



# TOOL SUPPORT SYSTEMS *2026*



For more than 50 years, AIMCO has been working with manufacturers around the world. We are the complete global source for all critical fastening and bolting solutions. AIMCO can effectively and swiftly meet your needs whether you're in Tennessee, USA fastening a 3 mm nut at 3 Nm, or in Denmark servicing wind-turbine bolts at 17,000 Nm. AIMCO provides the tools and solutions, on a global scale, that guarantee the success of your project. It is with great pride that AIMCO can say the products that we manufacture are **DESIGNED AND ASSEMBLED IN THE USA.**

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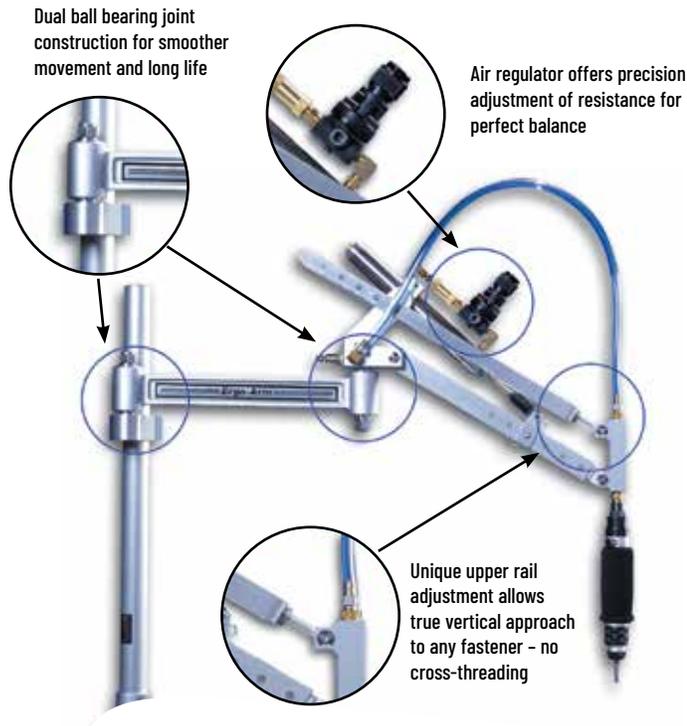
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## TOOL SUPPORT SYSTEMS

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# Ergo Arm Tool Support Systems

## ERGO ARMS



### Versatile Ergo Arms Absorb Torque Reaction while Perfectly Balancing Tool Weight

AIMCO's Parallel Ergo Arms reduce operator fatigue for electric and pneumatic tools. The durable, lightweight construction provides minimal resistance and low inertia during high-cycle use. The adjustable height, length, and elbowed joint increases accessibility with minimal travel to the fastening application.

#### Tools recommended for use with this arm:

- AcraDyne 1000 and 2000 Series
- Uryu LT Series Pneumatic Screwdrivers
- Electra Electric Screwdrivers
- Inline Tools

## FEATURES AND BENEFITS

- Allows for freedom of movement
- Vertical adjustment eliminates cross-threading
- Fixtured tool increases repeatability
- Adjustable reach

### Parallel Ergo Arms

Model	Arm Style	Tool Mount	Reach		Capacity		Maximum Torque*	
			IN	MM	LB	KG	IN-LB	NM
OIL CYLINDER								
AD-D1098-P	Parallel	Air manifold	4 - 33	102 - 838	0 - 15	0 - 7	110	12

\* Max torque allowed may be dependent on tool clutch type and joint rate

# Carbon Torque Arms

## ACA SERIES TELESCOPING CARBON ARMS

### Telescoping Carbon Arms



ACA Series Carbon Arms are lightweight, yet strong devices designed to absorb torque reactive forces. Highly flexible and modular, they adapt to a wide range of tools, and eliminate hazards to operators during fastening processes.

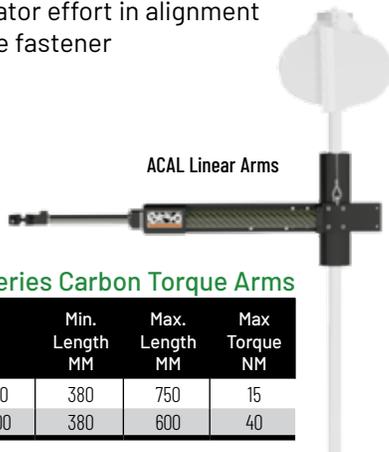


Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools
- Screwdrivers

## FEATURES AND BENEFITS

- Absorb torque reaction from continuous drive tools
- Counter balance tool weight when configured with AIMCO's wide array of tool balancers or with integrated balancer kits
- Orient tool correctly to the workpiece to improve efficiency and reduce operator effort in alignment to the fastener



### ACAL Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACAL-15-600	380	750	15
ACAL-40-600	380	600	40



ACA80-1500



ACA-V15-1000

### ACA Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA10-1000	495	1,105	10
ACA10-1500	665	1,605	10
ACA15-1000	486	1,066	15
ACA15-1500	646	1,556	15
ACA15-2000	806	2,046	15
ACA40-1000	486	1,066	40
ACA40-1500	646	1,556	40
ACA40-2000	806	2,046	40
ACA40-2500	986	2,576	40
ACA80-1500	658	1,586	80
ACA80-2000	828	2,078	80
ACA80-2500	998	2,588	80
ACA150-1500	668	1,578	150
ACA150-2000	838	1,918	150
ACA150-2500	1003	2,248	150
ACA220-1500	668	1,578	220
ACA220-2000	838	2,088	220
ACA220-2500	1,003	2,588	220

### ACA-V Series Carbon Torque Arms

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA-V15-1000	777	1,345	15
ACA-V15-1500	937	1,835	15
ACA-V15-2000	1,097	2,325	15
ACA-V40-1000	777	1,345	40
ACA-V40-1500	937	1,835	40
ACA-V40-2000	1,097	2,325	40
ACA-V40-2500K	1,277	2,855	40
ACA-V80-1500	949	1,865	80
ACA-V80-2000	1,119	2,357	80
ACA-V80-2500	1,289	2,867	80
ACA-V150-1500	960	1,957.5	150
ACA-V150-2000	1,129	2,357	150
ACA-V150-2500	1,294	2,862	150
ACA-V220-1500	960	1,957.5	220
ACA-V220-2000	1,129	2,357	220
ACA-V220-2500	1,294	2,867	220

# Carbon Torque Arms

## ACA-P2 CARBON SMART ARM

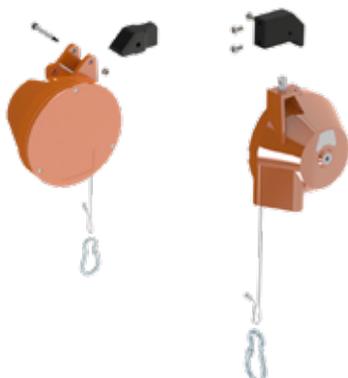


ACA-P240-2500

### ACA-P2 Series Carbon Torque Smart Arm w/X,Y Axis Encoders

(Requires ACA-POSIX System or AcraDyne's Gen IV Smart Arm System)

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACA-P215-1000	647	1,227	15
ACA-P215-1500	803	1,713	15
ACA-P215-2000	977	2,227	15
ACA-P240-1000	647	1,227	40
ACA-P240-1500	803	1,713	40
ACA-P240-2000	977	2,227	40
ACA-P240-2500	1,157	2,737	40
ACA-P280-1500	830	1,757	80
ACA-P280-2000	1,000	2,249	80
ACA-P280-2500	1,169	2,760	80
ACA-P2150-1500	839	1,749	150
ACA-P2150-2000	1,009	2,087	150
ACA-P2150-2500	1,174	2,419	150
ACA-P2220-1500	839	1,749	220
ACA-P2220-2000	1,009	2,259	220
ACA-P2220-2500	1,174	2,760	220



### ACA Series Balancer Kits

Model	Min. Capacity KG	Max. Capacity KG
For ACA-P2 Smart Arms		
ACA-P2BK-4	2	4
ACA-P2BK-6	4	6
ACA-P2BK-8	6	8
ACA-P2BK-10	8	10
ACA-P2BK-14	10	14
For ACAL Linear Arms		
ACAL-BK2.4-5.2	2.4	5.2

## Encoder Options for ACA-P2 Smart Arm

### AcraDyne Gen IV Smart Arm System With Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 13 for more details.



#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller

### ACA-POSIX Positioning System

The compact, self-contained ACA-Posix process visualization system guides operators through their assigned tasks. It connects to ACA-P2 series arms with integrated balancer kits.



