

Motorized Roller Blind / Roman Blind

NBT 35

(Inbuilt Receiver)



- Long lasting tubular motors with an Inbuilt radio receiver.
- NBT RQ is exceptionally silent.
- NBT RL offers excellent value.
- NBT 35 LE is wire free and with chargeable batteries.
- Mobile app control / operate with Alexa.

NBT 35's Unique Features

This compact design motorized roller blind offers a variety of uses: from commercial to home.

NBT 35 Tubular motor realizes quiet operation.

Roman Blind Pulley and Velcro Tracks Available.

Pelmet space Roller 4", Pelmet space Roman 5".

Max. width 2.5 mtr., max. height 4 mtr., max. weight 8 kg.

NBT 35 RL & RQ Features

- Mechanic Limit. ● Switch Direction. ● Smart phone Control with WIFI Bridge
- Electronic Limit. ● Built in Receiver. ● Control with Alexa & Google assist.

NBT 35 LE/S(Battery) Features

- Electronic Limit. ● 150-200 Cycles. ● Switch Direction. ● Built in Receiver.
- Jog & Tilt. ● DC Power. ● Motorized setting. ● Built in lithium battery.
- Smart phone Control with WIFI Bridge ● Control with Alexa & Google assist.

NBT 35 MOTOR SPECIFICATIONS

NBT 35RL 6/28 Motor Specifications

Power Source Voltage	V	AC220-230
Frequency	Hz	50/60
Current	A	0.63
Power Consumption	W	144
Rated Torque	Nm	6
Rated RPM	rpm	28
Rated Running Time	min	4
Ambient Temperature	°C	-10 ^o -50 ^o
Maximum Limit turn		36
Length L1 & L2		594 & 567
Motor Db Level	Db	35

NBT 35RQ 6/20 Motor Specifications

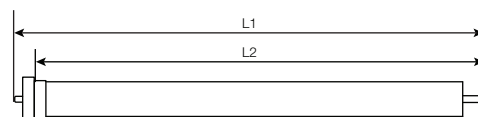
Power Source Voltage	V	AC220-230
Frequency	Hz	50/60
Current	A	0.57
Power Consumption	W	133
Rated Torque	Nm	6
Rated RPM	rpm	20
Rated Running Time	min	4
Ambient Temperature	°C	-10 ^o -50 ^o
Maximum Limit turn		36
Length L1 & L2		613 & 587
Motor Db Level	Db	30

NBT 35LE/S 3/28 (Battery) Specifications

Power Source Voltage	V	12 V
Frequency	MHz	433.925 MHz
Current	A	2.2
Power Consumption	W	26
Rated Torque	Nm	3
Rated RPM	rpm	28
Rated Running Time	min	6
Ambient Temperature	°C	-10 ^o -50 ^o
Maximum Limit turn		36
Length L1 & L2		654 & 637
Motor Db Level	Db	40

