

# A3/AC3

Semi-Automatic  
Airtork

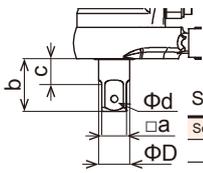
Direction **RoHS**



A50N3 Low provisional type



AC50N3 High provisional type



Sq. drive dimensions [mm]

Sq. style	a	b	c	ΦD	Φd
A	9.53	20.9	11	12	3.1
B	9.53	24.9	11	12	3.1
C	12.7	24.9	11	16	4.1
D	12.7	26.4	12.2	16	4.1



ACLS50N3 High provisional with limit switch type

Assembly **Angle** **Pneumatic** **Graduation** **Push button** **ISO6789:2017**

- High speed and high precision bolt tightening by an integrated air motor and torque wrench
- New square drive head accommodates anti-vibration sockets
- A3: Low provisional torque type, AC3: High provisional torque type

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in/lbf·ft]		Provisional Tightening Torque [N·m]	Free Speed [r.p.m.]	Air Pressure [MPa]	Hose Dia. [mm]	Overall Length [mm]	Sq. Drive [mm]	Sq. Style	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.								
A10N3	3-10	0.1	A100M3	30-100	1	A90I3-3/8	30-90	1								
A25N3	5-25	0.25	A250M3	50-250	2.5	A200I3-3/8	50-200	2.5	1.8	750		φ5	277		A	1.0
A50N3	10-50	0.5	A500M3	100-500	5	A400I3-3/8	100-400	5						9.5		
-	-	-	-	-	-	A800I3-3/8	200-800	10							B	1.4
-	-	-	-	-	-	A75F3-3/8	15-75	1	2.5	800		φ6	338			
A100N3	20-100	1	A1000M3	200-1000	10	-	-	-			0.6			12.7	C	
A180N3	40-180	2	A1800M3	400-1800	20	A130F3-1/2	30-130	2	5				487	D	2.6	
AC25N3	5-25	0.25	AC250M3	50-250	2.5	AC200I3-3/8	50-200	2.5								
AC50N3	10-50	0.5	AC500M3	100-500	5	AC400I3-3/8	100-400	5	11	1000		φ5	293		A	1.5
-	-	-	-	-	-	AC800I3-3/8	200-800	10						9.5		
-	-	-	-	-	-	AC75F3-3/8	15-75	1	17.5	900		φ6	334		B	2.0
AC100N3	20-100	1	AC1000M3	200-1000	10	-	-	-						12.7	C	
AC180N3	40-180	2	AC1800M3	400-1800	20	AC130F3-1/2	30-130	2	19	800			489	D	3.3	

- Note
1. Provisional tightening torque is not warranty the accuracy.
  2. Use pneumatic sockets only.
  3. Through hole type square drive.

# A3LS/AC3LS

- A3/AC3 style with limit switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in/lbf·ft]		Provisional Tightening Torque [N·m]	Free Speed [r.p.m.]	Overall Length [mm]	Square Drive [mm]	Weight [kg]		
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.							
ALS10N3	3-10	0.1	ALS100M3	30-100	1	ALS90I-3/8	30-90	1							
ALS25N3	5-25	0.25	ALS250M3	50-225	2.5	ALS200I3-3/8	50-200	2.5	1.8	750		277		1.2	
ALS50N3	10-50	0.5	ALS500M3	100-500	5	ALS400I3-3/8	100-400	5							
ACLS25N3	5-25	0.25	ACLS250M3	50-250	2.5	ACLS200I3-3/8	50-200	2.5						9.5	1.5
ACLS50N3	10-50	0.5	ACLS500M3	100-500	5	ACLS400I3-3/8	100-400	5	11	1000		293			
-	-	-	-	-	-	ACLS800I3-3/8	200-800	10							
-	-	-	-	-	-	ACLS75F3-3/8	15-75	1	17.5	900		334			2.2
ACLS100N3	20-100	1	ACLS1000M3	200-1000	10	-	-	-						12.7	
ACLS180N3	40-180	2	ACLS1800M3	400-1800	20	ACLS130F3-1/2	30-130	2	19	800		488			3.5

