



A I M C O

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BALANCERS, RETRACTORS & HOSE REELS



A I M C O

# Balancers and Tool Support Systems



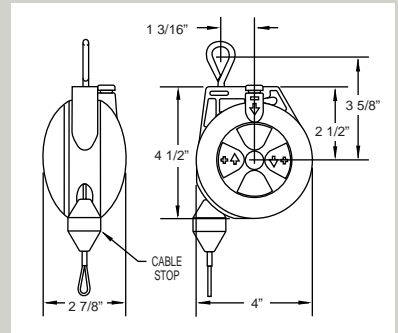
# RETRACTORS

## RPA SERIES

- Lightweight and compact
- No tools needed for setting of tension
- User friendly
- 5 ft. nylon coated steel cable
- Reinforced hanging bracket includes provision for safety cable
- Adjustable cable stop
- Non-repairable
- 3 models support weight 0.5-5 lbs.
- Tool clip included



RPA SERIES



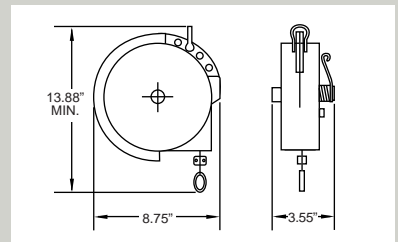
MODEL	CAPACITY
RPA-1	.5~1.5 lbs
RPA-2	1.5~3 lbs
RPA-3	3~5 lbs

## RMA-L SERIES

- Steel housing with polyester finish
- Reinforced hanging bracket includes provision for safety cable
- 8 ft. of 3/32" diameter aircraft stranded steel
- Self-contained mainspring
- Permanently lubricated
- Tool clip included
- External tension adjustment
- Ratchet model (L)\* allows locking of cable for tool changes or free tool applications.

\* Ratchet can be disengaged by knob on backside to allow for constant tension.

RMA-L SERIES



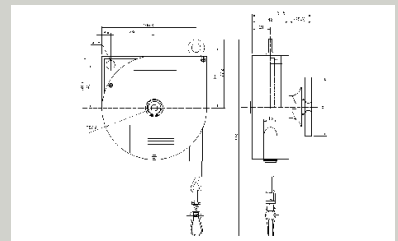
MODEL	CAPACITY
RMA-7L	5~10 lbs w/ratchet lock
RMA-15L	10~15 lbs w/ratchet lock
RMA-20L	16~23 lbs w/ratchet lock

## RW SERIES

- Three models available to provide a support range of 1-11 pounds (.5 - 5.0 Kg)
- Dependable and durable 5 ft. nylon coated stranded steel 1/8" cable
- Tool clip swivels to allow 360° rotation
- Easily adjustable tension — No accessory tools needed
- Durable spring construction ensures long product life



RW SERIES



MODEL	CAPACITY
RW-0	1.1 - 3.3 lbs.
RW-3	2.2 - 6.6 lbs.
RW-5	5.5 - 11.0 lbs.

## BALANCER SELECTION

When choosing a balancer, a few important items should be noted:

1. Determine if a retractor or a true balancer is required
2. Determine total cable travel needed and total weight to be suspended, including all hose/cable, tool and fixtures

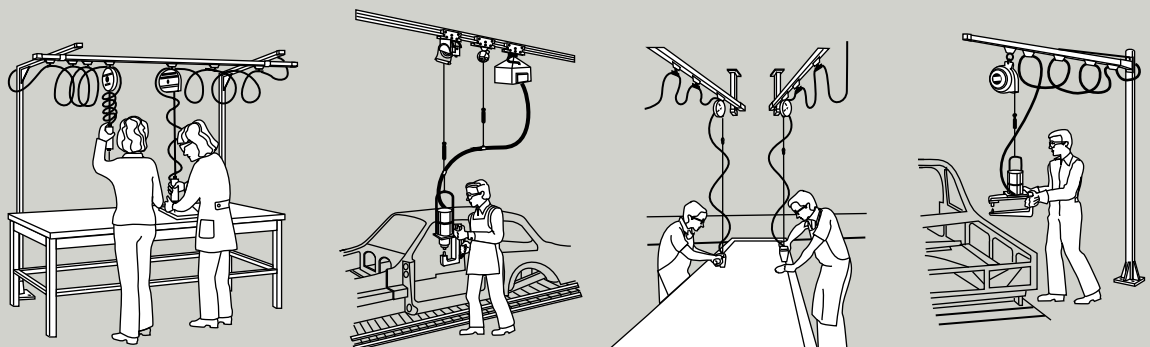
To ensure maximum life span of your balancer selection should utilize weight range at the high end.

EXAMPLE: Total weight to be suspended is five pounds. The application calls for a true balance. The choices are a TW-3 (2.2~6.6 lbs) or TW-5 (5.5~11 lbs). The best choice is the TW-3. This allows the entire spring to be utilized.

**Remember:** "Bigger is NOT always better!"

## MARKETS:

- Automotive Assembly
- Appliance
- Electronics
- Packaging
- Medical Equipment
- Meat Processing
- Furniture
- Aerospace



# ZERO GRAVITY BALANCERS

## The "TRUE" balancers

### TW-O and TW-OO

- Zero gravity / true balance
- No tension build-up to cause worker fatigue
- Easy external direct drive tensioning
- Lightweight construction
- 360 degree upper swivel
- 3.3 ft. aircraft stranded steel cable 1/8" diameter (TW-OO cable length 18")
- Provision for safety cable
- Tool clip included

### TW-3 through TW-15

- Four models supporting weights from 2.2 lbs. to 33 lbs.
- Tapered drum allows "true balance" throughout cable travel
- Easy external direct drive tensioning
- Heavy duty construction for maximum impact
- Permanent lubrication
- 360 degree top swivel
- 4.3 ft. of 5/32" diameter aircraft stranded steel cable
- Safety chain provision

### TW-22 through TW-70

- Six models supporting weights from 33 lbs. to 154 lbs.
- Tapered drum allows for "true balance"
- Cast aluminum housing
- Easy external tensioning
- Manual drum lock
- 360 degree upper swivel
- Permanent lubrication
- 5 ft. of aircraft stranded steel 3/16"
- Automatic Safety Lock

Note: All TW Models are Zero Gravity/True Balance



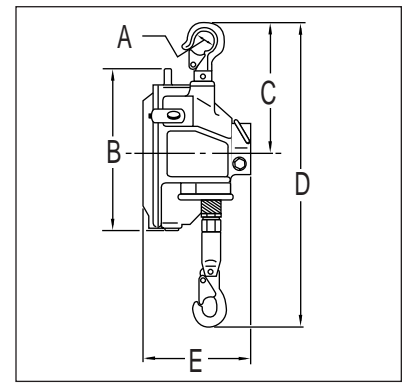
TW-O & TW-OO SERIES



TW-3 TO TW-70 SERIES



LR-09B-90/200



MODEL	DIMENSIONS (mm)				
	A	B	C	D	E
TW-00	8	95	63	190	38
TW-0	18	127	114	225	47
TW-3	18	149	127	252	69
TW-5	18	149	127	252	69
TW-9	24	216	165	363	136
TW-15	24	216	165	363	136
TW-22	30	264	211	455	158
TW-30	30	264	211	455	158
TW-40	30	271	211	455	188
TW-50	30	271	211	455	188
TW-60	30	271	211	455	199
TW-70	30	271	211	455	199

MODEL	CAPACITY	ZERO GRAVITY CAPACITY (LBS.)
TW-00	1.1~3.3 lbs	2.5-3.0
TW-0	1.1~3.3 lbs	2.5-3.0
TW-3	2.2~6.6 lbs	4.5-6.0
TW-5	5.5~11 lbs	8.0-10.5
TW-9	9.9~19.8 lbs	15-19
TW-15	19.8~33 lbs	26-32.5
TW-22	33~48.4 lbs	41-48
TW-30	48.4~66 lbs	58-65.5
TW-40	66~88 lbs	77.5-87.5
TW-50	88~110 lbs	100-109.5
TW-60	110~132 lbs	122-131
TW-70	132~154 lbs	144-153

### SAFETY CABLE/CABLE OVERHANG SPECIFICATIONS

PART #	BALANCER MODEL	DESCRIPTION
CO1803	TW-OO, 0,3 & 5	1/8" x 3'
CO1805		1/8" x 5'
CO1810		1/8" x 10'
CO1815		1/8" x 15'
CO1820		1/8" x 20'
CO3203	TW-9 & 15	5/32" x 3'
CO3205		5/32" x 5'
CO3210		5/32" x 10'
CO3215		5/32" x 15'
CO3220		5/32" x 20'
CO1603	TW-22 through 70	3/16" x 3'
CO1605		3/16" x 5'
CO1610		3/16" x 10'
CO1615		3/16" x 15'
CO1620		3/16" x 20'

Note: If safety cable is desired, please add Part# SH-5 to order.

## HOSE REEL BALANCERS

- Designed for use with small pneumatic tools for light duty applications
- Integrating air hose and support cable keep work areas tidy
- Adjustable ball stop for optional positioning
- Polyvinyl hose 1/4" NPT 1/4" inlet 700 mm
- Model LR-09B-90 - 35 1/2" hose length
- Model LR-09B-200 - 78 1/4" hose length
- 360 degree upper swivel
- 3 lb. weight capacity
- Maximum 142 PSI

## CABLE OVERHANG

- Cable overhang is a section of cable which is attached to the retractable cable supplied with the balancers and allows the balancer to be mounted at a higher elevation. Safety cables are strongly recommended on all equipment used overhead.
- Cable overhang cannot be retracted.

**TOOL SUPPORT SYSTEMS**

Reduce operator fatigue and increase productivity with the ERGO-ARM® ergonomic tool support system series.

- For use with pneumatic and electric tools
- Custom designs available

**AD-D1098-PL PRECISION LINEAR ARM**

- Tracks perpendicular to workpiece on three moving axis (X,Y,Z) to provide maximum mobility and ease of movement.
- Push button relief valve for no resistance for operator
- Also compatible for use with an automatic screwfeeder head



AD-D1098-PL



AD-D1098-SAC

**AD-D1098-SAC AIR CYLINDER SERIES**

- Allows universal tool motion from side to side and front to back
- 2-piece hinged forearm allows more freedom of movement in the assembly process
- Telescoping reach from end of forearm allows easy adjustment in 1-inch increments up to 6 inches
- Also compatible for use with an automatic screwfeeder head

**AD-D1098 PARALLEL SERIES**

- Available in air or oil cylinder styles
- Compatible for use with an air or electric screwdriver
- Eliminates operator influence



AD-D1098-PAC



AD-D1098-S

**AD-D1098-S OIL CYLINDER SERIES**

- Allows universal tool motion from side to side and front to back
- 2-piece hinged forearm allows more freedom of movement in the assembly process
- Telescoping reach from end of forearm allows easy adjustment in 1-inch increments up to 6 inches

**AD-D1098-SBL ECONOMY**

- Allows universal tool motion from side to side and front to back



AD-D1098-SBL

**S P E C I F I C A T I O N S**

Model	Description	Reach	Capacity	Maximum Torque*
<b>AIR CYLINDER SERIES</b>				
AD-D1098-PL 24	Precision Linear	24"	15 Lbs.	25 Ft. Lbs.
AD-D1098-PL 36	Precision Linear	36"	15 Lbs.	25 Ft. Lbs.
AD-D1098-SAC	Standard	4-33"	0-15 Lbs.	110 In. Lbs.
AD-D1098-PAC	Parallel	4-33"	0-15 Lbs.	110 In. Lbs.
AD-D1098-PACE	Parallel (Electric Tool)	4-33"	0-15 Lbs.	110 In. Lbs.
AD-D1098-SAC-CR	Standard Clean Room	4-33"	0-15 Lbs.	110 In. Lbs.
AD-D1098-PAC-CR	Parallel Clean Room	4-33"	0-15 Lbs.	110 In. Lbs.
<b>OIL CYLINDER SERIES</b>				
AD-D1098-S	Standard	4-33"	0-3 Lbs.	110 In. Lbs.
AD-D1098-SBL	Economy	19-27"	0-3 Lbs.	110 In. Lbs.
AD-D1098-P	Parallel	4-33"	0-3 Lbs.	110 In. Lbs.
AD-D1098-PE	Parallel (Electric Tool)	4-33"	0-3 Lbs.	110 In. Lbs.