#### FEATURES AND BENEFITS

- Intuitive and simple programming on 7" color LCD touch-screen display
- Store up to 500 unique assembly sequences
- Communicates directly with Power Tool controllers over digital I/O
- Store and display product images or CAD drawings. Images/drawings are displayed with targeting sequences to direct operators easily through their task
- Output for synchronizing with line controls

# Carbon Torque Arms

## TOOL HOLDERS FOR TELESCOPING CARBON ARMS

### Tool Holders For AcraDyne Tools

Model	Description
ACAH-40PS1000	Tool holder for carbon fiber arm, AcraDyne 1000 series pistol/straight tools, 40 Nm
ACAH-80PS3-5000	Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 80 Nm
ACAH-150PS3-5000	Tool holder for carbon fiber arm, AcraDyne 3000/5000 series pistol/straight tools, 150 Nm



### General Tool Holders

	Model	Description	Min. Tool Grip MM	Max. Tool Grip MM
For Telescopic Arms				
Base Tool Holders				
	ACAH-15	Base tool holder 4 screws	27	45
	ACAH-40-80	Base tool holder 4 screws	30	60
	ACAH-150-220	Base tool holder 4 screws	40	70
Multi-Position Tool Holders				
	ACAH-15-MPE2745	Multi-position tool holder interface	27	45
	ACAH-150220-MPE4070	Multi position tool holder	40	70
	ACAH-4080-MPE2745	Multi-position tool holder	27	45
Swivel Tool Holders				
	ACAH-S154080	Swivel tool holder 20 to 35 mm	20	35
	ACAH-SL15150	Swivel tool holder 40 to 55 mm	40	55



# Carbon Torque Tubes

## ACCT & ACPTT SERIES CARBON TORQUE TUBES



ACPTT Series  
Anti-Rotation Torque Tube  
with articulation support



ACCT Series  
Anti-Rotation Torque Tube

### Carbon Torque Tubes Are Universal Arms With an Exclusive Design For Maximum Tightening Flexibility

ACCT and ACPTT series carbon torque tubes provide smooth and accurate tool travel from bearing splined shaft construction. These sturdy arms are available in torque ranges of 15 – 80 Nm. They can be used with a variety of tool holders.

#### Tools recommended for use with this arm:

- Continuous Drive Electric and Pneumatic Tools
- Pulse Tools



ACTT-V40-850 300

#### FEATURES AND BENEFITS

- Universal arm with an exclusive design for maximum tightening flexibility
- Provides articulated anti-rotation support when torque reaction is parallel to arm axis

#### ACTT Series Carbon Torque Tubes

Model	Min. Length Mm	Max. Length MM	Max Torque NM
ACTT-V15-600 150	150	600	15
ACTT-V15-800 300	300	800	15
ACTT-V40-600 150	150	600	40
ACTT-V40-850 300	300	850	40
ACTT-V40-1500 600	600	1,500	40
ACTT-V80-900 300	300	900	80
ACTT-V80-1500 600	600	1,500	80
ACTT-V80-2100 900	900	2,100	80

# Carbon Torque Tubes

## ACPTT SERIES CARBON TORQUE TUBES FOR ACSA ARTICULATING SUPPORT ARMS

### ACPTT TORQUE TUBES



#### FEATURES AND BENEFITS

- ACPTT arm designed for use with the ACSA articulating support arm
- ACPTT carbon torque tube provides articulated anti-rotation support when torque reaction is parallel to arm axis
- The ACPTT/ACSA articulating support arm system allows torque reaction arm installation when the workplace can't accommodate suspended overhead structures

#### ACPTT Torque Tubes

Model	Min. Length MM	Max. Length MM	Max Torque NM
ACPTT-V15-510 150	150	600	15
ACPTT-V15-710 300	300	800	15
ACPTT-V40-510 150	150	600	40
ACPTT-V40-760 300	300	850	40
ACPTT-V40-1410 600	600	1,500	40
ACPTT-V80-810 300	300	900	80
ACPTT-V80-1410 600	600	1,500	80



#### ACSA ARTICULATING SUPPORT ARM

#### ACSA Articulating Support Arms

Model	Max Reach MM	Max Height MM	Max Torque NM
ACSA-600-1500	600	1,500	80
ACSA-800-1500	800	1,500	80
ACSA-1000-1500	1,000	1,500	80

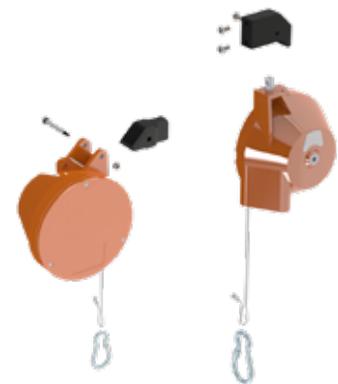
\* Support arm, torque tube, balancer, tool holder, and tool shown for concept.

Items sold separately



#### ACAHTT Tool Holders For ACTT & ACPTT Anti-Rotation Carbon Arms

Model	Description	Min. Tool Grip MM	Max. Tool Grip MM
ACAHTT-15A-3060	Angle Tool Holder, 15 Nm Arm	30	60
ACAHTT-15S-2745	Straight Tool Holder, 15 Nm Arm	27	45
ACAHTT-4080A-3165	Angle Tool Holder, 40/80 Nm Arms	31	65
ACAHTT-4080ASL-3165	Angle Tool Holder with Swivel, 40/80 Nm Arms	31	5
ACAHTT-40S-2745	Straight Tool Holder, 40/80 Nm Arms	27	45



#### ACTT Series Balancer Kit

Model	Min. Capacity KG	Max. Capacity KG
ACTT-BK46	4	6

# GCI Torque Reaction Arms

## GCI ARTICULATING TORQUE ARMS



### Rugged Flexibility for Even the Most Complex Torque Applications

Constructed of durable aluminum, steel, or carbon fiber, GCI Torque Arms are available with multiple tool mounting options for application specifics. These highly ergonomic and user friendly arms are available in torque ranges of 150 Nm to 7,500 Nm and with reaches ranging up to 20 ft.

