

DRIVING HUMAN MOTION INTELLIGENCE



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 **ark motion**
SPECIALIZED IN MOTION SOLUTION

info@arkmotion.com | www.arkmotion.com

INTEGRATED QDD JOINT MODULE

Small but powerful beyond imagination

Torque | 5.5 Nm, 14 Nm, 17 Nm, 36 NM, 60 Nm, 120 Nm



ARK UniCon - S (Standard Version)

Robust Switches for ID & Configuration.
Streamlined, display-less compact design.
Ideal for set-and-forget industrial integrations

ARK UniCon - X (Extended Version)

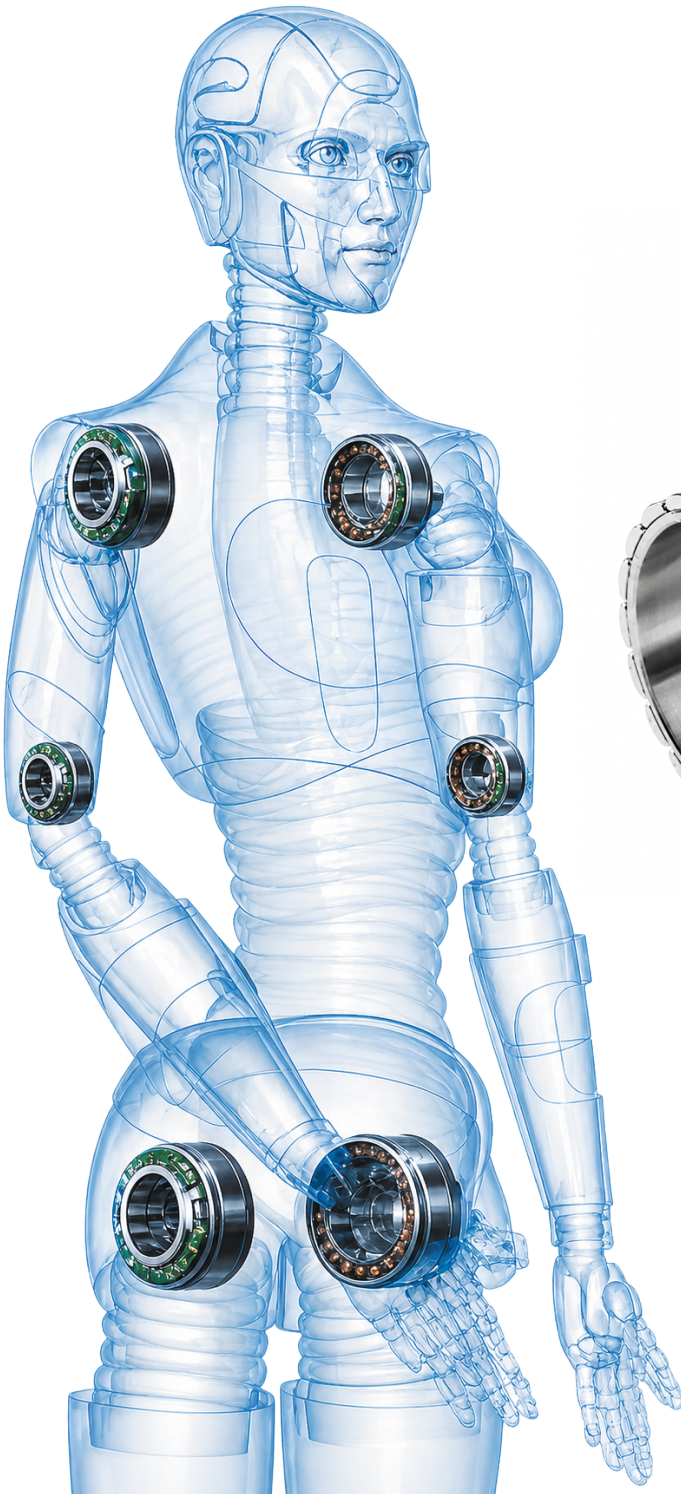
Stunning 5-Inch Capacitive Touch Display.
GUI for configuration and monitoring.
Advanced on-screen diagnostic tools

UNIVERSAL CONVERTER ARK UniCon SERIES

The ARK UniCon series is a professional grade, universal communication converter designed to bridge multiple industrial protocols and interfaces. Available in two distinct models to suit different installation and interaction needs.

FRAMELESS MOTORS

Frame Size : 25-122mm | Rated Speed : 620- 10000 rpm



- Vacuum potting
- High Insulation Class
- High Torque Density
- Low Cogging Torque

WHEEL DRIVE SOLUTIONS

Frame Size : 38- 130mm | Payload : 100- 2000 kg



Motor power options include:

50W, 100W, 200W, 400W, 750W, 1kW, 1.5kW, 2kW & 3kW.

