

# INDUSTRIAL POWER TOOLS



**Nityo Tools India Pvt. Ltd.**

Plot No. PAP/J/55, Near HP Petrol Pump, Indrayani Chowk,  
Bhosari, Pune - 411026, Maharashtra | Tel. : +91 7276333324  
E-mail : sales@nityotools.com | Website : www.nityotools.com



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**Nityo**



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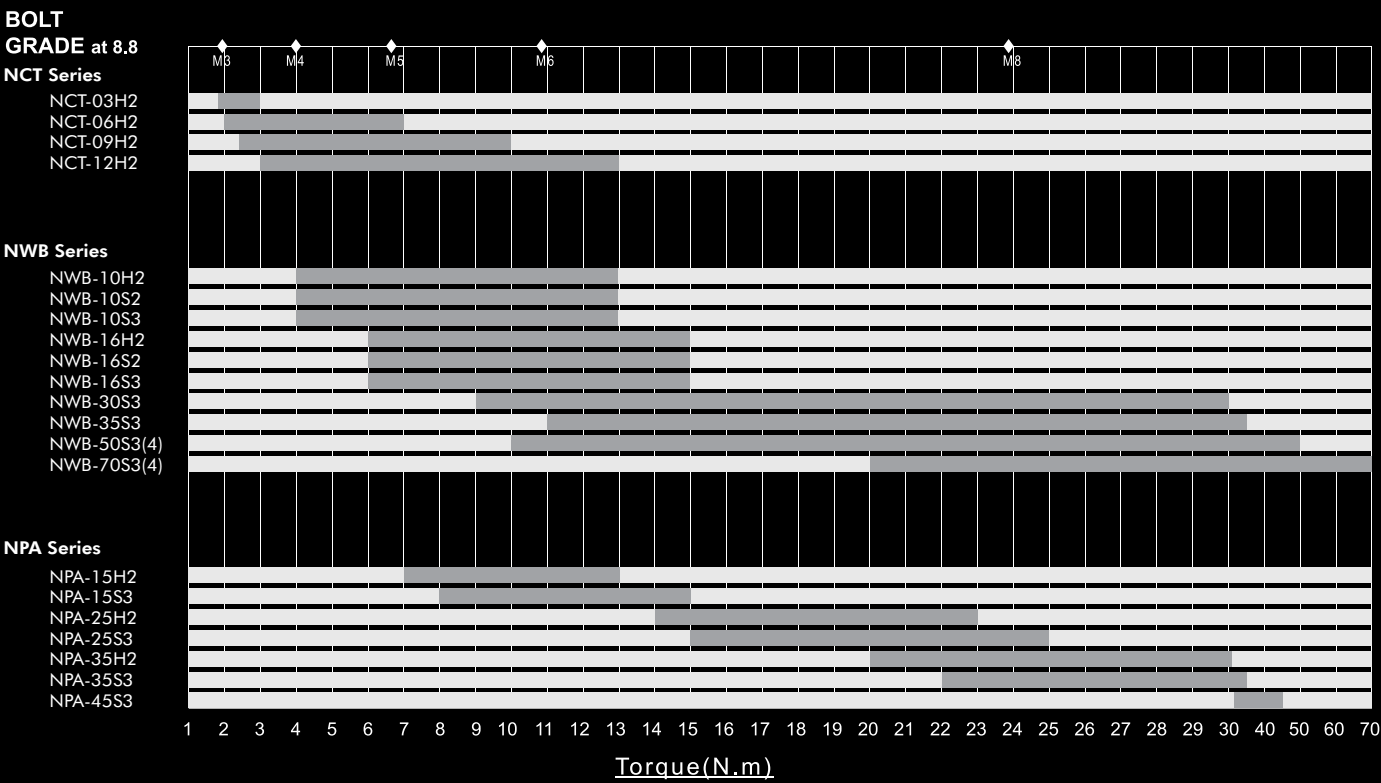
# Industrial Cordless Tools

Nityo



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## Tool Selection Chart



## TORQUE RANGE REFERENCE

Torque is a very important reference value while choosing a right tool for tightening. Due to nut sizes, joint types, air pressure and working environment, the actual tightening torque may vary. The table above is only for a reference to choose the right tool. When the working torque is at the mean value of the torque range, the tool provides the best performance.

## Tightening Torque (N.m)

This table shows the recommended tightening torque for common bolt size M2 to M16.

| Bolt Size | Bolt Grade |      |      |      |      |      |      | Bolt Size | Bolt Grade |      |     |     |      |      |
|-----------|------------|------|------|------|------|------|------|-----------|------------|------|-----|-----|------|------|
|           | 3.6        | 4.6  | 4.8  | 5.8  | 8.8  | 10.9 | 12.9 |           | 4.6        | 4.8  | 5.8 | 8.8 | 10.9 | 12.9 |
| M2        | 0.10       | 0.13 | 0.17 | 0.22 | 0.35 | 0.49 | 0.58 | M8        | 8.9        | 10.5 | 15  | 24  | 33   | 40   |
| M3        | 0.35       | 0.46 | 0.61 | 0.77 | 1.20 | 1.70 | 2.10 | M10       | 17         | 21   | 29  | 47  | 65   | 79   |
| M4        | 0.81       | 1.10 | 1.40 | 1.80 | 2.90 | 4.00 | 4.90 | M12       | 30         | 36   | 51  | 81  | 114  | 136  |
| M5        | 1.60       | 2.20 | 2.95 | 3.60 | 5.70 | 8.10 | 9.70 | M14       | 48         | 58   | 80  | 128 | 181  | 217  |
| M6        | 2.80       | 3.70 | 4.90 | 6.10 | 9.80 | 14.0 | 17.0 | M16       | 74         | 88   | 123 | 197 | 277  | 333  |

## Torque Conversion

| Nm  | Ft-lbs | Nm  | Ft-lbs | 10. Nm | Ft-lbs | Nm | Ft-lbs | Nm | Ft-lbs |
|-----|--------|-----|--------|--------|--------|----|--------|----|--------|
| 0.8 | 0.59   | 1.7 | 1.25   | 8      | 5.90   | 17 | 12.53  | 30 | 22.11  |
| 0.9 | 0.66   | 1.8 | 1.33   | 9      | 6.63   | 18 | 13.26  | 35 | 25.79  |
| 1   | 0.74   | 1.9 | 1.40   | 10     | 7.37   | 19 | 14.00  | 40 | 29.48  |
| 1.1 | 0.81   | 2   | 1.47   | 11     | 8.11   | 20 | 14.74  | 45 | 33.16  |
| 1.2 | 0.88   | 3   | 2.21   | 12     | 8.84   | 21 | 15.48  | 50 | 36.85  |
| 1.3 | 0.96   | 4   | 2.95   | 13     | 9.58   | 22 | 16.21  | 55 | 40.53  |
| 1.4 | 1.03   | 5   | 3.68   | 14     | 10.32  | 23 | 16.95  | 60 | 44.22  |
| 1.5 | 1.11   | 6   | 4.42   | 15     | 11.05  | 24 | 17.69  | 65 | 47.90  |
| 1.6 | 1.18   | 7   | 5.16   | 16     | 11.79  | 25 | 18.42  | 70 | 51.68  |



# NSC Series | Brushless motor -Cordless Shut-off Screwdriver-



## Mini USB Connector:

Tool speed can be adjusted by Bamason programmer.

LED indicator provides simple process information to the operator. The signal is visible from any angle.



Blue light indicates that the tool is in reverse operation.



Green light indicates that the preset torque is reached and tightening is completed.



Red light with a long “beep” sound indicates that the tightening was failed.



Yellow light with a “beep” sound indicates that the battery is dead. Must change the battery pack immediately.



Yellow Flashing light with five short beep sounds indicates low battery.