Assembly **Pistol** **Pneumatic** **Graduation** **Trigger**

- High speed and high accuracy tightening
- Easy torque adjustment by scale with key

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in]		Free Speed [r.p.m.]	Air Pressure [MPa]	Hose in Dia. [mm]	Standard Accessory Bit Ⓢ	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.					
AUR5N	2-5	0.1	AU50R	20-50	1	AU50R-A	15-45	1	2100			#3	1.5
AUR12.5N	5-12.5	0.25	AU125R	50-125	2.5	AU125R-A	37.5-112.5	2.5	800	0.5	φ10	-	1.7
AUR25N	10-25	0.5	AU250R	100-250	5	AU250R-A	75-225	5	400			-	

- Note
1. AUR5N has #3 bit, 6.35 HEX, with a double bit. Any other bits are available in the local market.
  2. AUR12.5N and AUR25N have a fixed 9.53mm square drive. Use pneumatic sockets only.

- Standard Accessories
1. Torque adjusting key
  2. Supportive Handle for AUR25N/AURLS25N
  3. W12 Open ended spanner for AUR25N/AURLS25N
  4. Counter clockwise rotation has no torque control and it is loosening purpose only.

# AURLS

- AUR style with limit switch output
- Wired Error-Proofing, Pokayoke, system for assembly processes

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in]		Free Speed [r.p.m.]	Air Pressure [MPa]	Hose in Dia. [mm]	Standard Accessory Bit Ⓢ	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.					
AURLS5N	2-5	0.1	AU50RLS	20-50	1	AU50RLS-A	15-45	1	2100			#3	1.5
AURLS12.5N	5-12.5	0.25	AU125RLS	50-125	2.5	AU125RLS-A	37.5-112.5	2.5	800	0.5	φ10	-	1.7
AURLS25N	10-25	0.5	AU250RLS	100-250	5	AU250RLS-A	75-225	5	400			-	

POKA Patrol, Count Checker  
CNA-4mk3

Refer to page 27.

\* Sold Separately

# AUR

UNITORK/Pistol Type  
Pneumatic Torque  
Screwdriver

Direction



RoHS



AUR12.5N

# HAC

Battery Operated  
Semi-Automatic  
Torque Wrench

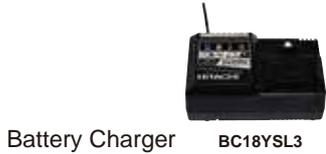
Direction **RoHS**



HAC50N

### Battery Reference

For battery and charger, Hitachi Koki UC18 series are available commercially.



Battery Charger **BC18YSL3**



Battery **BP1830C** **BP1860**

- Note**
1. Guideline tightening No. is 1500 operations for BP1830C and 3000 operation for BP1860.
  2. The guideline is in case of middle joint. It is subject to change due to joint coefficient.

\* Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Assembly **Electric** **Re-Chargeable** **Graduation** **Trigger** **ISO6789:2017**

- More reasonable and accurate than electric hand nutrunner
- Provisional tightening by electric motor and final tightening by hand. Two in one function.
- Pokayoke function is equipped as standard.
- Capable of calibrating by torque wrench tester

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Max. Provisional Tightening torque	Free Speed [r.p.m.]	Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.					
HA25N	5-25	0.25	4	1000	406	9.53	1.5
HAC25N							
HAC50N	10-50	0.5	11	1100	445		1.9
HAC100N	20-100				491		2.4
HAC140N	30-140	1	17.5	1000	557	12.7	2.8
HAC200N	40-200	2	30	580	670		3.6

- Note**
1. Provisional torque is easily changed in 3 levels.
  2. Battery charger, Battery, Balancer, Receiver/R-BT, and Adapter/BA-8 are optional.
  3. Contact to Tohnichi for condition of wireless equipment in each country.

**Standard Accessories** Hex bit W=4/Adjusting tool



HAC with balancer

R-BT

### Balancer

Model	Applicable model
343	HAC25N, 50N
344	HAC100N, 140N, 200N

### Bluetooth® Receiver

Model	Version
R-BT	V3.0

- Note**
1. It is receivable up to 4 pcs of HAC.
  2. Supplied with DC24V input terminal
  3. Communication distance is 10m.