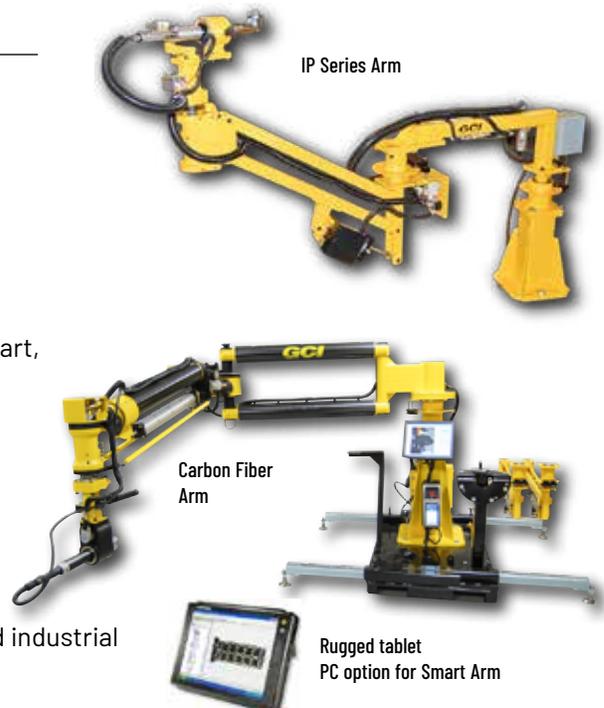
GCI arms can be designed as Smart Arms with two encoder options: PC-based AdaptiCS software (see page 12) and AcraDyne's Gen IV smart arm system with process visualization (see page 13). This complete Smart Arm system error-proofs even the most complex torque applications.

### Tools recommended for use with this arm:

- AcraDyne 3000 - 9000 Series HT tools
- Angle (AEN 5000 series only)
- Straight (AES)
- Axial (AEJ)
- Pistol (AEP)
- Fixtured (AEF)

## FEATURES AND BENEFITS

- Available in aluminum, steel, or carbon fiber
- Configurable installation: floor mount, wall mount, overhead mount, bench mount, or portable base
- Braking options: manual/automatic, discrete braking with verification, parking brakes, and electric/pneumatic actuation
- Tool holding options: fixed position, gimbal mount
- Integrated tool start/brake actuation capability: tool trigger start, remote tool start
- Smart Arm Capabilities:
  - Available with as many as six encoders to monitor all desirable tool positions relative to application
  - Two encoder options:
    - ▶ AcraDyne Gen IV Smart Arm System with Process Visualization (see page 13)
    - ▶ AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC (see page 12)

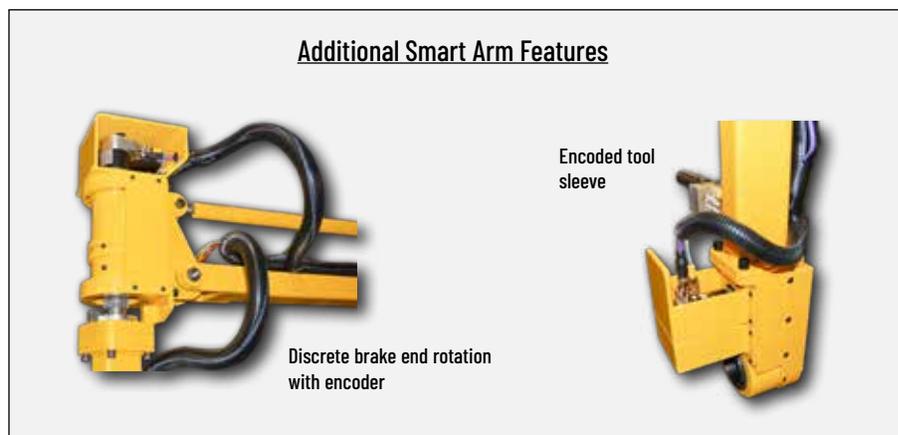


# GCI Torque Reaction Arms

## GCI Torque Reaction Arms

Model	Max. Torque	Max. Tool Weight	Max. Reach	Max. Vertical Travel	Construction
<b>IPT Series - Torques to 375 Nm</b>					
IPT150	150 Nm	12 lb	5 ft	30 in	Aluminum
IPT375	375 Nm	50 lb	6 ft	36 in	Steel
<b>IP Series - Torques to 4,000 Nm</b>					
IP4	550 Nm	30 lb	8 ft	48 in	Steel
IP5	1,000 Nm	50 lb	12 ft	60 in	Steel
IP7	3,000 Nm	100 lb	12 ft	60 in	Steel
IP8T	4,000 Nm	100 lb	12 ft	72 in	Steel
<b>F Series - Carbon Fiber Arms</b>					
F70	70 Nm	10 lb	3 ft	18 in	Carbon Fiber Composite
F600	600 Nm	50 lb	20 ft	72 in	Carbon Fiber Composite
F1500	1,500 Nm	50 lb	20 ft	72 in	Carbon Fiber Composite
F3000	3,000 Nm	75 lb	20 ft	72 in	Carbon Fiber Composite
F7500	7,500 Nm	75 lb	12 ft	72 in	Carbon Fiber Composite

## GCI ARM OPTIONS



# GCI Torque Reaction Arms

## Encoder Options for GCI Smart Arms

### AcraDyne Gen IV Smart Arm System with Process Visualization

AcraDyne's Gen IV controller with smart arm capability and process visualization provides an advanced error-proofing solution to ensure the quality of your fastening operation. The capability is integrated into the Gen IV controller – no need for an external PC or software. See page 13 for more details.

#### FEATURES AND BENEFITS

- Easy to follow visual guidance directly on the Gen IV controller graphical screen
- Easy to program and set up
- Low cost solution vs. competitive offerings
- Modular – can be added at any time to an existing AcraDyne system using the Gen IV controller



### AdaptiCS Software

Intuitive, user-friendly AdaptiCS PC-based software that runs on an integrated industrial PC or on a customer supplied PC. Smart arms guide the operator in programmable torque patterns and count fasteners required for correct assembly.

#### FEATURES AND BENEFITS

- Batch count capabilities
- Bidirectional arm articulation tracking
- Full torque/angle results display
- Integrates into any line control (PLC, MES, etc.)
- Multiple part locate strategies (1-point, 2-point, 3-point)
- Multiple rework strategies to fit requirements
- Fully programmable dynamic display with integrated PC option
- Integrates devices such as torque controllers via open protocol, encoded GCI torque reaction arms, scanners, vision cameras, and digital IO (pass/fail)
- AdaptiCS Enterprise (optional) provides full line control, interlocks, and data collection
- Runs on Windows 7, 8, and 10



# Gen IV Smart Arm System With Process Visualization



## Gen IV Smart Arm System with Process Visualization

### Smart Arm Accessory:

- Requires no external PC or third-party software for operation
- Gen IV Controller Software integrates with plant manufacturing execution software or allows custom programming

Encoders located at each joint of the arm.

Smart Arm guides operator in the specified torque pattern and counts fasteners required for correct assembly.

### Gen IV Controller captures fastening-process data:

- Data captured and reported in real time with torque and graphing capabilities
- Curve results presented in real time or from stored results
- 20,000 curve results can be stored in memory
- Monitor, control, and report torque, angle, engineering units, fastener count, job/job sequence
- Multiple fastening strategies: 256 parameter sets with 20 stages
- Jobs capabilities - 99



Smart Arm Accessory

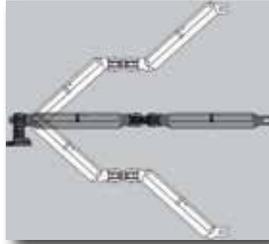
Gen IV Controller with Large 7" Touch Screen

Custom image of run screen with preprogrammed fastener locations/specifications. Updates in real time.

Tool operates only when it is at the correct specified fastener location.