## SPECIFICATIONS

| Model    | Volt. | Drive Size | Screw Size | Weight w/o Batt. |     | Vibration Value | Noise Level | Free Speed | Torque Range (N.m) |            |
|----------|-------|------------|------------|------------------|-----|-----------------|-------------|------------|--------------------|------------|
|          | V     | in         | mm         | kg               | lb  | m/s2            | dB(A)       | rpm        | Hard joint         | Soft joint |
| NSC-03H2 | 18    | 1/4" Hex.  | M3~M4      | 0.95             | 2.1 | <2.5            | <75         | 500~1,550  | 0.8~3              | 0.8~3      |
| NSC-06H2 | 18    | 1/4" Hex.  | M3~M5      | 0.95             | 2.1 | <2.5            | <75         | 300~900    | 1~6                | 1~6        |
| NSC-09H2 | 18    | 1/4" Hex.  | M3~M5      | 0.95             | 2.1 | <2.5            | <75         | 300~700    | 1.5~9              | 1.5~9      |
| NSC-12H2 | 18    | 1/4" Hex.  | M4~M6      | 0.95             | 2.1 | <2.5            | <75         | 250~550    | 2~12               | 2~12       |

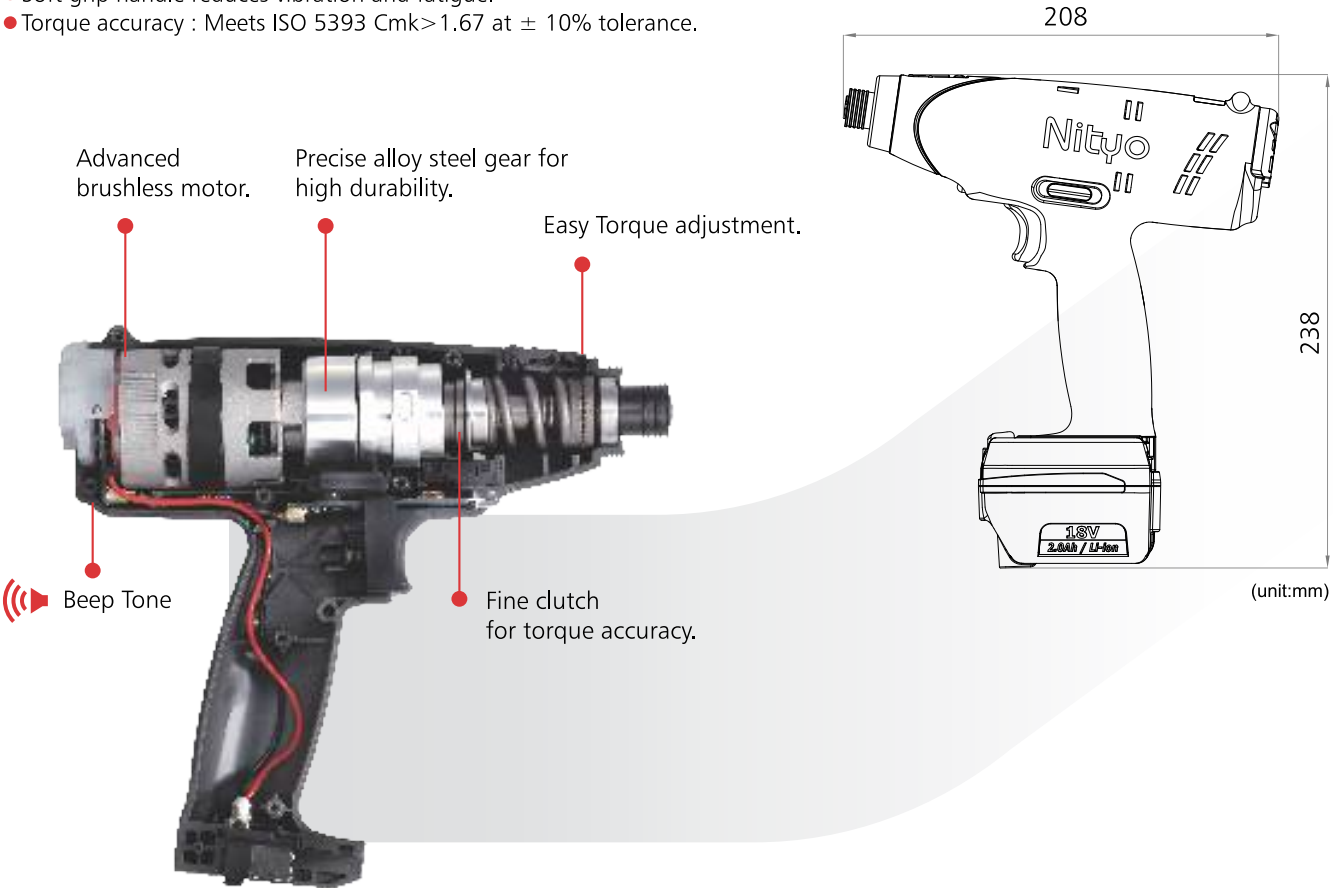
Adjustment screwdriver , spanner are included with the tool.

## Applications

- Assembly applications where torque accuracy is required.
- Areas where pneumatic or electric tools are impractical to use due to hoses/cables.
- Especially used on car interior assembly.
- Attaching components to the dashboard.
- Hose clips on turbo chargers and air intakes,heating and climate systems and coolant circuits.

## Product Strengths

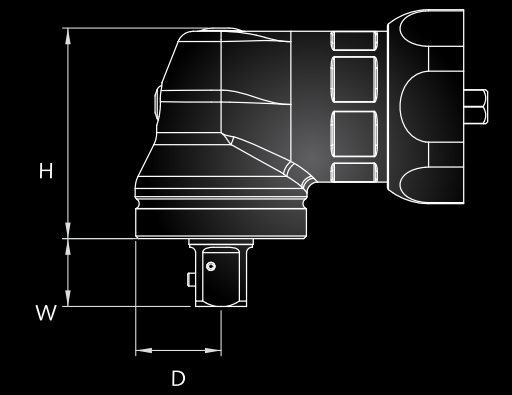
- Adopting with the innovative Lithium-ion battery technology that extends the operating time of one fully charged battery to be longer than the Ni-Cad and the Ni-MH battery.
- Lithium-ion battery has no memory effect which extends the cycle life of the battery.
- The unique design of low battery warning that reminds operators the time to change the battery.
- Brushless motor has longer life time and wear-free parts that lower maintenance and spare part costs.
- Tool speed can be adjusted for different applications.
- Soft grip handle reduces vibration and fatigue.
- Torque accuracy : Meets ISO 5393 Cmk> 1.67 at ± 10% tolerance.



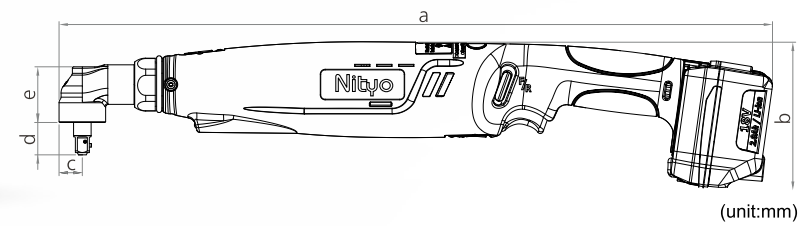


# NWB Series | Brushless motor

## -Cordless Shut-off Angle Wrench / Screwdriver-



| Drive Type       | H (mm) | W (mm) | D (mm) |
|------------------|--------|--------|--------|
| 3/8" Sq.(10/16)  | 39     | 12     | 16     |
| 1/4" Sq.(10/16)  | 39     | 9      | 16     |
| 1/4" Hex.(10/16) | 39     | 20     | 16     |
| 3/8" Sq.(30/35)  | 38     | 13.6   | 16     |



| Drive Type       | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|------------------|--------|--------|--------|--------|--------|
| 3/8" Sq.(30/35)  | 487    | 101    | 16     | 13.5   | 38     |
| 3/8" Sq.(10/16)  | 483    | 101    | 16     | 12     | 39     |
| 1/4" Sq.(10/16)  | 483    | 101    | 16     | 9      | 39     |
| 1/4" Hex.(10/16) | 483    | 101    | 16     | 20     | 39     |

### Applications

- Assembly applications where torque accuracy is required.
- Areas where pneumatic or electric tools are impractical to use due to hoses/cables.
- Especially used in cramped spaces.

### Product Strengths

- The high performance brushless motor reduces the harm of environment and provides more fastening cycles per battery charge.
- To use innovative 4.0A.h Li-ion battery makes working time longer than Ni-Cad and Ni-MH batteries.
- Li-ion battery without memory effect so the battery life can be last longer.
- The common use 30 N.m tool is lighter and shorter than other brands , it makes the operation much easier and less fatiguing.
- Torque accuracy : Meets ISO 5393 Cmk>1.67 at ±10% tolerance.

- LED indicator provides simple process information to the operator.
- Blue light indicates that the tool is in reverse operation.
  - Green light indicates the preset torque is reached and the tightening is OK.
  - Red light with a long beep sound indicates that the preset torque is not reached.
  - Yellow flashing with five short "beep" sounds indicates low battery.
  - Yellow light with a long "beep" sound indicates that the battery is dead. Must change the battery immediately.

