

# Digital jGUN

## Description, Operation and Safety

# DIGITAL jGUN Features

**The Digital jGUN is the world's first torque-adjustable pneumatic multiplier with a digital readout and patented design that eliminates the add-on FRL.**

## Industrial-Grade Motor

The motor is a workhorse design for heavy industrial use with maximum power and rugged corrosion resistance. This motor eliminates the need for separate air filters and lubricators increasing overall portability and flexibility.

## Built-In Torque Adjustment

First industrial torque tool with an onboard air regulator for simple torque adjustment with the twist of the connector at the bottom of the handles. Especially convenient to switch to loosening with full power for fast and easy break-out.

## Highest Power to Weight

The design includes enhanced air flow and planetary gearing system combined with the use of innovative aluminum alloys gives the highest power to weight ratio of any tool in the industry and unparalleled durability.

## Ergonomic Design

New ergonomic handle design with pistol grip and single finger activation provide comfortable operation even in the most rugged applications.



## Standard Square Drive with Concentric Reaction Spline

Designed with a standard square drive and reaction spline provides easy use in conventional torque application using reaction arms and sockets and efficient torque transfer.

## Simple Directional Switch with Built-In Safety

Simply push the button beneath the barrel to change from tighten to loosen. As a safety feature the operator must engage this switch to activate the trigger keeping the second hand away from the reaction arm.



## Digital Readout

First industrial torque multiplier with an onboard digital readout for instant confirmation of selected torque and pressure.

## On-Board Processor

Provides automated torque and unit conversion eliminating the need for pressure-to-torque tables or calculations.

## Push Button Setup

Operator can easily adjust torque and pressure for desired units.

# DIGITAL jGUN Specifications



## Flexible Configuration

The Digital jGUN is easily configured for use with the HYTORC Washer and HYTORC Nut.



MODEL NUMBER	H	W	L	R	DRIVE	WEIGHT	TORQUE	
	IMPERIAL (in.)					lbs.	MIN (ft.-lbs.)	MAX (ft.-lbs.)
DJ - .25	7.06	2.72	7.15	2.50	3/4	7.20	48	259
DJ - .5	7.32	2.74	8.07	2.58	3/4	7.20	129	508
DJ - 1	7.32	2.74	8.82	2.58	3/4	10	301	1,231
DJ - 2	7.94	3.53	10.46	3.25	1	14.50	521	2,190
DJ - 3	7.94	3.53	11.11	3.25	1	15.75	852	3,104
DJ - 5	8.03	4.15	12.24	4.15	1-1/2	20.05	1,150	5,266
DJ - 8	8.46	4.23	13	4.56	1-1/2	26.50	1,743	7,924
	METRIC (mm)					kg	MIN (Nm)	MAX (Nm)
DJ - .25	191.80	79.24	176.53	63.50	19.05	3.74	67.80	340
DJ - .5	191.80	79.24	204	65.53	19.05	3.74	183.03	677.90
DJ - 1	191.80	79.24	223.30	65.53	19.05	4.44	474.53	1,559.20
DJ - 2	205.50	82.04	274.06	82.55	25.40	7.48	732.14	2,833.65
DJ - 3	205.50	82.04	291.10	82.55	25.40	8.02	1,160.58	4,311.50
DJ - 5	205.50	82.04	311.40	105.41	38.10	10.52	1,559.20	6,846.90
DJ - 8	205.50	82.04	342.64	115.82	38.10	13.40	2,474.40	10,711

# DJ – Digital jGUN Operating Procedures

The following procedures should be followed to operate the Digital jGUN tools.

- DJ1 Inspect Tool
- DJ2 Install Reaction Arm
- DJ3 Install Socket
- DJ4 Verify Air Supply
- DJ5 Connect Hoses
- DJ6 Set Display
- DJ7 Tighten Bolt
- DJ8 Loosen Bolt
- DJ9 Charge Tool

# Inspect Tool

## DJ1 Inspect Tool before Use

- Inspect the housing for cracks/damage
- Check square drive/linkage for cracks or damage
- Inspect reaction spline for damage
- Check the reaction arm for cracks or damage
- Make sure reaction arm is properly attached to tool
- Inspect levers and triggers for damage
- Check pneumatic couplers for damage
- Check LCD screen and buttons for damage



# Install Reaction Arm

Where tools are supplied with separate reaction arms or arm extensions, attach the reaction arm per manufacturer guidelines and firmly challenge that the arm is attached to the tool.