■ If the above models do not meet your needs, custom designs are available. ■ Anodized or Powder Coating in custom colors available upon request.  
 \*Max. torque allowed may be dependent on tool clutch type and joint rate.

## CLEAN ROOM ERGO-ARM®

- Blue anodized aluminum finish
- No metal-to-metal joints to create particle count
- 2-piece hinged forearm allows more freedom of movement in the assembly process
- Telescoping reach from end of forearm allows easy adjustment in 1-inch increments
- Arm achieves neutral buoyancy - will not spring away from operator when released
- Resistance can be set to suit individual operator preference
- Reduce operator fatigue
- Provide consistency and accuracy for repetitive assembly tasks
- Heavy duty construction
- For use with pneumatic *and* electric tools

## CUSTOM DESIGNED ERGO-ARMS®

- Custom designed Ergo-Arms can be engineered for virtually any application or tooling. Contact AIMCO for criteria required to custom quote your needs.



AD-D1098-PAC-CR

## ERGO-ARM® ACCESSORIES

End-of-the arm tooling options for the Ergo-Arm® allow you to choose the style *your* application requires. The tool holders allow the tool to swivel, rotate, swing or twist. Its heavy duty construction allows you to lock out any single or combination of rotating actions allowing only the motions required by your application. In addition, End-of-Arm Tooling brackets allow easy conversion, so one Ergo-Arm® can be used for more than one application.



EAA-21 - Pistol Grip Tool Mount

### FOR USE WITH MODELS AD-D1098-S/SAC



EAA-21 - Right Angle Tool Mount



EAP-202ED - Electric Driver Tool Mount

### FOR USE WITH MODELS AD-D1098-P/PAC



EAP-203 - Air Manifold Tool Mount (Standard on parallel units)



EAP-202 - Driver Tool Mount

### PARALLEL ARM KIT



EAA-04 - Allows you to easily convert standard Ergo-Arms® to the parallel style. The parallel type arm allows vertical entry to the workpiece and allows locking the tool into position.

Note: Not compatible with AD-D1098-PL or AD-D1098-SBL.

### WALL CLAMP



EAA-01 - Allows easy wall mounting

### BENCH CLAMP



EAA-02 - Allows easy table mounting

# WORKSTATION COMPONENTS AND ASSEMBLIES

## COMPONENTS

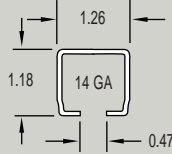
### TRACK

Used both for vertical and horizontal supports  
Beige polyester finish



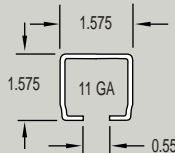
#### Part Number 30# Track

- 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
- AT5-12 12 ft track



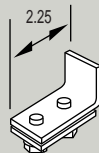
### TRACK NUT: ATN-3/5

Zinc plated steel (2 required)  
used to attach joint/hanger  
bracket to horizontal track  
ATN-3-30 lb./ATN-5 .50 lb.



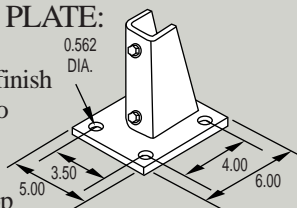
### END STOP: AES-3/5

Zinc oxide finish used to  
prevent balancer trolley from  
“overtraveling” the  
horizontal track  
AES-3-30 lb./AES-50 for 50 lb.



### MOUNTING PLATE: AMP-5

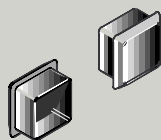
Black polyester finish  
used for a base to  
mount vertical  
uprights to  
floor or bench top



### END CAP: AEP-3/5

Black molded vinyl used  
to cap off ends of track for  
professional finish and  
avoids rough edges

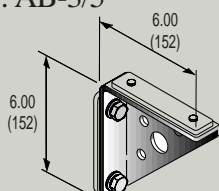
- AEP-3 for 30 lb. Track
- AEP-5 for 50 lb. Track



### ANGLE BRACKET: AB-3/5

Black polyester finish  
used to mount horizontal  
track to vertical upright  
(adjustable)

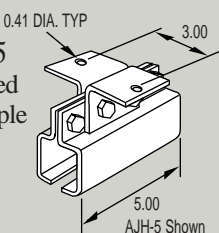
- AB-3 for 30 lb. Track
- AB-5 for 50 lb. Track



### JOINT HANGER BRACKET: AJH-3/5

Black polyester finish used  
to couple and hang multiple  
pieces of track

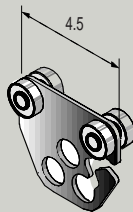
- AJH - 3 for 30 lb. Track
- AJH - 5 for 50 lb. Track



### BALANCER TROLLEY: ABT-3/5

Black polyester finish  
used as moving supports  
for balancers, hose/cable  
safety cables. Runs through  
horizontal track

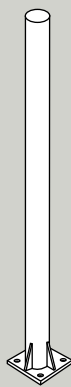
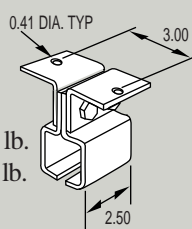
- ABT-3 for 30 lb. Track (1.00 dia.)
- ABT-5 for 50 lb. Track (1.25 dia.)



### HANGER BRACKET: AHB-3/5

Black polyester finish  
used to support/hang  
a single piece of track

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



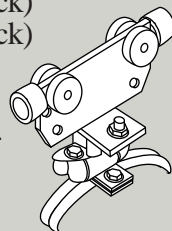
### VERTICAL COLUMN: AVC-5

Beige polyester finish used  
to support jibs at 90 degree  
angle to column  
Height: 9 ft

### INTERMEDIATE CARRIER:

- AIC3-2 (30 lb. Track)
- AIC5-2 (50 lb. Track)

Black polyester finish  
used to festoon cable/  
hose freely along track.  
Supports hose cable  
OD .60-.94



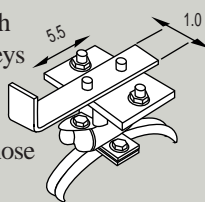
### U-BOLTS: AUB-5

Zinc plated steel (3 required)  
used to secure fixed/  
swinging jibs (AW6S  
and AW6F) to  
vertical column



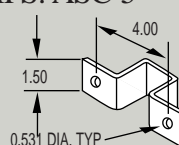
### END CLAMP: AEC5-2

Black polyester finish  
used to prevent trolleys  
from “overtravel.”  
Continues festoon to  
end of track. Cable/hose  
OD .60-.94 Used on  
both AT5/AT3 Track.



### SUPPORT CLAMPS: ASC-5

Black polyester finish  
used to secure the  
vertical track to back  
of bench/conveyor  
for stability



### TOOL CLIP: SH-5

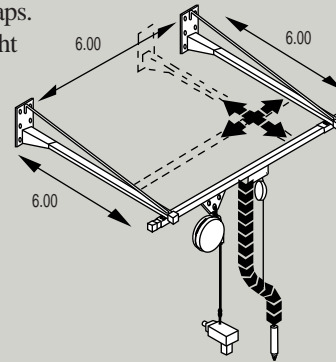
Steel clip with safety latch  
for tool attachment and other  
uses. Measures 2.375” long.



## COMPLETE ASSEMBLIES

### WALL MOUNTED RUNWAY: AWR6

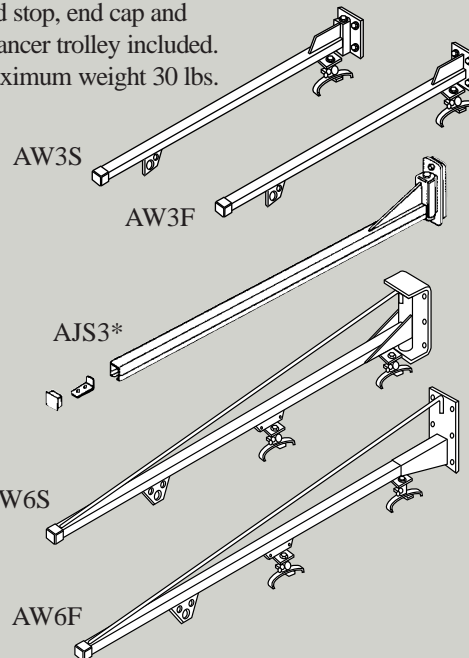
6 ft of runway and 6 ft jibs includes balancer  
trolley, two end stops, two hanger brackets and  
four end caps.  
50 lb weight  
capacity.



### WALL MOUNTED JIBS:

- AW3S 3 ft swinging jib
- AW3F 3 ft fixed jib
- AJS3\* 3 ft swinging jib for channel mount

Jibs are mounted to wall or beams  
to create free standing workstations.  
End stop, end cap and  
balancer trolley included.  
Maximum weight 30 lbs.



- AW6S 6 ft swinging jib
- AW6F 6 ft fixed jib

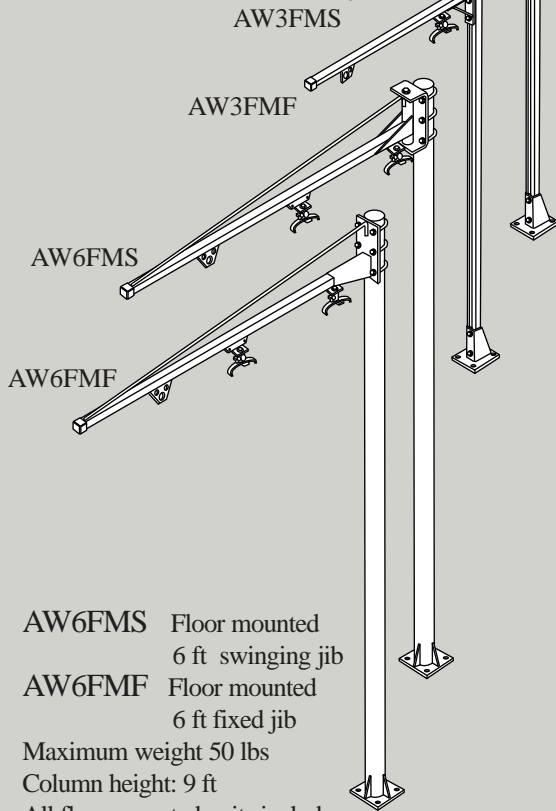
Jibs can be wall mounted or attached  
to vertical column (AVC-5) to  
create a freestanding workstation.  
End stop, end caps and  
balancer trolley are included.  
Maximum weight 50 lbs.

All complete assemblies are beige polyester finish  
and include balancer trolley, end caps and end stops.  
Floor mounted assemblies are not able to ship via  
UPS.

When choosing a workstation system, remember...  
total weight capacities should include tool balancer,  
balancer, hose/cable and tool/fixture. Units need to  
be supported vertically and horizontally every 6 ft.

\*AJS3 Does not include balancer trolley.

AW3FMS Floor mounted  
3 ft swinging jib  
AW3FMF Floor mounted  
3 ft fixed jib  
Maximum weight 30 lbs  
Column height: 6 ft



AW6FMS Floor mounted  
6 ft swinging jib  
AW6FMF Floor mounted  
6 ft fixed jib  
Maximum weight 50 lbs  
Column height: 9 ft

All floor mounted units include:  
end stop, balancer trolley and intermediate carrier



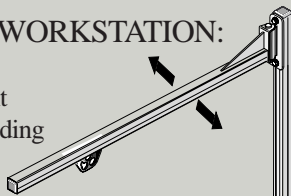
## CREATE YOUR OWN SUPPORT SYSTEMS TO SUIT YOUR SPECIFIC NEEDS USING WORKSTATION ASSEMBLIES OR COMPONENTS, ERGO-ARMS, AND BALANCERS FROM AIMCO.