### SPECIFICATIONS

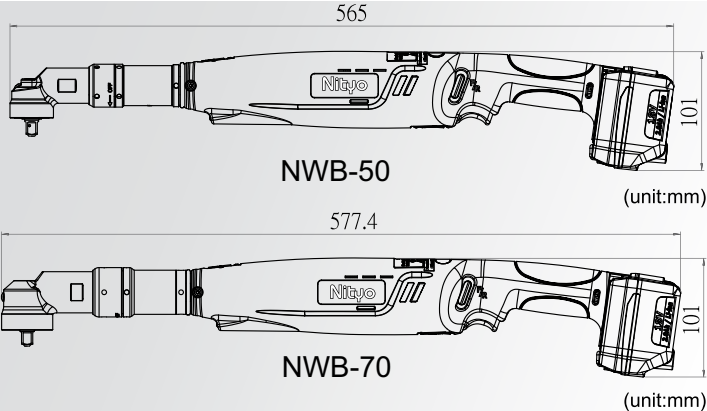
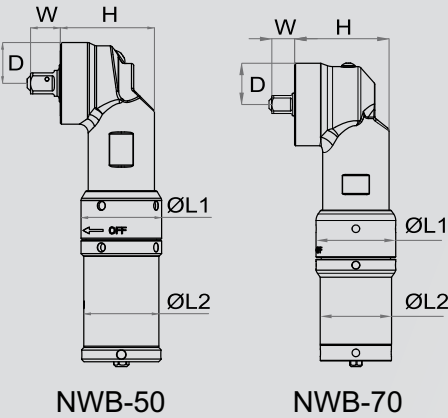
| Model    | Volt. | Drive Size | Screw Size | Weight w/o Batt. |     | Vibration Value  | Noise Level | Free Speed | Torque Range (N.m) |            |
|----------|-------|------------|------------|------------------|-----|------------------|-------------|------------|--------------------|------------|
|          | V     | in         | mm         | kg               | lb  | m/s <sup>2</sup> | dB(A)       | rpm        | Hard joint         | Soft joint |
| NWB-10H2 | 18    | 1/4" Hex.  | M4~M5      | 1.5              | 3.3 | <2.5             | <75         | 400-1000   | 3-12               | 3-10       |
| NWB-10S2 |       | 1/4" Sq.   |            |                  |     |                  |             |            |                    |            |
| NWB-10S3 |       | 3/8" Sq.   |            |                  |     |                  |             |            |                    |            |
| NWB-16H2 | 18    | 1/4" Hex.  | M5~M6      | 1.5              | 3.3 | <2.5             | <75         | 300-600    | 5-18               | 5-16       |
| NWB-16S2 |       | 1/4" Sq.   |            |                  |     |                  |             |            |                    |            |
| NWB-16S3 | 18    | 3/8" Sq.   | M6~M8      | 1.5              | 3.3 | <2.5             | <75         | 250-450    | 8-30               | 8-22       |
| NWB-30S3 |       | 3/8" Sq.   |            |                  |     |                  |             |            |                    |            |
| NWB-35S3 |       | 3/8" Sq.   |            |                  |     |                  |             |            |                    |            |

Adjustment screwdriver, spanner, suspension bail, marking color ring are included with the tool.

# NWB Series | Brushless motor

-Cordless Shut-off Angle Wrench / Screwdriver-

UP TO 70Nm



### Drive Type

| Model    | H (mm) | W (mm) | D (mm) | L1 (mm) | L2 (mm) |
|----------|--------|--------|--------|---------|---------|
| NWB-50S3 | 42.5   | 13.5   | 18.5   | 36.5    | 34      |
| NWB-50S4 | 42.5   | 18.5   | 18.5   | 36.5    | 34      |
| NWB-70S3 | 50     | 12     | 21.7   | 42      | 37.6    |
| NWB-70S4 | 50     | 18     | 21.7   | 42      | 37.6    |

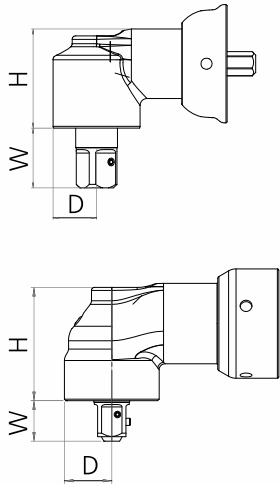
### SPECIFICATIONS

| Model    | Volt. | Drive Size | Screw Size | Weight w/o Batt. |     | Vibration Value | Noise Level | Free Speed | Torque Range (N.m) |            |
|----------|-------|------------|------------|------------------|-----|-----------------|-------------|------------|--------------------|------------|
|          | V     | in         | mm         | kg               | lb  | m/s2            | dB(A)       | rpm        | Hard joint         | Soft joint |
| NWB-50S3 | 18    | 3/8" Sq.   | M6~M10     | 2.0              | 4.5 | <2.5            | <75         | 200        | 10~50              | 10~50      |
| NWB-50S4 | 18    | 1/2" Sq.   | M6~M10     | 2.0              | 4.5 | <2.5            | <75         | 200        | 10~50              | 10~45      |
| NWB-70S3 | 18    | 3/8" Sq.   | M8~M12     | 2.5              | 5.5 | <2.5            | <75         | 170        | 20~70              | 20~60      |
| NWB-70S4 | 18    | 1/2" Sq.   | M8~M12     | 2.5              | 5.5 | <2.5            | <75         | 170        | 20~70              | 20~60      |

Adjustment screwdriver , spanner , marking color ring are included with the tool.

# NWD Series

-Cordless Shut-off Angle Wrench / Screwdriver-



### NWD-07 NWD-14

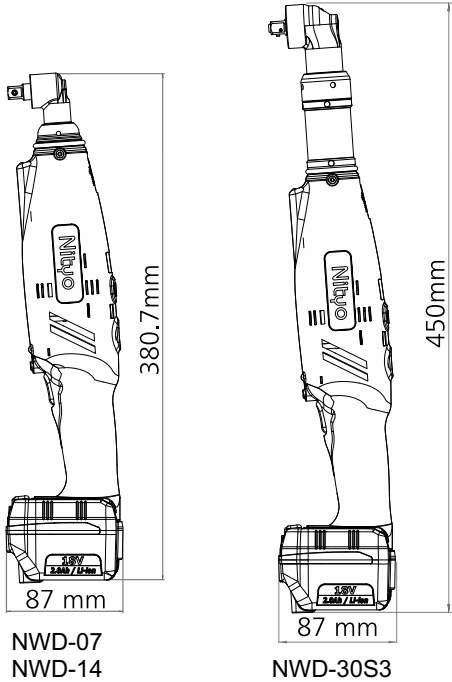
| Drive     | H  | W  | D    |
|-----------|----|----|------|
| 1/4" Hex. | 26 | 3  | 12.5 |
| 1/4" Sq.  | 26 | 9  | 12.5 |
| 3/8" Sq.  | 26 | 12 | 12.5 |

(unit:mm)

### NWD-30S3

| Drive    | H  | W    | D  |
|----------|----|------|----|
| 3/8" Sq. | 38 | 13.6 | 16 |

(unit:mm)



### SPECIFICATIONS

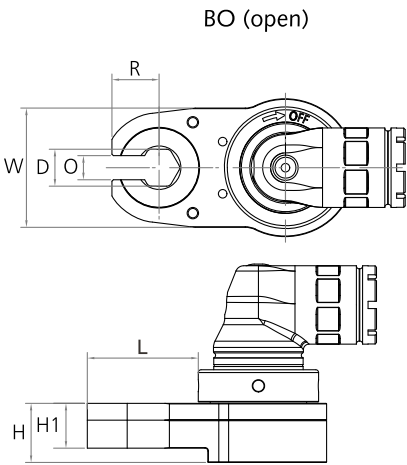
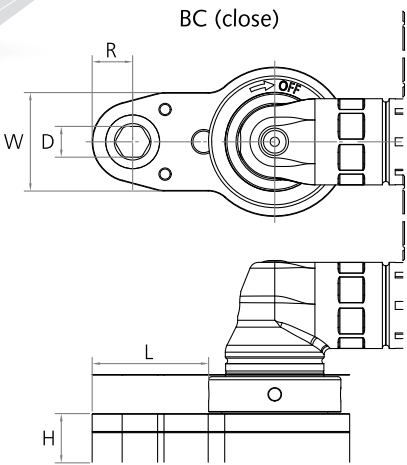
| Model    | Drive Size | Volt | Screw Size | Torque Range (Nm) |            | Free Speed | Weight with battery |     | Vibration Value | Noise Level |
|----------|------------|------|------------|-------------------|------------|------------|---------------------|-----|-----------------|-------------|
|          | inch       | V    | mm         | Hard joint        | Soft joint | rpm        | kg                  | lb  | m/s2            | dB(A)       |
| NWD-07H2 | 1/4" Hex.  | 18   | M3 - M5    | 1.8 - 8           | 1.8 - 7    | 400 - 800  | 1.5                 | 3.2 | <2.5            | <75         |
| NWD-07S2 | 1/4" Sq.   |      |            |                   |            |            |                     |     |                 |             |
| NWD-07S3 | 3/8" Sq.   |      |            |                   |            |            |                     |     |                 |             |
| NWD-14H2 | 1/4" Hex.  | 18   | M4 - M6    | 3.5 - 16          | 3.5 - 14   | 200 - 500  | 1.5                 | 3.2 | <2.5            | <75         |
| NWD-14S2 | 1/4" Sq.   |      |            |                   |            |            |                     |     |                 |             |
| NWD-14S3 | 3/8" Sq.   |      |            |                   |            |            |                     |     |                 |             |
| NWD-30S3 | 3/8" Sq.   | 18   | M5 - M8    | 8 - 32            | 8 - 30     | 200        | 1.9                 | 4.2 | <2.5            | <75         |



# Geared Type Series

## Angle Type

-Cordless tools-



### FEATURES

- This cordless tool series is available for customization to suit users' requirements. It is not to only prioritize the durability, but also enhance the productivity and accessibility.

