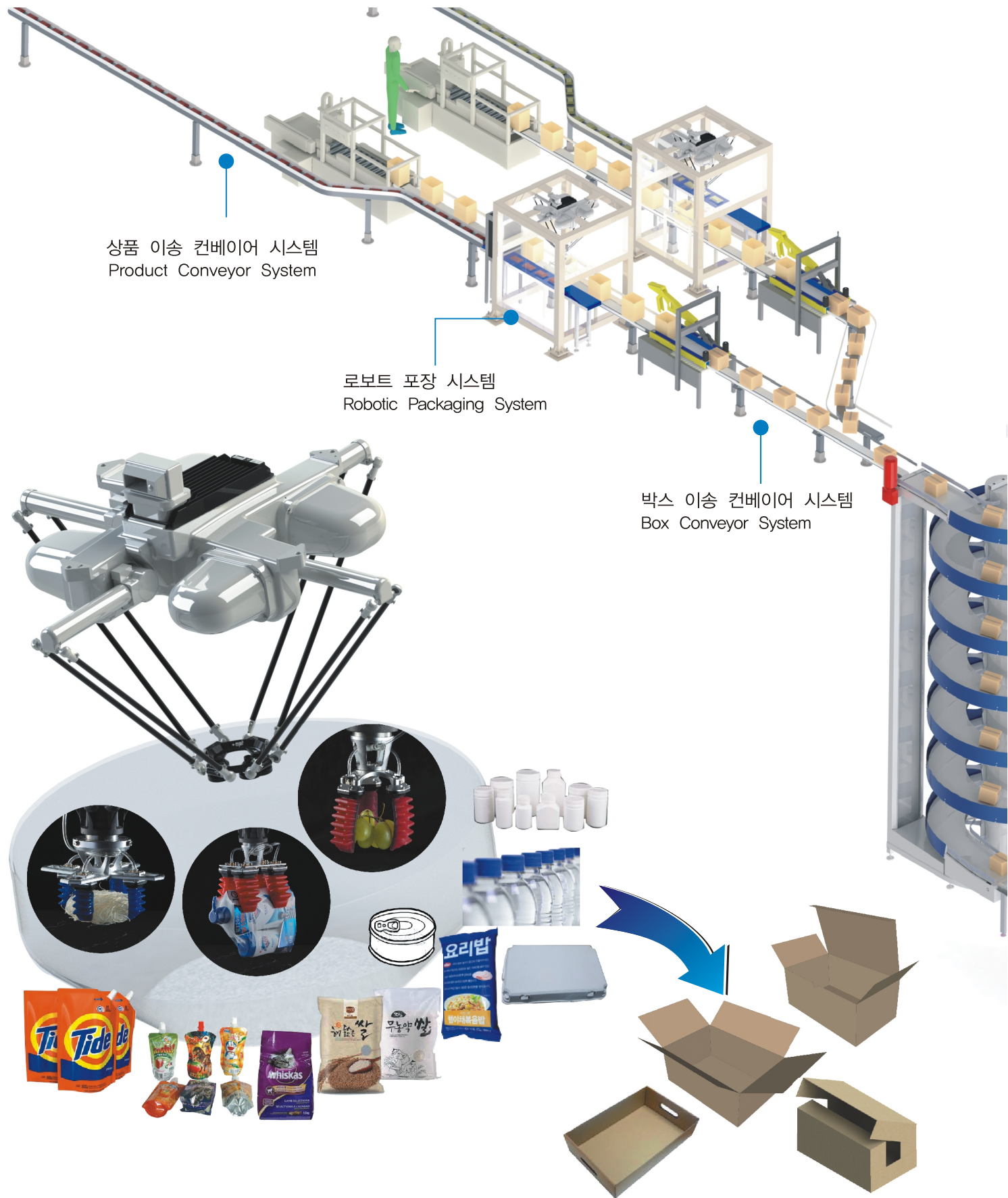


아 테 스

본사 : 인천 서구 원석로 146 3동(원창동)

