Light Duty











Light duty articulating pneumatic arm



AAA4000 - product overview

P/N: AAA4000

The **AAA4000** light duty articulating pneumatic arm is a parallelogram arm designed to **lift, rotate, balance and move parts** from conveyors, dunnage, assembly lines and many other applications.

The AAA4000 uses **a single rear-mounted cylinder** to achieve higher lifting capacity. By absorbing torque reaction, it reduces operator fatigue and makes lifting and handling parts easy.

The overhead AAA4000 travels inside **RAD4110, RAD6110 or RAD7510** aluminum rail systems along the "X", "Y" and "Z" axes, with a wide range of control configurations. The Linear Mounted Arm version runs on the **LRD9500** rail system.

FULLSHARP supplies the AAA4000 in all three mounting styles: **overhead, floor pedestal and linear rail**. Maximum balancing capacity is up to **80 lbs. [36 kg]** with a 24 in. arm and **65 lbs. [29 kg]** with a 36 in. arm, at a minimum of 60 psi. Capacity varies with reach.

Note: The carriage pan and extension boom shown in the illustrations are not included with the standard product.

Features & benefits

Features

- Travels inside Knight RAD4110, RAD6110 or RAD7510 rail systems.
- Lifts, rotates, balances and manipulates parts with minimal effort.
- Wide range of control configurations.
- Overhead carriage pan size: 24 in. [609 mm] or 36 in. [914 mm].
- Maximum arm length: up to 36 in. [914 mm].
- Maximum extension boom length: up to 36 in. [914 mm].
- Maximum vertical stroke: up to 36 in. [914 mm].
- Maximum mast height: up to 9 ft. [2.743 mm].
- Maximum pedestal height: up to 6 ft. [1.828 mm].
- Maximum lift/balance capacity: 80 lbs. [36 kg] with a 24 in. arm and 65 lbs. [29 kg] with a 36 in. arm, at 60 psi.

Benefits

- Three mounting styles: overhead, floor mounted or linear rail mounted.
- Floor mounted version eliminates the need for an overhead rail system.
- Adjustable arm height.
- Reduces operator fatigue.
- Arm moves along all three "X", "Y" and "Z" axes.
- Effectively absorbs torque reaction.
- Optional pivot brake.
- Optional parking brake.
- Optional clutch brake.

- Suited to automotive, electronics and mechanical assembly lines.

Technical specifications

Part number	AAA4000 (Overhead / Pedestal / Linear)
Arm type	Articulating Parallelogram Arm
Mounting style	Overhead / Floor pedestal / Linear rail
Power source	Pneumatic - minimum 60 psi [4,1 bar]
Cylinder type	Single Rear Cylinder
Maximum balance capacity (24 in. arm)	80 lbs. [36 kg] @ 60 psi
Maximum balance capacity (36 in. arm)	65 lbs. [29 kg] @ 60 psi
Maximum reach (without extension boom)	36 in. [914 mm]
Maximum extension boom length	36 in. [914 mm]
Maximum vertical stroke	36 in. [914 mm]
Carriage pan size	24 in. [609 mm] or 36 in. [914 mm]
Mast height	Up to 9 ft. [2.743 mm]
Pedestal height	Up to 6 ft. [1.828 mm]
Compatible rail systems	RAD4110 / RAD6110 / RAD7510 (aluminum) - LRD9500 (Linear version)
Travel axes	X, Y, Z
Brake options	Pivot Brake / Parking Brake / Clutch Brake

Compatible accessories

General accessories



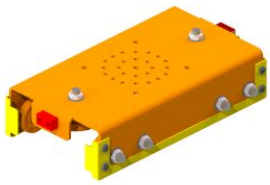
Arm travel stop assembly Weight: 3,9 lbs [1,79 kg] AAA4005



Pneumatic parking brake Stroke 0,75 in. [19,1 mm] ASA9510



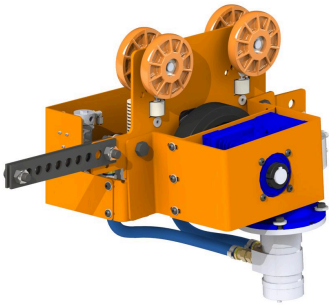
Bearing clutch brake Static torque 102-411 Nm ASA9522



Linear rail carriage - LRD9500 Weight: 35,9 lbs [16,28 kg] MLRA9501



LRD9500 rail mounting plate assembly Weight: 15,4 lbs [6,99 kg] MLRA9502



Lubrication-free pneumatic trolley drive Max. load: 2.000 lbs [908 kg] TRA5500

Load trolley



Yoke load trolley - RAD4110 Max. load: 1.100 lbs [499 kg] MRTA4009



Low profile load trolley - RAD6110 Max. load: 1.600 lbs [725 kg] MRTA6123



Yoke load trolley - RAD7510 Max. load: 3.000 lbs [1.360 kg] MRTA7723

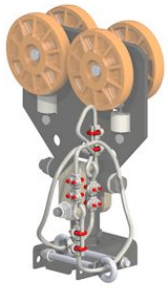


S-beam trolley Flange width 2,66 in. or 4,00 in. ATA2604

Safety cable



Standard safety cable kit Diameter 6mm, length 1,8m RWA4133



Eye bolt safety cable kit Diameter 6mm, length 3m FDA4133



Oval sleeve safety cable kit Diameter 6mm, length 3m NICORWA4133

Technical documents

General catalog

- Arms Brochure PDF

CAD drawings

- AAA4000 CAD Drawing ZIP

Spec sheets

- AAA4000 Overhead Arm - Spec Sheet PDF
- AAA4000 Pedestal Arm - Spec Sheet PDF
- AAA4000 Linear Arm - Spec Sheet PDF

FULL-SHARP AUTOMATIZED VN (FULLSHARP)
Authorized distributor of Knight Global pneumatic arms in Vietnam
For more details on the AAA4000, please contact a FULLSHARP representative.

Contact us for consultation and a quotation

Vietnam factory: Workshop A1-1, VSIP Hai Phong, Nam Trieu Ward, Hai Phong City · +84 817 888 198
Taiwan factory: Zhongli District, Taoyuan City · +886 3-451-8806
Email: sales@fullsharp.com.vn · **Website:** www.fullsharp.com

Specifications may vary with the ordered configuration. Please contact FullSharp for exact details.