### R-BT AC Adapter

Model
BA-8R

**Note** AC100-240V is applicable.



BA-8R

# HAT

HANDYTORK/  
Battery Operated  
Torque Screwdriver

Direction



HAT25N

### HAT Optional Accessories



Battery **BP-12**

Model	Description
BP-12	DC 12V



Battery Charger **BC-1**

Part #	Model
820	BC-1 (AC100V)

Assembly **Pistol** **Re-Chargeable** **Graduation** **Trigger**

- Easy calibration check with standard torque wrench tester
- Available with reverse and as FH version

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Free Speed [r.p.m.]	Voltage DC [V]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.				
HAT25N	10-25	0.5	700	12	9.5	1.8
HATR25N			140			

- Note**
1. Torque accuracy is based upon static torque measured by torque wrench tester.
  2. HATR/HATRFH has a reverse mode function.
  3. HATFH/HATRFH is error-proofing (Pokayoke) type, and it can be used only with R-CM receiver with M-FH radio module (sold separately) as count verification system.
  4. Use pneumatic sockets only.
  5. HAT battery and battery charger are optional.
  6. It is designed for 100V usage only.

**Standard Accessories**

1. W4 hex key
2. Supportive handle for HAT25N, HATR25N, HATFH25N, HATRFH25N

# HATFH

- Wireless error-proofing, Pokayoke, system for HAT
- Tightening completion signal output to eliminate missed tightening

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Free Speed [r.p.m.]	Voltage DC [V]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.				
HATFH25N	10-25	0.5	700	12	9.5	1.8
HATRFH25N			140			

### Receiver R-CM

Refer to page 28 for wireless Pokayoke system configuration.

\*Sold separately



### POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



\* Sold Separately



# PTA-G-BTA

**NEW**

Assembly Electric Pistol Trigger Bluetooth®

RoHS

**Direction** Fully-Automatic Electric Torque Screwdriver



PTA10N-G-BT with optional battery



PTA-G-BT Setting software

\* Bluetooth is a registered trademark of Bluetooth SIG, Inc.

- Torque & angle monitoring function provides double tightening prevention
- No controller necessary, data transmission by Bluetooth® communication
- Torque checking with a standard torque wrench tester.

Torque Accuracy ±5%, Angle Accuracy ±5%

Model	Torque Range [N·m]		Torque Range [kgf·cm]		Torque Range [lbf·in]		Free Rotation Speed [r.p.m]		Overall Length	Overall Height	Weight
	Min.-Max.	Grad.	Min.-Max.	Grad.	Min.-Max.	Grad.	Standard joint	Hard joint	[mm]	[kg]	
PTA5N-G-BTA	2-5	0.01	20-50	0.1	20-45	0.1	1000	500	240	229	1.0 (1.7)
PTA510N-G-BTA	4-10	0.02	40-100	0.2	40-90	0.2	500	450	259	(297)	1.1 (1.8)

- Note**
1. The value with in ( ) includes a battery pack.
  2. Counterclockwise rotation has no torque control. It is loosening purpose only.
  3. Battery and battery charger are not included. Purchase them at local store.
  4. Contact Tohnichi for status of wireless certification acquisition for each country.

### Bluetooth® Receiver

Model	Version
R-BT	V3.0

- Note**
1. It is available up to 4 pcs of PTA-G-BT at relay output mode, or one by one at data transfer mode
  2. Supplied with DC24V input terminal
  3. Communication distance is 10m.