TEL 032 578 1231 / FAX 032 578 1232

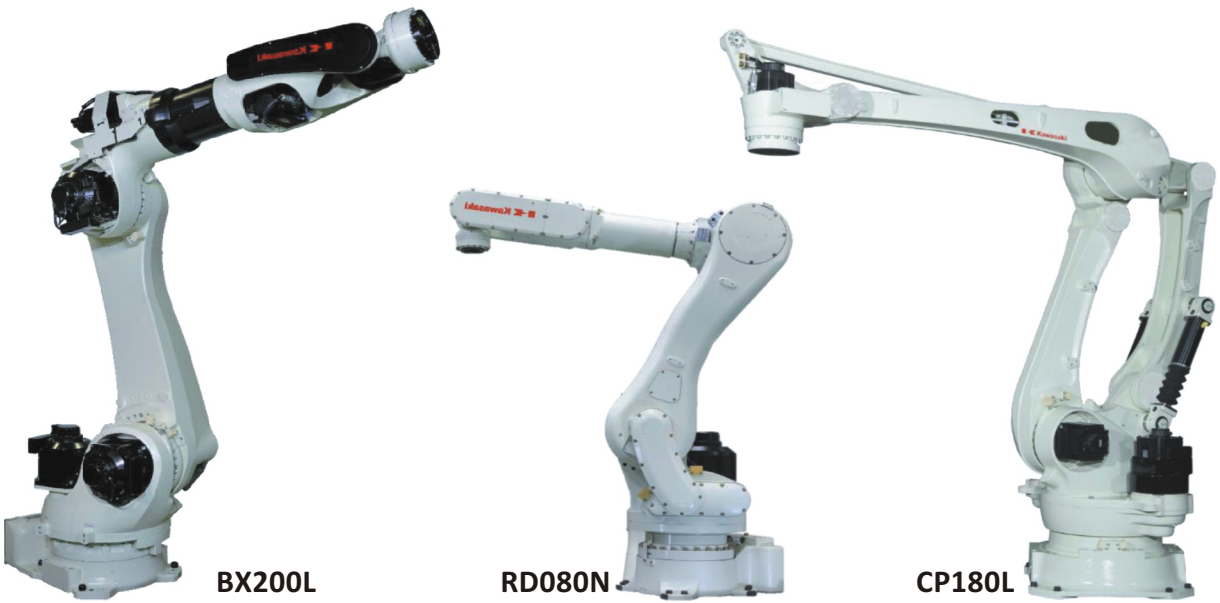
<http://www.artesys.co.kr>



Specifications

Product name		Quattro 650H	Hornet 565
Number of axes		4	4
Mounting		inverted	inverted
Working volume	X, Y axis (stroke)	1300mm	1130mm
	Z axis (stroke)	500mm	425mm
	θ axis (rotation angle)	0° (fixed) (P30)	±360°
		±46.25° (P31)	
		±92.5° (P32)	
±185° (P34)			
Maximum payload		6kg (P30: 15kg)	3kg
Repeatability		±0.10mm	±0.10mm
Cycle times, sustained (at 20°C ambient)	Payload 0.1kg	0.30s ^{*1} / 0.46s ^{*2}	0.35s ^{*1}
	Payload 1.0kg	0.36s ^{*1} / 0.47s ^{*2}	0.37s ^{*1}
	Payload 2.0kg	0.37s ^{*1} / 0.52s ^{*2}	-
	Payload 3.0kg	-	0.42s ^{*1}
	Payload 4.0kg	0.41s ^{*1} / 0.58s ^{*2}	-
	Payload 6.0kg	0.43s ^{*1} / 0.61s ^{*2}	-
Power requirements		DC24V: 11A (eAIB, SmartController) AC200~240V: 10A, single-phase	DC24V: 6A AC200~240V: 10A, single-phase
Protection	Base	IP65 (with optional cable sealing kit)	IP65 ^{*3}
	Tooling	IP67	-
	Platform	-	IP67
Environment requirements	Ambient Temperature	1~40°C	1~40°C
	Humidity Range	5~90% (non-condensing)	5~90% (non-condensing)
Weight		117kg	52 kg
Basic configuration	Controller	SmartController EX	eAIB
	On-board I/O(Input/Output)	12/8	12/8
	Conveyor tracking input	4	2
	RS-232C serial communications port	1	1
	Programming environment	ACE, PackXpert, PLC	ACE, PackXpert, PLC
	ePLC Connect	Yes	Yes
		ePLC I/O	Yes
Connectable controller ^{*4}		SmartController EX, NJ/NX Series ^{*5}	SmartController EX, NJ/NX Series ^{*5}