### DIMENSIONS

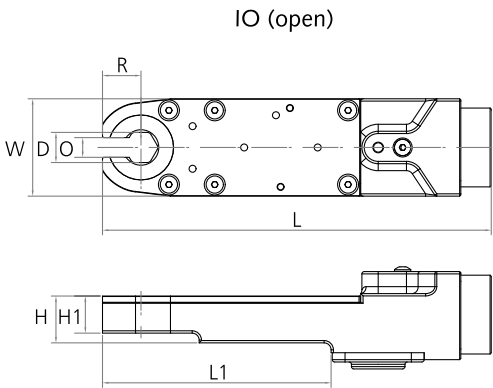
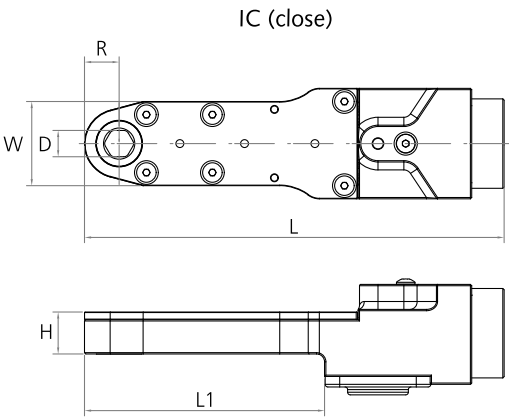
(unit:mm)

| Model | W  | D  | O    | R    | L    | H  | H1 |
|-------|----|----|------|------|------|----|----|
| BC    | 32 | 10 | -    | 13.1 | 36.7 | 16 | -  |
| BO    | 42 | 13 | 10.2 | 17   | 40   | 21 | 16 |

| Model     | Type  | Volt. | Hex Dimension | Weight w/o Batt. | Vibration Value  | Noise Level | Free Speed | Torque Range (N.m) |            |
|-----------|-------|-------|---------------|------------------|------------------|-------------|------------|--------------------|------------|
|           |       | V     | Max(mm)       | kg               | m/s <sup>2</sup> | dB(A)       | rpm        | Hard joint         | Soft joint |
| NWB-10BCA | close | 18    | 12            | 2.0              | <2.5             | <75         | 950        | 3-8                | 3-8        |
| NWB-16BCA | close | 18    | 12            | 2.0              | <2.5             | <75         | 600        | 5-13               | 5-13       |
| NWB-30BCA | close | 18    | 12            | 2.0              | <2.5             | <75         | 450        | 8-18               | 8-18       |
| NWB-10BOA | open  | 18    | 19            | 2.1              | <2.5             | <75         | 950        | 3-7                | 3-7        |
| NWB-16BOA | open  | 18    | 19            | 2.1              | <2.5             | <75         | 600        | 5-12               | 5-12       |
| NWB-30BOA | open  | 18    | 19            | 2.1              | <2.5             | <75         | 450        | 8-17               | 8-17       |

## In-Line Type

-Cordless tools-



### DIMENSIONS

(unit:mm)

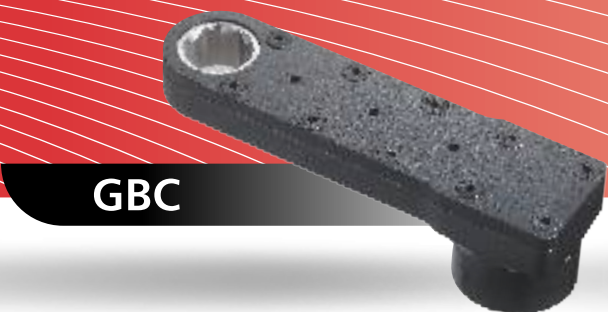
| Model | W  | D  | O    | R    | L     | L1   | H  | H1 |
|-------|----|----|------|------|-------|------|----|----|
| IC    | 32 | 10 | -    | 13.1 | 157.3 | 89.3 | 16 | -  |
| IO    | 42 | 13 | 10.2 | 17   | 166.2 | 98.2 | 20 | 16 |

| Model     | Type  | Volt. | Hex Dimension | Weight w/o Batt. | Vibration Value  | Noise Level | Free Speed | Torque Range (N.m) |            |
|-----------|-------|-------|---------------|------------------|------------------|-------------|------------|--------------------|------------|
|           |       | V     | Max(mm)       | kg               | m/s <sup>2</sup> | dB(A)       | rpm        | Hard joint         | Soft joint |
| NWB-10ICA | close | 18    | 12            | 2.2              | <2.5             | <75         | 620        | 5-11               | 5-11       |
| NWB-16ICA | close | 18    | 12            | 2.2              | <2.5             | <75         | 380        | 8-17               | 8-17       |
| NWB-30ICA | close | 18    | 12            | 2.2              | <2.5             | <75         | 300        | 11-23              | 11-23      |
| NWB-10IOA | open  | 18    | 19            | 2.3              | <2.5             | <75         | 420        | 7-13               | 7-13       |
| NWB-16IOA | open  | 18    | 19            | 2.3              | <2.5             | <75         | 270        | 10-22              | 10-22      |
| NWB-30IOA | open  | 18    | 19            | 2.3              | <2.5             | <75         | 200        | 13-28              | 13-28      |

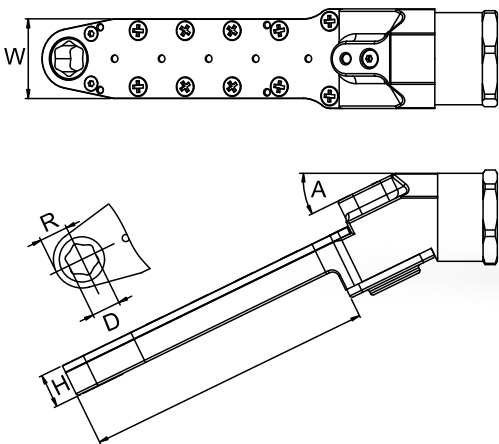
Geared Offsets



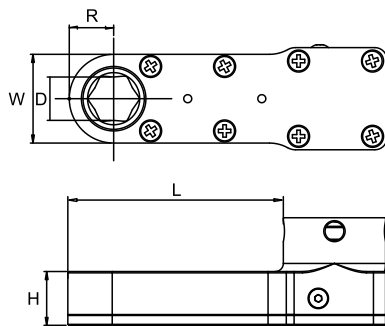
GAC



GBC



GCC

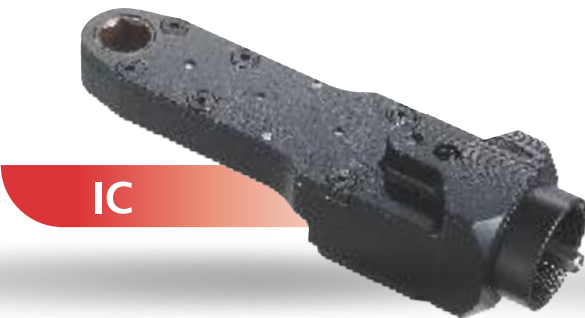


Customization Available

● Please fill in the Request Forms for your desired geared head type.

For Air Impulse Tools

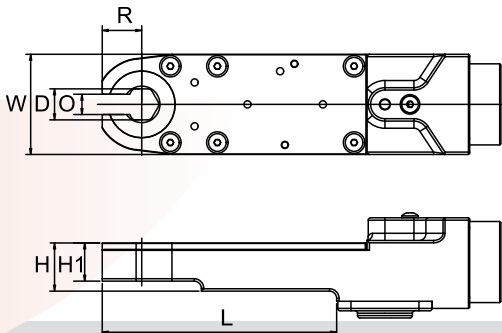
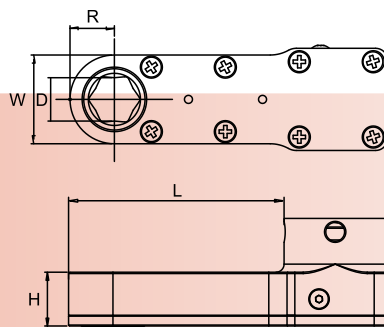
| V | Type | Torque Range (N.m) | W (mm) | D (mm) | R (mm) | H (mm) | L (mm) | A (Angle) |
|---|------|--------------------|--------|--------|--------|--------|--------|-----------|
|   | GAC  |                    |        |        |        |        |        | 26 °      |
|   | GBC  |                    |        |        |        |        |        | 90 °      |
|   | GCC  |                    |        |        |        |        |        | 0 °       |



IC



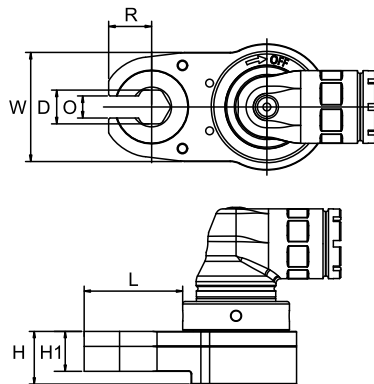
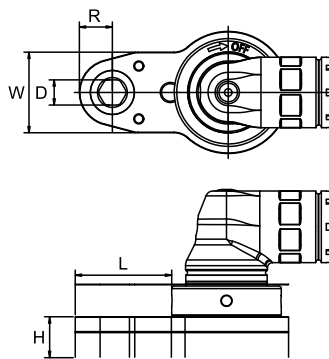
IO



BC



BO



For Cordless Tools

| V | Type | Torque Range (N.m) | W (mm) | ØD (mm) | O (mm) | R (mm) | L (mm) | H (mm) | H1 (mm) |
|---|------|--------------------|--------|---------|--------|--------|--------|--------|---------|
|   | IC   |                    |        |         |        |        |        |        |         |
|   | IO   |                    |        |         |        |        |        |        |         |
|   | BC   |                    |        |         |        |        |        |        |         |
|   | BO   |                    |        |         |        |        |        |        |         |



# NPA Series | Brushless motor

## -Cordless Shut-off Impulse Tools-

Patented Unique Shut off system

Max. Torque  
45 Nm



Advanced brushless motor provides longer motor life and more efficiency.