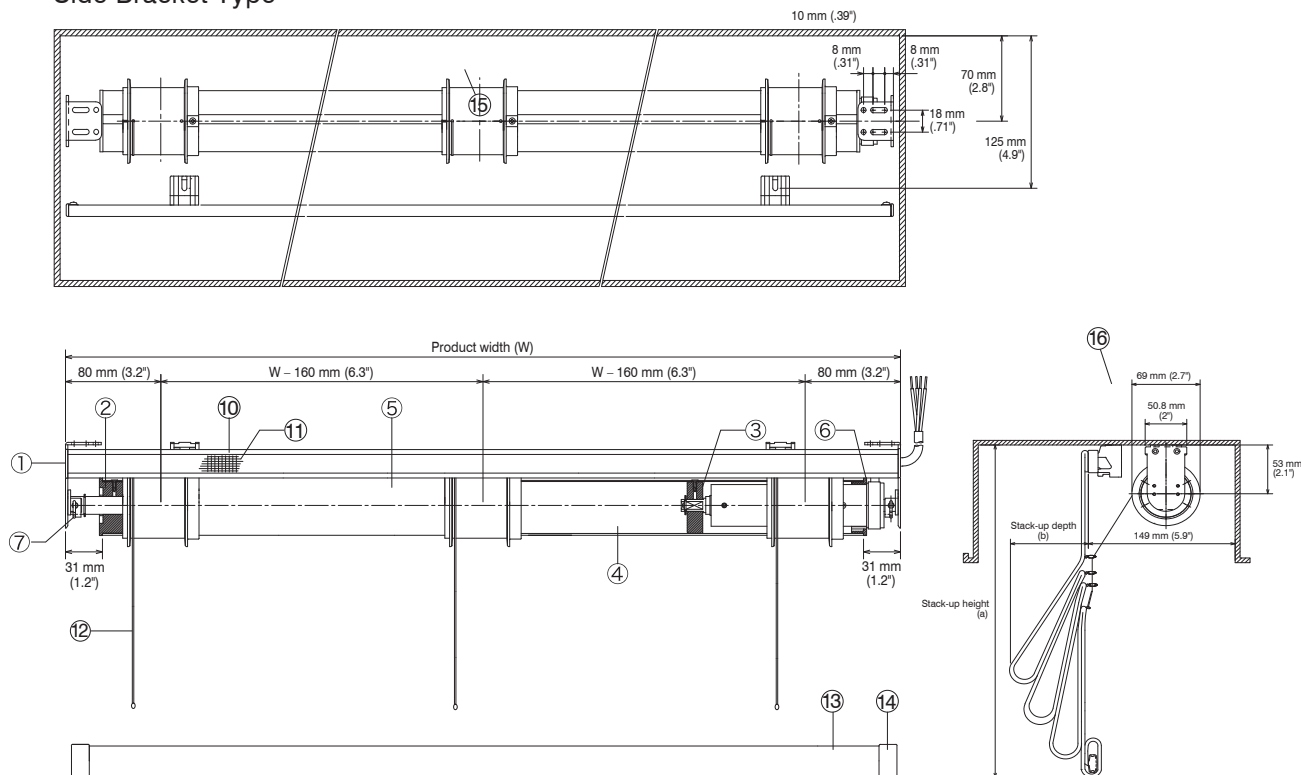
Product Weight

4.2 kg (9.3 lb)
(width: 2500 mm/98.5" without screen)



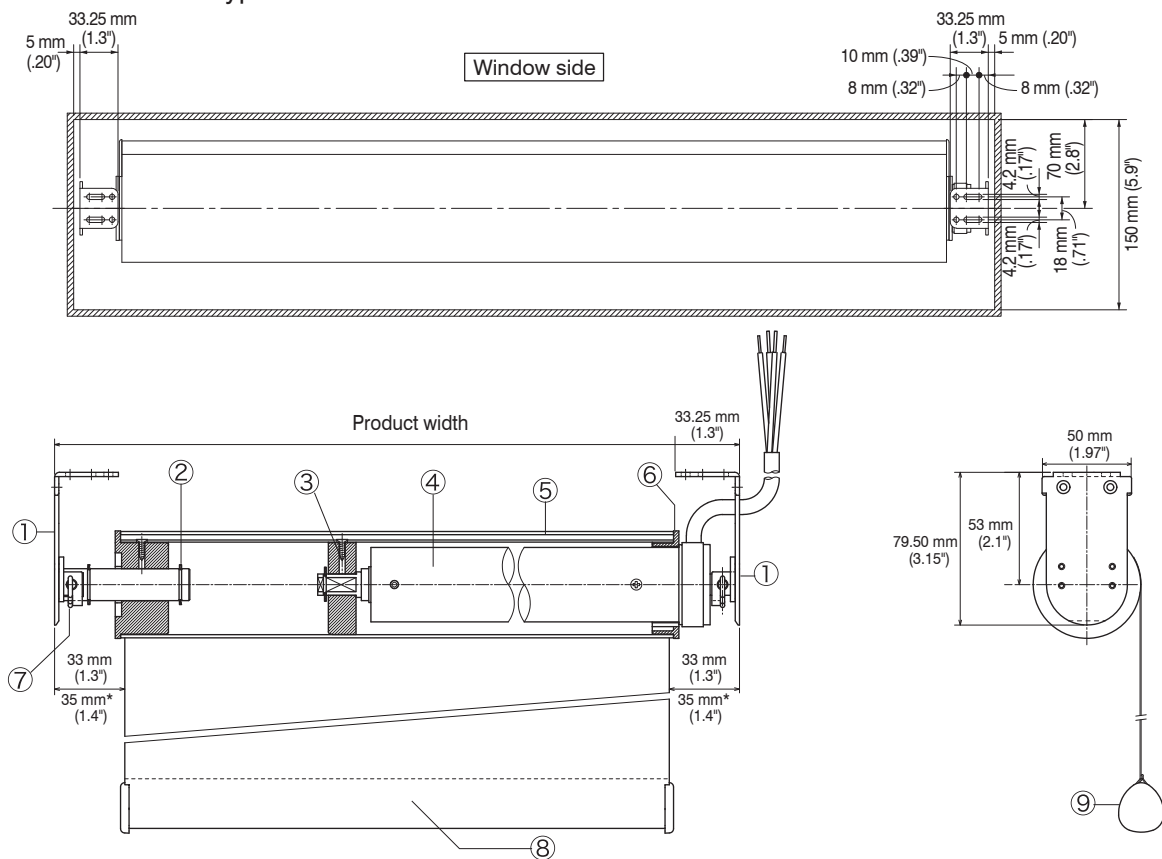
Structure Drawing - Roman Blind

Side Bracket Type



Structure Drawing - Roller Blind

Side Bracket Type



*Dimensions for the ratio of the width and height is 1 : 3 or more.

