Newton Series

Newton10(N10)/ Newton (N20)/ Newton (N40)

Opening force 80% down
Running noise 20% down
Compared to conventional Industrial Sliding Door System



N10

Loading weight 1000N (About 100kg)

N20

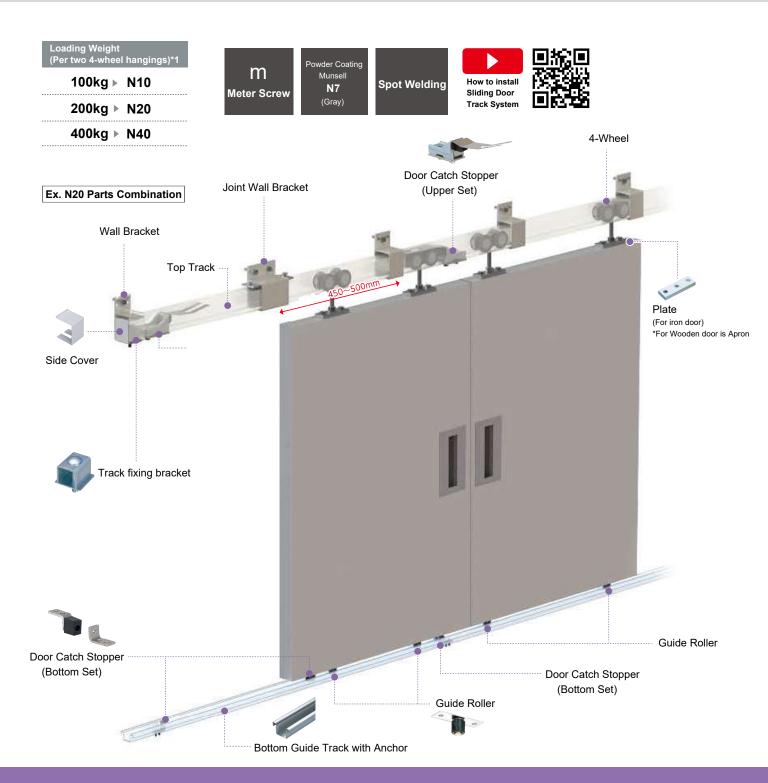
Loading weight 2000N (About 200kg)

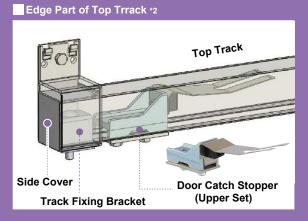
N40

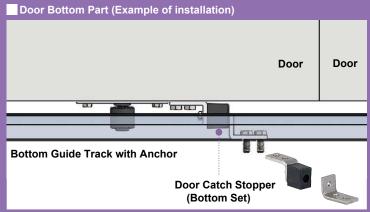
Loading weight 4000N (About 400kg)



Industrial Sliding Door System "Newton"







Main feature of Newton(N10/N20/N40) -

1 Enhanced quietness wheel

Running noise 20% down by using a resin material on the outer circumference of wheel. Can open and close quietly in night time.



2 Meter hanging bolt

Meter bolt is adopted considering market trend.

3 Flexible wheel axis

Wheel gets load equally even if the door inclines due to the wheel design that moves flexibly in all directions.





4 Free of Hexavalent chromium

Use the material without Hexavalent chromium ,which is environmentally friendly.







5 Smooth Runnability

Adapt a ball bearing on the axle bearing and resin material on the outer circumference on

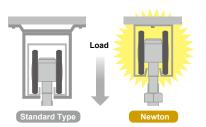
Also realize smooth runnability by contact less between wheel and slanted track

The reduction of opening and closing door force 80% helps womens open and close comfortably.



6 Adopt High-strength material

Can direct mount a wheel on inside track by adopting High-strength material.



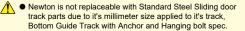
Newton 10 (Load Weight: 1000N(About 100kg)

Increased Quietness and Easy open & close

• Free of Hexavalent chromium processing (Friendly to environment)

Loading capacity: 1000N(about 100kg) at two of 4-wheels per one door. 600N(about 60kg) at two of 2-wheels per one door. 300N(about 30kg) at one trolley 2-wheel.

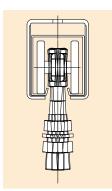
- Newton10 is Medium weight type between Steel Sliding door track system #2 and #3. Adopt an international standard unit(SI) each for names.
- Realize High-durability and light weight by adopting a Hi-strength welded galvanized steel(Powder coating) on the Track.
- Adopt a resin material on the outer circumference of wheel. New shape of track to prevent contact between wheel inside and track realizes quietness and smooth runnability.
- Wheel gets load equally even if the door or hanging tools incline due to the wheel design that moves flexibly in all directions.
 Curve track(R600) is also available.(Applied to 4-wheel and 2-wheel)
- Brackets are proceeded to avoid any scratch during installation work.
- Two variations of 4-wheel and 2-wheel to hang door and tools.



