

A/AC2

Semi-Automatic Airtork

Direction



A100N Low provisional type



A180N Low provisional type



AC50N2 High provisional type



ACLS100N2 High provisional with limit switch type

- Assembly
- Angle
- Pneumatic
- Graduation
- Push button

RoHS

- Pneumatic motor mounted on torque wrench
- After provisional tightening by an air motor at high speed, final tightening is performed manually.
- A: Low provisional torque type
- AC: 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]		Max. Provisional Tightening Torque [N·m]	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.							
A10N	3-10	0.1	A100	30-100	1	A100-A	30-90	1	1.8	750			278	9.5	1.0
A25N	5-25	0.25	A225	50-250	2.5	A225-A	50-200	2.5							
A50N	10-50	0.5	A450	100-500	5	A450-A	100-400	5	800			φ5	340	12.7	1.43
A100N	20-100	1	A900	200-1000	10	A900-A	15-65	1							
A180N	40-180	2	A1800	400-1800	20	A1800-A	30-130	2	5	1000			334	12.7	3.3
AC25N2	5-25	0.25	AC250M2	50-250	2.5	AC2002-3/8	50-200	2.5							
AC50N2	10-50	0.5	AC500M2	100-500	5	AC4002-3/8	100-400	5	11	900			489	12.7	3.3
-	-	-	-	-	-	AC8002-3/8	200-800	10							
-	-	-	-	-	-	AC75F2-3/8	15-75	1	17.5	900			334	12.7	3.3
AC100N2	20-100	1	AC1000M2	200-1000	10	-	-	-							
AC180N	40-180	2	A1800C	400-1800	20	AC130F-4A	30-130	2	19	800			489	12.7	3.3

Note
 1. Rated voltage of the limit switch is AC/DC 30V, below 1A.
 2. Use pneumatic sockets only.
 3. Through hole type S,q drive.

ALS/ACLS2

- A/C 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]		Max. Provisional Tightening Torque [N·m]	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.							
ALS10N	3-10	0.1	A100LS	30-100	1	1.8	750			278	9.5	1.2
ALS25N	5-25	0.25	A225LS	50-225	2.5							
ALS50N	10-50	0.5	A450LS	100-500	5	11	1000	0.5	φ5	293	1.7	1.2
ACLS25N2	5-25	0.25	ACLS250M2	50-250	2.5							
ACLS50N2	10-50	0.5	ACLS500M2	100-500	5	900			φ6	334	1.7	2.2
ACLS100N2	20-100	1	ACLS1000M2	200-1000	10							
ACLS180N	40-180	2	A1800CLS	400-1800	20	19	800			489	12.7	3.5

AUR

UNITORK/Pistol Type Pneumatic Torque Screwdriver

Direction



AUR12.5N

- Assembly
- Pistol
- Pneumatic
- Graduation
- Trigger

RoHS

- 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	0.5	φ10	#3	1.5
AUR12.5N	5-12.5	0.25	AU125R	50-125	2.5	AU125R-A	37.5-112.5	2.5	800				
AUR25N	10-25	0.5	AU250R	100-250	5	AU250R-A	75-225	5	400			-	1.7

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

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	0.5	φ10	#3	1.5
AURLS12.5N	5-12.5	0.25	AU125RLS	50-125	2.5	AU125RLS-A	37.5-112.5	2.5	800				
AURLS25N	10-25	0.5	AU250RLS	100-250	5	AU250RLS-A	75-225	5	400			-	1.7

POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold Separately

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 BP1825



BP1850

Note

1. Guideline tightening No. is 1500 operations for BP1825 and 3000 operation for BP1850.
2. The guideline is in case of middle joint. It is subject to change due to joint coefficient.

Assembly Angle Electric Re-Chargeable Graduation Trigger

- 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			4	1000	406		1.5
HAC25N	5~25	0.25	11	1100	445	9.53	1.9
HAC50N	10~50	0.5					
HAC100N	20~100		17.5	1000	491	12.7	2.4
HAC140N	30~140	1					
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

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-8

Note AC100-240V is applicable.



BA-8

Balancer

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

HAT

HANDYTORK/
Battery Operated
Torque Screwdriver

Direction



HAT25N

HAT Optional Accessories



BP-12

Battery

Model	Description
BP-12	DC 12V



BC-1

Battery Charger

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-FH256 receiver (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-FH256

Refer to page 29 for wireless Pokayoke system configuration.

*Sold separately



POKA Patrol, Count Checker CNA-4mk3

Refer to page 27.



* Sold Separately



DU

Fully-Automatic Electric Torque Screwdriver

Direction



DU250CN

Assembly Straight Electric Graduation Trigger

RoHS

- Easy torque set with external scale
- Brushless motor : high durability and low noise
- Ideal for torque traceability
- Control the number of tightening to eliminate missed tightening

S.I. Model	Torque Range [cN·m]		Free Speed [r.p.m]		Applicable Screw size (Ref.)		Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.	High	Low	Standard	High-strength		
DU30CN	10-30	0.5	1500	1050	M2 (M2.2)	(M1.8) M2	281	0.6
DU60CN	20-60	1			M2.5, M3	(M2.2) M2.5		
DU100CN	40-100	2			(M3.5)	M3 (M3.5)		
DU250CN	100-250	5	1200	840	M4 (M4.5)	M4	305	0.82

Note 1. Cable and DU-Counter are required and sold separately.
 2. TCF is available as a checker. Refer to page 58.
 3. Counterclockwise rotation has no torque control. It is loosening purpose only.