# 3arm Zero Gravity Arms

## 3arm Series 1



<b>Reach</b>	<b>Max Weight</b>
Vertical: 44 in Horizontal: 42 in	22 lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
1SNIDS	Floor Mounted	42	44	22
1AMIDS	Ceiling Mounted	42	44	22

Compatible Head Members (see page 19): B, BA, C, E, EA, F, G, K, N, T

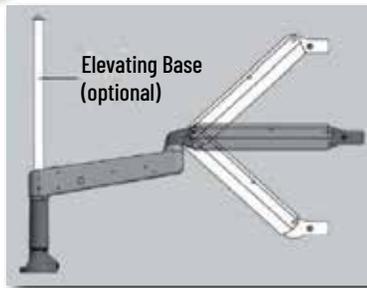
Brake Options	
L00	Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Light and nimble, capable of reaching even the most difficult applications.

## 3arm Series 2



<b>Reach</b>	<b>Max Weight</b>	<b>Max Torque</b>
Vertical: 22 in Horizontal: 34 in	13 lb	120 Nm 88 ft-lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
BB	Floor Mounted	22.2	33.9	13
BE	Ceiling Mounted	22.2	33.9	13
BA	Ceiling Mounted	22.2	33.9	13

Compatible Head Members (see page 19): B, BA, C, E, EA, F, G, K, N

Brake Options	
L00	Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Combination radial arm and tilting arm, each capable of 360° rotation. Two arms of different lengths give you the ability to reach separate working areas.



# 3arm Zero Gravity Arms

## 3arm Series 3



Reach	Max Weight	Max Torque
Vertical: 42 in Horizontal: 68 in	77 lb	650 Nm 479 ft-lb

Versatile arm with a long reach and the ability to carry a heavy load. Features “turning and tilting” brake locking systems (pneumatic or manual), allowing the operator to immobilize the arm in a fixed position on all axes simultaneously or separately.

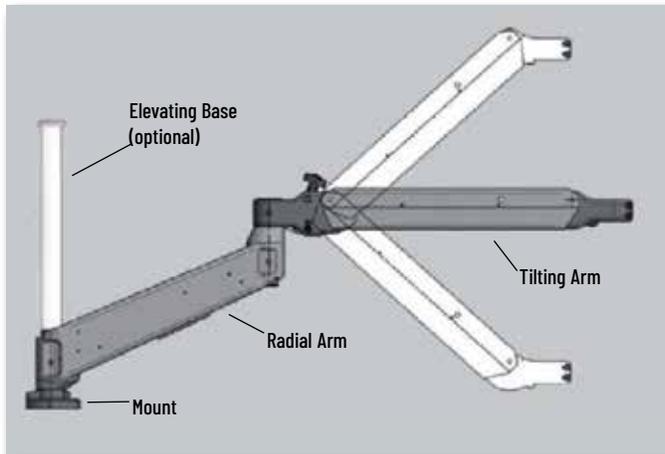
Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
<b>Floor Mounted</b>				
PSBS	Short Rad. + Short Tilt.	27.8	41.7	77
PSBM	Short Rad. + Long Tilt.	44.5	53.5	40
PLBS	Long Rad. + Short Tilt.	27.8	55.9	77
PLBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Ceiling Mounted</b>				
PEBS	Short Rad. + Short Tilt.	27.8	41.7	77
PEBM	Short Rad. + Long Tilt.	44.5	53.5	40
ASBS	Long Rad. + Short Tilt.	27.8	55.9	77
ASBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Elevating Base</b>				
ALBS	Elevating+ Short Tilt.	27.8	43.7	77
ALBM	Elevating+ Long Tilt.	44.5	55.8	40

Compatible Head Members (see page 19): All

Brake Options	
L00	Not Required
L11	Manual
L22	Pneumatic
L50	Manual Locking Base
L92	Tool Trigger Activated

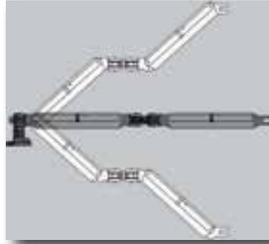
To build your 3arm, choose the following

Arm Model	Head Member	Brake Option



# 3arm Zero Gravity Arms

## 3arm Series 1



**Reach**  
Vertical: 44 in  
Horizontal: 42 in

**Max Weight**  
22 lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
1SNIDS	Floor Mounted	42	44	22
1AMIDS	Ceiling Mounted	42	44	22

Compatible Head Members (see page 19): B, BA, C, E, EA, F, G, K, N, T

### Brake Options

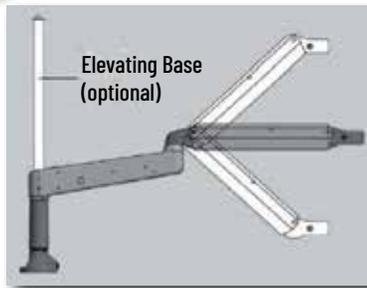
L00 Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Light and nimble, capable of reaching even the most difficult applications.

## 3arm Series 2



**Reach**  
Vertical: 22 in  
Horizontal: 34 in

**Max Weight**  
13 lb

**Max Torque**  
120 Nm  
88 ft-lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
BB	Floor Mounted	22.2	33.9	13
BE	Ceiling Mounted	22.2	33.9	13
BA	Ceiling Mounted	22.2	33.9	13

Compatible Head Members (see page 19): B, BA, C, E, EA, F, G, K, N

### Brake Options

L00 Not Required

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

Combination radial arm and tilting arm, each capable of 360° rotation. Two arms of different lengths give you the ability to reach separate working areas.



# 3arm Zero Gravity Arms

## 3arm Series 3



Reach	Max Weight	Max Torque
Vertical: 42 in Horizontal: 68 in	77 lb	650 Nm 479 ft-lb

Versatile arm with a long reach and the ability to carry a heavy load. Features “turning and tilting” brake locking systems (pneumatic or manual), allowing the operator to immobilize the arm in a fixed position on all axes simultaneously or separately.

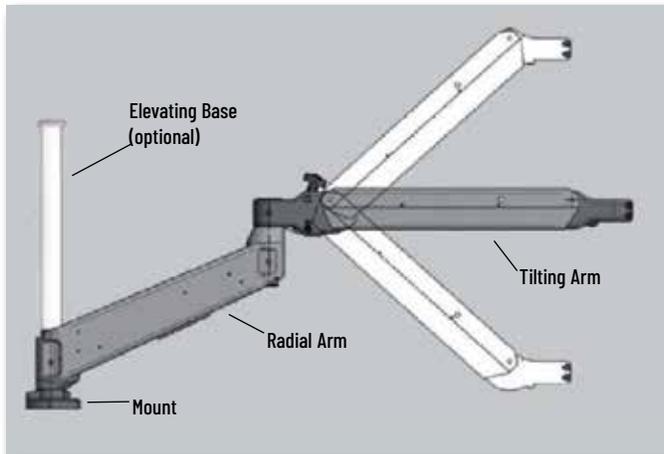
Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
<b>Floor Mounted</b>				
PSBS	Short Rad. + Short Tilt.	27.8	41.7	77
PSBM	Short Rad. + Long Tilt.	44.5	53.5	40
PLBS	Long Rad. + Short Tilt.	27.8	55.9	77
PLBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Ceiling Mounted</b>				
PEBS	Short Rad. + Short Tilt.	27.8	41.7	77
PEBM	Short Rad. + Long Tilt.	44.5	53.5	40
ASBS	Long Rad. + Short Tilt.	27.8	55.9	77
ASBM	Long Rad. + Long Tilt.	44.5	67.6	40
<b>Elevating Base</b>				
ALBS	Elevating+ Short Tilt.	27.8	43.7	77
ALBM	Elevating+ Long Tilt.	44.5	55.8	40

