

If you want **control** ... *you need the right connections*

“ErgoTorq” TM

Patented products, specifically designed to provide solutions to pulse and nutrunner assembly tooling Safety, Ergonomic, Quality, Reliability and Cost Down problems.

Pulse tool Guided
Sockets & Socket
“Adaptors”



“One-piece”
Pulse tool guided extensions
& extended sockets



Pulse tool guided
quick change
“Adaptors”



“ErgoTorq” TM Assembly Tooling Accessories



“Dual-drive” Socket
Allows you to rundown two different
size fasteners with the same socket.

NEW !

Safety & Anti-mutilation Covers

“Non-rotating” Cover



“Slip Type” Cover



“Non-rotating/Retractable”
Bit Holder Cover



Guided Extension
“Collar”



Standard
“PinchPoint Protector”

**Durability
tested to
100,000
cycles !**



“Ultralite” extensions
weigh up to 50% less

Superior selection, performance and delivery, at reduced cost !

“2008” Product Catalog

“ErgoTorq”

“Guided” Pulse Tool Extensions

(U.S. Patent #6,321,855)

"Standard Weight" Pulse Tool Extensions

Uryu, Aimco, Yakota, Ingersoll Rand, Sioux and Fuji(*) Pulse Tool Part #'s

(*)Fuji models with exposed anvil behind square drive of > .385"

3/8" Square Drive

Length	Part#
4"	AR1EX4-4(3)
6"	AR1EX4-6(3)
8"	AR1EX4-8(3)
10"	AR1EX4-10(3)
12"	AR1EX4-12(3)

1/2" Square Drive

Length	Part#
4"	AR1EX3-4(1)
6"	AR1EX3-6(1)
8"	AR1EX3-8(1)
10"	AR1EX3-10(1)
12"	AR1EX3-12(1)

**Superior selection,
performance and
delivery then either
Aimco ergo-drive or
Atlas Copco extensions
at reduced cost !**

Atlas Copco Pulse Tool Part #'s

3/8" Square Drive

Models - 8C, 8X, 7XS, 8XS, 5,6,7 & 8 PT/PTS

Length	Part#
4"	AR1EX3-4(2)
6"	AR1EX3-6(2)
8"	AR1EX3-8(2)
10"	AR1EX3-10(2)
12"	AR1EX3-12(2)

1/2" Square Drive

Models - 12X, 14X, 14XS, 10PT/PTS, 12PT/PTS

Length	Part#
4"	AR1EX4-4(5)
6"	AR1EX4-6(5)
8"	AR1EX4-8(5)
10"	AR1EX4-10(5)
12"	AR1EX4-12(5)

1/2" Square Drive

Models - 10C, 10XS, 12XS

Length	Part#
4"	AR1EX4-45a)
6"	AR1EX4-6(5a)
8"	AR1EX4-8(5a)
10"	AR1EX4-10(5a)
12"	AR1EX4-12(5a)

"Ultralite" Pulse Tool Extensions ... *Up to **50% lighter** then standard extensions !!!*

Uryu, Aimco, Yakota, Ingersoll Rand, Sioux and Fuji(*) Pulse Tool Part #'s

(*)Fuji models with exposed anvil behind square drive of > .385"

3/8" Square Drive

Length	Part#
4"	AR1UEX3-4(1)
6"	AR1UEX3-6(1)
8"	AR1UEX3-8(1)
10"	AR1UEX3-10(1)
12"	AR1UEX3-12(1)

1/2" Square Drive

Length	Part#
4"	AR1UEX4-4(3)
6"	AR1UEX4-6(3)
8"	AR1UEX4-8(3)
10"	AR1UEX4-10(3)
12"	AR1UEX4-12(3)

Durability tested to 100,000 cycles !



Atlas Copco Pulse Tool Part #'s

3/8" Square Drive

Models - 8C, 8X, 7XS, 8XS, 5,6,7 & 8 PT/PTS

Length	Part#
4"	AR1UEX3-4(2)
6"	AR1UEX3-6(2)
8"	AR1UEX3-8(2)
10"	AR1UEX3-10(2)
12"	AR1UEX3-12(2)

1/2" Square Drive

Models - 12X, 14X, 14XS, 10PT/PTS, 12PT/PTS

Length	Part#
4"	AR1UEX4-4(5)
6"	AR1UEX4-6(5)
8"	AR1UEX4-8(5)
10"	AR1UEX4-10(5)
12"	AR1UEX4-12(5)

1/2" Square Drive

Models - 10C, 10XS, 12XS

Length	Part#
4"	AR1UEX4-4(5a)
6"	AR1UEX4-6(5a)
8"	AR1UEX4-8(5a)
10"	AR1UEX4-10(5a)
12"	AR1UEX4-12(5a)

*** "Ultralite" extensions are available in virtually any length and drive end configuration.**

(Simply ask your **ErgoTorq** Authorized Distributor for a quote.)