LED indicators provides process information.

Mini USB connector to read information from motor.

Press button for easy F/R peration.

Ergonomical handle design provides good balance.

Li-ion battery: Longer lifetime. No memory effect.

Advanced and stable shut-off system.

LED light for working in dark area.

1.Non-contact switch provides longer switch life.  
2.Trigger switch with variable speed control.

Easy attached sliding battery

### LED INDICATORS

Shut off Point Setting to apply various joint types.



FLASHING YELLOW + GREEN = REVERSE OPERATION

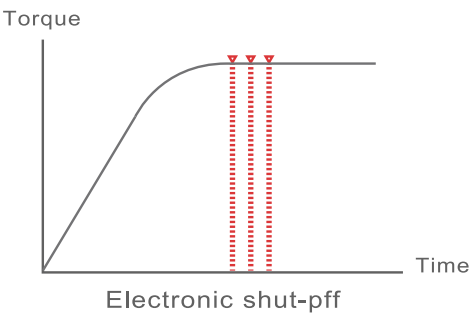
GREEN = TIGHTENING OK

RED = TIGHTENING NG

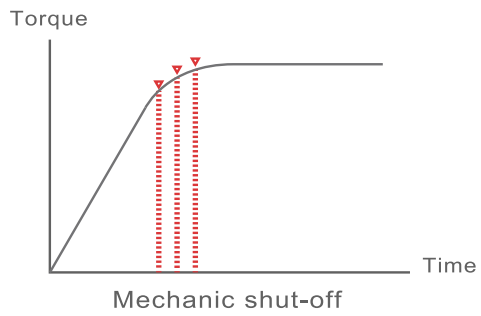
FLASHING YELLOW = LOW BATTERY WARNING

YELLOW = CHANGE BATTERY

### SUPERIOR ELECTRONIC SHUT-OFF SYSTEM



The final torque acquired by electronic shut-off with the impulse setting function is more stable and accurate.



The final torque acquired by mechanic shut-off is easily affected by the change of oil temperature and becomes unstable and inaccurate.



### FEATURES

- The Shut off Point can be adjusted according to different applications and joint types to reach the best performance and work efficiency. Shut off Point setting can also be locked to avoid the operators changing uncarefully.
- Reduce the influence of oil temperature inside the pulse unit to improve the torque accuracy.
- Reverse Locked mode let the tool always run at forward direction
- Non-contact Switch provides longer switch life.
- Advanced brushless motor provides longer motor life and better efficiency.
- Ergonomical handle design makes user feel more comfortable.

### SPECIFICATIONS

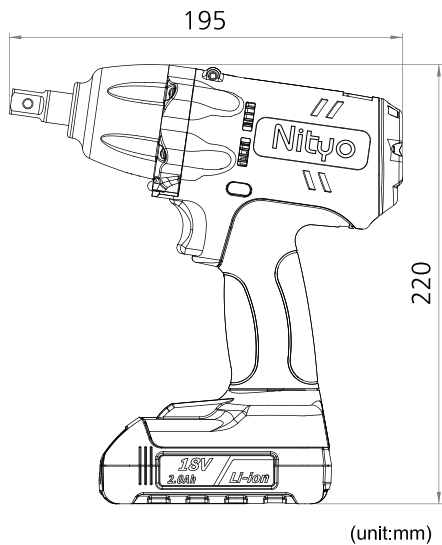
| Model    | Volt. | Drive Size | Weight w/o Batt. | Free Speed | Torque range |            | Pulse unit Type |
|----------|-------|------------|------------------|------------|--------------|------------|-----------------|
|          | V     | in         | kg               | rpm        | Hard joint   | Soft joint |                 |
| NPA-15H2 | 18    | 1/4" Hex.  | 1.15             | 4500       | 7-13         | 5-9        | Shut-off        |
| NPA-15S3 | 18    | 3/8" Sq.   | 1.14             | 4500       | 8-15         | 6-10       | Shut-off        |
| NPA-25H2 | 18    | 1/4" Hex.  | 1.25             | 4500       | 14-23        | 10-16      | Shut-off        |
| NPA-25S3 | 18    | 3/8" Sq.   | 1.24             | 4500       | 15-25        | 11-17      | Shut-off        |
| NPA-35H2 | 18    | 1/4" Hex.  | 1.35             | 3500       | 20-31        | 14-21      | Shut-off        |
| NPA-35S3 | 18    | 3/8" Sq.   | 1.34             | 3500       | 22-35        | 15-24      | Shut-off        |
| NPA-45S3 | 18    | 3/8" Sq.   | 1.41             | 3500       | 32-45        | 22-31      | Shut-off        |

- This tool is suitable on hard joint(A joint) and medium soft joint(B joint), i.e. the tightening angle is less than 180 degrees.
- Set the shut-off point(1-9) as short as possible with stabilized torque on the application; 2-4 for hard joint and 3-7 for medium joint.
- The usage of a maximum of 6 bolts per minute is recommended.

**NIC Series** | Brushless motor  
-Cordless Shut off Impact Tools-



3-120 N.m.  
Brushless Motor



**SHUT OFF SYSTEM**  
**UNIQUE PATENTED**

Torque control function:  
50 programmable stage settings.

**UNIQUE PATENTED**

Torque control function:  
50 programmable stage settings.

**SHUT OFF SYSTEM**

Torque stage & error display  
Torque setting button



**NIC Series**

Advanced & stable impact  
shut-off mechanism.

Advanced brushless motor provides  
longer motor life and greater efficiency.

LED light for work  
area illumination.

F/R button for ease of  
ergonomic operation.

- 1. Non-contact switch provides  
longer life with less downtime.
- 2. 2-speed control trigger / soft start.

Li-ion battery offers longer  
life with no memory effect.



LED Indicators:

- REVERSE
- OK
- NOK
- LOW BATTERY WARNING
- CHANGE BATTERY

Mini USB port for downloading  
data from the motor.

Shock absorbing, ergonomic  
grip provides less fatigue with  
well-balanced operation.

Smart battery with  
capacity indicator.

**SPECIFICATIONS**

| Model     | Volt | Drive Size | Screw Size | Working Torque Range (0.2 ~ 3 secs) |       | Max. Torque (Non-shut off) |       | Free Speed | Weight w/o Battery |     | Noise Level |
|-----------|------|------------|------------|-------------------------------------|-------|----------------------------|-------|------------|--------------------|-----|-------------|
|           | V    | Inch       | mm         | Nm                                  | ft-lb | Nm                         | ft-lb | rpm        | kg                 | lb  | db(A)       |
| NIC-25H2  | 18   | 1/4" Hex.  | M5,M6      | 3-25                                | 2-18  | 40                         | 30    | 2400       | 1.0                | 2.2 | 71          |
| NIC-32H2  | 18   | 1/4" Hex.  | M6         | 6-32                                | 4-24  | 90                         | 66    | 2400       | 1.0                | 2.2 | 71          |
| NIC-32S3  | 18   | 3/8" Sq.   |            |                                     |       |                            |       |            |                    |     |             |
| NIC-55S3  | 18   | 3/8" Sq.   | M8         | 15-55                               | 11-41 | 120                        | 90    | 2400       | 1.1                | 2.4 | 71          |
| NIC-55S4  | 18   | 1/2" Sq.   |            |                                     |       |                            |       |            |                    |     |             |
| NIC-100S4 | 18   | 1/2" Sq.   | M8,M10     | 25-100                              | 18-74 | 180                        | 133   | 2400       | 1.1                | 2.4 | 71          |
| NIC-120S4 | 18   | 1/2" Sq.   | M10,M12    | 30-120                              | 22-89 | 210                        | 155   | 2400       | 1.2                | 2.6 | 71          |