- Organize work areas to create a safe, productive working environment
- Reduce risk of cumulative trauma to worker by providing full support of tools
- Protect valuable tools, fixtures, and monitoring devices from damage by suspending them out of the way

### AIMCO TOOL SUPPORT ARMS

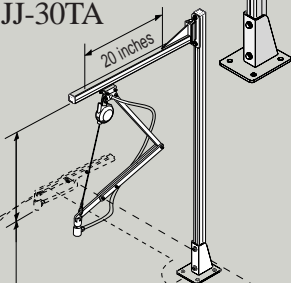
#### BENCH MOUNTED WORKSTATION: JJ-30-S

- 30 lbs. maximum weight
- 48" column height including mounting plate
- 3 ft. swinging jib includes balance trolley, end stop and cap
- beige polyester finish



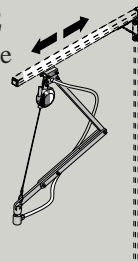
#### \*BENCH MOUNTED WORKSTATION WITH TORQUE ARM: JJ-30TA

- 5 lb. maximum weight (RPA-3 included)
- 5' column height including mounting plate
- 38" jib length (swinging)
- 15 ft/lbs. torque rating
- 3/8" NPT inlet
- 1/4" NPT outlet
- beige polyester finish
- 1/4" braided air hose
- 21" maximum vertical arm travel



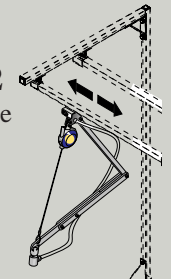
#### \*TROLLEY MOUNTED TORQUE ARM WITH 3 LB. RETRACTOR AND HOSE: FA50-2

Application: To move front to back along overhead jib



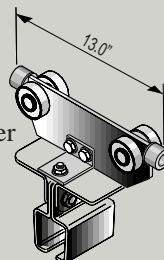
#### \*TROLLEY MOUNTED TORQUE ARM WITH 3 LB. RETRACTOR AND HOSE: TA50-2

Application: To move along overhead tool rail or side to side



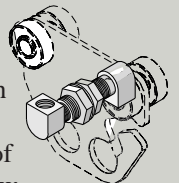
#### ROLLING HANGER: ABT5-R

Application: To support a runway and allow X/Y axis movement  
Example: Crosstracker



#### 90° CONNECTOR FOR 3/8" HOSE: WSCH

Brass fittings attach to balancer trolley for stable transfer of air line to tool below



\*For use with pneumatic tools only.

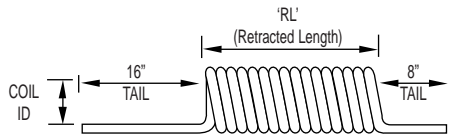


# Additional AIMCO Accessories



**AIMCO SINGLE AIR HOSE**

- Durable Polyurethane Hose
- Excellent Recoil Memory
- Maximum Flexibility and Lightweight
- Transparent Hose Color (opaque available)
- Custom Colors Available
- High Chemical Resistance



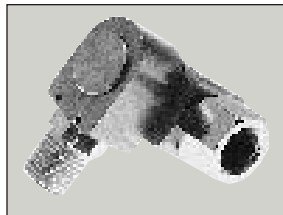
## SINGLE AIR HOSE ASSEMBLIES (COILED)

Part Number	Description	Retracted Length	Fittings
	Working Pressure 100PSI (OD x ID x length)		
ASH-250C-10MSZ	3/8" x 1/4" x 10'	7"	1/4"
ASH-250C-15MSZ	3/8" x 1/4" x 15'	9 1/2"	1/4"
ASH-250C-25MSZ	3/8" x 1/4" x 25'	15 1/2"	1/4"
ASH-375C-15MSZ	21/64" x 3/8" x 15'	8 1/2"	3/8"
ASH-375C-25MSZ	21/64" x 3/8" x 25'	14"	3/8"
ASH-500C-15MSZ	3/4" x 1/2" x 15'	11 3/4"	1/2"
ASH-500C-25MSZ	3/4" x 1/2" x 25'	23"	1/2"

- Assemblies include reusable swivel fitting
- Burst pressure 428 PSI @ 68° F
- Working Temperature: -104° F to 175° F

### TOOL SWIVELS

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



Part Number	Inlet	Weight	Recommended PSI	Tool CFM Range
7021	1/4 NPT	3 oz.	Up to 125	25
7041A	3/8 NPT	5 oz.	Up to 125	50
7051	1/2 NPT	10 oz.	Up to 125	60

\* Not to be used with percussive tools.

### INLINE MINI REGULATORS

Allows you to easily adjust your airflow with the turn of a dial.

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

## SINGLE AIR HOSE (COILED) CUSTOM

Part Number	Description
	(OD x ID x length)
ASH-250C	1/4" I.D.
ASH-375C	3/8" I.D.
ASH-500C	1/2" I.D.

## SINGLE AIR HOSE (STRAIGHT) CUSTOM

ASH-250Z	1/4" I.D.
ASH-375Z	3/8" I.D.
ASH-500Z	1/2" I.D.

### INLINE MINI LUBRICATORS

These mist-type inline lubricators keep your air operated tools performing with greater efficiency. The patented "on the tool" mist lubricator system saves money.



Part Number	Description	Weight	Length	NPT	Tool CFM Range
7006	Mini Lube	2 1/2" oz	2 1/4"	1/4"	3-7 CFM
7007	Midget Lube	3 1/2" oz	2 1/2"	1/4"	7-15 CFM
7008	Master Lube	5 oz.	3 1/4"	3/8"	15-30 CFM



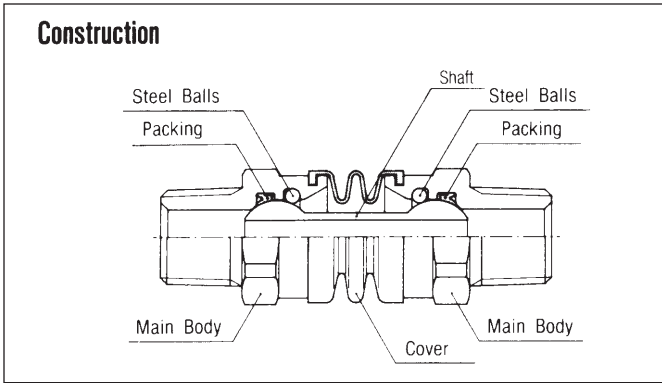
### AIR HOSE FITTINGS

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-RZ	1/2" NPT Rigid Fitting
500-SZ	1/2" NPT Swivel Fitting

## ERGONOMIC TWIST PLUGS



These unique, ergonomically designed hose fittings provide 360° rotation and 45° angled rotation in any direction.



- Two rotation points prevent kinking of air hose
- Lightweight and streamlined design
- Design ensures full flow of air pressure
- Rotating joint is supplied with polyurethane dust cover
- Steel construction for maximum life

SPECIFICATIONS	
Part Number	Description
TS-20NP-3NPT	1/4 NPT Female x 3/8 NPT Male
TS-30NP-2NPT	3/8 NPT Female x 1/4 NPT Male
TS-20NP-2NPT	1/4 NPT Female x 1/4 NPT Male
TS-20US-2NPT	1/4 US Plug x 1/4 NPT Male
TS-20US-3NPT	1/4 US Plug x 3/8 NPT Male
TS-30US-2NPT	3/8 US Plug x 1/4 NPT Male
TS-30US-3NPT	3/8 US Plug x 3/8 NPT Male



# AIMCO

## MAG-O-NETS

*A revolutionary way to convert standard bits to magnetic bits.*

AIMCO Mag-O-Nets, available in commonly used sizes, easily slide onto virtually any standard screwdriver bit turning it into a magnetized bit.

These magnetic collars are an easy, cost effective alternate to the traditional magnetic bit holder and insert bit combination. The “wobble” effect typically experienced with the bit holder is eliminated and thus improves torque transfer onto the application.

Mag-O-Nets allow easy adjustment of the magnetic pull you require by moving the magnetic collar closer or farther from the fastener.



*Let AIMCO help you improve productivity and quality through Mag-O-Nets and our many other fastener tool products.*

**Features include:**

- Fits virtually any standard screwdriver bit.
- Increase productivity by easily locating fasteners and eliminating dropped fasteners.
- Reusable and interchangeable - Once you wear out a bit, simply remove your Mag-O-Net and slide it onto the next.
- Lifetime guarantee on magnetic pull
- A full line of screwdriver bits are available - Contact your AIMCO sales representative for a complete catalog.

SPECIFICATIONS				
Part No.	Inner Diameter (ID)	Outer Diameter (OD)	Length (mm)	Dimensional Drawings
AM1/4	7mm	17.5mm	10mm	
AM5	6mm	15.0mm	10mm	
AM3/16	3/16"	15.0mm	10mm	



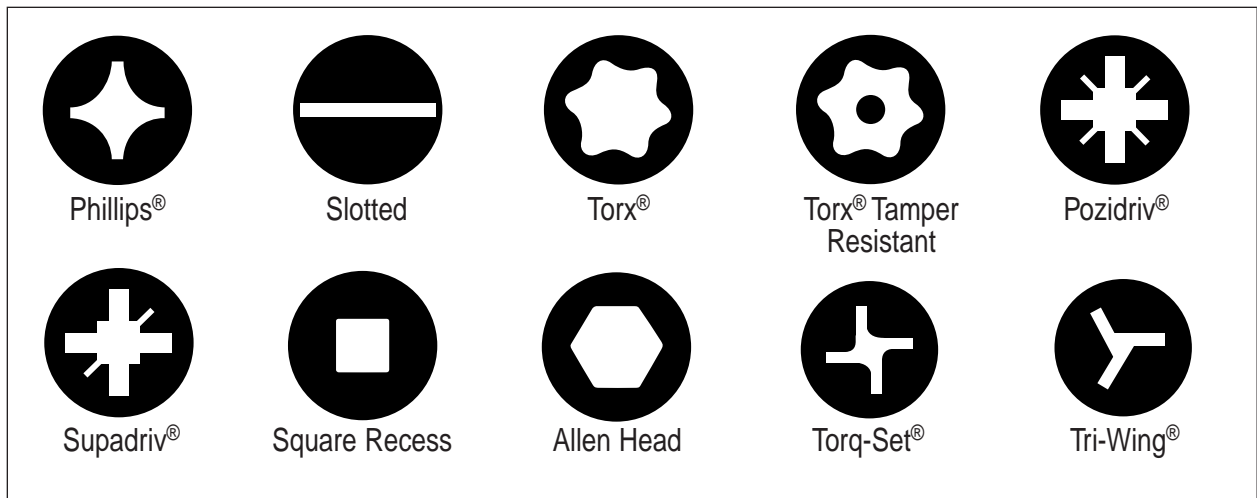
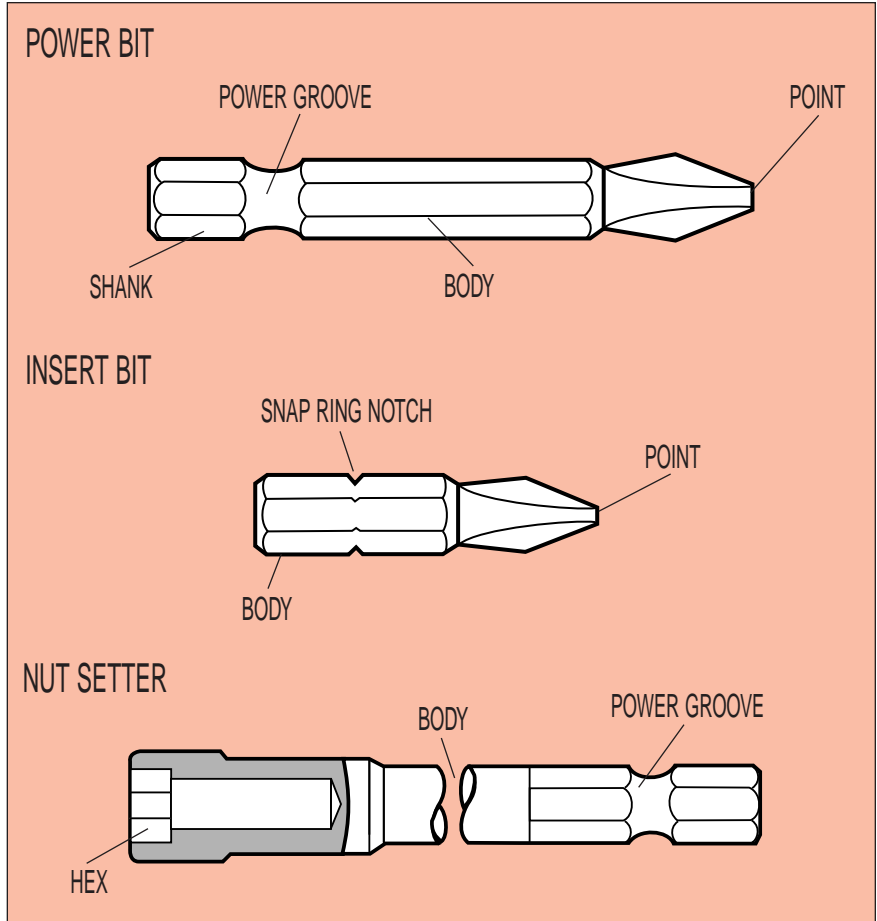
# BITS AND NUT SETTERS



# BITS AND NUT SETTERS

AIMCO has assembled the most complete package of commonly used screwdriver bits and nut setters in the industry. Our goal is to supply you with the highest quality bits and nut setters for all your fastener needs. If you're in the electronics, aerospace or general industry, AIMCO has the bits and nut setters to fit your needs.