"ErgoTorq"

"Guided" Pulse Tool Sockets & Accessories

(U.S. Patent #6,321,855)

A low cost, high quality alternative to Aimco/Uryu and Atlas Copco pulse tool accessories !!!

Pulse Tool 6 Point Standard Length Sockets

Uryu, Aimco, Yakota, Ingersoll Rand, Sioux and Fuji(*) Pulse Tool Part #'s

(*)Fuji models with exposed anvil behind square drive of > .385"

3/8" Square Drive Standard

Fastener Size	Part#
3/8"	AR3112(1)
7/16"	AR3114(1)
1/2"	AR3116(1)
9/16"	AR3118(1)
5/8"	AR3120(1)
11/16"	AR3122(1)
3/4"	AR3124(1)
13/16"	AR3126(1)

3/8" Square Drive Metric

Fastener Size	Part#
10mm	AR10mm13(1)
11mm	AR11mm13(1)
12mm	AR12mm13(1)
13mm	AR13mm13(1)
14mm	AR14mm13(1)
15mm	AR15mm13(1)
16mm	AR16mm13(1)
17mm	AR17mm13(1)

1/2" Square Drive Standard

Fastener Size	Part#
1/2"	AR5116(4)
9/16"	AR5118(4)
5/8"	AR5120(4)
11/16"	AR5122(4)
3/4"	AR5124(4)
13/16"	AR5126(4)
7/8"	AR5128(4)
15/16"	AR5130(4)
1"	AR5132(4)

1/2" Square Drive Metric

Fastener Size	Part#
12mm	AR12mm15(4)
14mm	AR14mm15(4)
16mm	AR16mm15(4)
18mm	AR18mm15(4)
19mm	AR19mm15(4)
20mm	AR20mm15(4)
22mm	AR22mm15(4)
24mm	AR24mm15(4)
25mm	AR25mm15(4)

Atlas Copco Pulse Tool Part #'s

3/8" Square Drive Standard

Models - 8C, 8X, 7XS, 8XS, 5PT/PTS
6PT/PTS, 7PT/PTS, 8PT/PTS

Fastener Size	Part#
3/8"	AR3112(2)
7/16"	AR3114(2)
1/2"	AR3116(2)
9/16"	AR3118(2)
5/8"	AR3120(2)
11/16"	AR3122(2)
3/4"	AR3124(2)
13/16"	AR3126(2)

3/8" Square Drive Metric

Models - 8C, 8X, 7XS, 8XS, 5PT/PTS
6PT/PTS, 7PT/PTS, 8PT/PTS

Fastener Size	Part#
10mm	AR10mm13(2)
11mm	AR11mm13(2)
12mm	AR12mm13(2)
13mm	AR13mm13(2)
14mm	AR14mm13(2)
15mm	AR15mm13(2)
16mm	AR16mm13(2)
17mm	AR17mm13(2)

Virtually any
accessory is
available for all
manufacturers
pulse tools !

Any socket can be
fitted with our
"Slip-Type"
Anti-mutilation
Safety Covers !

1/2" Square Drive Standard

Models - 12X, 14X, 14XS, 10PT/PTS,
12PT/PTS

Fastener Size	Part#
1/2"	AR5116(5)
9/16"	AR5118(5)
5/8"	AR5120(5)
11/16"	AR5122(5)
3/4"	AR5124(5)
13/16"	AR5126(5)
7/8"	AR5128(5)
15/16"	AR5130(5)
1"	AR5132(5)

1/2" Square Drive Metric

Models - 12X, 14X, 14XS, 10PT/PTS,
12PT/PTS

Fastener Size	Part#
12mm	AR12mm15(5)
14mm	AR14mm15(5)
16mm	AR16mm15(5)
18mm	AR18mm15(5)
19mm	AR19mm15(5)
20mm	AR20mm15(5)
22mm	AR22mm15(5)
24mm	AR24mm15(5)
25mm	AR25mm15(5)

1/2" Square Drive Standard

Models - 10C, 10XS, 12XS

Fastener Size	Part#
1/2"	AR5116(5a)
9/16"	AR5118(5a)
5/8"	AR5120(5a)
11/16"	AR5122(5a)
3/4"	AR5124(5a)
13/16"	AR5126(5a)
7/8"	AR5128(5a)
15/16"	AR5130(5a)
1"	AR5132(5a)