NBT 35 TUBULAR MOTOR (INBUILT RECEIVER)

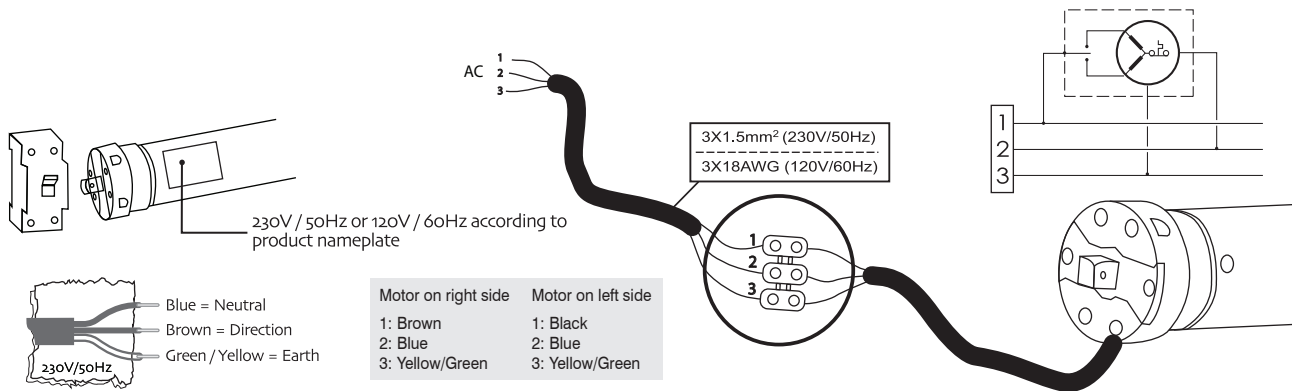
Components and Materials

Side Bracket Type / Head rail Type

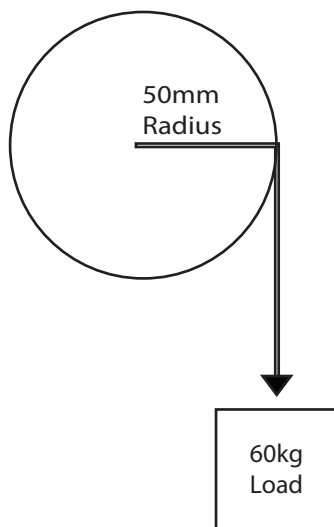
No.	Components	Material
①	NBT35 End Side Bracket	MS
②	NBT35 Pipe End	Polyacetal resin
③	NBT35 Drive	Polyacetal resin
④	NBT35 Tubular Motor	—
⑤	NBT35 Roller Pipe ø 50	Aluminum
⑥	NBT35 Limit Crown	Polyacetal resin
⑦	Split Pin	Steel
⑧	Weight Bar	Aluminum

No.	Components	Material
⑨	MT03 Weight Bar Cap	Polyethylene resin
⑩	Freel Head Rail	Aluminum
⑪	RS Slide - in Velcro	Polypropylene
⑫	Lift Cord ø 1.2	Polyester Fiber
⑬	RS Weight Bar 25	Steel
⑭	RS Weight Bar Cap 25	Polyethylene resin
⑮	NBT35 - RS Recoiling Pulley	Polyacetal resin
⑯	Freel Bracket	Polyacetal resin

Basic Wiring and Connecting Diagram



Formula of Motor Load Capacity



? N.m

$$\text{Torque (N.m)} = \text{Radius (mm)} \times \text{Load (kg)} \div 100$$

$$= 50 \text{ (mm)} \times 60 \text{ (kg)} \div 100 = 30 \text{ (N.m)}$$

? Kg

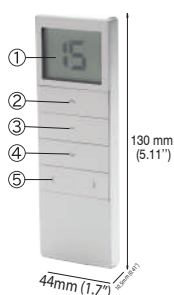
$$\text{Load (Kg)} = \text{Torque (N.m)} \times 100 \div \text{Radius (mm)}$$

$$= 30 \text{ (N.m)} \times 100 \div 50 \text{ (mm)} = 60 \text{ (kg)}$$

Remark: Calculation in diagram base on the Newton`s Law
(1 Inch=25.4mm 1 pound=0.454Kg)

NBT Remote Specification.