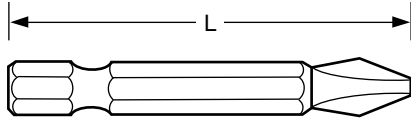
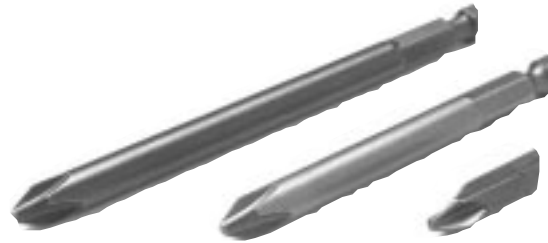
Most items are available in both American and Japanese industrial standards to properly fit your fasteners.



Made to order specials are available upon request.

# PHILLIPS® POWER BITS

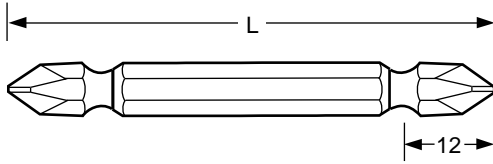
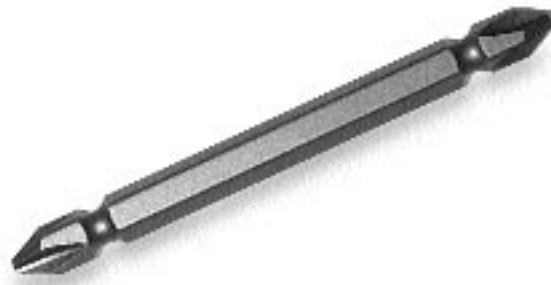
Puntas Phillips®



Part No.	Point Size	Length	
		mm	in
A3S0-2	0	50	1.969
A3S1-2	1	50	1.969
A3S1-2.75	1	70	2.756
A3S1-3	1	75	2.953
A3S1-3.5	1	90	3.543
A3S1-4	1	100	3.938
A3S1-6	1	150	5.906
A3S2-1.2	2	30	1.181
A3S2-1.6	2	40	1.574
A3S2-2	2	50	1.969
A3S2-2.75	2	70	2.756
A3S2-3	2	75	2.953
A3S2-3.5	2	90	3.543
A3S2-4	2	100	3.938
A3S2-4.7	2	120	4.724
A3S2-4.75	2	125	4.921
A3S2-6	2	150	5.906
A3S2-8	2	200	7.874
A3S2-10	2	250	9.842
A3S2-12	2	300	11.811
A3S3-2	3	50	1.969
A3S3-2.75	3	70	2.756
A3S3-3	3	75	2.953
A3S3-3.5	3	90	3.543
A3S3-4	3	100	3.938
A3S3-4.7	3	120	4.724
A3S3-6	3	150	5.906
A3S3-8	3	200	7.874
A3S3-10	3	250	9.842
A3S3-12	3	300	11.811

# PHILLIPS® POWER BITS DOUBLE ENDED

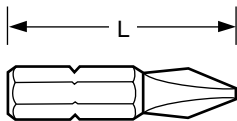
Puntas de Doble Punta



Part No.	Point Size	Length	
		mm	in
A3W1-3	1	75	2.935
A3W1-4	1	100	3.938
A3W2-2	2	50	1.968
A3W2-3	2	75	2.935
A3W2-4	2	100	3.938
A3W2-6	2	150	5.906
A3W2-8	2	200	7.874
A3W2-10	2	250	9.842
A3W2-12	2	300	11.811
A3W3-2	3	50	1.968
A3W3-3	3	75	2.935
A3W3-4	3	100	3.938
A3W3-6	3	150	5.906
A3W3-8	3	200	7.874

# PHILLIPS® INSERT BITS

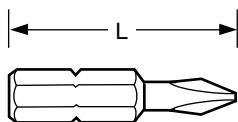
Insertos Phillips®



Part No.	Point Size	Length	
		mm	in
A38S0-1	0	25	0.984
A38S1-1	1	25	0.984
A38S1-1.5	1	38	1.496
A38S1-2	1	50	1.969
A38S2-1	2	25	0.984
A38S2-1.5	2	38	1.496
A38S2-2	2	50	1.969
A38S2-2.5	2	65	2.559
A38S3-1	3	25	0.984
A38S4-1	4	25	0.984
A38S4-1.25	4	30	1.181

Reduced Nose Diameter

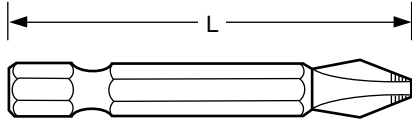
Insertos Phillips®



Part No.	Point Size	Length	
		mm	in
A39S1-1	1	25	0.984
A39S2-1	2	25	0.984
A39S2-1.5	2	38	1.496
A39S2-2	2	50	1.969

# ACR® PHILLIPS POWER BITS

Puntas Phillips®



Part No.	Point Size	Length	
		mm	in
A3S1-2ACRI	1	50	1.969
A3S1-2.75ACRI	1	70	2.756
A3S1-3.5ACRI	1	90	3.543
A3S1-6ACRI	1	150	5.906
A3S2-2ACRI	2	50	1.969
A3S2-2.75ACRI	2	70	2.756
A3S2-3.5ACRI	2	90	3.543
A3S2-6ACRI	2	150	5.906
A3S3-2ACRI	3	50	1.969
A3S3-2.75ACRI	3	70	2.756
A3S3-3.5ACRI	3	90	3.543
A3S3-6ACRI	3	150	5.906

ACRI = INSTALL

Part No.	Point Size	Length	
		mm	in
A3S1-2ACR	1	50	1.969
A3S1-3.5ACR	1	87.5	3.445
A3S1-6ACR	1	150	5.906
A3S2-2ACR	2	50	1.969
A3S2-2.75ACR	2	70	2.756
A3S2-3.5ACR	2	90	3.543
A3S2-6ACR	2	150	5.906
A3S3-2ACR	3	50	1.969
A3S3-2.75ACR	3	70	2.756
A3S3-3.5ACR	3	90	3.543
A3S3-6ACR	3	150	5.906

ACR = REMOVE

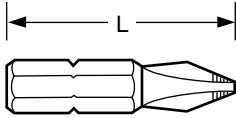
Part No.	Point Size	Length	
		mm	in
A3S1-2ACRB	1	50	1.969
A3S2-2ACRB	2	50	1.969
A3S3-2ACRB	3	50	1.969

ACRB = BOTH INSTALL AND REMOVE



# ACR® PHILLIPS INSERT BITS

Insertos Phillips®



Part No.	Point Size	mm	Length in
A38S1-1ACRI	1	25.4	1.000
A38S2-1ACRI	2	25	0.984
A38S3-1ACRI	3	25.4	1.000

ACRI = INSTALL

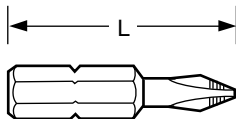
Part No.	Point Size	mm	Length in
A38S1-1ACR	1	25	0.984
A38S2-1ACR	2	25	0.984
A38S3-1ACR	3	25	0.984

ACR = REMOVE

Part No.	Point Size	mm	Length in
A38S1-1ACRB	1	25.4	1.000
A38S2-1ACRB	2	25.4	1.000
A38S3-1ACRB	3	25.4	1.000

ACRB = BOTH INSTALL AND REMOVE

## Reduced Diameter Insertos Phillips®



Part No.	Point Size	mm	Length in
A39S2-1ACRI	2	25.4	1.000
A39S2-1.5ACRI	2	37.5	1.476
A39S2-2ACRI	2	50	1.969

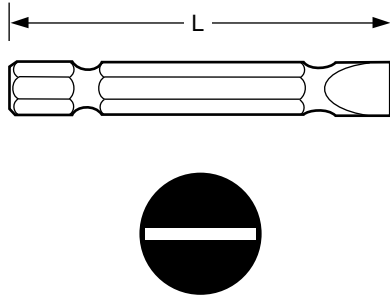
ACRI = INSTALL

Part No.	Point Size	mm	Length in
A39S2-1ACR	2	25.4	1.000
A39S2-1.5ACR	2	37.5	1.476
A39S2-2ACR	2	50	1.969

ACR = REMOVE

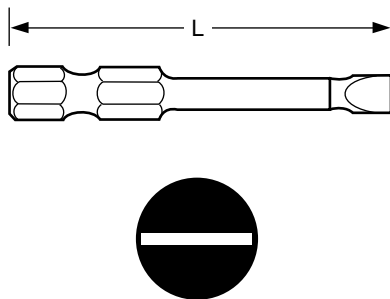
# SLOTTED POWER BITS

Puntas Agujereadas



Part No.	Screw Size	Length		Blade Thickness	Blade Width
		mm	in		
A3M8-2	8	50	1.969	.042	0.275
A3M8-2.75	8	70	2.756	.042	0.275
A3M8-3	8	75	2.953	.042	0.275
A3M10-2	10	50	1.969	.046	0.312
A3M10-2.75	10	70	2.756	.046	0.312
A3M10-3	10	75	2.953	.046	0.312
A3M12-2	12	50	1.969	.050	0.360
A3M12-2.75	12	70	2.756	.050	0.360
A3M12-3	12	75	2.953	.050	0.360

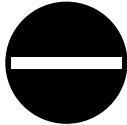
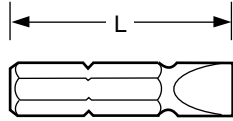
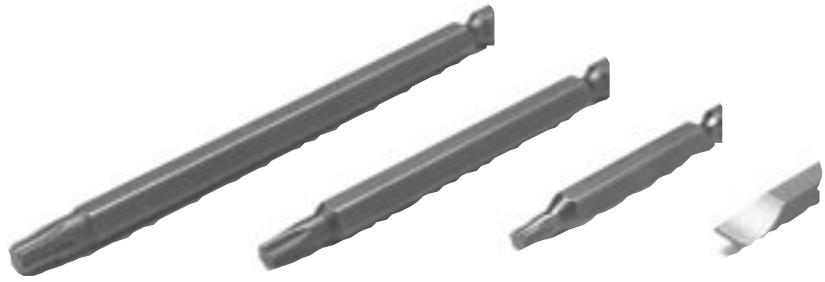
Reduced Diameter  
Puntas Ranurados Con Diametro Reducido



Part No.	Screw Size	Length		Blade Thickness	Blade Width
		mm	in		
A3MT1-2	1	50	1.969	.022	0.122
A3MT1-3	1	75	2.953	.022	0.122
A3MT3-2	3	50	1.969	.030	0.154
A3MT3-3	3	75	2.953	.030	0.154
A3MT4-2	4	50	1.969	.034	0.188
A3MT4-2.75	4	70	2.756	.034	0.188
A3MT4-3	4	75	2.953	.034	0.188
A3MT5-2	5	50	1.969	.036	0.250
A3MT5-2.75	5	70	2.756	.036	0.250
A3MT5-3	5	75	2.953	.036	0.250
A3MT6-2	6	50	1.969	.038	0.250
A3MT6-2.75	6	70	2.756	.038	0.250
A3MT6-3	6	75	2.953	.038	0.250

# SLOTTED INSERT BITS

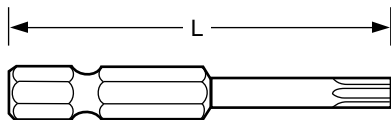
Insertos Ranurados



Part No.	Screw Size	Length		Blade Thickness	Blade Width
		mm	in		
A38M2-1	2	25	0.984	0.026	0.281
A38M2-1.5	2	38	1.496	0.026	0.138
A38M3-1	3	25	0.984	0.030	0.154
A38M3-1.5	3	38	1.496	0.030	0.154
A38M4-1	4	25	0.984	0.030	0.170
A38M4-1.5	4	38	1.496	0.034	0.188
A38M5-1	5	25	0.984	0.036	0.219
A38M6-1	6	25	0.984	0.040	0.219
A38M6-1.5	6	38	1.496	0.040	0.218
A38M8-1	8	25	0.984	0.042	0.250
A38M8-1.5	8	38	1.496	0.042	0.250
A38M10-1	10	25	0.984	0.046	0.281
A38M10-1.5	10	38	1.496	0.046	0.281
A38M12-1.5	12	38	1.496	0.050	0.297
A38M14-1.5	14	38	1.496	0.550	0.344