DU-COUNTER Specifications

Model	DU-COUNTER
Counter Display	2 digits 7 segments
Judgement	Blue/Red
Number of Tightening	1-99
Judgement Mode	Preset, Automatic judgment - 0-99 seconds/per sec.
Output	OK/NG output, Relay contact: DC30V 1A, AC125V 0.3A
Input	RESET input

Timer Function	Double tightening prevention/1-99 sec. Auto-reset/0-60 sec. Interval warning/0-99 sec.
Power Source	AC100V-240V±10% 50/60Hz 3.6A MAX
Output Voltage	DC36V 13.4A MAX
Dimension	W159.2 × D220 × H83
Weight [kg]	1.3
Operating Temperature [°C]	0-40
Accessories	AC cable
Applicable Model	DU30/60/100/250CN



DU-COUNTER

Cable for DU and DU-COUNTER

Part #	Applicable Model	Length [m]
516	DU and DU-COUNTER	2
517		5



Cable for DU/DU-Counter

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

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	10-30	0.5	U3	1-3	0.05	U3-A	1-3	0.05	1600	0.4	φ5	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	0.6	φ5	0.48	#2
U250CN	100-250	5	U25	10-25	0.5	U25-A	8-22	0.5	1200	0.6	φ6	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	10	U100	40-100	1.0	U100-A	30-90	1.0	700	0.6	φ6	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	#2
UR500CN	200-500	10	U50R	20-50	1.0	U50R-A	15-45	1.0	950	0.6	φ6	1.45	#3

Note 1. U1000CN has a fixed square drive (9.53mm). Use socket bits or bit holders for this model.
 2. U500CN, 1000CN, and UR500CN are pistol type with trigger mechanism.
 3. Standard bits available in the local market can be used.
 4. Counterclockwise rotation has no torque control and it is loosening purpose only.

Standard Accessories 1. One Touch Joint #130 for U30CN-250CN, ULR120CN, and ULR250CN.
 2. Bit holder for U1000CN

U/UR Optional Accessories

One Touch Joint (Female)

Part #	Applicable Model	Size
130	U30CN-U250CN	PF 1/4 Female
131		PF 1/4 Male
132		φ8 Hose Joint

Hand Cover

Part #	Applicable Model
150	U30CN-U120CN
151	U250CN

Torque-fix For torque adjustment

Part #	Applicable Model
145	U30CN-U120CN
146	U250CN
147	U500CN, UR500CN

Tool Kit for disassembly/assembly for UNITORK

Part #	Applicable Model
160	U30CN-U250CN
161	U250CN
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

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	40-120	1	M12G	4-12	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	0.4	φ5	279		
MF6N	3-6	0.1	M60F	30-60	1	M60F-A	25-50	1	1000	0.4	φ6	411-	Hex	2.0
MF12N	6-12	0.2	M120F	60-120	2	M120F-A	50-100	2	500	0.4	φ6	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

NEW


AP400N2



AP2200N2

 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·cm]		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.							
NEW AP220N2	100-220		AP22M2	10-22		AP160F2	80-160	5	277			275	19.0	SA400N/UA450N	4.7
NEW AP400N2	200-400	10	AP40M2	20-40	1	AP300F2	150-300	10	175			364	25.4	SA700N/UA900N	6.7
NEW AP700N2	300-700	20	AP70M2	30-70	2	AP500F2	220-500	10	79	0.5	φ12	375		SA1200N/UA1800N	8.1
NEW AP1200N2	600-1200	50	AP120M2	60-120	5	AP900F2	450-900	25	46			508	31.75	UA3000N	15
NEW AP2200N2	1000-2200	100	AP220M2	110-220	10	AP1600F2	800-1600	50	19.2			541	38.1	UA4500N	22
NEW 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 64.



AP1200N2 with SA, Socket

UA Universal Arm Heavy Duty Reaction Arm

RoHS

Refer to page 64.



AP700N2 with UA, Socket



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.		kgf·cm	kgf·m		lbf·in	lbf·ft						
ME25N	10-25		M250E2	100-250		M250E2-A	90-220		1050			420.6 (457.6)	9.5	4.7
ME45N	20-45	0.5	M450E2	200-450	5	M450E2-A	200-400	5	540					5.3
ME80N	35-80	1	M800E2	350-800	10	M800E2-A	310-700	10	310	0.4	φ7.5	424 (461)	12.7	
ME126N	50-126	2	M1260E2	500-1260	20	M1260E2-A	35-90	2	200					5.7
NEW MC220N2	100-220		MC22M2	10-22	1	M22C-A	80-160	10	277			287.5	19.0	4.6
NEW MC400N2	200-400		MC40M2	20-40		M40C-A	150-300		175					
NEW MC700N2	300-700	20	MC70M2	30-70	2	M70C-A	220-500	20	79			376	25.4	6.7
NEW MC1200N2	600-1200	50	MC120M2	60-120	5	M120C-A	450-900	50	46	0.5	φ8	388		8.1
NEW MC2200N2	1000-2200		MC220M2	100-220		M220C-A	700-1600		19.2			491	31.75	17
NEW MC4000N2	2000-4000	100	MC400M2	200-400	10	M400C-A	1500-3000	100	12			522	38.1	24

- 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		Master Valve
187	Handle Assist	-	125	-

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

Slide Drive for MC2

Model
FDMC400N
FDMC1200N

Master Valve

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

