

A3/AC3Semi-Automatic
Airtork

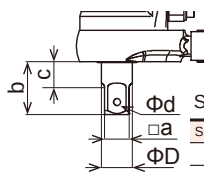
Direction RoHS



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		C	
A100N3	20-100	1	A1000M3	200-1000	10	-	-	-			0.6			12.7	D	2.6
A180N3	40-180	2	A1800M3	400-1800	20	A130F3-1/2	30-130	2	5				487			
AC25N3	5-25	0.25	AC250M3	50-250	2.5	AC200I3-3/8	50-200	2.5							A	1.5
AC50N3	10-50	0.5	AC500M3	100-500	5	AC400I3-3/8	100-400	5	11	1000		φ5	293			
-	-	-	-	-	-	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

AURUNITORK/Pistol Type
Pneumatic Torque
Screwdriver

Direction



RoHS



AUR12.5N

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

HACBattery 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							1.9
HAC50N	10~50	0.5	11	1100	445	12.7	2.4
HAC100N	20~100	1	17.5	1000	491		2.8
HAC140N	30~140				557		3.6
HAC200N	40~200	2	30	580	670		

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

HATHANDYTORK/
Battery Operated
Torque Screwdriver

Direction



HAT

HATR



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

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.

Assembly

Electric

Pistol

Trigger

Bluetooth®

RoHS

- 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]	[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 be provided from Tohnichi, purchase them from local supplier.
2. Approximate 3500 spindle of tightening by a battery pack



EYFB50B

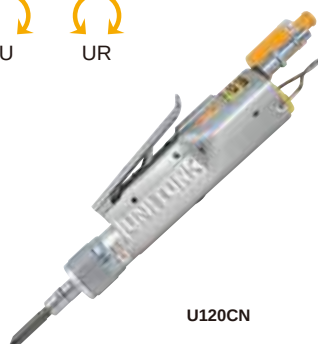


EY0L82B

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	Air Pressure	Hose in Dia.	Weight	Standard Accessory
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.	[r.p.m]	[MPa]	[mm]	[kg]	Bit Ⓢ
U30CN	cN·m 10-30	0.5	U3	kgf·cm 1-3	0.05	U3-A	lbf·in 1-3	0.05	1600	0.4		0.32	#0
U60CN	20-60	1	U6	2-6	0.1	U6-A	2-5	0.1	1700		φ5	0.42	#1
U120CN	40-120	2	U12	4-12	0.2	U12-A	4-10	0.2	1400	0.5		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		U50-2	20-50		U50-2-A	15-45		950	0.5	φ6	1.35	
U1000CN	400-1000	10	U100	40-100	1.0	U100-A	30-90	1.0	700	0.6		2.0	#3
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	
UR500CN	200-500	10	U50R	20-50	1.0	U50R-A	15-45	1.0	950			1.45	#3

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

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.