NRB Series  
-Cordless Riveters-

Ball Screw Mechanism

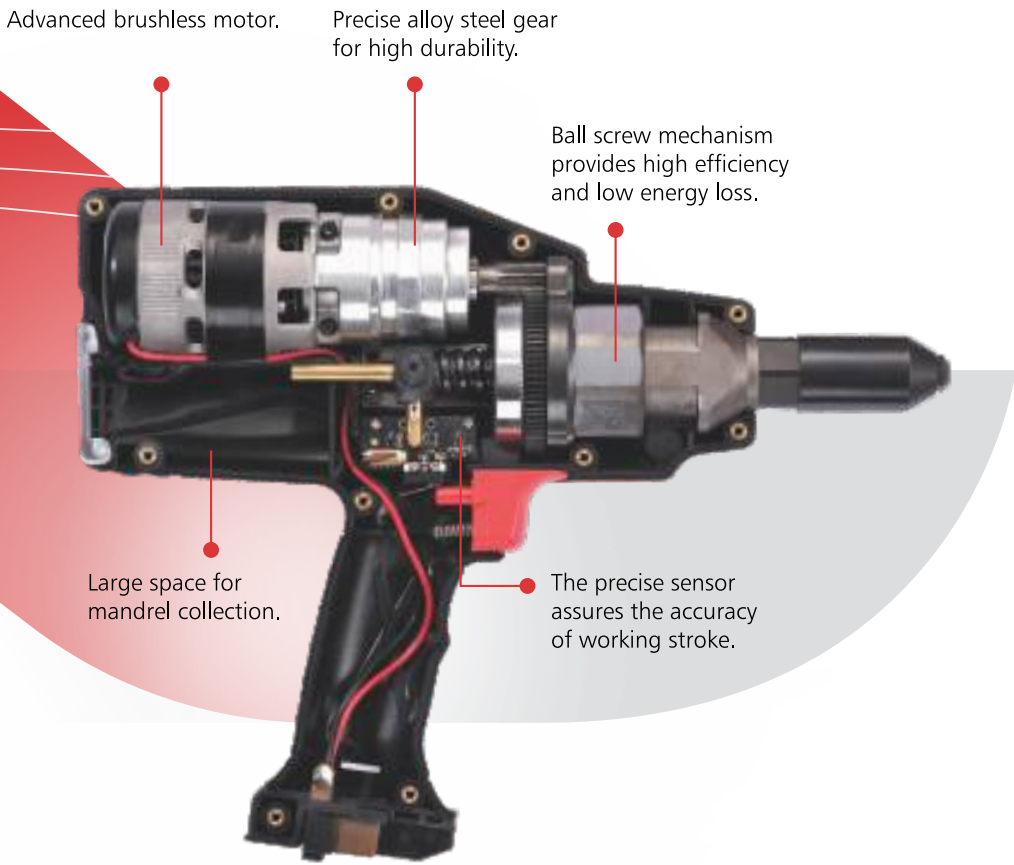
NRB-144M48



NRB-180V64



NRB-180V64



FEATURES

- Ball screw mechanism provides highest power.
- Short cycle times at full stroke.
- Brushless motor reduce the maintenance cost.
- Precision IC board control.
- Advanced, long-life Li-ion battery.
- Alloy steel gear box for high durability.
- Balanced, ergonomical handle.

Applications

- Boat
- Construction
- Display shelves
- Furniture
- Heating, Air conditioning
- Lighting fixtures
- Restaurant equipment
- Signs
- Trailers, Cargo container
- Vending machines

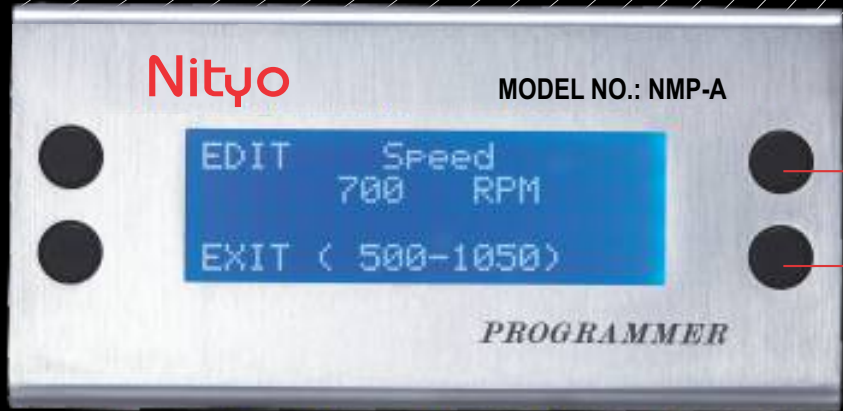
SPECIFICATIONS

| Model      | Volt. | Motor type               | Battery type   | Rivets capacity | Stroke length | Traction power | Pulling time per unit | Weight with 2.0Ah battery |      | Weight with 4.0Ah battery |      | Charging time(2.0Ah) | Charging time(4.0Ah) |
|------------|-------|--------------------------|----------------|-----------------|---------------|----------------|-----------------------|---------------------------|------|---------------------------|------|----------------------|----------------------|
|            | V     | -                        | Ah             | mm              | mm            | lb             | sec                   | kg                        | lb   | kg                        | lb   | minute               | minute               |
| NRB-144M48 | 14.4  | Replaceable carbon brush | Li-ion 4.0     | 2.4~4.8         | 20            | 2023           | 1.0                   | -                         | -    | 2.3                       | 5.06 | -                    | Approx. 85           |
| NRB-180V64 | 18    | Brushless motor          | Li-ion 2.0/4.0 | 4.8~6.4         | 20            | 2900           | 1.0                   | 2.1                       | 4.62 | 2.35                      | 5.17 | Approx. 45           | Approx. 85           |

# Programmer

For Bamason cordless shut off tools

**MODEL NO.: NMP-A**  
More useful functions can be referred to the Programmer Instruction Manual.



- Easy to set the tool speed.
  - 1.High speed for metallic assemblies.
  - 2.Medium speed for plastic assemblies.
  - 3.Low speed for special assemblies.

- Total used time display function.



- Total operation count display function.



- Trip operation count display function.



## Accessories

-For Bamason Industrial Cordless Tools-

### LI-ION BATTERY PACKS



NMB-144C40



NMB-180C20



NMB-180E20



NMB-180E40



NMB-180C40

| Part No.   | Description   | Size (L × W × H)     | Charging Time | Weight           |
|------------|---------------|----------------------|---------------|------------------|
| NMB-144C40 | 14.4V 4.0 A.h | 106 × 79 × 65 mm     | 85 min.       | 0.7 kg (1.56 lb) |
| NMB-180C20 | 18V 2.0 A.h   | 87 × 79 × 64 mm      | 45 min.       | 0.4 kg (0.81 lb) |
| NMB-180C40 | 18V 4.0 A.h   | 106 × 79 × 780 mm    | 85 min.       | 0.6 kg (1.41 lb) |
| NMB-180E20 | 18V 2.0 A.h   | 116.9 × 77 × 15.6 mm | 45 min.       | 0.4 kg (0.9 lb)  |
| NMB-180E40 | 18V 4.0 A.h   | 116.9 × 77 × 64 mm   | 85 min.       | 0.8 kg (1.7 lb)  |

### MARKING COLOR RING (SUIT TO TWB SERIES)



0-431018 / Blue •



0-431019 / Red •



0-431020 / White •



0-431021 / Yellow •

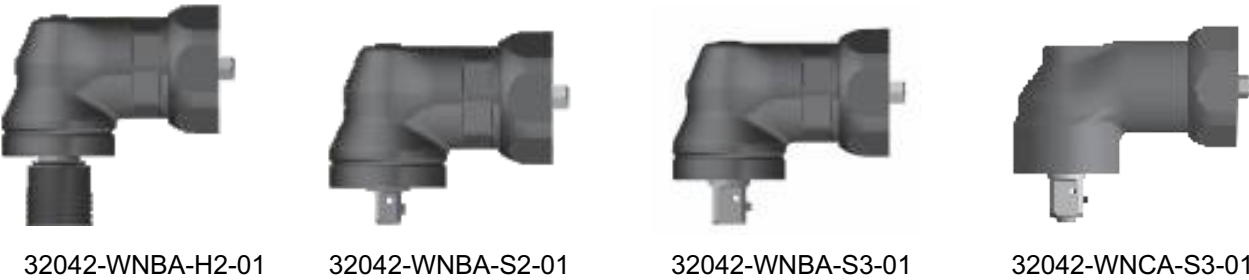


### POWER CORDS (FOR CHARGER USE)



| Part No.    | Description          | Weight          |
|-------------|----------------------|-----------------|
| 33386-NB-06 | for USA region       | 62 g (0.13 lb)  |
| 33386-NB-07 | for Europe region    | 79 g (0.17 lb)  |
| 33386-NB-08 | for Australia region | 105 g (0.23 lb) |
| 33386-NB-04 | for England region   | 151 g (0.33 lb) |