1/2" Square Drive Metric

Models - 10C, 10XS, 12XS

Fastener Size	Part#
12mm	AR12mm15(5a)
14mm	AR14mm15(5a)
16mm	AR16mm15(5a)
18mm	AR18mm15(5a)
19mm	AR19mm15(5a)
20mm	AR20mm15(5a)
22mm	AR22mm15(5a)
24mm	AR24mm15(5a)
25mm	AR25mm15(5a)

Pulse Tool Quick Change Adapters

Uryu / Aimco Pulse Tool Part #'s

(*)Fuji models with exposed anvil behind square drive of > .385"

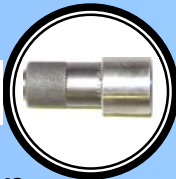
3/8" Square Drive

Hex Drive	Part#
1/4"	ARQR-308(1)
7/16"	ARQR-314(1)

1/2" Square Drive

Hex Drive	Part#
1/4"	ARQR-508(4)
7/16"	ARQR-514(4)
5/8"	ARQR-520(4)

Atlas Copco Pulse Tool Part #'s



3/8" Square Drive

Hex Drive	Part#
1/4"	ARQR-308(2)
7/16"	ARQR-314(2)

1/2" Square Drive

Hex Drive	Part#
1/4"	ARQR-508(5) or (5a)
7/16"	ARQR-514(5) or (5a)
5/8"	ARQR-520(5) or (5a)

*** Virtually any standard 3/8", 1/2" & 3/4" drive attachment is available in pulse tool format.**

(Simply ask your **ErgoTorq** Authorized Distributor for a quote.)

ErgoTorq "Socket Adaptors"

for Uryu Pulse Tools > Apex Accessories

(U.S. Patent #6,321,855)

"Adaptors" for Uryu Pulse Tools > Apex Extensions

Tool Type	Apex Extension Series	"ErgoTorq" Part #'s
3/8" Square Drive	> EX-376 (3/8") Series Extensions	= AR02A(1)
1/2" Square Drive	> EX-508 (1/2") Series Extensions	= AR03A(4)

"Adaptors" for Uryu Pulse Tools > Apex Sockets

Tool Type	* Socket - Drive End O.D.	"ErgoTorq" Part #'s
3/8" Square Drive	3/4"(.750") (QR308)	AR06A(1)
	13/16"(.813")	AR07A(1)
	7/8"(.875")	AR08A(1)
	15/16"(.938")	AR09A(1)
	1" (1.000")	AR10A(1)
	1-1/16" (1.063")	AR10A2(1)
	1.113" (QR314)	AR10A1(1)
	1-1/8" (1.125")	AR11A(1)
	1-1/4" (1.250")	AR12A(1)
1/2" Square Drive	0.925" (QR508)	AR12A1(4)
	15/16"(.938")	AR13A(4)
	1" (1.000")	AR14A(4)
	1-1/16" (1.063")	AR14A2(4)
	1.113" (QR514)	AR14A1(4)
	1-1/8" (1.125")	AR15A(4)
	1-1/4" (1.250")	AR16A(4)
	1-5/16" (1.312")	AR16A1(4)
	1-3/8" (1.375")	AR17A(4)
	1-1/2" (1.500")	AR18A(4)
	1-5/8" (1.625")	AR19A(4)
	1-3/4" (1.750")	AR20A(4)
	1-7/8" (1.875")	AR21A(4)
	1-15/16" (1.938")	AR22A(4)
	2" (2.000")	AR23A(4)
	2-1/8" (2.125")	AR24A(4)
	2-1/4" (2.250")	AR25A(4)
	2-3/8" (2.375")	AR26A(4)
	2-1/2" (2.500")	AR27A(4)

"Adaptors" easily convert any socket into an ergo guided pulse tool socket.