Comparison date: Door weight 980N(100kg) *House-test date

* Hanging two of 4-Wheels per one door

7. Changing the error through per end deer		
Steel Wheels	Opening force(N)	Running noise(dB)
	Initial value	initial value
Newton10(N10)	8.4N (0.9kgf)	46dB
Standard Type #3	41.2N (4.2kgf)	59dB



*Image of Flexible Wheel Axis

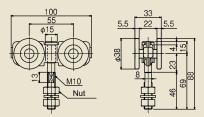
N 40

N10 Model

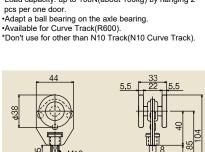


N10 4-wheel

N10-4WS

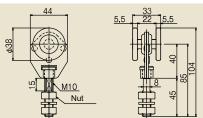


- •Materials: SPHC(Trivalent Chrome), Resin, etc. •Load capacity: up to 100N(about 100kg) by hanging 2



N10 2-Wheel

N10-2WS



- •Materials: SPHC(Trivalent Chrome), Resin, etc.
- •Load capacity: up to 600N (about 60kg) by hanging 2 pcs per one door.

 •Adapt a ball bearing on the axle bearing.

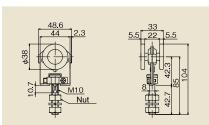
 •Available for Curve Track(R600).

 *Don't use for other than N10 Track(N10 Curve Track).



N10 2-Wheel

N10-2WS2

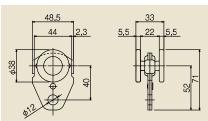


- •Materials: SPHC(Trivalent Chrome), Resin, etc.
 •Load capacity: up to 600N (about 60kg) by hanging 2 pcs per one door
- Adapt a ball bearing on the axle bearing.
- Hanging bolt is replaceable.Available for Curve Track(R600).
- *Don't use for other than N10 Track(N10 Curve Track).



N10 2-Wheel hanging Tools

N10-2TR



•Materials: SPHC(Trivalent Chrome), Resin, etc.

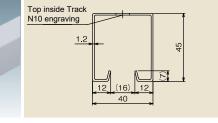
- Load capacity: up to 300N (about 30kg) per one wheel.
 Adapt a ball bearing on the axle bearing.

- •Available for Curve Track(R600).
 *Don't use for other than N10 Track(N10 Curve Track).



N10 Top Track

N₁₀-HR



•Materials: SPHC(Trivalent Chrome), Resin, etc.

•Track Length: 2000, 3000mm



N20 Bottom Guide Track with Anchor

22

•Materials: SGCC

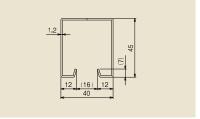
- •Track Length: 2000, 3000mm
- •With Anchor on both sides

N20-NGR



N10 Curve Top Track

N10-HR600R



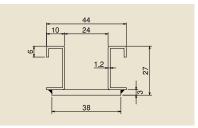
- •Materials: SGCC(Power coating, Munsell M7)
- •Standard R: R600(1/4 circle)
 •Cross-sectional shape is same with N10 Top Track
- •Available for made to order more than R600 *Can't direct mounting without bracket.



N20 Curve Guide Track
with Anchor

*Materials: SPHC(Lacquer-finished, Munsell M7)
-Standard R: R600(1/4 circle)
-Cross-sectional shape is different from N20 Bottom Guide

N20-NGR600R

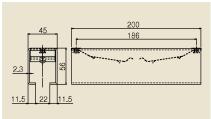


- Track with Anchor.
- •Available for made to order more than R600



N10 One-touch Joint

N10-OJ



•Materials: SPHC(Power coating, Munsell M7), etc •Connection parts for Tracks. Use between brackets to ioint the tracks

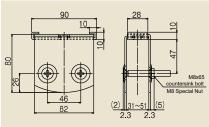


N10 Plate N₁₀-PL

- 56 75
- •Materials: SS400(Trivalent Chrome)
- Parts for connecting 4-wheel bolt and iron door.
 Recommendable screw: M10



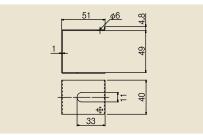
N10 Apron **N10-AP**



•Materials: SPHC(Power coating, Munsell M7), etc •Parts for connecting 2 or 4-wheel bolt and wooden door.



N10 Side Cover N10-SK

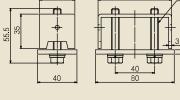


•Materials: SPCC(Power coating, Munsell M7) •Cover for blindfolding the edge of track.

In case of stopping wheels, please use door stopper.



N10 Door Stopper N10-CS



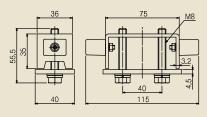
•Materials: SPHC(Trivalent Chrome), etc

•Use for stopping wheel drop out and door positioning.

*Not available for Curve Track.



