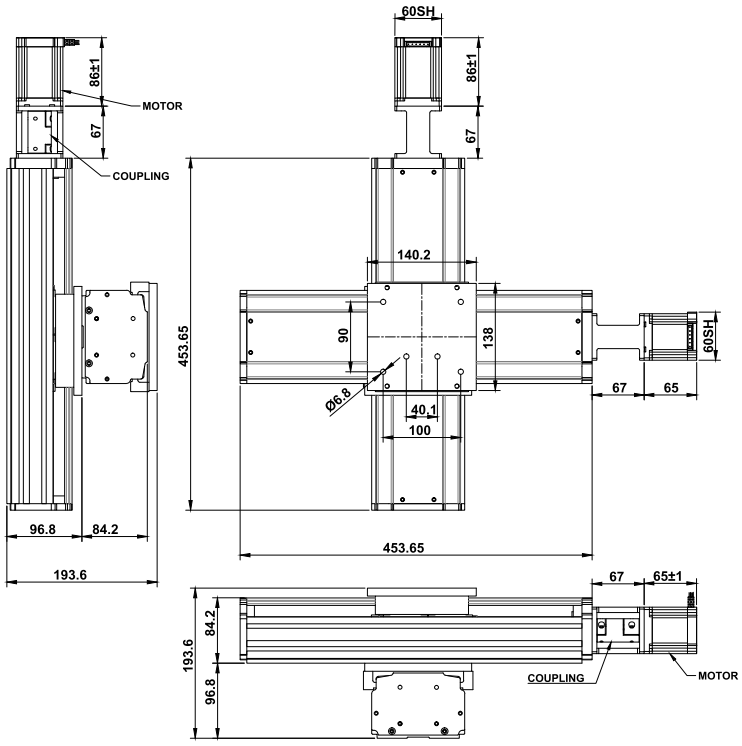
Bholanath
Precision Engineering Pvt.Ltd

Bholanath™
COMMITTED TO PRECISION
www.bholanath.in

X-Y & X Tables

Robust & Precision Motion Control Systems Of Linear Stepper Motor Drive For High Speed X-Y Table & X Table Positioning Mechanism. Linear Motion With High Response , Accurate , Slow Or Fast Speed, Jerk Free, Repeatability In Microns, positioning Accuracy Within ±10µm. By Using Bholanath Stepper Motors, Controllers & Linear Power Supplies High Precision Movement is Achieved in Both Forward & Reverse Direction.



To Help You For Your Requirement Of X or X-Y Table , Please Give The Following Data

(a) Travel Distance

(b) Feed Rate Per mm

(c) Total Load

(d) Repeatable Accuracy

Depending Upon The Above , We Will Design Guide Rod & Lead Screw System (economical) Or High Precision Linear Guideways And Linear Bearing System. One Stop Solution With Motors, Drives,linear Power Supplies & Controllers Are Available.

Office Address

Contact Us

Bholanath Precision Engineering Pvt.Ltd.

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Sonapur Lane,Bhandup (West),Mumbai - 400078,India.

FACTORY ADDRESS

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ROTARY INDEXING SYSTEMS

Bholanath™
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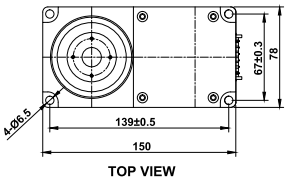
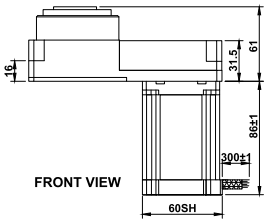
Rotary Table

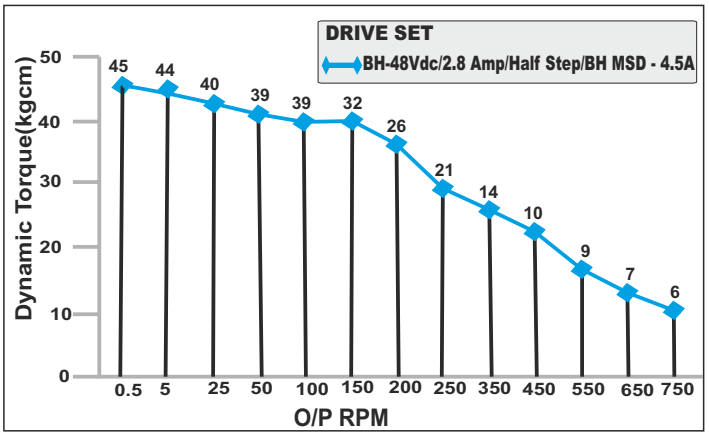
Stepper Motor Based Highly Accurate Rotary Indexing System Models- BH-RIS-01 & BH-RIS-02
Bholanath Rotary Indexing Systems are Used in all Automation Applications, Machine Tools and General Industry Applications
Bholanath Manufacture Stepper Motor ,Stepper Drives ,Power Supplies & Stepper Drive Controllers That Perfectly Compliment Rotary Indexing Systems.