Compatible Head Members (see page 19): All

Brake Options	
L00	Not Required
L11	Manual
L22	Pneumatic
L50	Manual Locking Base
L92	Tool Trigger Activated

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option



# 3arm Zero Gravity Arms

## 3arm Series 4



**Reach**  
Vertical: 54 in  
Horizontal: 58 in

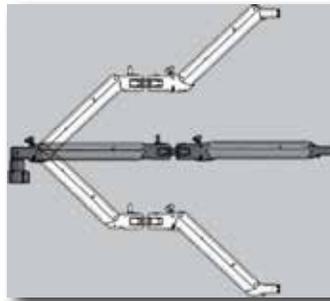
**Max Weight**  
53 lb

**Max Torque**  
300 Nm  
221 ft-lb

Model	Orientation	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
DS	Floor Mounted, Short Arm	42.3	48	53
DM	Floor Mounted, Long Arm	55.5	57.5	43
ADS	Ceiling Mounted, Short Arm	42.3	48	53
ADM	Ceiling Mounted, Long Arm	55.5	57.5	43

Compatible Head Members (see page 19): All

Dual-tilting arms expand range of movement. The innovative connections between the parts of the arm allow completely free movement of rolling up, down, and sideways. Capable of reaching the most difficult positions or work with weightless precision.



### Brake Options

L00	Not Required
L11	Manual
L22	Pneumatic
L50	Manual Locking Base
L92	Tool Trigger Activated

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

## 3arm Series 6



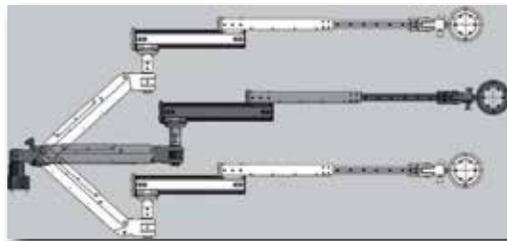
**Reach**  
Vertical: 26 in  
Horizontal: 82 in

**Max Weight**  
42 lb

Model	Description	Reach (IN)		Max Weight LB
		Vert.	Horiz.	
BPRASC	Model 800	26	68	42
BPRASM	Model 1200	26	82	26

Compatible Head Members (see page 19):  
BPRASC - All  
BPRASM - N,T

Extendable arm with ball linear guideways attached to a pendulum base arm, both capable of 360° rotation. This compact arm offers versatility for any type of tool. The telescopic top arm allows the user to work on hard-to-reach areas comfortably, quickly and safely. Works in a wide variety of applications.



### Brake Options

L00	Not Required
-----	--------------

To build your 3arm, choose the following

Arm Model	Head Member	Brake Option

# 3arm Zero Gravity Arms

## 3arm Head Members

Once you've determined the tools that will be used in you application, select a head member based on the type of application and necessary orientations.

<b>B</b>  Vertical Flat	<b>BA</b>  Vertical with Ring	<b>C</b>  Vertical Adjustable	<b>E</b>  Flat Articulated	<b>EA</b>  Flat Articulated with Ring	<b>F</b>  Articulated Adjustable	<b>G</b>  Quick Change
<b>H</b>  Heavy-Duty Applications	<b>J</b>  Magnetic Articulated Drill	<b>K</b>  Universal Strap	<b>LA</b>  Vertical Pneumatic Ball & Socket	<b>M</b>  Constant Pressure Support	<b>N</b>  Multiposition Articulated	<b>P</b>  Double Articulated Flat
<b>Q</b>  Heavy-Duty Multiposition Articulated	<b>RA</b>  Swing Revolver	<b>RB</b>  Revolver Pistol	<b>RC</b>  Vertical & Horizontal	<b>R</b>  Revolver	<b>SN</b>  Giraffe Multiposition	<b>SQ</b>  Heavy-Duty Giraffe Multiposition
<b>SR</b>  Giraffe Revolver	<b>T</b>  Multiposition Articulated Pistol	<b>U</b>  Heavy-Duty Multiposition Articulated Pistol	<b>Z</b>  Fork			

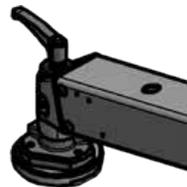
## 3arm Brake Options



**L11**  
Manual Brakes  
Manually turned handle



**L22**  
Pneumatic Brakes



**L50**  
Manual Locking Base  
Handle at base only



**L92**  
Tool Trigger Activated Brake  
Pneumatic, activated through the tool

# Support System Tool-Mounting Options

## TOOL MOUNTING OPTIONS



AIMCO provides many head and mounting options to fit almost any application. Find more information in our Application Manual for Arms and Fixtures located on our website.

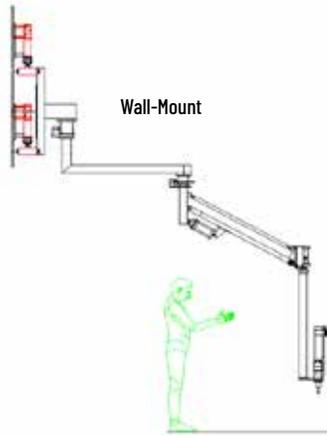
Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.



Mobile



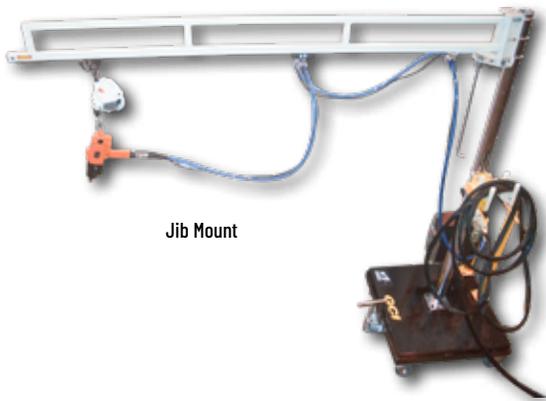
Overhead Trolley Mount



Wall-Mount



Stationary Mount



Jib Mount



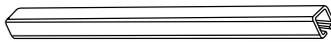
Overhead Fixed Mount

# Workstation Components and Assemblies

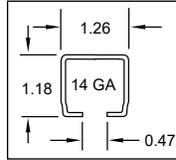
## COMPONENTS

### TRACK

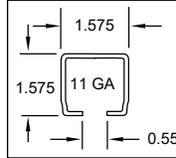
Steel with beige polyester finish. Use for vertical and horizontal workstation support.



PART NUMBER	30# TRACK
AT3-3	3 ft track
AT3-4	4 ft track
AT3-6	6 ft track
AT3-9*	9 ft track

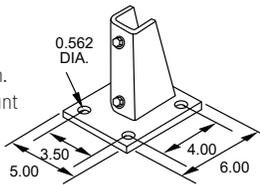


PART NUMBER	50# TRACK
AT5-3	3 ft track
AT5-4	4 ft track
AT5-6	6 ft track
AT5-9*	9 ft track
AT5-10	10 ft track
AT5-12*	12 ft track



### MOUNTING PLATE (AMP-5)

Black polyester finish. Use as a base to mount vertical uprights.



### END CAP (AEP-3/5)

Black molded vinyl. Use to cap track ends for a professional finish.