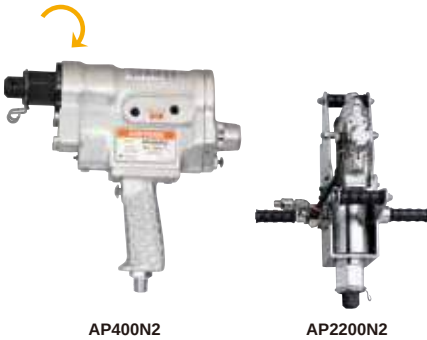
Standard Accessories

Torque adjusting key

AP2

Fully-Automatic Airtork

Direction



Assembly

Pistol

Pneumatic

Graduation

Trigger

RoHS

- For large bolt tightening
- Automatic shut off at final torque set

Accuracy ±5%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·m]		American Model	Torque Range [lbf·ft]		Free Speed [r.p.m]	Air Pressure [MPa]	Hose Dia. [mm]	Overall Length [mm]	Sq. Drive [mm]	Reaction Arm (Sold Separately)	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.							
AP220N2	100-220	10	AP22M2	10-22	1	AP160F2	80-160	5	277	0.5	φ12	275	19.0	SA400N/UA450N	4.7
AP400N2	200-400		AP40M2	20-40		AP300F2	150-300	10	175			364	25.4	SA700N/UA900N	6.7
AP700N2	300-700		AP70M2	30-70		AP500F2	220-500	10	79			375	31.75	SA1200N/UA1800N	8.1
AP1200N2	600-1200	50	AP120M2	60-120	5	AP900F2	450-900	25	46	0.5	φ12	508	31.75	UA3000N	15
AP2200N2	1000-2200	100	AP220M2	110-220	10	AP1600F2	800-1600	50	19.2			541	38.1	UA4500N	22
AP4000N2	2000-4000		AP400M2	200-400		AP3000F2	1500-3000	100	12						

Note

1. Reaction arm, such as UA or SA, must be used when operating AP models in order to absorb reaction force.
2. Use pneumatic sockets only.
3. Through hole type S.q drive.

Standard Accessories W5 hex key

Optional Accessories

SA

Shell Arm
Light Weight Reaction Arm

RoHS

Refer to page 68.



AP1200N2 with SA, Skolet

UA

Universal Arm
Heavy Duty Reaction Arm

RoHS

Refer to page 68.



AP700N2 with UA, Skolet



ME/MC2

Multiple Unit/
Pneumatic
Straight Style

Direction



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 [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Free Speed [r.p.m]	Air Pressure [MPa]	Hose Dia. [mm]	Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.						
ME25N	10-25	0.5	M250E2	100-250	5	M250E2-A	90-220	5	1050	0.4	φ7.5	420.6 (457.6)	9.5	4.7
ME45N	20-45		M450E2	200-450		M450E2-A	200-400		540			424 (461)	12.7	5.3
ME80N	35-80		M800E2	350-800		M800E2-A	310-700		310					5.7
ME126N	50-126	2	M1260E2	500-1260	20	M1260E2-A	35-90	2	200	0.5	φ8			
MC220N2	100-220	10	MC22M2	10-22	1	MC160F2	80-160	10	277			287.5	19.0	4.6
MC400N2	200-400		MC40M2	20-40		MC300F2	150-300		175			376	25.4	6.7
MC700N2	300-700		MC70M2	30-70	2	MC500F2	220-500		79			388	31.75	8.1
MC1200N2	600-1200	50	MC120M2	60-120	5	MC900F2	450-900	50	46	19.2	φ8	491	31.75	17
MC2200N2	1000-2200	100	MC220M2	100-220	10	MC1600F2	700-1600	100	12			522	38.1	24
MC4000N2	2000-4000		MC400M2	200-400		MC3000F2	1500-3000							

Note

1. Overall length in () is the length with TC sensor.
2. Auto-reverse/auto-reset functions.
3. For designing a multi-spindle system, check the PCD, minimum distance between the spindles.
4. Add "-TC" for sensor-equipped version.
5. For first-time user, consult Tohnichi for assistance.

Standard Accessories Torque adjusting bar

Optional Accessories for Multiple Unit

Handle Valve, Supportive Handle



Part #	Type	Air Outlet	Overall Length [mm]	Application
188	Handle Valve	3/8	135	For Direct Connection
189	Handle Valve	1/8	125	Master Valve
187	Handle Assist	-		-



Switch Handle, Switch

Part #	Type	Application
331	Start Switch Handle	Multiple Unit Start Switch
332	Reset Switch Handle	Reset Switch
333	Quick Reverse Handle	Emergency Reset Switch

Slide Drive for ME, DCME



Model
FDME25N
FDME80N
FDME126N
FDME400N
FDME1200N



Master Valve

Part #	Application	Air Outlet × Air Supply × Number of Branch (ΦD) × (φd) × (n)
195	MF	1/2 × 1/4 × 4
196	ME	1/2 × 1/4 × 6
197	MC	3/4 × 3/8 × 2
198		1 × 3/8 × 4
199		1 × 3/8 × 6

Torque Sensor

Model	Applicable Model
TC-ME2	ME
TC-MCA	MC220N2, MC400N2
TC-MCB-2	MC700N2
TC-MCB	MC1200N2

Slide Drive for MC2



Model
FDMC400N
FDMC1200N