# TORX® POWER BITS

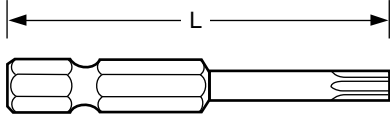
Puntas Torx®



Part No.	Torx Size	Length	
		mm	in
A3T6-2	T6	50	1.969
A3T7-2	T7	50	1.969
A3T7-2.75	T7	70	2.756
A3T7-3.5	T7	90	3.543
A3T7-6	T7	150	5.906
A3T8-2	T8	50	1.969
A3T8-2.75	T8	70	2.756
A3T8-3.5	T8	90	3.543
A3T8-6	T8	150	5.906
A3T9-2	T9	50	1.969
A3T9-2.75	T9	70	2.756
A3T9-3.5	T9	90	3.543
A3T9-6	T9	150	5.906
A3T10-2	T10	50	1.969
A3T10-2.75	T10	70	2.756
A3T10-3.5	T10	90	3.543
A3T10-6	T10	150	5.906

# TORX® POWER BITS

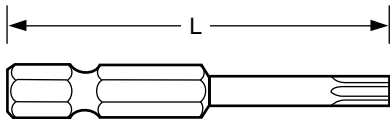
Puntas Torx®



Part No.	Torx Size	Length	
		mm	in
A3T15-2	T15	50	1.969
A3T15-2.75	T15	70	2.756
A3T15-3.5	T15	90	3.543
A3T15-6	T15	150	5.906
A3T20-2	T20	50	1.969
A3T20-2.75	T20	70	2.756
A3T20-3.5	T20	90	3.543
A3T20-6	T20	150	5.906
A3T25-2	T25	50	1.969
A3T25-2.75	T25	70	2.756
A3T25-3.5	T25	90	3.543
A3T25-6	T25	150	5.906
A3T27-2	T27	50	1.969
A3T27-2.75	T27	70	2.756
A3T27-3.5	T27	90	3.543
A3T27-6	T27	150	5.906
A3T30-2	T30	50	1.969
A3T30-2.75	T30	70	2.756
A3T30-3.5	T30	90	3.543
A3T30-6	T30	150	5.906
A3T40-2	T40	50	1.969
A3T40-2.75	T40	70	2.756
A3T40-3.5	T40	90	3.543
A3T40-6	T40	150	5.906

## TAMPER RESISTANT

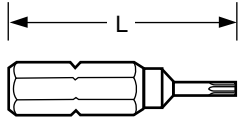
Torx® (Extra Resistencia)



Part No.	Torx Size	Length	
		mm	in
A3T10-2TR	T10	50	1.969
A3T15-2TR	T15	50	1.969
A3T20-2TR	T20	50	1.969
A3T25-2TR	T25	50	1.969

# TORX® INSERT BITS

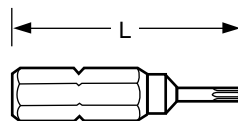
Insertos Torx®



Part No.	Torx Size	Length	
		mm	in
A38T6-1	T6	25	0.984
A38T7-1	T7	25	0.984
A38T8-1	T8	25	0.984
A38T9-1	T9	25	0.984
A38T10-1	T10	25	0.984
A38T15-1	T15	25	0.984
A38T20-1	T20	25	0.984
A38T25-1	T25	25	0.984
A38T27-1	T27	25	0.984
A38T30-1	T30	25	0.984
A38T40-1	T40	25	0.984

## TAMPER RESISTANT

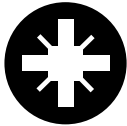
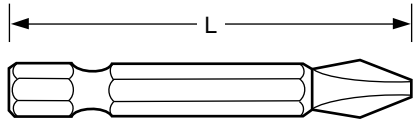
Torx® (Extra Resistencia)



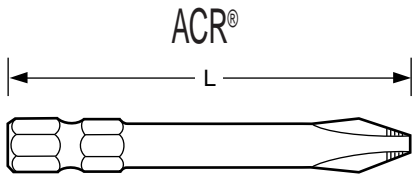
Part No.	Torx Size	Length	
		mm	in
A38T7-1TR	T7	25	0.984
A38T8-1TR	T8	25	0.984
A38T9-1TR	T9	25	0.984
A38T10-1TR	T10	25	0.984
A38T15-1TR	T15	25	0.984
A38T20-1TR	T20	25	0.984
A38T25-1TR	T25	25	0.984
A38T27-1TR	T27	25	0.984
A38T30-1TR	T30	25	0.984
A38T40-1TR	T40	25	0.984

# POZIDRIV® POWER BITS

Puntas Pozidriv®



## ACR® TYPE

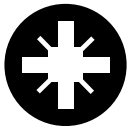
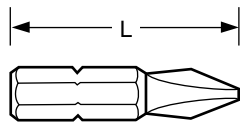


Part No.	Point Size	Length	
		mm	in
A3S1-2PZ	1	50	1.969
A3S1-2.75PZ	1	70	2.756
A3S1-3.5PZ	1	88.9	3.500
A3S2-2PZ	2	50	1.969
A3S2-2.75PZ	2	70	2.756
A3S2-3.5PZ	2	88.9	3.500
A3S3-2PZ	3	50	1.969
A3S3-2.75PZ	3	70	2.756

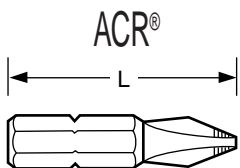
Part No.	Point Size	Length	
		mm	in
A3S2-2PZARCB	2	50	1.969

# POZIDRIV® INSERT BITS

Insertos Pozidriv®

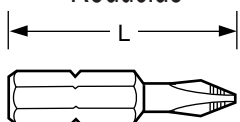


## ACR® TYPE



Reduced Diameter

Insertos Ranurados Con Diametro Reducido



Part No.	Point Size	Length	
		mm	in
A38S1-1PZ	1	25	0.984
A38S2-1PZ	2	25	0.984

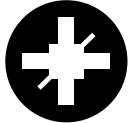
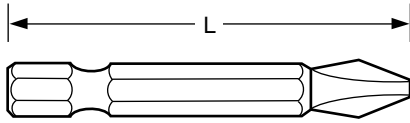
Part No.	Point Size	Length	
		mm	in
A38S1-1PZARCB	1	25.4	1.000
A38S2-1PZARCB	2	25.4	1.000
A38S3-1PZARCB	3	25.4	1.000

Part No.	Point Size	Length	
		mm	in
A39S1-1PZ	1	25	0.984
A39S2-1PZ	2	25	0.984

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# SUPADRIV® POWER BITS

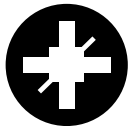
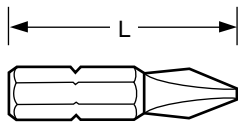
Puntas Supadriv®



Part No.	Point Size	Length	
		mm	in
A3S1-2SDV	1	50	1.969
A3S2-2SDV	2	50	1.969
A3S3-2SDV	3	50	1.969

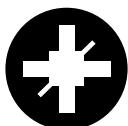
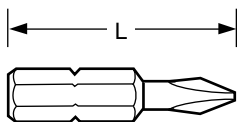
# SUPADRIV® INSERT BITS

Insertos Supadriv®



Part No.	Point Size	Length	
		mm	in
A38S1-1SDV	1	25	0.984
A38S2-1SDV	2	25	0.984

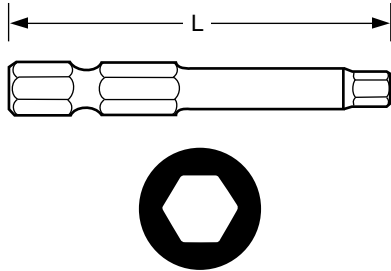
Reduced Diameter  
Insertos Ranurados Con Diametro  
Reducido



Part No.	Point Size	Length	
		mm	in
A39S2-1SDV	2	25	0.984

# ALLEN DRIVE POWER BITS

## Puntas Socket Cabeza Allen

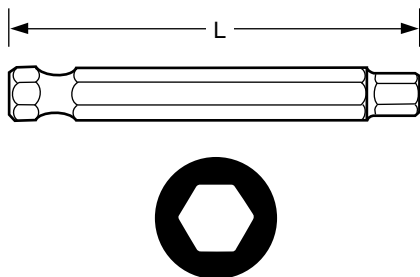


Part No.	Hex	Length	
		mm	in
A3C1/16-2	1/16"	50	1.969
A3C5/64-2	5/64"	50	1.969
A3C3/32-2	3/32"	50	1.969
A3C7/64-2	7/64"	50	1.969
A3C1/8-2	1/8"	50	1.969
A3C9/64-2	9/64"	50	1.969
A3C5/32-2	5/32"	50	1.969
A3C3/16-2	3/16"	50	1.969
A3C7/32-2	7/32"	50	1.969
A3C1/4-2	1/4"	50	1.969
A3C5/16-2	5/16"	50	1.969

Part No.	Hex	Length	
		mm	in
A3C2-2	2 mm	50	1.969
A3C2.5-2	2.5 mm	50	1.969
A3C3-2	3 mm	50	1.969
A3C4-2	4 mm	50	1.969
A3C5-2	5 mm	50	1.969
A3C6-2	6 mm	50	1.969
A3C8-2	8 mm	50	1.969
A3C10-2	10 mm	50	1.969

## 7/16" HEX SHANK

### Puntas 7/16

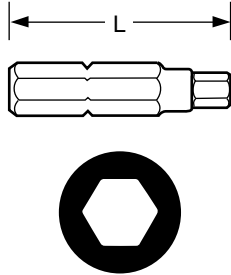


Part No.	Hex	Length	
		mm	in
A7C5-3.5	5 mm	90	3.543
A7C6-3.5	6 mm	90	3.543
A7C8-3.5	8 mm	90	3.543
A7C10-3.5	10 mm	90	3.543



# ALLEN HEAD INSERT BITS

Insertos Cabeza Allen



Part No.	Hex	Length	
		mm	in
A38C1/16-1	1/16"	25.4	1.000
A38C5/64-1	5/64"	25.4	1.000
A38C3/32-1	3/32"	25.4	1.000
A38C7/64-1	7/64"	25.4	1.000
A38C1/8-1	1/8"	25.4	1.000
A38C9/64-1	9/64"	25.4	1.000
A38C5/32-1	5/32"	25.4	1.000
A38C5/32 -2	5/32"	50.0	1.969
A38C3/16-1	3/16"	25.4	1.000
A38C3/16-2	3/16"	50.0	1.969
A38C7/32-1	7/32"	25.4	1.000
A38C7/32-2	7/32"	50.0	1.969
A38C1/4 -1	1/4"	25.4	1.000
A38C1/4-2	1/4"	50.0	1.969
A38C5/16-1	5/16"	25.4	1.000
A38C3/8-1	3/8"	25.4	1.000

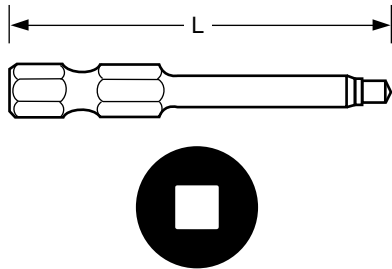
Part No.	Hex	Length	
		mm	in
A38C1.5-1	1.5 mm	25	0.984
A38C2-1	2 mm	25	0.984
A38C2.5-1	2.5 mm	25	0.984
A38C3-1	3 mm	25	0.984
A38C4-1	4 mm	25	0.984
A38C4-2	4 mm	50	1.969
A38C5-1	5 mm	25	0.984
A38C5-2	5 mm	50	1.969
A38C6-1	6 mm	25	0.984
A38C6-2	6 mm	50	1.969
A38C7-1	7 mm	25	0.984
A38C7-2	7 mm	50	1.969
A38C8-1	8 mm	25	0.984
A38C8-1.25	8 mm	31	1.220

# SQUARE RECESS POWER BITS

Puntas Cuadradas (Macho)