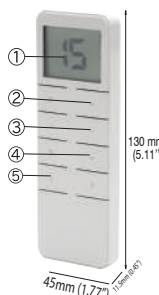
NBT 1602 15 Channel Remote



Specification

Source Voltage	DC 3V CR2450
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Ambient Temperature	-10-50°C (Non-condensing)
Reaching Distance	30 m (varies depending on the condition)
Product Size	W 44 mm × H 130 mm × D 10.5 mm
Product Weight	Approx. 58 g
Part Name 1	Address No. LED Indicator Lamp
Part Name 2	Open Button
Part Name 3	Stop Button
Part Name 4	Close Button
Part Name 5	Address No. Setting Button

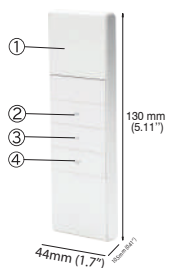
NBT 1603 Jog15 Channel Remote



Specification

Source Voltage	DC 3V CR2450
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Ambient Temperature	-10-50°C (Non-condensing)
Reaching Distance	30 m (varies depending on the condition)
Product Size	W 45 mm × H 130 mm × D 11.5 mm
Product Weight	Approx. 58 g
Part Name 1	Address No. LED Indicator Lamp
Part Name 2	Open Button
Part Name 3	Stop Button
Part Name 4	Close Button
Part Name 5	Address No. Setting Button

NBT 1660 Single Channel Double control Remote



Specification

Source Voltage	DC 3V CR2450
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Ambient Temperature	-10-50°C (Non-condensing)
Reaching Distance	30 m (varies depending on the condition)
Product Size	W 44 mm × H 130 mm × D 10.5 mm
Product Weight	Approx. 58 g
Part Name 1	Open Button
Part Name 2	Stop Button
Part Name 3	Close Button

NBT 1660 Jog Single Channel Remote



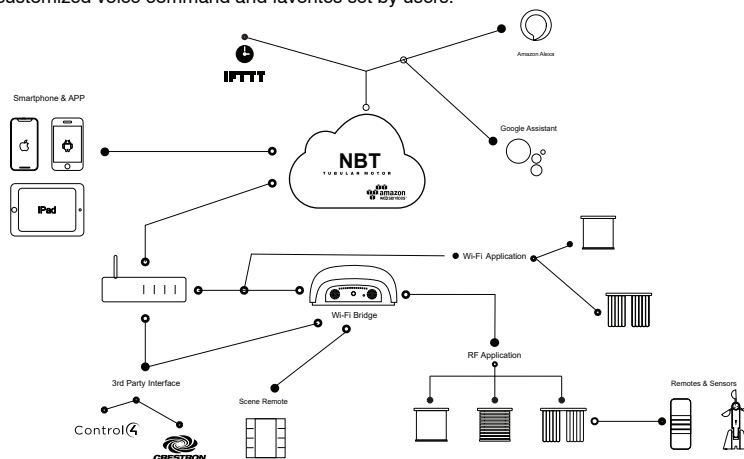
Specification

Source Voltage	DC 3V CR2450
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Ambient Temperature	-10-50°C (Non-condensing)
Reaching Distance	30 m (varies depending on the condition)
Product Size	W 45 mm × H 130 mm × D 11.5 mm
Product Weight	Approx. 58 g
Part Name 1	Open Button
Part Name 2	Stop Button
Part Name 3	Close Button

WIFI Bridge Specification.

WI - FI Hub

Skills & features developed, tested and published for both Amazon Alexa and Google Assistant. Enabled voice control and interaction of motorized window coverings through customized voice command and favorites set by users.



Amazon Alexa

Alexa, Start my day
 Alexa, Turn on scene
 Alexa, Turn on blind to 50%
 Alexa, Good Night.

Google Assistant

OK Google, Start my day
 OK Google, Open blind to 20%
 OK Google, Turn on scene
 OK Google, Good Night.

WI-FI Bridge

- 5V 1A(micro USB)
- 2.4GHz Wi-Fi, 433MHz
- RS485 (RJ1)
- 0°C a 40°C
- L 132.2 * W 75 * H 36 (mm)
- FC, CE

OTA Firmware Update

- Max. 30 motors
- Max. 20 scenes
- Max. 20 timers
- Max. 20 rooms

- Bi-directional Radio Control
- One Way Radio Control



WI - FI Hub Set up



ISO Version



Android Version