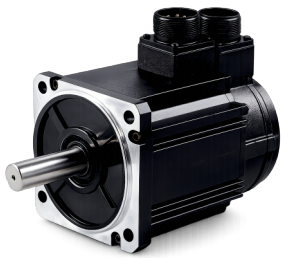
Available gear ratios: 1:6, 1:9, 1:15, 1:20 etc

Wheel diameters offered: 100mm, 135mm, 150mm, 165mm, 200mm etc.

All wheel drive motors can be supplied with or without a brake.

Integrated Servo Wheels option is available.

STANDARD MOTORS



SERVO MOTOR

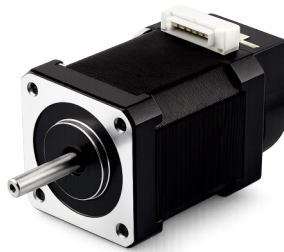
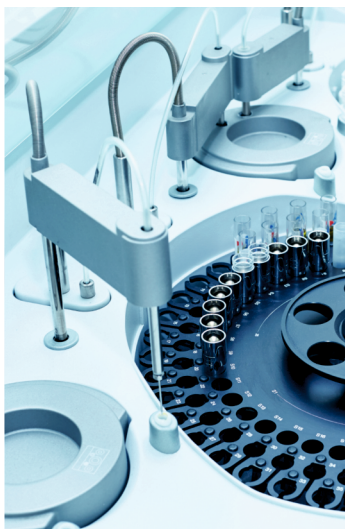
High-performance
Rare Earth Magnet

Three Times Overload

IP65 Protection

Insulation: Class F

Output Power: Up to 5000W



STEPPER MOTOR

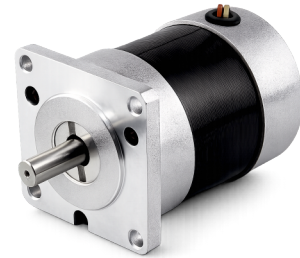
Frame Size: Nema 6~Nema 42

Holding Torque: Up to 28Nm

High Slot Filling

Option: IP65 protection,

Encoder Connector, Class F



BLDC MOTOR

Frame Size: 14mm~130mm

Output Power: Up to 3000W

High Efficiency

Low EMI

High Torque





TECHNOSOFT



iPOS3604 VX / iPOS3604 MX Intelligent Servo Drives

36 V, 4 A | 144 W

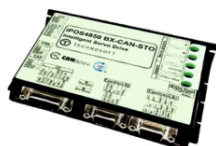
- Fully digital drives with embedded motion controller
- For brushless, DC brush and step motors
- Motor / logic supply : 9 - 36V/7 - 36 VDC
- Output current: 4 A continuous 10 A peak
- CANopen, or EtherCAT communication interfaces
- Compact plug-in or covered-frames designs



Micro4804 SY Multi Axis Motion System

7 - 48 V | 4 x 150 W

- Motion system with 3 or 4 Micro 4804 MZ drive controllers Brushless rotary and linear motors, voice coils, DC brushed and stepper motors
- Motor / logic supply: 7-48 VDC /6-48 VDC
- Output current: 5.7 A (4ARMS) nominal; 16 A (11.3ARMS) peak
- Communication via RS232, USB, CAN/CANopen (standard), EtherCAT
- STO inputs with safety integrity level SIL3/Cat3/PLe
- Size (L x W x H): 71,4 x 118,2 x 21,7 mm



iPOS4850 BX Intelligent Servo Drives

48 V, 50 A | 2.5 KW

- Intelligent, compact and freely programmable motor controller
- For brushless, DC brush and step motors
- Motor / logic supply: 11 - 60 / 9 - 36 VDC
- Output current: 64 A (45ARMS) nominal, 90 A (64ARMS) peak
- Supports various feedback options including absolute encoders
- Communication via RS232, TMLCAN and CANopen interfaces
- STO inputs with safety integrity level SIL3/Cat3/PLe



iGVD71 BX Intelligent Servo Drive

80 V, 100 A | 8 KW

- Intelligent, compact and freely programmable motor controller
- For brushless, DC brush and step motors
- Motor / logic supply: 11 - 80 / 18 - 36 VDC
- Output current: 100 A (71ARMS) nominal; 140 A (100ARMS) peak current
- Supports various feedback options including absolute encoders
- Communication via RS232, TMLCAN and CANopen interfaces
- STO inputs with safety integrity level SIL3/Cat3/PLe

PORTESCAP

Compact, Powerful Motors for Your Application

Choose the standard motor technology that meets your needs for speed, torque, size, efficiency and acceleration or rely on our advanced custom engineering to get the exact windings, magnet types, commutation technologies, shafts, leads and other features you need for an optimized solution.