Reduced Diameter  
Puntas Cuadradas Con Diametro  
Reducido

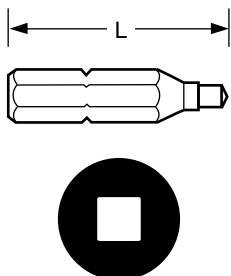


Part No.	Nominal	mm	Length	
	Square Size			in
A3RT1/16-2	1/16"	50		1.969
A3RT1/16-2.75	1/16"	70		2.756
A3RT1/16-3.5	1/16"	90		3.543
A3RT3/32-2	3/32"	50		1.969
A3RT3/32-2.75	3/32"	70		2.756
A3RT3/32-3.5	3/32"	90		3.543
A3RT1/8-2	1/8"	50		1.969
A3RT1/8-2.75	1/8"	70		2.756
A3RT1/8-3.5	1/8"	90		3.543
A3RT9/64-2	9/64"	50		1.969
A3RT9/64-2.75	9/64"	70		2.756
A3RT9/64-3.5	9/64"	90		3.543

Part No.	Nominal	mm	Length	
	Square Size			in
A3R1/16-2	1/16"	50		1.969
A3R1/16-2.75	1/16"	70		2.756
A3R3/32-2	3/32"	50		1.969
A3R3/32-2.75	3/32"	70		2.756
A3R1/8-2	1/8"	50		1.969
A3R1/8-2.75	1/8"	70		2.756
A3R9/64-2	9/64"	50		1.969
A3R9/64-2.75	9/64"	70		2.756

# SQUARE RECESS INSERT BITS

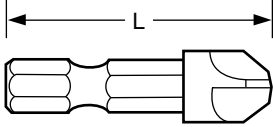
Puntas Cuadradas (Macho)



Part No.	Nominal	mm	Length	
	Square Size			in
A38R1/16-1	1/16"	25		0.984
A38R3/32-1	3/32"	25		0.984
A38R1/8-1	1/8"	25		0.984
A38R9/64-1	9/64"	25		0.984

# TORQ-SET® POWER BITS

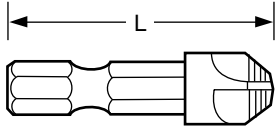
Puntas Torq-Set®



Part No.	Screw Size	Length	
		mm	in
A3TS 1/4-1.25	1/4	31	1.220
A3TS 5/16-1.25	5/16	31	1.220
A3TS 3/8-1.25	3/8	31	1.220
A3TS 7/16-1.25	7/16	31	1.220
A3TS 1/2-1.25	1/2	31	1.220
A3TS0-1.25	0	31	1.220
A3TS0-2	0	50	1.969
A3TS0-3.5	0	90	3.543
A3TS0-6	0	150	5.906
A3TS1-1.25	1	31	1.220
A3TS1-2	1	50	1.969
A3TS1-3.5	1	90	3.543
A3TS1-6	1	150	5.906
A3TS2-1.25	2	31	1.220
A3TS2-2	2	50	1.969
A3TS2-3.5	2	90	3.543
A3TS2-6	2	150	5.906
A3TS3-1.25	3	31	1.220
A3TS3-2	3	50	1.969
A3TS3-3.5	3	90	3.543
A3TS3-6	3	150	5.906
A3TS4-1.25	4	31	1.220
A3TS4-2	4	50	1.969
A3TS4-3.5	4	90	3.543
A3TS4-6	4	150	5.906
A3TS5-1.25	5	31	1.220
A3TS5-2	5	50	1.969
A3TS5-3.5	5	90	3.543
A3TS5-6	5	150	5.906
A3TS6-1.25	6	31	1.220
A3TS6-2	6	50	1.969
A3TS6-3.5	6	90	3.543
A3TS6-6	6	150	5.906
A3TS8-1.25	8	31	1.220
A3TS8-2	8	50	1.969
A3TS8-3.5	8	90	3.543
A3TS8-6	8	150	5.906
A3TS10-1.25	10	31	1.220
A3TS10-2	10	50	1.969
A3TS10-3.5	10	90	3.543
A3TS10-6	10	150	5.906

# TORQ-SET® ACR® POWER BITS

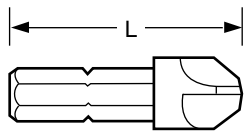
Puntas Torq-Set® ACR®



Part No.	Screw Size	Length	
		mm	in
A3TS6-1.25ACR	6	31	1.220
A3TS8-1.25ACR	8	31	1.220

# TORQ-SET® INSERT BITS

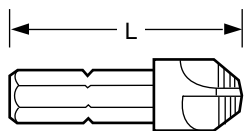
Insertos Torq-Set®



Part No.	Screw Size	Length	
		mm	in
A38TS 1/4-1	1/4	25	0.984
A38TS 5/16-1	5/16	25	0.984
A38TS0-1	0	25	0.984
A38TS1-1	1	25	0.984
A38TS2-1	2	25	0.984
A38TS3-1	3	25	0.984
A38TS4-1	4	25	0.984
A38TS5-1	5	25	0.984
A38TS6-1	6	25	0.984
A38TS8-1	8	25	0.984
A38TS10-1	10	25	0.984

# ACR® TYPE

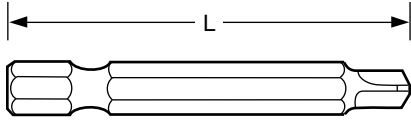
ACR®



Part No.	Screw Size	Length	
		mm	in
A38TS6-1ACR	6	25	0.984
A38TS8-1ACR	8	25	0.984
A38TS10-1ACR	10	25	0.984

# TRI-WING® POWER BITS

Puntas Tri-Wing®



Part No.	Recess #	Length		Tension Head	Shear Head
		mm	in		
A3TW0-1.25	0	31	1.220	0-80	-
A3TW1-1.25	1	31	1.220	2-56	4-40
A3TW2-1.25	2	31	1.220	4-40	6-32
A3TW3-1.25	3	31	1.220	6-32	8-32
A3TW4-1.25	4	31	1.220	8-32	10-32
A3TW5-1.25	5	31	1.220	10-32	1/4-32
A3TW6-1.25	6	31	1.220	1/4-28	5/16-24
A3TW7-1.25	7	31	1.220	1/4-28	5/16-24
A3TW8-1.25	8	31	1.220	3/8-24	7/16-20

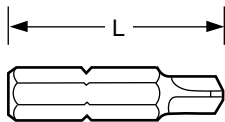
## ACR® TYPE



Part No.	Recess #	Length		Tension Head	Shear Head
		mm	in		
A3TW3-1.25ACR	3	31	1.220	6-32	8-32
A3TW4-1.25ACR	4	31	1.220	8-32	10-32
A3TW5-1.25ACR	5	31	1.220	10-32	1/4-28
A3TW6-1.25 ACR	6	31	1.220	1/4-28	5/16-24

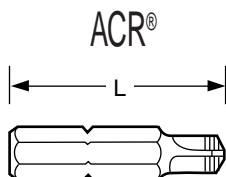
# TRI-WING® INSERT BITS

Insertos Tri-Wing®



Part No.	Recess #	Length		Tension Head	Shear Head
		mm	in		
A38TW0-1	0	25	0.984	0-80	-
A38TW1-1	1	25	0.984	2-56	4-40
A38TW2-1	2	25	0.984	4-40	6-32
A38TW3-1	3	25	0.984	6-32	8-32
A38TW4-1	4	25	0.984	8-32	10-32
A38TW5-1	5	25	0.984	10-32	1/4-28
A38TW6-1.25	6	31	1.220	1/4-28	5/16-24
A38TW7-1.25	7	31	1.220	5/16-24	3/8-24
A38TW8-1.25	8	31	1.220	3/8-24	7/16-20

## ACR® TYPE

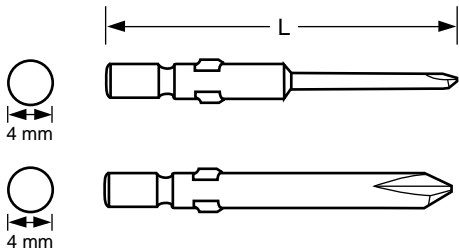


Part No.	Recess #	Length		Tension Head	Shear Head
		mm	in		
A38TW3-1ACR	3	25	0.984	6-32	8-32
A38TW4-1ACR	4	25	0.984	8-32	10-32
A38TW5-1ACR	5	25	0.984	10-32	1/4-28
A38TW6-1.25ACR	6	31	1.220	1/4-28	5/16-24

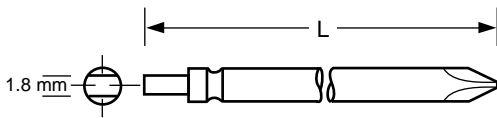
Tri-Wing® and ACR® are registered trademarks of the Phillips Screwdriver Company.

# ELECTRIC BITS

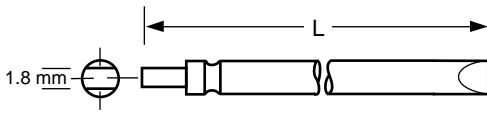
## Puntas Electricas



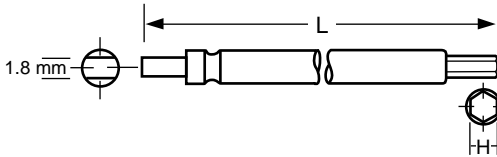
Part No.	Point Size	Length	
		mm	in
A00X4X40	00	40	1.754
A00X4X60	00	60	2.362
A0X4X40	0	40	1.754
A0X4X80	0	80	3.149
A1X4X40	1	40	1.754
A2X4X40	2	40	1.754



Part No.	Point Size	Length	
		mm	in
A26S0-1.25	0	31	1.22
A26S0-2.75	0	70	2.755
A26S1-1.25	1	31	1.222
A26S1-2.75	1	70	2.755
A26S2-1.25	2	31	1.22
A26S2-2.75	2	70	2.755



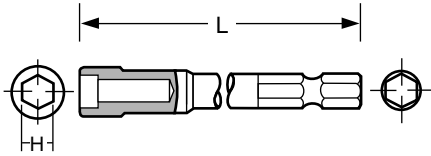
Part No.	Screw Size	Length		Blade Thickness	Blade Width
		mm	in		
A26M2-1.25	2	31	1.255	0.026	0.138
A26M3-1.25	3	31	1.255	0.03	0.154



Part No.	H	Length	
		mm	in
A26C1.5-2	1.5 mm	50	1.968
A26C2-2	2 mm	50	1.968
A26C2.5-2	2.5 mm	50	1.968

# NUT SETTERS

Encajes para Destornillador



Part No.	Hex	Length	
		mm	in
A3B1/4-2	1/4	50	1.969
A3B1/4-2.5	1/4	63.498	2.5
A3B5/16-2	5/16	50	1.969
A3B5/16-2.5	5/16	63.498	2.5
A3B3/8-2	3/8	50	1.969
A3B3/8-2.5	3/8	63.498	2.5
A3B05-2.75	5 mm	70	2.756
A3B55-1.2	5.5 mm	30	1.181
A3B55-2.75	5.5 mm	70	2.756
A3B55-4	5.5 mm	100	3.937
A3B06-2.75	6 mm	70	2.756
A3B07-1.2	7 mm	30	1.181
A3B07-2	7 mm	50	1.969
A3B07-2.75	7 mm	70	2.756
A3B07-4	7 mm	100	3.937
A3B08-1.2	8 mm	30	1.181
A3B08-2	8 mm	50	1.969
A3B08-2.75	8 mm	70	2.756
A3B08-4	8 mm	100	3.937
A3B08-6	8 mm	150	5.906
A3B08-8	8 mm	200	7.874
A3B09-2.75	9 mm	70	2.756
A3B09-4	9 mm	100	3.937
A3B10-1.2	10 mm	30	1.181
A3B10-2	10 mm	50	1.969
A3B10-2.75	10 mm	70	2.756
A3B10-4	10 mm	100	3.937
A3B10-6	10 mm	150	5.906
A3B10-8	10 mm	200	7.874
A3B11-2.75	11 mm	70	2.756
A3B11-4	11 mm	100	3.937
A3B12-1.2	12 mm	30	1.181
A3B12-2	12 mm	50	1.969
A3B12-2.75	12 mm	70	2.756
A3B12-4	12 mm	100	3.937
A3B12-6	12 mm	150	5.906
A3B12-8	12 mm	200	7.874
A3B13-2.75	13 mm	70	2.756
A3B13-4	13 mm	100	3.937
A3B14-2.75	14 mm	70	2.756
A3B14-4	14 mm	100	3.937
A3B14-6	14 mm	150	5.906
A3B16-2.75	16 mm	70	2.756
A3B17-2.75	17 mm	70	2.756
A3B17-4	17 mm	100	3.937

