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# Bafang H730 Hub Motor Introduction

Bafang Electric (Suzhou) Co., Ltd.



# H730 Automatic Gear Hub Motor

## *3-speed Auto-shift*

Featuring Bafang GVT technology \*, H730 , the shifting motor, the hub motor that integrate 3-speed gearbox, allowing the motor automatically adjust the gears in response to changes in bicycle speed, ensuring an optimal pedaling experience for a smoother and enjoyable journey.

*\*GVT is Bafang patented Gear Variable Transmission technology.*



# Overview

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## Auto speed change

H730 could change the speed automatically for an optimal cadence experience **with out manually operation.**

Leaves the rush hour behind and focusing on the fun journey.

※ In 20km commuting distance, 3 speed will auto shift roughly 100 times while with a normal rear derailleur will need rider to do that.

## Clean bike & belt friendly

The multi-speed freewheel will be 'invisible' thanks to the high integration of H730. Auto shift enable **gripless & wireless**  come true , which paved the way for a clean bike design.

※ Automatic internal shifting does not need the series of components required by external shifting, include: gear lever, gear cable, derailleur and etc. Make ebike cleaner.

## Maintenance-friendly solution

Avoid compromising shifting performance due to weather, mud, or external wear and tear.

Maintenance difficulty and frequency can be reduced to the most extent possible.

## eBike shifting companion

Designed specifically for eBikes rather than bikes, it offers superior compatibility in both installation and performance, ensuring a stable and comfortable shifting experience for eBikes



# How does riding experience enhanced by the auto 3-speed?

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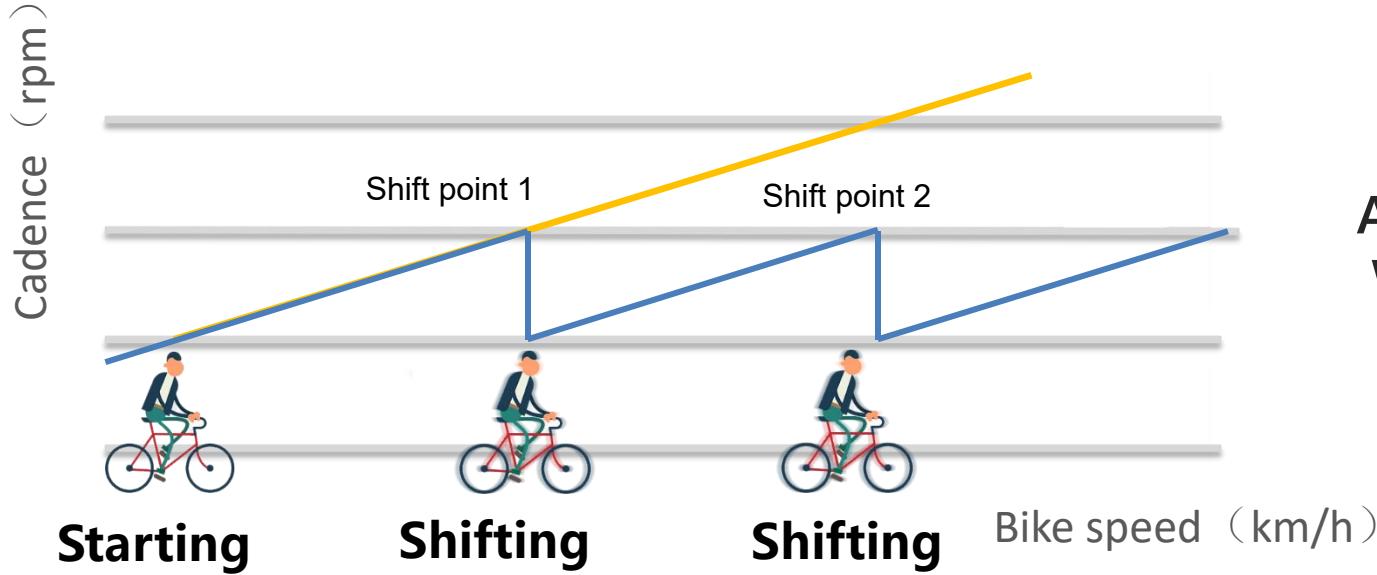
## Bafang Auto Shifting Motor For City

	H700	H730 (ADO)
Feature	Auto-2 speed	Auto-3 speed
Max torque	250W, 40 N.m	250W, 50 N.m
Gear ratio1	1	0.76
Gear ratio2	1.36	1
Gear ratio3	N/A	1.31
Total gear ration	136%	172%
Application	Daily commute	More complex urban terrain

	Scenario-Specific Benefits	User experience	Science Behind the Scene
Low Gear :0.76	<ul style="list-style-type: none"> <li>Starting up</li> <li>Climbing the hill</li> </ul>	Easy and effortless	Similar as the principle of extranal shiting, the low gear allowing riders to use less power and appropriate cadence, together with motor support to have a quick bike start up or allow easy uphill climbing.
Gear Ratio 1.00	<ul style="list-style-type: none"> <li>City crusing</li> </ul>	Smooth feeling when gear changing	The medium gear, with a ratio of 1.0, means that the motor's output RPM is equal to the input RPM, as a transitional gear between high and low gear, to have more smooth riding feeling during switching.
Gear Ratio 1.31	<ul style="list-style-type: none"> <li>High speed crusing</li> <li>Downhill</li> </ul>	Always stay in comfort cadence.	Auto switch to the high gear when reaching switching speed point, that ensure rider stay in comfort cadence range.



# Advantages



Cadence of H730

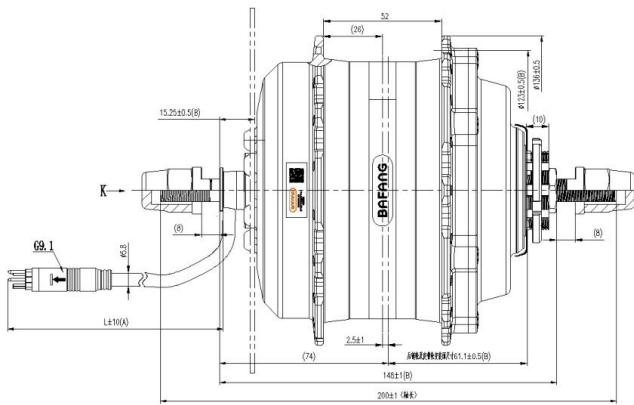
Cadence without shifting

25Km/h Setting		
Wheel Size	Upshift point 1 (km/h) 2nd Gear	Upshift point 2 (km/h) 3rd Gear
700C/27.5"	12~15	19~22
28"	12.5~15.5	19.5~22.5

## Technical details

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Item	Parameter
Rated Power	250 W
Max torque	50 N.m
OLD	148mm
Shift control	Auto
Gears	3
Gear ratio	0.76 1 1.307
Drive option	Chain or belt
Weight	3.6Kg

## Internal structure of H730



## Internal structure of H730