R-BT

### Battery & Battery Charger

Model	Version
EYFB50B	Panasonic, 18V battery
EY0L82B	Panasonic, 120V, 220-240V

- Note**
1. Battery pack and Battery charger will not provided from Tohnichi, purchase them from local supplier.
  2. Approximate 3500 spindle of tightening by a battery pack



EYFB50B



EY0L82B

# U/UR

UNITORK/Straight & Pistol Type Pneumatic Torque Screwdriver

**Direction**



U120CN

Assembly Straight/Pistol Pneumatic Graduation Trigger/Lever

RoHS

- Accurate and stable tightening for small size screws
- Lever activated

Accuracy ±5%

S.I. Model	Torque Range [cN·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in]		Free Speed [r.p.m]	Air Pressure [MPa]	Hose in Dia. [mm]	Weight [kg]	Standard Accessory Bit Ⓞ
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.					
U30CN	cN-m 10-30	cN-m 0.5	U3	kgf-cm 1-3	kgf-cm 0.05	U3-A	lbf-in 1-3	lbf-in 0.05	1600	0.4		0.32	#0
U60CN	20-60	1	U6	2-6	0.1	U6-A	2-5	0.1	1700	0.5	φ5	0.42	#1
U120CN	40-120	2	U12	4-12	0.2	U12-A	4-10	0.2	1400			0.48	
U250CN	100-250	5	U25	10-25	0.5	U25-A	8-22	0.5	1200	0.6		0.75	#2
U500CN	200-500	10	U50-2	20-50	1.0	U50-2-A	15-45	1.0	950	0.5	φ6	1.35	#3
U1000CN	400-1000		U100	40-100		U100-A	30-90		700			2.0	
ULR120CN	40-120	2	U12LR	4-12	0.2	U12LR-A	4-10	0.2	1300	0.5	φ5	0.56	#2
ULR250CN	100-250	5	U25LR	10-25	0.5	U25LR-A	8-22	0.5	1000	0.6	φ6	0.95	#3
UR500CN	200-500	10	U50R	20-50	1.0	U50R-A	15-45	1.0	950			1.45	

- Note**
1. U1000CN has a fixed square drive (9.53mm). Use socket bits or bit holders for this model.
  2. UR has revers function, the counterclockwise rotation has no torque control, it is loosening purpose only.
  3. U500CN, U1000CN, and UR500CN are pistol type with trigger mechanism.
  4. U30CN is required Tohnichi dedicated bit, others are available a local market one.

- Standard Accessories**
1. One touch coupler for U30CN-U250CN, ULR120CN, and ULR250CN.
  2. Bit holder for U1000CN

### U/UR Optional Accessories

#### One Touch Joint (Female)

Part #	Applicable Model	Size
133	U30CN-U250CN	PF 1/4 Female
134		PF 1/4 Male
135		φ8 Hose Joint

- Note**
- # 133, # 134, # 135 one-touch joints cannot be attached to U / URs purchased before March 2020. Please consult with Tohnichi or the store where you purchased the product.

#### Tool Kit for disassembly/assembly for UNITORK

Part #	Applicable Model
162	U500CN, UR500CN
163	U1000CN

# MG/MF

Multiple Unit/ Pneumatic Straight Style

**Direction**



MF12N

Automatic Straight Pneumatic Graduation Master Valve Operation

RoHS

- Several units used simultaneously with loader
- Fully automatic tightening for complex bolt configurations

Accuracy ±5%

S.I. Model	Torque Range [cN·m/N·m]		Metric Model	Torque Range [kgf·cm]		American Model	Torque Range [lbf·in]		Free Speed [r.p.m]	Air Pressure [MPa]	Hose Dia. [mm]	Overall Length [mm]	Bit Holder [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.						
MG120CN	cN-m 40-120	cN-m 1	M12G	kgf-cm 4-12	kgf-cm 0.1	M12G-A	4-10	0.2	720	0.4	φ5	287-279	6.35 Hex	0.68
MG250CN	100-250	2.5	M25G	10-25	0.25	M25G-A	8-22	0.5	350					
MF6N	N-m 3-6	0.1	M60F	30-60	1	M60F-A	25-50	1	1000	0.6	φ6	411-403	2.0	
MF12N	6-12	0.2	M120F	60-120	2	M120F-A	50-100	2	500					

- Note**
1. MG/MF is 6.35 HEX bit holder type.
  2. For designing a multi-spindle system, check the PCD, minimum distance between the spindles.
  3. For first-time user, consult Tohnichi for assistance.

- Standard Accessories**
- Torque adjusting key