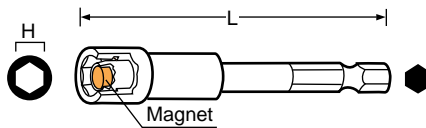
# MAGNETIC NUT SETTERS

Encajes Magneticos



## MP Type

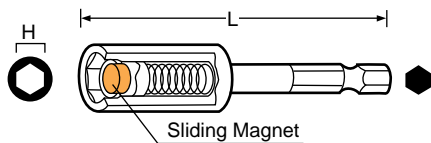
Encajes Magneticos (MP) a Presion



Part No.	Hex	Length	
		mm	in
A3BMP1/4-2	1/4	50	1.969
A3BMP1/4-2.5	1/4	63.498	2.5
A3BMP5/16-2	5/16	50	1.969
A3BMP5/16-2.5	5/16	63.498	2.5
A3BMP3/8-2	3/8	50	1.969
A3BMP3/8-2.5	3/8	63.498	2.5
A3BMP55-2.75	5.5 mm	70	2.756
A3BMP55-4	5.5 mm	100	3.937
A3BMP06-2.75	6 mm	70	2.756
A3BMP06-4	6 mm	100	3.937
A3BMP07-2	7 mm	50	1.969
A3BMP07-2.75	7 mm	70	2.756
A3BMP07-4	7 mm	100	3.937
A3BMP08-2	8 mm	50	1.969
A3BMP08-2.75	8 mm	70	2.756
A3BMP08-4	8 mm	100	3.937
A3BMP10-2	10 mm	50	1.969
A3BMP10-2.75	10 mm	70	2.756
A3BMP10-4	10 mm	100	3.937
A3BMP12-2	12 mm	50	1.969
A3BMP12-2.75	12 mm	70	2.756
A3BMP12-4	12 mm	100	3.937
A3BMP14-2.75	14 mm	70	2.756
A3BMP14-4	14 mm	100	3.937

## MS Type

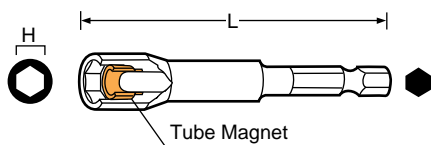
Encajes Magneticos (MS) Modelo Deslizante



Part No.	Hex	Length	
		mm	in
A3BMS08-2.75	8 mm	70	2.756
A3BMS08-4	8 mm	100	3.937
A3BMS08-6	8 mm	150	5.906
A3BMS10-2.75	10 mm	70	2.756
A3BMS10-4	10 mm	100	3.937
A3BMS10-6	10 mm	150	5.906
A3BMS10-8	10 mm	200	7.874
A3BMS12-2.75	12 mm	70	2.756
A3BMS12-4	12 mm	100	3.937
A3BMS12-6	12 mm	150	5.906
A3BMS14-4	14 mm	100	3.937

## MT Type

Encajes Magneticos (MT) Modelo Tubular

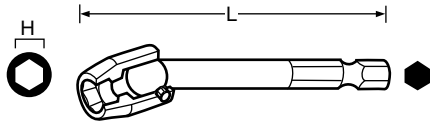
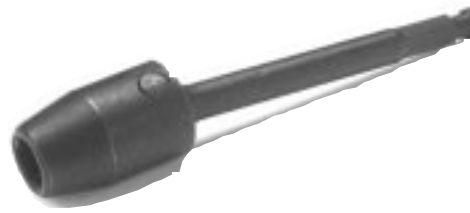


Part No.	Hex	Length	
		mm	in
A3BMT08-2.75	8 mm	70	2.756
A3BMT08-4	8 mm	100	3.937
A3BMT10-2.75	10 mm	70	2.756
A3BMT10-4	10 mm	100	3.937
A3BMT12-2.75	12 mm	70	2.756
A3BMT12-4	12 mm	100	3.937
A3BMT14-2.75	14 mm	70	2.756
A3BMT14-4	14 mm	100	3.937



# UNIVERSAL NUT SETTERS

Encajes para Destornillador  
Universales

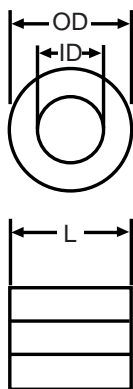
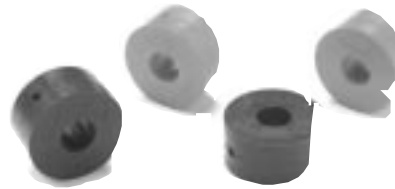


Part No.	Hex	Length	
		mm	in
A3BU08-4	8 mm	100	3.937
A3BU08-6	8 mm	150	5.906
A3BU08-8	8 mm	200	7.874
A3BU10-4	10 mm	100	3.937
A3BU10-6	10 mm	150	5.906
A3BU10-8	10 mm	200	7.874
A3BU12-4	12 mm	100	3.937
A3BU12-6	12 mm	150	5.906
A3BU12-8	12 mm	200	7.874
A3BU14-4	14 mm	100	3.937
A3BU14-6	14 mm	150	5.906
A3BU14-8	14 mm	200	7.874

# MAG-O-NETS

Detachable Magnetic Rings  
for Screwdriver Bits

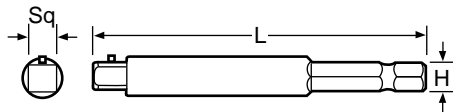
Anillos Magéticos para  
Puntas de Destornillador



Part No.	Inner Diameter (ID)	Outer Diameter (OD)	Length mm
AM1/4	7mm	19mm	10 mm
AM5	6mm	17.5	10 mm
AM3/16	3/16	17.5	10 mm

# BIT ADAPTERS

## Adaptadores



Part No.	Square Drive	H	Length	
			mm	in
A3S02A-1.375	1/4"	1/4"	35	1.378
A3S02A-2	1/4"	1/4"	50	1.969
A3S02A-3	1/4"	1/4"	75	2.953
A3S02A-4	1/4"	1/4"	100	3.937
A3S02A-5	1/4"	1/4"	128	5.039
A3S02A-6	1/4"	1/4"	150	5.906
A3S02A-8	1/4"	1/4"	200	7.874
A3S02A-10	1/4"	1/4"	250	9.843
A3S02A-12	1/4"	1/4"	300	11.811
<hr/>				
A3S03A-2	3/8"	1/4"	50	1.969
A3S03A-3	3/8"	1/4"	75	2.953
A3S03A-4	3/8"	1/4"	100	3.937
A3S03A-6	3/8"	1/4"	150	5.906
A3S03A-8	3/8"	1/4"	200	7.874

Part No.	Square Drive	H	Length	
			mm	in
A703A-1.75	3/8"	7/16"	45	1.772
A703A-2	3/8"	7/16"	50	1.969
A703A-3	3/8"	7/16"	75	2.953
A703A-4	3/8"	7/16"	100	3.937
A703A-5	3/8"	7/16"	128	5.039
A703A-6	3/8"	7/16"	150	5.906
A703A-8	3/8"	7/16"	200	7.874
A703A-10	3/8"	7/16"	250	9.843
A703A-12	3/8"	7/16"	300	11.811
A703A-15	3/8"	7/16"	375	14.764
<hr/>				
A704A-2.125	1/2"	7/16"	55	2.165
A704A-3	1/2"	7/16"	75	2.953
A704A-4	1/2"	7/16"	100	3.937
A704A-5	1/2"	7/16"	128	5.039
A704A-6	1/2"	7/16"	150	5.906
A704A-8	1/2"	7/16"	200	7.874
A704A-10	1/2"	7/16"	250	9.843
A704A-12	1/2"	7/16"	300	11.811
A704A-15	1/2"	7/16"	375	14.764

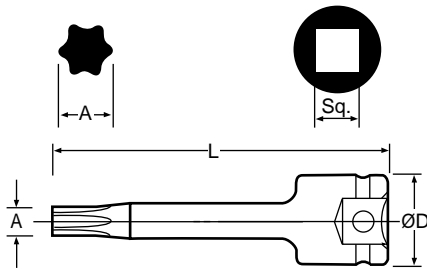
Please specify pin type or through hole.

# TORX<sup>®</sup> SOCKETS

Sockets Torx<sup>®</sup>



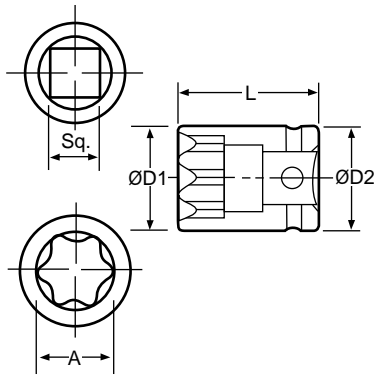
## T Type Macho



Part No.	Square Drive	Torx Size	A		D		Length	
			mm	mm	in	mm	in	
A325TT	3/8"	25TT	4.4	20	0.787	70	2.756	
A327TT	3/8"	27TT	5.0	20	0.787	70	2.756	
A330TT	3/8"	30TT	5.5	20	0.787	70	2.756	
A340TT	3/8"	40TT	6.6	20	0.787	70	2.756	
A345TT	3/8"	45TT	7.8	20	0.787	70	2.756	
A350TT	3/8"	50TT	8.8	20	0.787	70	2.756	

Part No.	Square Drive	Torx Size	A		D		Length	
			mm	mm	in	mm	in	
A430TT	1/2"	30TT	5.5	25	0.984	100	3.937	
A440TT	1/2"	40TT	6.6	25	0.984	100	3.937	
A445TT	1/2"	45TT	7.8	25	0.984	100	3.937	
A450TT	1/2"	50TT	8.8	25	0.984	100	3.937	
A455TT	1/2"	55TT	11.2	25	0.984	100	3.937	
A460TT	1/2"	60TT	13.2	25	0.984	100	3.937	

## E Type Hembra



Part No.	Square Drive	Torx Size	A	D1		D2		Length	
				mm	in	mm	in	mm	in
A204TE	1/4"	4TE	3.8	7.5	0.295	13	0.512	25	0.984
A205TE	1/4"	5TE	4.7	8	0.315	13	0.512	25	0.984
A206TE	1/4"	6TE	5.7	9	0.354	13	0.512	25	0.984
A207TE	1/4"	7TE	6.2	7.93	0.312	12.7	0.500	25	0.984
A208TE	1/4"	8TE	7.5	11	0.433	13	0.512	25	0.984
A210TE	1/4"	10TE	9.4	12.7	0.500	12.7	0.500	25	0.984
A212TE	1/4"	12TE	11.1	14.28	0.562	14.28	0.562	25	0.984

Part No.	Square Drive	Torx Size	A	D1		D2		Length	
				mm	in	mm	in	mm	in
A305TE	3/8"	5TE	4.7	10.2	0.402	20	0.787	32	1.260
A306TE	3/8"	6TE	5.7	10.7	0.421	20	0.787	32	1.260
A307TE	3/8"	7TE	6.2	11.2	0.441	20	0.787	32	1.260
A308TE	3/8"	8TE	7.5	11.7	0.461	20	0.787	32	1.260
A310TE	3/8"	10TE	9.4	12.2	0.480	20	0.787	32	1.260
A312TE	3/8"	12TE	11.1	14.2	0.559	20	0.787	32	1.260
A314TE	3/8"	14TE	12.8	17.2	0.677	20	0.787	32	1.260
A316TE	3/8"	16TE	14.7	18.2	0.717	20	0.787	32	1.260

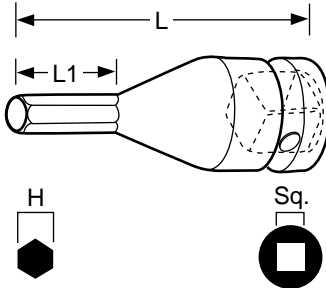
Part No.	Square Drive	Torx Size	A	D1		D2		Length	
				mm	in	mm	in	mm	in
A410TE	1/2"	10TE	9.4	14.2	0.559	25	0.984	40	1.574
A412TE	1/2"	12TE	11.1	15	0.590	25	0.984	40	1.574
A414TE	1/2"	14TE	12.8	18.2	0.716	25	0.984	40	1.574
A416TE	1/2"	16TE	14.7	19.2	0.755	25	0.984	40	1.574
A418TE	1/2"	18TE	16.6	22.2	0.874	25	0.984	40	1.574
A420TE	1/2"	20TE	18.4	24.2	0.952	25	0.984	40	1.574

Extensions and sockets are supplied standard with steel pin and rubber O-Ring. Steel O-Rings are available upon request at no extra charge.