"Adaptors" for Apex Extensions > Apex Sockets

Apex Extension Series	* Socket - Drive End O.D.	"ErgoTorq" Part #'s
EX-250 (1/4" square drive extension)	1/2"(.500")	AR33A
	9/16"(.563")	AR34A
	5/8"(.625")	AR35A
	11/16"(.6875")	AR35A1
	3/4"(.750")	AR36A
	13/16"(.813")	AR37A
	7/8"(.875")	AR38A
EX-376 (3/8" square drive extension)	5/8"(.625)	AR38A1
	3/4"(.750")	AR39A
	13/16"(.813")	AR40A
	7/8"(.875")	AR41A
	15/16"(.938")	AR42A
	1" (1.000")	AR43A
	1-1/16" (1.063")	AR43A1
	1-1/8" (1.125")	AR44A
EX-508 (1/2" square drive extension)	1-1/4" (1.250")	AR45A
	15/16"(.938")	AR46A
	1" (1.000")	AR47A
	1-1/16" (1.063")	AR47A1
	1-1/8" (1.125")	AR48A
	1-1/4" (1.250")	AR49A
	1-5/16" (1.312")	AR49A1
	1-3/8" (1.375")	AR50A
	1-1/2" (1.500")	AR51A
	1-5/8" (1.625")	AR52A
	1-3/4" (1.750")	AR53A
	1-7/8" (1.875")	AR54A
	1-15/16" (1.938")	AR55A
	2" (2.000")	AR56A
	2-1/8" (2.125")	AR57A
	2-1/4" (2.250")	AR58A
	2-3/8" (2.375")	AR59A
	2-1/2" (2.500")	AR60A



***PLEASE NOTE : To determine socket drive end O.D., check "C" dimensions in Apex catalogue.**

"ErgoTorq"

Nutrunner Guided Extensions, & "PinchPoint Protectors"

(U.S. Patent #6,123,157)

Atlas Copco Nutrunner Guide Extension "Collar" Part #'s

Anglehead Tools

Square Drive	A.C. Front Nut # or Thread O.D.'s	"Collar" Part #'s
3/8"	4210 1877 00	AR200-A1
3/8"	4210 3349 00	AR200-A2
3/8"	4210 3349 01	AR200-A2(01)
3/8"	4210 3349 02	AR200-A2(02)
1/2"	4210 3349 03	AR200-A2(03)
3/8"	4210 3349 05	AR200-A2(05)
3/8"	4210 2492 00	AR200-A5
1/2"	4210 1140 00	AR200-A6
1/2"	4210 1141 00	AR200-A7
3/8"	4220 0791 00	AR200-A9
3/8"	4220 1994 00	AR200-A10
1/2"	M34 X 0.75 LH thread	AR200-A10ET
1/2"	4220 1992 00	AR200-A11
1/2"	M39 X 1.0 LH thread	AR200-A11ET
3/8"	4210 3860 00	AR200-A12
1/4"	4210 4036 00	AR200-A13
1/4"	4110 1407 00	AR200-A14
3/8"	4220 1742 06	AR200-A15
3/8"	4210 4446 00	AR200-A16
3/8"	M27 X 0.75 LH thread	AR200-A17ET
3/8"	4810 3260 00	AR200-A18
1/2"	M43 X 1 LH thread	AR200-A19ET
1/2"	M48 X 1 LH thread	AR200-A20ET

Anglehead Tools

Square Drive	A.C. Front Nut Part #	"PinchPoint Protector" Part #'s
3/8"	4210 1877 00	PP200-A1
3/8"	4220 1994 00	PP200-A10 *
3/8"	4210 3349 00	PP200-A2
3/8"	4210 3349 01	PP200-A2(01)
3/8"	4210 3349 02	PP200-A2(02)
3/8"	4210 2492 00	PP200-A5
1/2"	4220 1992 00	PP200-A11 *
1/2"	4210 3349 03	PP200-A2(03)
1/2"	4210 1140 00	PP200-A6
1/2"	4210 1141 00	PP200-A7

Inline Tools

Square Drive	A.C. Reaction Bar Nut Part #	"Collar" Part #'s
3/8"	4210 2135 00	AR200-S1
3/8"	4210 2135 00	AR200-S1T (telescoping)
3/8"	4220 1028 00	AR200-S3
3/8"	4210 1799 00	AR200-S4
1/2"	4210 2218 00	AR200-S2
1/2"	4210 2218 00	AR200-S2T (telescoping)
1/2"	4210 2135 00	AR200-S5

Pistol Grip Tools

Square Drive	"Reaction Bar Nut" Part #	"Collar" Part #'s
3/8"	4220-1028-00	AR200-P2
1/2"	4210-2135-00	AR200-P3

Developing Collar & Extension Part #'s

To determine your **"Collar" & Extension** Part #, simply add required extension information in ()'s after the "ErgoTorq" "Collar" Part#, using a 3 for 3/8" drive or 4 for 1/2" drive and the length of extension.

Example : Part#- **AR200-A1(3-8)** for a "Collar" and 3/8" X 8" extension.