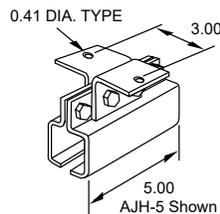
- AEP-3 for 30 lb. track
- AEP-5 for 50 lb. track



### JOINT HANGER BRACKET (AJH-3/5)

Black polyester finish. Use to couple and hang end-to-end track.

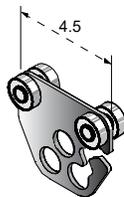
- AJH-3 for 30 lb. track
- AJH-5 for 50 lb. track



### BALANCER TROLLEY (ABT-3/5)

Black polyester finish. Use as moving support for tool balancers, hose, and cable. Quality ball bearing wheels for long life and smooth tracking.

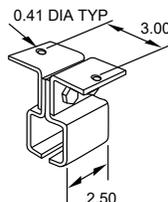
- ABT-3 for 30 lb track (1.00 dia)
- ABT-5 for 50 lb track (1.25 dia)



### HANGER BRACKET (AHB-3/5)

Black polyester finish. Use to suspend track at right angle.

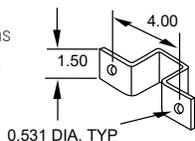
- AHB-3 for 30 lb. track
- AHB-5 for 50 lb. track



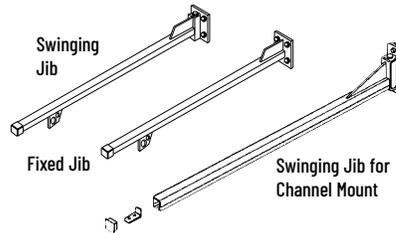
### SUPPORT CLAMPS (ASC-3/5)

Black polyester finish. Use as additional support for track.

- ASC-3 for 30 lb. track
- ASC-5 for 50 lb. track



## WALL-MOUNTED JIBS



Jibs are mounted to wall or beams to create free standing workstations. All complete assemblies are beige polyester finish. End stop, end cap, and balancer trolley included.

### 3 FT. WALL-MOUNTED SWINGING JIB (AW3S)

### 3 FT. WALL-MOUNTED FIXED JIB (AW3F)

### 3 FT. WALL-MOUNTED SWINGING JIB FOR CHANNEL MOUNT (AJS3\*\*\*)

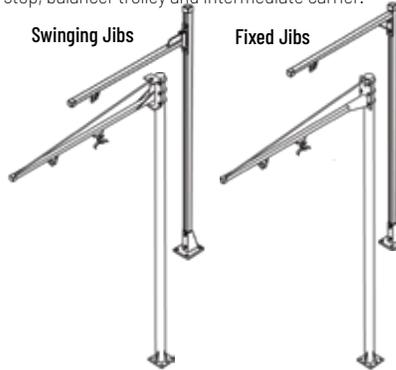
Maximum weight: 30 lb.

### 6 FT. WALL-MOUNTED SWINGING JIB (AW6S)

Maximum weight: 50 lb.

## FLOOR-MOUNTED JIBS

Fixed or swing booms mounted on vertical columns and are painted polyester beige. Units include end stop, balancer trolley and intermediate carrier.



### 3 FT. FLOOR-MOUNTED FIXED JIB\* (AW3FMF)

Maximum weight: 30 lb. Column height: 6 ft

### 6 FT. FLOOR-MOUNTED SWINGING JIB\* (AW6FMS)

### 6 FT. FLOOR-MOUNTED FIXED JIB\* (AW6FMF)

Maximum weight: 50 lb. Column height: 9 ft

### 10 FT. FLOOR-MOUNTED FIXED JIB\* (AW10FMF)

### 10 FT. FLOOR-MOUNTED SWINGING JIB\* (AW10FMS)

Maximum weight: 50 lb. Column height: 9 ft

## BENCH-MOUNTED JIBS

3 ft. swinging jib includes balancer trolley, end stop, and cap

### 3 FT. BENCH MOUNTED SWINGING JIB (JJ30-S)

### 3 FT. BENCH MOUNTED FIXED JIB (JJ30)

Maximum weight: 30 lb

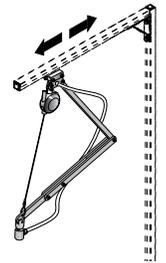
Column height: 48" including mounting plate



## TROLLEY-MOUNTED TORQUE ARM

### TROLLEY MOUNTED TORQUE ARM WITH 3-LB RETRACTOR AND HOSE (FA-50-2\*)

Ergonomic arm absorbs torque reaction. Moves front to back along overhead jib.



### (TA-50-2)

Moves side to side on overhead track.

## CUSTOM WORKSTATION SOLUTION

### CREATE A CUSTOM SUPPORT SYSTEM USING AIMCO'S QUALITY PRODUCTS

- Organize work area to create a safe, productive working environment
- Reduce risk of injury to assembler by providing support for heavy tools
- Protect valuable tools, fixtures, and monitoring devices from damage by suspending them out of the way



### AIMCO BASIC WORKSTATION KIT (ATW-50)

- 50 lb maximum weight capacity
- 48" uprights
- 36" extensions
- Table mounts included
- 6' tool rail with rolling trolley included
- All necessary hardware included

## WORKSTATION ACCESSORIES

### TOOL BASKET (21226)

Mounts easily to any work area to hold pistol and angle style tools.



### When choosing a workstation system, remember

Total weight capacities should include tool balancer, hose/cable, and tool/fixture. Units need to be supported vertically and horizontally every 6 ft.

AIMCO can customize a workstation for you. Contact an AIMCO Customer Service Associate (503) 254-6600, or toll free 1-800-852-1368.

# Gravity-Defying Balancers

## TW SERIES BALANCERS



### TW-0 and TW-00

- Gravity defying / "true balance"
- No tension buildup to cause worker fatigue
- Easy external direct drive tensioning
- 360° upper swivel
- Safety cable provision
- Tool clip included



TW-3

### TW Series Balancers

Model	Capacity		Anti-Gravity Capacity (LB)	Cable
	LB	KG		
TW-00	1.1 - 3.3	0.5 - 1.5	2.5 - 3.0	18" stranded steel cable 1/8" dia.
TW-0	1.1 - 3.3	0.5 - 1.5	2.5 - 3.0	3.3-ft stranded steel cable 1/8" dia.
TW-3K	2.2 - 6.6	1.0 - 3.0	4.5 - 6.0	4.3-ft stranded steel cable 5/32" dia.
TW-5K	5.5 - 11.0	2.5 - 5.0	8.0 - 10.5	4.3-ft stranded steel cable 5/32" dia.
TW-9K	9.9 - 19.8	4.5 - 9.0	15.0 - 19.0	4.3-ft stranded steel cable 5/32" dia.
TW-15K	19.8 - 33.0	9.0 - 15.0	26.0 - 32.5	4.3-ft stranded steel cable 5/32" dia.
TW-22	33.0 - 48.4	15 - 22	41.0 - 48.0	5-ft stranded steel cable 3/16" dia.
TW-30	48.4 - 66.0	22 - 30	58.0 - 65.5	5-ft stranded steel cable 3/16" dia.
TW-40	66.0 - 88.0	30 - 40	77.5 - 87.5	5-ft stranded steel cable 3/16" dia.
TW-50	88.0 - 110.0	40 - 50	100.0 - 109.5	5-ft stranded steel cable 3/16" dia.
TW-60	110.0 - 132.0	50 - 60	122.0 - 131.0	5-ft stranded steel cable 3/16" dia.
TW-70	132.0 - 154.0	60 - 70	144.0 - 153.0	5-ft stranded steel cable 3/16" dia.