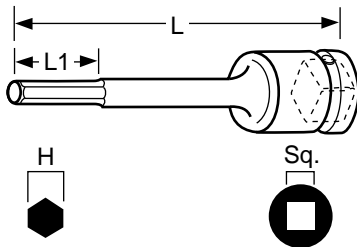
Torx<sup>®</sup> is a registered trademark of the Camcar Division of Textron.

# ALLEN SOCKETS

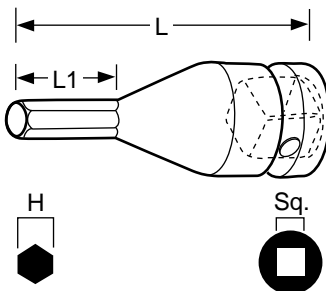
## Socket Cabeza Allen



Part No.	Square Drive	Hex	L1		Length	
			mm	in	mm	in
A31/4C	3/8"	1/4"	10	0.394	42	1.654
A35/16C	3/8"	5/16"	10	0.394	42	1.654
A33/8C	3/8"	3/8"	12	0.472	42	1.654
A37/16C	3/8"	7/16"	12	0.472	42	1.654
A31/2C	3/8"	1/2"	12	0.472	42	1.654
A304C	3/8"	4 mm	10	0.394	42	1.654
A305C	3/8"	5 mm	10	0.394	42	1.654
A306C	3/8"	6 mm	10	0.394	42	1.654
A308C	3/8"	8 mm	10	0.394	42	1.654
A310C	3/8"	10 mm	10	0.394	42	1.654
A312C	3/8"	12 mm	10	0.394	42	1.654
A314C	3/8"	14 mm	10	0.394	42	1.654



Part No.	Square Drive	Hex	L1		Length	
			mm	in	mm	in
A305C-2.3	3/8"	5 mm	20	0.787	60	2.362
A305C-3.5	3/8"	5 mm	20	0.787	90	3.546
A306C-2.3	3/8"	6 mm	20	0.787	60	2.362
A306C-3.5	3/8"	6 mm	20	0.787	90	3.546
A308C-2.3	3/8"	8 mm	20	0.787	60	2.362
A308C-3.5	3/8"	8 mm	20	0.787	90	3.546
A310C-2.3	3/8"	10 mm	20	0.787	60	2.362
A310C-3.5	3/8"	10 mm	20	0.787	90	3.546



Part No.	Square Drive	Hex	L1		Length	
			mm	in	mm	in
A41/4C	1/2"	1/4"	25	0.984	50	1.969
A45/16C	1/2"	5/16"	25	0.984	50	1.969
A43/8C	1/2"	3/8"	25	0.984	50	1.969
A47/16C	1/2"	7/16"	25	0.984	50	1.969
A41/2C	1/2"	1/2"	25	0.984	50	1.969
A404C	1/2"	4 mm	25	0.984	50	1.969
A405C	1/2"	5 mm	25	0.984	50	1.969
A406C	1/2"	6 mm	25	0.984	50	1.969
A408C	1/2"	8 mm	25	0.984	50	1.969
A410C	1/2"	10 mm	25	0.984	50	1.969
A412C	1/2"	12 mm	25	0.984	50	1.969
A414C	1/2"	14 mm	25	0.984	50	1.969
A417C	1/2"	17 mm	25	0.984	50	1.969

Extensions and sockets are supplied standard with steel pin and rubber O-Ring. Steel O-Rings are available upon request at no extra charge.

For additional Allen Sockets see pg. 46



A I M C O

REFERENCE  
MATERIAL

# CONVERSION CHART

## Tabla de Conversión









Torque Conversion Factors					Factores de Conversión de Torque					
Units to be Converted		IMPERIAL			METRIC			INTERNATIONAL SYSTEM - S.I.		
		ozf-in	lbf-in	lbf-ft	gf-cm	kgf-cm	Kgf-m	mN-m	cN-m	N.m
1 ozf-in	=	1	0.0625	0.005	72	0.072	0.0007	7.062	0.706	0.007
1 lbf-in	=	16	1	0.083	1152.1	1.152	0.0115	113	11.3	0.113
1 lbf-ft	=	192	12	1	13 826	13.83	0.138	1356	135.6	1.356
1 gf-cm	=	0.014	0.0009	0.00 07	1	0.001	0.000 01	0.098	0.01	0.0001
1 kgf-cm	=	13.89	0.868	0.072	1000	1	0.01	98.07	9.807	0.098
1 kgf-m	=	1389	86.8	7.233	100 000	100	1	9807	980.7	9.807
1 mN-m	=	0.142	0.009	0.0007	10.2	0.01	0.0001	1	0.1	0.001
1 cN-m	=	1.42	0.088	0.007	102	0.102	1.0	10	1.0	0.01
1 N-m	=	141.6	8.851	0.738	10 197	10.20	0.102	1000	100	1

Hex Socket Conversion		Conversion de Sockets Hexagonales		
6 mm = 0.236"	10 mm = 0.394"	14 mm = 0.551"	18 mm = 0.709"	22 mm = 0.866"
7 mm = 0.276"	11 mm = 0.433"	15 mm = 0.591"	19 mm = 0.748"	23 mm = 0.906"
8 mm = 0.315"	12 mm = 0.472"	16 mm = 0.630"	20 mm = 0.787"	24 mm = 0.945"
9 mm = 0.354"	13 mm = 0.512"	17 mm = 0.669"	21 mm = 0.827"	25 mm = 0.984"

# CONVERSION CHART

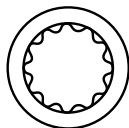
## Tabla de Conversión

### Thread Size to Hex Size

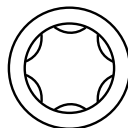
Thread - A/F size				Rosca - Talla A/F			
							
	mm		mm	UNC	Inches	SAE	Inches
M 2	4	M 27	41	1/4	7/16	1/4	7/16
M 2.3	4.5	M 30	46	5/16	1/2	5/16	1/2
M 2.6	5	M 33	50	3/8	9/16	3/8	9/16
M 3	5.5	M 36	55	7/16	11/16	7/16	5/8
M 3.5	6	M 39	60	1/2	3/4	1/2	3/4
M 4	7	M 42	65	9/16	7/8	9/16	7/8
M 5	8	M 45	70	5/8	15/16	5/8	15/16
(M 5-6)	9	M 48	75	3/4	1 1/8	3/4	1 1/16
M 6	10	M 52	80	7/8	1 5/16	7/8	1 1/4
M 7	11	M 56	85	1	1 1/2	1 1/8	1 7/16
M 8	13	M 60	90	1 1/8	1 11/16	1 1/4	1 13/16
(M 8)	14	M 64	95	1 1/4	1 7/8	1 3/8	2
M 10	16	M 68	100	1 3/8	2 1/16	1 1/2	2 3/16
(M 10)	17	M 72	105	1 1/2	2 1/4		
M 12	18	M 76	110	1 3/4	2 5/8		
(M 12)	19	M 80	115	2	3		
M 14	21	M 85	120	2 1/4	3 3/8		
(M 14)	22	M 90	130	2 1/2	3 3/4		
M 16	24	M 95	135				
M 18	27	M 100	145				
M 20	30	M 105	150				
(M 22)	32	M 110	155				
M 22	34	M 115	165				
M 24	36	M 120	170				

### Socket Styles

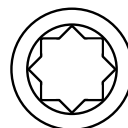
### Formas de Encajes



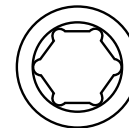
DOUBLE HEX  
D (12 PT)  
(DH)



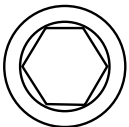
SURFACE DRIVE  
(SF)



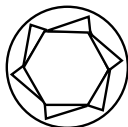
DOUBLE SQUARE  
(DSQ)



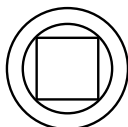
FLANK DRIVE  
(FD)



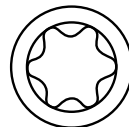
SINGLE HEX  
H (6 PT)  
(SH)



FAST LEAD  
(FL)



SINGLE SQUARE  
(SQ)



HEX LOBULE  
(TORX)

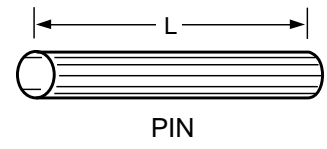
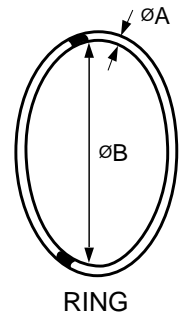
# REFERENCE MATERIAL

## Material de Referencia

### Retaining Pins and Rings

### Pasadores y Anillos

Square Drive	Pin		Steel Ring		"O" Ring	
	Part No.	Size ∅ x L	Part No.	Size ∅A x ∅B	Part No.	Size ∅A x ∅B
3/8"	S-1	3 x 17 mm	F-1	1 x 18 mm	P-16	2.4 x 15.8 mm
1/2"	S-2	3.5 x 22 mm	F-2	1.2 x 23 mm	P22A	3.5 x 21.7 mm
1/2"	S-3	3.5 x 25 mm	F-3	1.2 x 25 mm	P-25	3.5 x 24.7 mm
5/8"	S-4	4.5 x 31 mm	—	—	P-29	3.5 x 28.7 mm
3/4"	S-5	5 x 34 mm	F-4	1.5 x 34 mm	P-34	3.5 x 33.7 mm
3/4"	S-6	5 x 38 mm	F-5	1/5 x 38 mm	P-38	3.5 x 37.7 mm
3/4"	S-7	5 x 45 mm	—	—	P-45	3.5 x 44.7 mm
1"	S-8	6 x 45 mm	F-6	1.5 x 46 mm	P-45	3.5 x 44.7 mm
1"	S-9	6 x 50 mm	F-7	1.5 x 50 mm	P-50	3.5 x 49.7 mm
1"	S-10	6 x 55 mm	—	—	P-55	5.7 x 54.6 mm
1 1/4"	S-11	6 x 55 mm	—	—	P-55	5.7 x 54.6 mm
1 1/4"	S-12	6 x 63 mm	F-8	2 x 61 mm	P-60	5.7 x 59.6 mm
1 1/2"	S-13	8 x 72 mm	—	—	P-70	5.7 x 69.6 mm
1 1/2"	S-14	8 x 83 mm	F-9	2 x 85 mm	P-80	5.7 x 79.6 mm
1 3/4"	S-15	10 x 106 mm	—	—	P-100	5.7 x 99.6 mm



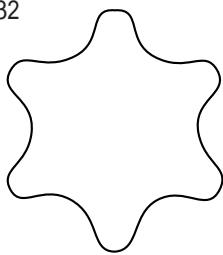
Extensions and sockets are supplied standard with steel pin and rubber O-Ring. Steel O-Rings are available upon request at no extra charge.

Pin assemblies are also available for 3/8" and 1/2" square drive extensions and are sold separately. To order use part number 891-300-1 for 3/8" and 891-304-1 for 1/2". AIMCO will install upon request.

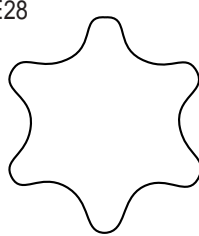
### Torx Styles - T & E Type

### Estilos Torx - Tipos T & E

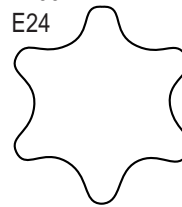
E32



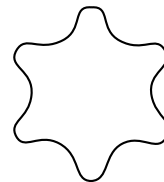
E28



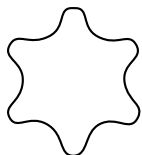
T100  
E24



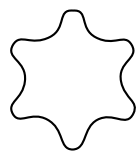
T90



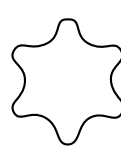
T70  
E18



T80  
E20



E16



T60  
E14



T55  
E12



T10  
T15



T20  
E4



T25  
E5



T27  
T30  
E6



T40  
E8



T45



T50  
E10



T= Internal and requires a bit-style drive

E= External and requires a socket-style drive