^{*1} 1. Adept cycle, in mm (25/305/25) ^{*2} 2. Extended cycle, in mm (25/700/25) ^{*3} 3. IP67: arms and platform, IP65: underside of robot, IP20: topside of robot, IP65: topside of robot (with option cover) ^{*4} 4. Choose a controller to suit your application. ^{*5} 5. The robot version 2.3.C is required to connect with the NJ/NX Series.



Specifications

Product name		BX100L / 165L / 200L	RD080N	CP180L	CP300L
Degrees of freedom (axes)		6	5	4	4
Max. payload (kg)		100 / 165 / 200	80	180	300
Max. reach (mm)		2,597	2,100	3,255	3,255
Motion range (°)	Arm rotation (JT1)	±160	±180	±160	±160
	Arm out-in (JT2)	+76 ~ -60	+140 ~ -105	+95 ~ -46	+95 ~ -46
	Arm up-down (JT3)	+90 ~ -75	+40 ~ -205	+15 ~ -110	+15 ~ -110
	Wrist swivel (JT4)	±210	±360	±360	±360
	Wrist bend (JT5)	±125	-	-	-
	Wrist compensation	-	±10 ^{*4}	-	-
	Wrist twist (JT6)	±210	-	-	-
Max. speed (°/s)	Arm rotation (JT1)	105 / 120 / 105	180	140 ^{*5}	115 ^{*6}
	Arm out-in (JT2)	130 / 110 / 90	180	125 ^{*5}	100 ^{*6}
	Arm up-down (JT3)	130 / 130 / 100	175	130 ^{*5}	100 ^{*6}
	Wrist swivel (JT4)	200 / 170 / 120	360	400 ^{*5}	250 ^{*6}
	Wrist bend (JT5)	160 / 170 / 120	-	-	-
	Wrist twist (JT6)	300 / 280 / 200	-	-	-
Moment of Inertia (kg·m ²)	Wrist swivel (JT4)	85 / 99 / 199.8	13.7	50 ^{*5}	100 ^{*6}
	Wrist bend (JT5)	85 / 99 / 199.8	-	-	-
	Wrist twist (JT6)	45 / 49.5 / 154.9	-	-	-
Working area(mm)	Width	-	1,100	1,800	1,800
	Depth	-	1,100	1,600	1,600
	Height	-	2,062.3	2,200	2,200
Palletizing capacity ^{*1} (cycle/hour)		-	900	2,050 ^{*5}	1,700 ^{*6}
Repeatability (mm) ^{*2}		±0.2	±0.07	±0.5	±0.5
Mass (kg)		930	540	1,600	1,600
Installation		Floor	Floor	Floor	Floor
Power requirements ^{*3} (KVA)		7.5	4.5	12	12

^{*1} 1. Motion pattern (400 mm up, 2,000 mm horizontal, 400 mm down in a to-and-fro motion) ^{*2} 2. conforms to ISO9283 ^{*3} 3. depends on the payload and motion patterns ^{*4} 4. operating angle of the JT5 is ±10 degrees perpendicular to the ground ^{*5} 5. in case of 130 kg payload and less ^{*6} 6. in case of 250 kg payload and less