### through TW-70

- Tapered drum allows "true balance" throughout cable travel
- Easy external direct drive tensioning
- Cast aluminum casing for durability
- Permanent lubrication
- 360° top swivel
- Enclosed spiral spring for added safety
- Secondary support hanger in TW-3K through TW-15K models accommodate a safety chain (sold separately)
- Automatic safety lock plus manual drum lock (TW-22 through TW-70)



## ASB SERIES BALANCERS

- Built-in Safety Features: The cable, drum, and enclosed spring are fully visible without opening the unit for easy and convenient safety checks. The sturdy spiral spring is enclosed for greater control and safety
- Ergonomic Spring Release: The automatic safety lock provides extra control
- Extended Cable Length: Stainless steel cables allow for extended reach on applications
- Enhanced Gear Mechanism: Allows for more exact adjustment of tension
- No Recoil and Low Resistance: Tapered drum style provides gravity defying tool positioning and low travel



ASB-0C Gravity Defying and Hand Adjustable Balancer



ASB-3C  
ASB-5C

### ASB Series Balancers

Model	Capacity		Stroke		Weight	
	lb	kg	in	cm	lb	kg
ASB-0C	1.1 - 3.3 lb	0.5 - 1.5 kg	51.1 in	130 cm	1.5 lb	0.7 kg
ASB-3C	3.3 - 6.6 lb	1.5 - 3 kg	86.4 in	220 cm	3.0 lb	1.4 kg
ASB-5C	5.5 - 11 lb	2.5 - 5 kg	86.4 in	220 cm	3.4 lb	1.5 kg

# Line Reel Balancers / Retractors

## LINE REEL BALANCERS

### LR Series

- Designed for light duty applications with small pneumatic tools
- Integrating air hose and support cable keep work areas clean
- Adjustable ball stop for optional positioning
- 1/4" I.D. polyvinyl hose with 1/4" NPT inlet
- 360° upper swivel
- Maximum 142 PSI



LR Series Line Reel Balancers

Model	Hose Length		Capacity	
LR-09B-90	35.5 in	90 cm	3 lb	1.5 kg
LR-09B-200	78.3 in	199 cm	3 lb	1.5 kg

## RETRACTORS

### RPA Series

- No tools needed to set tension
- 5 ft nylon coated steel cable
- Reinforced hanging bracket includes safety cable provision
- Adjustable cable stop
- Three (3) models support weight 0.5 - 5 lb
- Tool clip included



### RMA-L Series

- Steel housing with polyester finish
- Reinforced hanging bracket includes safety cable provision
- 8 ft of 3/32" diameter coated steel cable
- Permanently lubricated
- Tool clip included
- External tension adjustment
- Ratchet cable lock

### RPA / RMA-L Series Retractors

Model	Capacity	
RPA-1	0.5 - 1.5 lb	0.2 - 0.7 kg
RPA-2	1.5 - 3.0 lb	0.7 - 1.4 kg
RPA-3	3.0 - 5.0 lb	1.4 - 2.3 kg
RMA-7L	5 - 10 lb*	2.3 - 4.8 kg*
RMA-15L	10 - 15 lb*	4.5 - 6.8 kg*
RMA-20L	15 - 23 lb*	6.8 - 10.4 kg*

\* With ratchet lock

# Air Preparation Units

## AFRL STACKING FILTER/REGULATORS

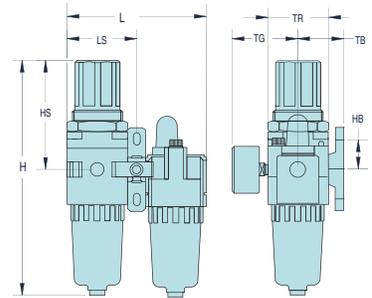
Stacking filter/regulator combinations provide air filtration and precise regulation in a single unit for easy mounting and installation.

### FEATURES AND BENEFITS

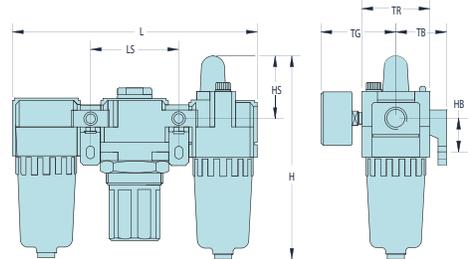
- All models include L-mount bracket, gauge, and metal bowl shields
- Polycarbonate filter and lubricator bowls (metal bowls standard on AFRL-8)
- 25-micron filter included on all models
- Regulating range: 7 - 125 PSI
- Custom order upgrade items include metal bowl, 5 micron filter, semi-automatic filter drain, and reduced PSI range regulator. Contact an AIMCO Customer Service Associate for more information, 1-503-254-6600, or toll free 1-800-852-1368
- Maximum allowable Input Pressure not to exceed 120 PSI



AFRL-2-C  
AFRL-3-C



AFRL-3  
AFRL-4  
AFRL-8



28178  
HT Air Tool/AFRL  
Carrying Kit

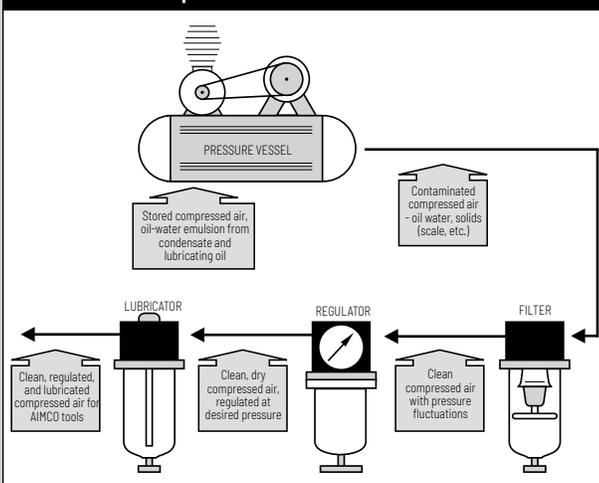


AFRL-4HTA  
Standalone Unit

### AFRL Stacking Filter/Regulators

Model	Port	Gauge Port	Flow Rate CFM	Flow Rate L/MIN	Bowl Shield	H IN/MM	HB IN/MM	HS IN/MM	L IN/MM	LS IN/MM	TB IN/MM	TG IN/MM	TR IN/MM
AFRL-2	1/4"	1/8"	70	2,000	yes	6.16 (156.5)	1.39 (35.3)	1.50 (38.1)	7.13 (181.1)	2.52 (64.0)	1.61 (41.0)	2.39 (60.7)	2.09 (53.1)
AFRL-2-C	1/4"	1/8"	60	1,700	yes	8.31 (211.1)	1.38 (35.1)	3.64 (92.5)	4.61 (117.1)	2.30 (58.4)	1.61 (40.9)	2.39 (60.7)	2.09 (53.1)
AFRL-3	3/8"	1/4"	140	4,000	yes	7.54 (191.5)	1.57 (40.0)	1.61 (40.9)	9.37 (238.0)	3.31 (84.1)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-3-C	3/8"	1/4"	105	3,000	yes	10.31 (261.9)	1.57 (39.9)	4.41 (112.0)	6.06 (153.9)	3.03 (77.0)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-4	1/2"	1/4"	140	4,000	yes	7.54 (191.5)	1.57 (40.0)	1.61 (40.9)	9.37 (238.0)	3.31 (84.1)	1.97 (50.0)	2.58 (65.5)	2.76 (70.1)
AFRL-8	1"	1/4"	180	5,000	yes	10.69 (271.5)	1.97 (50.0)	1.89 (48.0)	11.81 (300.0)	4.13 (104.9)	2.75 (69.9)	2.97 (75.4)	3.54 (89.9)

### Air Preparation Units: Basic Functions



The supply of clean, dry air is essential to the operation of pneumatic powered tools. Use only clean filtered air for longer tool life. Provide proper airflow (CFM) and regulate air pressure (PSI) for optimum performance.