N10 Door Stopper with Rubber



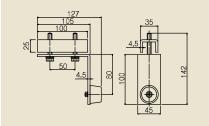
•Materials: SPHC(Power coating, Munsell M7), Black rubber, etc N10 Door Stopper for Use for stopping wheel drop out and door positioning.
 In case of big impact to be expected, please hit the door on

- *Not available for Curve Track



Track mounting

N₁₀-RCS

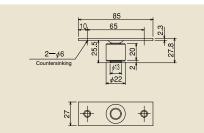


•Materials: SPHC(Power coating, Munsell M7), Black rubber, etc •Use with Bottom Door Stopper(Separately).
*Not available for Curve Track.

N10-CSQ



N20 Guide Roller N20-GRO

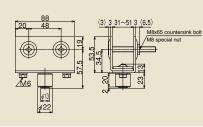


•Materials: SPHC(Power coating, Munsell M7), Resin, etc Recommendable screw: M5



N20 Guide Roller with Frame

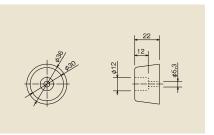
N20-GRAP



•Materials: SPHC(Power coating, Munsell M7), Resin, etc



N20-CSG

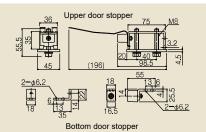


N20 Rubber Door Stopper •Material: Rubber(Black)

- •Door Stopper attached to vertical frame. •Recommendable screw: M5

N10 Door Catch Stopper

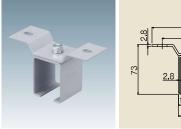
N₁₀-KCS



•Materials: SPHC(Trivalent Chrome), Rubber(Black), etc

- •1 set by Upper and bottom door stoppers
 •Please use this door stopper in case of bi-parting fitting.
- •Recommendable screw: M6
- *Not available for Curve Track

N 40



N10 Ceiling Bracket (Single Channel)

- Slotted hole 2-φ9.5×14 48 血 47
- •Materials: SPHC(Power coating, Munsell M7), etc
- •Assembly bolts: M8
 •Recommendable screw: M8

N10-OB



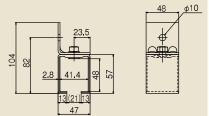
N10 Ceiling Bracket (Double Channel)

- Slotted hole 2**-**φ9.5×14
- •Materials: SPHC(Power coating, Munsell M7), etc Assembly bolts: M8
- •Recommendable screw: M8

N10-OB2



N10 Wall Bracket (Single Channel)



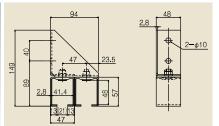
•Materials: SPHC(Power coating, Munsell M7), etc •Assembly bolts: M8

•Recommendable screw: M8

N10-SB



N10 Wall Bracket (Double Channel)

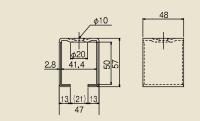


•Materials: SPHC(Power coating, Munsell M7), etc Assembly bolts: M8 •Recommendable screw: M8

N10-SBT2

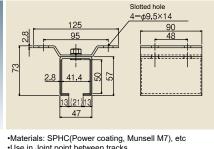


N10 Ceiling Bracket N10-BOX



•Materials: SPHC(Power coating, Munsell M7), etc •Recommendable screw: M8 Countersink bolt

N10 Joint Bracket for Ceiling (Single Channel)



- •Use in Joint point between tracks.
 •With Track connection plate
- Assembly bolts: M8 •Recommendable screw: M8
- N₁₀-OBT



N10 (Double Channel)

 $4-\phi 9.5 \times 14$ 90 48

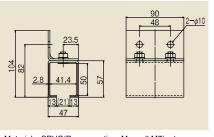
Joint Bracket for Ceiling

N10-OB2

- •Materials: SPHC(Power coating, Munsell M7), etc
- Use in Joint point between tracks.
 With Track connection plate
- •Assembly bolts: M8 Recommendable screw: M8



N10 Joint Bracket for Wall (Single Channel)



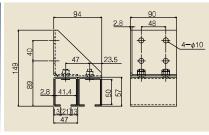
•Materials: SPHC(Power coating, Munsell M7), etc •Use in Joint point between tracks.

- •With Track connection plate
- Assembly bolts: M8
- •Recommendable screw: M8

N10-SBT



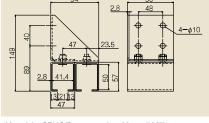
N10 (Double Channel)



Joint Bracket for Wall

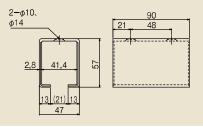
N10-SBT2

Joint Ceiling Bracket N10-TBOX



•Materials: SPHC(Power coating, Munsell M7), etc Use in Joint point between tracks.

- •With Track connection plate
- •Assembly bolts: M8
 •Recommendable screw: M8



•Materials: SPHC(Power coating, Munsell M7), etc

•Use in Joint point between tracks.
•Recommendable screw: M8 Countersink bolt