### ANGLED HEAD ASS'Y (SUIT TO TWB SERIES)



| Part No.         | Description |
|------------------|-------------|
| 32042-WNBA-H2-01 | 1/4" Hex.   |
| 32042-WNBA-S2-01 | 1/4" Sq.    |
| 32042-WNBA-S3-01 | 3/8" Sq.    |
| 32042-WNCA-S3-01 | 3/8" Sq.    |

### CHARGERS



| Part No. | Description                                             | Weight            |
|----------|---------------------------------------------------------|-------------------|
| NMC-180E | Input:100~240 VAC<br>Output:18 VDC<br>for Li-ion        | 1 kg (2.2 lb)     |
| NMC-192B | Input:100~240 VAC<br>Output:18~19.2 VDC<br>for Li-ion   | 0.51 kg (1.12 lb) |
| NMC-144B | Input:100~240 VAC<br>Output:10.8~14.4 VDC<br>for Li-ion | 0.51 kg (1.12 lb) |

## Accessories

-For Bamason Industrial Cordless Tools-

### ADJUSTMENT SCREWDRIVER



Part No. 33257-SNAP-02  
( All series )

### SPANNER



Part No. 33257-WNAA-01B  
(NWB Series)

### SUSPENSION BAILS



Part No. 33257-SNBP-01  
(NSC Series)

### TORQUE ADJUSTMENT TOOLS



Part No. 33257-WNBA-01  
(TWB Series)



Part No. 0-602008  
(NPA-25 / 35 / 45 Series)



Part No. 0-602001  
(NPA-15 Series)

**SQ. DRIVER TYPE**  
 Air Impulse Tools



**Non shut-off**

| Model  | SQ Drive<br>mm(") | Bolt<br>Capacity | Torque Range N-m(ft-lb) | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|--------|-------------------|------------------|-------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|        |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NIT-30 | 9.5 (3/8")        | M6               | 6.5-13 (4.8-9.6)        | 4300                 | 4600                 | 0.87         | 167          | 78                   | 6.5          |
| NIT-40 | 9.5 (3/8")        | M6-M8            | 10-19 (7.4-14)          | 4300                 | 4600                 | 0.9          | 167          | 78                   | 6.5          |
| NIT-50 | 9.5 (3/8")        | M8               | 14-28 (10.4-20.7)       | 6800                 | 7200                 | 0.9          | 167          | 80                   | 6.5          |
| NIT-60 | 9.5 (3/8")        | M8-M10           | 20-35 (14.7-25.8)       | 5900                 | 6200                 | 0.97         | 178          | 82                   | 8            |

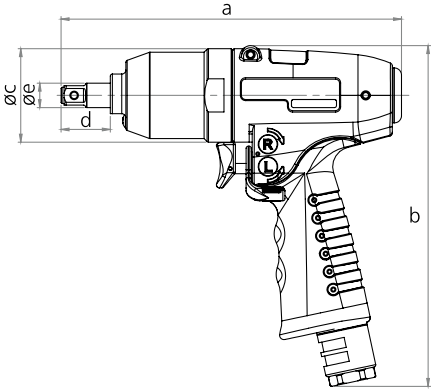
**Auto shut-off**

| Model   | SQ Drive<br>mm(") | Bolt<br>Capacity | Torque Range N-m(ft-lb) | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|---------|-------------------|------------------|-------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|         |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NITS-30 | 9.5 (3/8")        | M6               | 6.5-13 (4.8-9.6)        | 4300                 | 4600                 | 0.87         | 167          | 78                   | 6.5          |
| NITS-40 | 9.5 (3/8")        | M6-M8            | 10-19 (7.4-14)          | 4300                 | 4600                 | 0.92         | 167          | 78                   | 6.5          |
| NITS-50 | 9.5 (3/8")        | M8               | 14-28 (10.4-20.7)       | 6800                 | 7200                 | 0.92         | 167          | 80                   | 6.5          |
| NITS-60 | 9.5 (3/8")        | M8-M10           | 20-35 (14.7-25.8)       | 5900                 | 6200                 | 1.0          | 178          | 82                   | 8            |

Air Inlet : NIT(S) -30 ~ 150 : 1/4" NIT(S) - 180 : 3/8"  
 Recommended Air Pressure : 70 ~ 85 PSI (5 kg/cm<sup>2</sup> ~ 6 kg/cm<sup>2</sup>) / 0.5MPa ~ 0.6 MPa  
 Air Hose Size : 10mm×6.5mm×5m for NIT(S)-30 ~ 50  
 12mm×8mm×5m for NIT(S)-60 ~ 100  
 16mm×11mm×5m for NIT(S)-130 ~ 180

**Dimensions**

| Model     | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|-----------|--------|--------|--------|--------|--------|
| NIT(S)-30 | 167    | 168    | ø 46   | 24     | ø 12   |
| NIT(S)-40 | 167    | 168    | ø 46   | 24     | ø 12   |
| NIT(S)-50 | 167    | 168    | ø 46   | 24     | ø 12   |
| NIT(S)-60 | 178    | 168    | ø 46   | 24     | ø 12   |





SQ. DRIVER TYPE

Air Impulse Tools



Non shut-off

| Model   | SQ Drive<br>mm(“) | Bolt<br>Capacity | Torque Range N-m(ft-lb) | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|---------|-------------------|------------------|-------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|         |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NIT-65  | 9.5 (3/8”)        | M10              | 27 - 45 (19.8 - 33.1)   | 4500                 | 4800                 | 1.05         | 189          | 82                   | 8            |
| NIT-70X | 9.5 (3/8”)        | M10-M12          | 32 - 55 ( 23.5 - 40.5 ) | 5200                 | 5400                 | 1.05         | 189          | 82                   | 8            |
| NIT-70  | 9.5 (3/8”)        | M10-M12          | 34 - 57 ( 25 - 42 )     | 6900                 | 7200                 | 1.33         | 194          | 82                   | 8            |

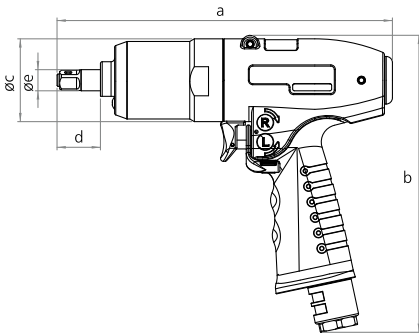
Auto shut-off

| Model    | SQ Drive<br>mm(“) | Bolt<br>Capacity | Torque Range N-m(ft-lb) | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|----------|-------------------|------------------|-------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|          |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NITS-65  | 9.5 (3/8”)        | M10              | 27 - 45 (19.8 - 33.1)   | 4500                 | 4800                 | 1.08         | 189          | 82                   | 8            |
| NITS-70X | 9.5 (3/8”)        | M10-M12          | 32 - 55 ( 23.5 - 40.5 ) | 5200                 | 5400                 | 1.08         | 189          | 82                   | 8            |
| NITS-70  | 9.5 (3/8”)        | M10-M12          | 34 - 57 ( 25 - 42 )     | 6900                 | 7200                 | 1.35         | 194          | 82                   | 8            |

Air Inlet : NIT(S) - 30 ~ 150 : 1/4” NIT(S) - 180 : 3/8”  
Recommended Air Pressure : 70 ~ 85 PSI (5 kg/cm<sup>2</sup> ~ 6 kg/cm<sup>2</sup>) / 0.5MPa ~ 0.6 MPa  
Air Hose Size : 10mm×6.5mm×5m for NIT(S)-30 ~ 50  
12mm×8mm×5m for NIT(S)-60 ~ 100  
16mm×11mm×5m for NIT(S)-130 ~ 180

Dimensions

| Model      | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|------------|--------|--------|--------|--------|--------|
| NIT(S)-65  | 189    | 170    | ø 47   | 25     | ø 12   |
| NIT(S)-70X | 189    | 170    | ø 47   | 25     | ø 12   |
| NIT(S)-70  | 194    | 192    | ø 53.5 | 25     | ø 12   |



Non shut-off

| Model   | SQ Drive<br>mm(“) | Bolt<br>Capacity | Torque Range N-m(ft-lb)  | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|---------|-------------------|------------------|--------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|         |                   |                  | 5-6 kg/cm <sup>2</sup>   | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NIT-80  | 9.5 (3/8”)        | M10-M12          | 40 - 70 ( 29.5 - 51.5 )  | 4800                 | 5100                 | 1.19         | 194          | 82                   | 8            |
| NIT-80H | 12.7 (1/2”)       | M10-M12          | 40 - 72 ( 29.5 - 53 )    | 4800                 | 5100                 | 1.25         | 200          | 82                   | 8            |
| NIT-90  | 12.7 (1/2”)       | M12              | 57 - 90 ( 42 - 66.3 )    | 5000                 | 5400                 | 1.53         | 200          | 83                   | 8            |
| NIT-100 | 12.7 (1/2”)       | M12-M14          | 75 - 120 ( 55.2 - 88.4 ) | 5000                 | 5300                 | 1.85         | 209          | 84                   | 8            |