Brushless Slotted DC

Frame Size: 12.7 - 50.8mm (0.5 - 2")
Speed: up to 100,000 rpm
Torque: up to 6,526.6 mNm (924.17 oz- in)



Stepper Disc Magnet

Frame Size: 10 - 85mm (0.4 - 3.3")
Speed: up to 10,000 rpm
Torque: up to 325 mNm (46 oz- in)



Brushless Slotted DC

Frame Size: 16 - 26mm (0.63 - 1.02")
Speed: up to 70,000 rpm
Torque: up to 98 mNm (13.8 oz- in)



Digital Linear Actuator

Frame Size: 20 - 57mm (0.8 - 2.2")
Speed: up to 500 full step/s
Torque: up to 125 N (28.1 lbf)



Brush DC Coreless

Frame Size: 8 - 35mm (0.31 - 1.38")
Speed: up to 16,000 rpm
Torque: up to 160 mNm (22.6 oz- in)



Gearheads

Frame Size: 8* - 40 mm (0.31 - 1.57")
Speed: up to 10,000 rpm
Torque: up to 10Nm (1,416 oz- in)

*upon request

MINIATURE CENTRIFUGAL BLOWERS



C45S1 New



Sub-miniature, sensorless, for transport & emergency, therapy and sleep-apnea

Pressure (Pa) 5 700

Flow (lpm) 260

C54I2



2-stage, ultra-quiet, sensorless, for sleep-apnea (High-pressure version)

Pressure (Pa) 5 500 (10 200)

Flow (lpm) 330 (430)

C65MS1-04



For transport & emergency, different power levels and integrated driver, optionally O₂

Pressure (Pa) 7 800

Flow (lpm) 470

C65B2 New



Super-high-pressure 2-stage, for ICU and cough-therapy, optionally O₂

Pressure (Pa) 15 270

Flow (lpm) 516

C65S1



For transport & emergency, different power levels, optionally O₂

Pressure (Pa) 7 260

Flow (lpm) 500

C60S1-04



Ultra-quiet, cost-effective, for sleep-apnea, integrated driver, optionally O₂

Pressure (Pa) 7 550

Flow (lpm) 460

C65DT1 New



High performance, ultra-high dynamics, for ICU and neonatal, optionally O₂

Pressure (Pa) 10 800

Flow (lpm) 500

C65T1



Ultra-flat, sensorless, for sleep-apnea and therapy

Pressure (Pa) 5 400

Flow (lpm) 460

C68SD1



Ultra-quiet, cost-effective, for sleep-apnea

Pressure (Pa) 5 600

Flow (lpm) 450

C75MS1-04



High-power, for transport & emergency, different power levels and integrated driver, optionally O₂

Pressure (Pa) 5 500

Flow (lpm) 510

C85MS1-04



Ultra-high-power, for cough therapy and industrial, integrated driver

Pressure (Pa) 14 160

Flow (lpm) 1 085

C95B1 New



Industrial, high-power, general purpose

Pressure (Pa) 9 400

Flow (lpm) 1 312

C95MS1-04



Industrial, general purpose, integrated driver

Pressure (Pa) 3 290

Flow (lpm) 835

CF090



Flat, frameless design (customer housing), for steam evacuation

Pressure (Pa) 940

Flow (lpm) 770

C105H2 New



Industrial, ultra-high-power 2-stage, integrated driver

Pressure (Pa) 18 500

Flow (lpm) 727

OUR ASSOCIATES



A REGAL REXNORD BRAND

CRAFTED FOR CONTROL, BUILD TO PERFORM

INTEGRATED QDD JOINT MODULE



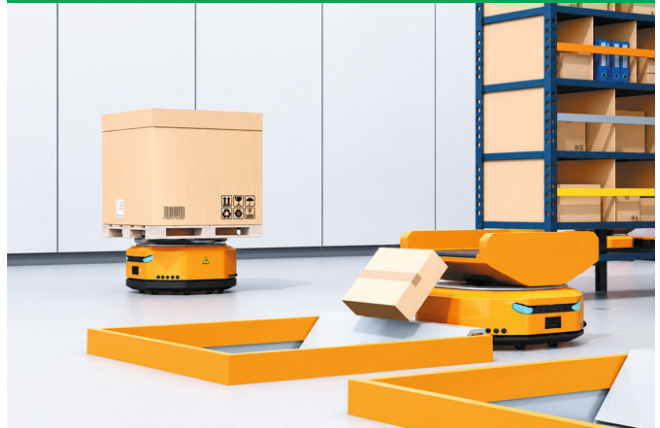
Torque : 5.5, 14, 17, 36, 60, 120Nm



WHEEL DRIVE SOLUTIONS



Payload 100-2000 kg
Power : 50-3000W



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