For an *Ultralite* extension insert a U in front of the the drive size number. eg.(U3-8)

Atlas Copco Nutrunner "PinchPoint Protector" Part #'s

Inline Tools

Square Drive	A.C. Reaction Bar Nut Part #	"PinchPoint Protector" Part #'s
3/8"	4210 2135 00	PP200-S1
3/8"	4210 2135 00	PP200-S1T (telescoping)
3/8"	4220 1028 00	PP200-S3
3/8"	4210 1799 00	PP200-S4
1/2"	4210 2218 00	PP200-S2
1/2"	4210 2218 00	PP200-S2T (telescoping)
1/2"	4210 2135 00	PP200-S5

Pistol Grip Tools

Square Drive	A.C. Reaction Bar Nut Part #	"PinchPoint Protector" Part #
3/8"	4220-1028-00	PP200-P2
1/2"	4210-2135-00	PP200-P3

"Collar's"
Can be fitted to
virtually any
manufacturers
nutrunner tool !

Guided Extension "Collar"



Eliminate extension
wobble, improve tool
torque quality &
reliability !

Atlas Copco Nutrunner

"PinchPoint Protector" Part #'s

Inline Tools

Square Drive	A.C. Reaction Bar Nut Part #	"PinchPoint Protector" Part #'s
3/8"	4210 2135 00	PP200-S1
3/8"	4210 2135 00	PP200-S1T (telescoping)
3/8"	4220 1028 00	PP200-S3
3/8"	4210 1799 00	PP200-S4
1/2"	4210 2218 00	PP200-S2
1/2"	4210 2218 00	PP200-S2T (telescoping)
1/2"	4210 2135 00	PP200-S5

Pistol Grip Tools

Square Drive	A.C. Reaction Bar Nut Part #	"PinchPoint Protector" Part #
3/8"	4220-1028-00	PP200-P2
1/2"	4210-2135-00	PP200-P3

"Standard" PinchPoint Protector



Eliminates the inherent
pinchpoint that exists
between the tool and its
attachment!

To complete your "PinchPoint Protector" Part #, simply add a / and the three decimal place O.D. of the socket being used, and an (S) for "Standard" Example : PP200-A1/.750(S)

"Ultralite" Standard Square Drive Extensions

Up to 50% lighter than normal extensions !

3/8" Square Drive

Length	Part#
4"	AUEX3-4
6"	ARUEX3-6
8"	ARUEX3-8
10"	ARUEX3-10
12"	ARUEX3-12

1/2" Square Drive

Length	Part#
4"	ARUEX4-4
6"	ARUEX4-6
8"	ARUEX4-8
10"	ARUEX4-10
12"	ARUEX4-12

For extension lengths longer than 12", simply ask for a quote.

Durability tested to
100,000 cycles !



Available in virtually
any length and drive
configuration !

"ErgoTorq"

Tooling Attachment "Non-Rotating" and "Slip Type" "Anti-mutilation / Safety Covers"



"Non-rotating" Covers



Fit any
manufacturers
attachments !



**"Non-rotating/Retractable"
Covered Bit Holders**

NEW!
"Non-Rotating"
anti-mutilation &
safety covers
provide ULTIMATE
operator safety!

"Slip Type" Covers



$\frac{1}{4}$ " > $\frac{1}{2}$ " dr. sockets & extension up to 12"

- eliminate the potential of "**Product Mutilation**" defects caused by rotating tooling attachments coming into contact with finished surfaces
- are available in guided format for pulse tool applications or standard drive format for nutrunner type tools

- eliminate the "**Rotating Shaft Safety Hazard**" which can cause serious injuries to operators who are continually exposed to
- can be designed for use with various fastener sizes as well as our "*Ultralite*" extensions to meet the specific needs of the customer

Ask your local ErgoTorq Distributor for a quote or contact us directly !

"Dual-Drive" Sockets

"NEW"

Dual-drive sockets
will significantly
reduce process
cycle times !



* "**Dual-drive**" sockets
are available in virtually
any drive size and type
configurations.

(Simply ask your **ErgoTorq**
Authorized Distributor for a quote.)

- *Patent Pending* design allows tooling operators to rundown two different size fasteners with the same socket without having to handle the socket
- available in guided format for pulse tool applications or standard drive format for nutrunner tools

- can be designed for use on a wide range of various fastener sizes to meet the needs of the customer
- significant cycle time reductions can be achieved with this "NEW" innovative product !!!

**For ordering or product information, contact your local ErgoTorq distributor, call
Ergonomics Specialties at (519) 425-2604, visit our web-site at www.ergotorq.com or
e-mail us at ergotorq@execulink.com**