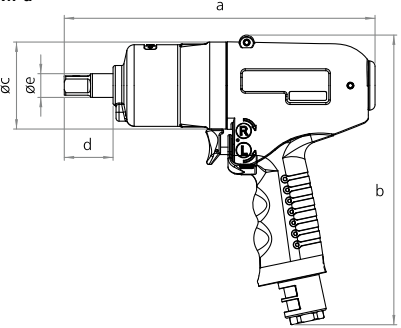
Auto shut-off

| Model    | SQ Drive<br>mm(“) | Bolt<br>Capacity | Torque Range N-m(ft-lb)  | Free Speed           |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|----------|-------------------|------------------|--------------------------|----------------------|----------------------|--------------|--------------|----------------------|--------------|
|          |                   |                  | 5-6 kg/cm <sup>2</sup>   | 5 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NITS-80  | 9.5 (3/8”)        | M10-M12          | 40 - 70 ( 29.5 - 51.5 )  | 4800                 | 5100                 | 1.24         | 194          | 82                   | 8            |
| NITS-80H | 12.7 (1/2”)       | M10-M12          | 40 - 72 ( 29.5 - 53 )    | 4800                 | 5100                 | 1.27         | 200          | 82                   | 8            |
| NITS-90  | 12.7 (1/2”)       | M12              | 57 - 90 ( 42 - 66.3 )    | 5000                 | 5400                 | 1.55         | 200          | 83                   | 8            |
| NITS-100 | 12.7 (1/2”)       | M12-M14          | 75 - 120 ( 55.2 - 88.4 ) | 5000                 | 5300                 | 1.87         | 209          | 84                   | 8            |

Air Inlet : NIT(S) - 30 ~ 150 : 1/4” NIT(S) - 180 : 3/8”  
Recommended Air Pressure : 70 ~ 85 PSI (5 kg/cm<sup>2</sup> ~ 6 kg/cm<sup>2</sup>) / 0.5MPa ~ 0.6 MPa  
Air Hose Size : 10mm×6.5mm×5m for NIT(S)-30 ~ 50  
12mm×8mm×5m for NIT(S)-60 ~ 100  
16mm×11mm×5m for NIT(S)-130 ~ 180

Dimensions

| Model      | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|------------|--------|--------|--------|--------|--------|
| NIT(S)-80  | 194    | 170    | ø 47   | 25     | ø 12   |
| NIT(S)-80H | 200    | 170    | ø 47   | 31     | ø 16   |
| NIT(S)-90  | 200    | 192    | ø 53.5 | 31     | ø 16   |
| NIT(S)-100 | 209    | 195    | ø 59   | 32     | ø 16   |



SQ. DRIVER TYPE

Air Impulse Tools



NIT-130  
NITS-130

NIT-150  
NITS-150

NIT-180  
NITS-180

Non shut-off

| Model   | SQ Drive<br>mm(″) | Bolt<br>Capacity | Torque Range N-m(ft-lb) |                                           | Free Speed                                |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|---------|-------------------|------------------|-------------------------|-------------------------------------------|-------------------------------------------|----------------------|--------------|--------------|----------------------|--------------|
|         |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NIT-130 | 12.7 (1/2″)       | M14-M16          | 113-148 ( 83.2-109 )    | 3300                                      | 3600                                      | 2.22                 | 216          | 86           | 11                   |              |
| NIT-150 | 19 (3/4″)         | M16              | 145-210 ( 106.8-154.6 ) | 3500                                      | 3700                                      | 3.05                 | 238          | 86           | 11                   |              |
| NIT-180 | 19 (3/4″)         | M16-M18          | 180-255 ( 132-188 )     | 2500                                      | 2700                                      | 3.8                  | 264          | 86           | 11                   |              |

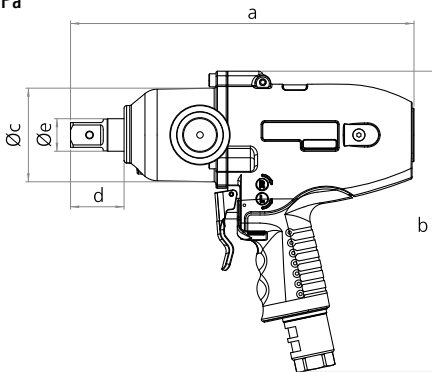
Auto shut-off

| Model    | SQ Drive<br>mm(″) | Bolt<br>Capacity | Torque Range N-m(ft-lb) |                                           | Free Speed                                |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|----------|-------------------|------------------|-------------------------|-------------------------------------------|-------------------------------------------|----------------------|--------------|--------------|----------------------|--------------|
|          |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NITS-130 | 12.7 (1/2″)       | M14-M16          | 113-148 ( 83.2-109 )    | 3300                                      | 3600                                      | 2.26                 | 216          | 86           | 11                   |              |
| NITS-150 | 19 (3/4″)         | M16              | 145-210 ( 106.8-154.6 ) | 3500                                      | 3700                                      | 3.10                 | 238          | 86           | 11                   |              |
| NITS-180 | 19 (3/4″)         | M16-M18          | 180-255 ( 132-188 )     | 2500                                      | 2700                                      | 3.9                  | 264          | 86           | 11                   |              |

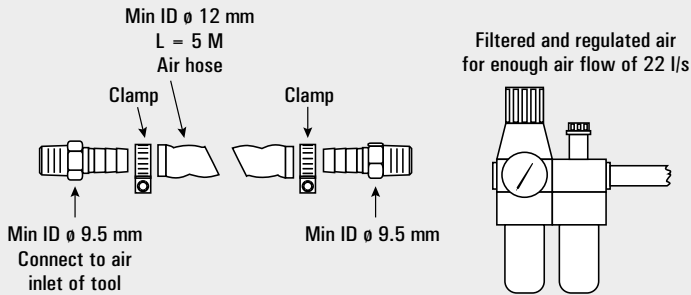
Air Inlet : NIT(S) - 30 ~ 150 : 1/4″ NIT(S) - 180 : 3/8″  
Recommended Air Pressure : 70 ~ 85 PSI (5 kg/cm<sup>2</sup> ~ 6 kg/cm<sup>2</sup>) / 0.5MPa ~ 0.6 MPa  
Air Hose Size : 10mm×6.5mm×5m for NIT(S)-30 ~ 50  
12mm×8mm×5m for NIT(S)-60 ~ 100  
16mm×11mm×5m for NIT(S)-130 ~ 180

Dimensions

| Model      | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|------------|--------|--------|--------|--------|--------|
| NIT(S)-130 | 216    | 204    | ø 64   | 31     | ø 16   |
| NIT(S)-150 | 239    | 215    | ø 72   | 40     | ø 25   |
| NIT(S)-180 | 264    | 232    | ø 78   | 41     | ø 25   |



Light Weight : 4.25 kgs.  
Max Torque : 450 N.m



Non shut-off

| Model   | SQ Drive<br>mm(″) | Bolt<br>Capacity | Torque Range N-m(ft-lb) |                                           | Free Speed                                |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|---------|-------------------|------------------|-------------------------|-------------------------------------------|-------------------------------------------|----------------------|--------------|--------------|----------------------|--------------|
|         |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NIT-200 | 19 (3/4″)         | M18-M20          | 260 - 385 ( 191 - 283 ) | 2800                                      | 3000                                      | 4.2                  | 251          | 88           | 12.7                 |              |

Air Inlet : 3/8″ (9.5mm)  
Recommended Air Pressure : 70 ~ 85 PSI (5 kg/cm<sup>2</sup> ~ 6 kg/cm<sup>2</sup>) / 0.5MPa ~ 0.6 MPa  
A recommended hose size and nipple are strongly suggested to use, or the tool Performance would be not as expected.

Auto shut-off

| Model    | SQ Drive<br>mm(″) | Bolt<br>Capacity | Torque Range N-m(ft-lb) |                                           | Free Speed                                |                      | Weight<br>kg | Length<br>mm | Noise<br>Level<br>dB | Hose<br>Size |
|----------|-------------------|------------------|-------------------------|-------------------------------------------|-------------------------------------------|----------------------|--------------|--------------|----------------------|--------------|
|          |                   |                  | 5-6 kg/cm <sup>2</sup>  | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 5 kg/cm <sup>2</sup> 6 kg/cm <sup>2</sup> | 6 kg/cm <sup>2</sup> |              |              |                      |              |
| NITS-200 | 19 (3/4″)         | M18-M20          | 230 - 450 ( 170 - 332 ) | 3000                                      | 3100                                      | 4.25                 | 251          | 88           | 12.7                 |              |

Air Inlet : 3/8″ (9.5mm)  
Recommended Air Pressure : 85 ~ 100 PSI (6 kg/cm<sup>2</sup> ~ 7 kg/cm<sup>2</sup>)  
A recommended hose size and nipple are strongly suggested to use, or the tool Performance would be not as expected.

Dimensions

| Model      | a (mm) | b (mm) | c (mm) | d (mm) | e (mm) |
|------------|--------|--------|--------|--------|--------|
| NIT(S)-200 | 250.1  | 239.3  | ø 110  | 37.6   | ø 25   |