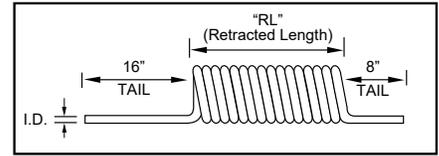
To determine unit size for application, you need to know:

- Total air flow (CFM) required for application
- Size of incoming air line and size of air line required by tool
- Air supply pressure (PSI)
- Allowable pressure drop
- Does the application require lubrication?
- Does the overall system have the required capacity?

## Polyurethane Hose



- Durable Polyurethane is chemical resistant and lightweight, and provides excellent recoil memory and maximum flexibility
- Available in transparent hose color (opaque also available)
- Assemblies for coiled hose include reusable swivel fitting. Straight hose available with or without fittings
- Working temperature:  $-104^{\circ}\text{F}$  to  $175^{\circ}\text{F}$



## Single Air Hose Assemblies (Coiled)

Model	Description (O.D. x I.D. x Length)	Retracted Length	Working Pressure	Npt Fittings
ASH-250C-10MSZ	3/8" x 1/4" x 10'	7"	100 psi	1/4"
ASH-250C-15MSZ	3/8" x 1/4" x 15'	9-1/2"	100 psi	1/4"
ASH-250C-25MSZ	3/8" x 1/4" x 25'	15-1/2"	100 psi	1/4"
ASH-375C-15MSZ	9/16" x 3/8" x 15'	10"	100 psi	3/8"
ASH-375C-25MSZ	9/16" x 3/8" x 25'	14"	100 psi	3/8"
ASH-500C-15MSZ	3/4" x 1/2" x 15'	13"	100 psi	1/2"
ASH-500C-25MSZ	3/4" x 1/2" x 25'	23"	100 psi	1/2"

Custom length coil assemblies and special colors available in minimum order quantities. Contact an AIMCO Customer Service Associate, 1-503-254-6600, or toll free 1-800-852-1368.



### Straight Air Hose (Sold Per Foot)

Model	Description
ASH-375Z	3/8" I.D.
ASH-500Z	1/2" I.D.

Contact an AIMCO Customer Service Associate about full reel pricing, 1-503-254-6600, or toll free 1-800-852-1368.

## Rubber Hose



- Designed for use in a wide range of industrial, construction, and agricultural applications
- Constructed of high grade, reinforced EPDM synthetic rubber
- Working temperature:  $-40^{\circ}\text{F}$  to  $190^{\circ}\text{F}$

### Single Air Hose (Rubber)

I.D.	O.D.	Length	Working Pressure	Weight
3/16"	0.44"	10 ft	200 psi	0.8 lb
1/4"	0.5"	10 ft	200 psi	0.9 lb
5/16"	0.58"	10 ft	200 psi	1.2 lb
3/8"	0.67"	10 ft	200 psi	1.5 lb
1/2"	0.81"	10 ft	200 psi	2.0 lb
5/8"	0.97"	10 ft	200 psi	2.7 lb
3/4"	1.12"	10 ft	200 psi	3.4 lb

Custom lengths available. Contact an AIMCO Customer Service Associate for more details, 1-503-254-6600, or toll free 1-800-852-1368.

## Helpful Hints For Air Hose Use

- Use recommended I.D. air hose and fittings
- Replace air hose regularly to help maintain clean air
- A clear hose allows you to see water or dirt accumulation in hose
- Use correct length of hose to reduce air loss and pressure drop
- Use locking quick-disconnect couplers for additional safety

# Air Line Accessories

## BRASS QUICK COUPLERS

Manual ball couplers designed for use with ergonomic twist plugs. Brass with nitrile seals, rated to 300 PSI, from -40° to +250° F.



Model	Description
B23	1/4" NPT F x 1/4" QC Brass Coupler
B23E	1/4" NPT F x 3/8" QC Brass Coupler
B25	3/8" NPT F x 3/8" QC Brass Coupler

## IN-LINE MINI REGULATORS

Easily adjust airflow with the turn of a dial.



Model	Capacity
932-100-0	1/8" NPT
932-110-0A	1/4" NPT

## MINI AIR GAUGE SWIVEL JOINT KITS

- Bi-directional 360° rotation
- Keeps air hose straight and untwisted
- Decreases operator fatigue



Model	Inlet	Weight	Max Psi	Tool CFM
704IAG	3/8" NPT	3 oz	Up to 125	50

704IAG

## SWIVEL AIR FITTINGS

For use with most portable air tools, including grinders, drills, screwdrivers, buffers, sanders, staple guns, and more. Rotates 360° for awkward angles.



Model	Inlet	Weight	Max PSI	Tool CFM
7021	1/4" NPT	3 oz	Up to 125	25
7041A	3/8" NPT	11 oz	Up to 125	50
7051	1/2" NPT	7 oz	Up to 125	60

## AIR LINE FITTINGS

Model	Capacity
250-RZ	1/4" NPT Rigid Fitting
250-SZ	1/4" NPT Swivel Fitting
375-RZ	3/8" NPT Rigid Fitting
375-SZ	3/8" NPT Swivel Fitting
500-SZ	1/2" NPT Swivel Fitting



## BRASS ADAPTERS AND BUSHINGS

Pipe fittings for use as medium and low pressure connectors. Meets functional requirements of SAE J530, SAE J531, ASME and ASA. Rated 1,000 PSI from -65° to +250° F.

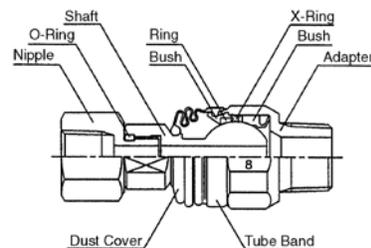


Model	Description
222P-6-4	3/8" NPT F x 1/4" NPT M Adapter
222P-8-6	1/2" NPT F x 3/8" NPT M Adapter
222P-12-8	3/4" NPT F x 1/2" NPT M Adapter
209P-6-4	1/4" NPT F x 3/8" NPT M Bushing
209P-8-6	3/8" NPT F x 1/2" NPT M Bushing

## ERGONOMIC TWIST PLUGS

These unique, ergonomically designed hose fittings provide 360° rotation and 35° angled rotation in any direction.

- Two rotation points prevent kinking of air hose
- Design ensures full air pressure flow
- Rotating joint comes with polyurethane dust cover
- Heavy duty construction



Model	Description
TS-30NP-2NPT	3/8" NPT Female x 1/4" NPT Male
TS-20US-2NPT	1/4" US Plug x 1/4" NPT Male
TS-30US-3NPT	3/8" US Plug x 3/8" NPT Male





PRINTED IN THE U.S.A.

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AIMCO CORPORATE HEADQUARTERS

10000 SE Pine Street  
Portland, Oregon 97216  
Phone: (503) 254-6600  
Toll Free: 1-800-852-1368

AIMCO CORPORATION DE MEXICO SA DE CV

Ave. Cristobal Colon 14529  
Chihuahua, Chihuahua. 31125  
Phone: (01-614) 380-1010  
Fax: (01-614) 380-1019