

## 02231 1/2" Dr. Air Ratchet



- Ratchet yoke made of chromium-molybdenum alloy steel and subjected to precision machining and special heat treatment for high precision and long service life
- Exhaust hood rotatable in 360 degrees for safety
- Precise planetary gear running in the inner ring gear tube made of nitride steel for stability and durability
- Trigger upgraded to stepless speed control
- Novel exhaust hood profile
- Reversing knob facilitating operation
- Output torque and service life increased

## 02313 Straight Grip Air Screwdriver



- Main shaft and blow mechanism made of nickel-chrome-molybdenum alloy steel and subjected to special heat treatment and suitable for production line
- Blow chamber made of hot-forged steel blank for firmness and durability
- Precisely-casted steel cylinder for firmness and wear resistance
- Exhaust hood rotatable in 360 degrees for safety

## 02312 Heavy Duty Pistol Grip Air Screwdriver



- Exquisite special dual non-pin totally-enclosed blow mechanism for stable and strong torque output  
Suitable for 150mm-long screws or hardwood work piece
  - Seven-blade high-efficiency motor with aluminum alloy cylinder without nickel plating, being light and durable and weighing only 0.9kg
  - Accurate speed adjustment buttons provided
  - Exhaust hood rotatable in 360 degrees for safety
  - Positive/negative rotation with only one hand
  - Suitable for left-handed operators
- \*It is recommended to use SATA anti-impact bits. See the section of "Screwdrivers and bits" for details.

## 02311 Composite Air Impact Screwdriver



- Handle coated with composite, weighing only 0.9kg
  - Fully-enclosed reversing knob for effective dust control
  - Main shaft, hammer, cam and hammer frame made of nickel-chrome-molybdenum alloy steel and subjected to special heat treatment
  - CVT trigger for easy initial positioning
- \*It is recommended to use SATA anti-impact bits. See the section of "Screwdrivers and bits" for details

No.	Output End Specification	Working Torque <sup>4</sup> (N-m)	Max. Reversal Torque <sup>5</sup> (N-m)	Free Speed (RPM)	Bolt Tightening Capacity <sup>1</sup>	Average Gas Consumption (CFM)	Noise Level <sup>2</sup> dB(A)	L×W×H(mm)	Air Inlet Size	Min. Air Hose ID(mm)	Working Air Pressure <sup>3</sup> (Kgf/cm <sup>2</sup> )	Unit Weight(kg)			
02231	1/2" Male	75	81	160	M8	4	92.5	265×60×49	1/4"	8	6.35	1.13	-	16	20.8
02312	1/4" Hex Key	88	95	10000	M10	1.87	92	155×160×58	1/4"	6.35	6.35	0.97	-	10	12.6
02313	1/4" Hex	28	40	10000	M6	7	90	185×65×47	1/4"	6.35	6.35	0.85	-	10	10.3
02311	1/4" Hex	50	68	12500	M6	1.76	83.6	220×150×45	1/4"	10	6.35	1	-	10	11.4

<sup>1</sup> For tightening capability standard for bolts, refer to bolts with strength level of 12.9 in DIN 267. <sup>2</sup> Noise level is sound pressure of level A. <sup>3</sup> Working air pressure refers to the real-time dynamic air pressure measured at the air inlet of the product during idling operation; <sup>4</sup> Working torque refers to the accumulated torque actually output by the tool running forward for 5 seconds under working pressure; <sup>5</sup> Maximum reversing torque refers to the torque actually accumulated when the tool reverses for 15 seconds under operating air pressure