## DJ2 Install Reaction Arm

- ❑ Slide the reaction arm over the drive spline while aligning the Allen Set Screw with the flat on the Reaction Spline.
- ❑ Reaction arm should always point away from the tool.
- ❑ Tighten Allen Set Screw to firmly attach the reaction arm to the spline.
- ❑ Challenge the reaction arm to make sure it is firmly secured onto the tool.



**Caution: Never modify a reaction arm! Changes in the reaction arm may lead to personal injury or damage to the tool.**

# Install Socket

## DJ3 Install Socket

- Always Use Premium Impact Grade Sockets
- Always Use the Strongest Socket for the Job
- Always Use the Correct Size Socket
- Take Care with Socket Extensions and Adapters
- Never Use a Cut-Down or Modified Socket
- Inspect Every Socket Before Use
- Slide the socket over the drive and push the Pin through the Socket and the Drive
- Hold Pin in place with a Ring or approved retainer



# Verify Air Supply

## DJ4 Verify Air Supply

- ❑ Verify the air supplied for pneumatic torque gun operation is a minimum of **50 cu-ft/min and 90psi.**
- ❑ Verify that the supply hose has a minimum ID of ½” – a ¾” ID hose is preferred.
- ❑ Where the air supply is not sufficient, the tool will sputter to a stall. The tool will not produce the correct output without a consistent flow of air
- ❑ Insufficient air supply may result in the tool not being functional





# Connect Hoses

## DJ5 Connect Hoses

### – With the Air Supply Off

- Check the hoses for damage
- Connect the supply hose to the Digital jGUN with appropriate fittings and Teflon tape as required



# Set Display

## DJ6 Set Display

- ❑ Center Button - Power On – Push the center button to turn the tool on – toggle again to turn the tool off.
- ❑ Left button – Toggle between TORQUE and PRESSURE mode on the display
- ❑ Right Button – When in TORQUE mode, toggle the right button to display torque in different units including PSI, bar and KPa. When in PRESSURE mode, toggle to display different units including ft-lbs and Nm.

NOTE: The digital jGUN contains a calibrated pressure sensor and a processor that can convert and display units of psi, bar and Kpa. The processor has a built in torque conversion chart to convert the pressure to torque – essentially eliminating the need for a separate torque conversion chart.

IMPORTANT: The push buttons on the digital jGUN control only what units is displayed, they do not control the power output or direction of the tool.



# Tighten Bolt

## DJ7 Tighten Bolt

- Push the Center Button to turn the tool on.
- Adjust the pressure regulator until the desired torque is displayed on the digital display.
- Position Tool on nut to be tightened
- Adjust the reaction arm so it is positioned against a firm rigid surface
- Pull the trigger to apply torque in clockwise direction  
Note: To activate the drive the directional control button must be pushed in and held while depressing the trigger. Once started the trigger will hold the directional button in position and both hands can be used to hold the tool.
- Run the tool until it stalls and no longer turns the socket/nut

## Release Locked-On Tool

- To release locked-on tool switch the directional control to loosen and jog the trigger to release the tool – adjust pressure regulator to increase pressure as needed.



Make sure the directional switch is pushed in on the left side of the tool and then hold the switch while pulling the trigger to turn the drive clockwise. This is a safety feature to have the operator keep both hands away from danger zones when starting up the tool.

# Loosen Bolt

## DJ8 Loosen Bolt

- ❑ Push the center button to turn on the tool
- ❑ Shift the directional control lever to the loosen mode
- ❑ Position tool over the nut to be loosened
- ❑ Make sure the reaction arm is positioned against a firm rigid surface – note that the reaction arm will now turn in the clockwise direction
- ❑ Pull the trigger to apply torque in the counterclockwise direction

**Important: In the loosen mode the jGUN provides the maximum output of the tool to provide a smooth and powerful breakout.**

**Note: The trigger cannot be depressed unless the directional button is displaced. Once depressed the trigger will hold the directional button in position and both hands can be used to hold the tool.**

- ❑ Loosen the nut until it can be turned by hand.



Make sure the directional control switch is switched to the Loosen (L) mode for CCW loosening.



# Charge Battery

The Digital jGun contains a non-removable rechargeable Li-Ion Battery that powers the Display Electronics. Follow the instructions below for charging the battery.

## DJ9 Charge Battery

- Monitor the three-segment battery charge indicator on the lower right side of the screen - when the level drops the tool can easily be recharged.
- Use the USB cable provided in the case with the tool to recharge the tool.
- Connect the charger to the USB connector on the right side of the display housing on the rear of the gun.
- The battery will be recharged in less than an hour - it is fully charged as indicated by three bars.



**Let's Bolt!**

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