BH-RIS-01

Note:- The Gear Ratio is 2:1







Max Load Capacity- 4.50kg At Plate Radius Of 10cm@ 0.5rpm
Max Dia Of Indexing Plate- 180cm At Load Of 0.5kg @ 0.5rpm

Positioning accuracy ± 0.05 Degree

RPM Ranges

Min RPM of Rotary Indexing Table-0.5
Max RPM of Rotary Indexing Table-750

Formula

Torque(T) =Total Load of rotary indexing Table in Kg (W) X Radius Of Rotary Indexing Table in cm(R)

Calculation Explanation

Example:-

Q1. If Radius Of Rotary Indexing Table is 10cm and required Rpm 25, then how much Weight the Table can Carry?

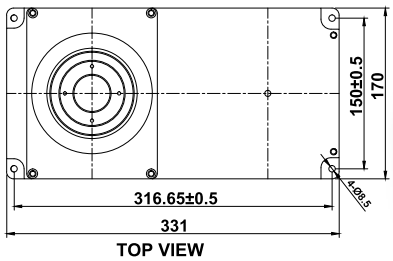
Solution:-

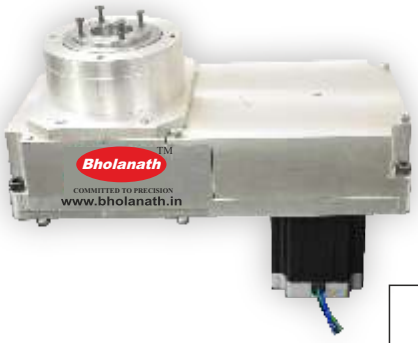
Given Data
R = 10cm, Rpm = 25
T = Torque of the motor at 25 rpm From the Graph
T = 40kgcm
W = ?

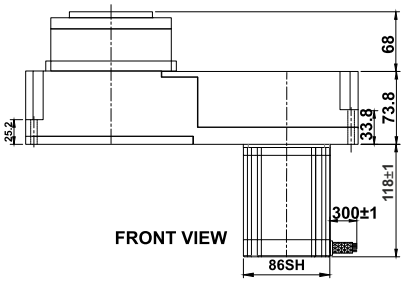
W = T/R
W = 40/10
W = 4 kg

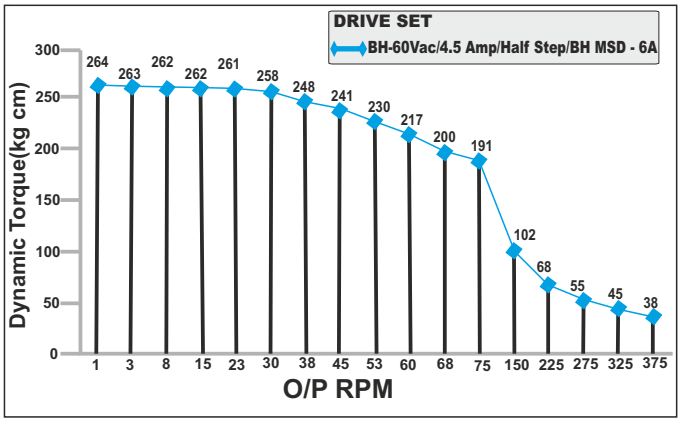
Model. BH-RIS-02

Note:- The Gear Ratio is 4:1









Max Load Capacity -26.4 kg At Plate Radius Of 10cm @ 1 rpm
Max Dia Of Indexing Plate - 264 Cm Load Of 1 Kg @ 1 Rpm

Positioning accuracy ± 0.05 Degree

RPM Ranges

Min Rpm-1
Max Rpm-375