



This motorized roller with brushless technology 24VDC, used with circuit board CB-030, is the most powerful roller of our products, and on the market. It is designed for heavy loads transport, it can be used for roller conveyors with light to medium loads, and for belt conveyor with classic or plastic Intralox belts.

ADVANTAGES

POWERFUL AND ROBUST

The roller is made of steel end cap with precision bearings, and of a gearmotor of more than 850N of tangential force on start up, in a 3.25mm thick tube. The roller PM605KT can transport a load up to 1000kg, with a 15m/min speed.

DYNAMIC BRAKING

The instantaneous braking is made electronically, without any wearing part.

PULSE SIGNAL

This signal allows the system to measure data like distance, speed...

ERROR SIGNAL

In case of default in the motor or circuit board, signals will be sent to the PLC.

ACCELERATION / DECELERATION

It is possible to adjust the transport speed (from 0 to 2.5 sec) with a soft acceleration and deceleration allowing the safe transport of loads that could be unstable.

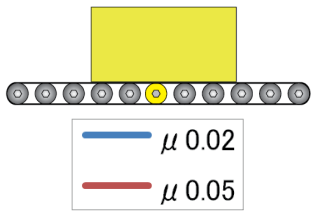
SPEED VARIATION

20 speeds (by external tension) are available for the optimum setting.

INTEGRATED PROTECTION

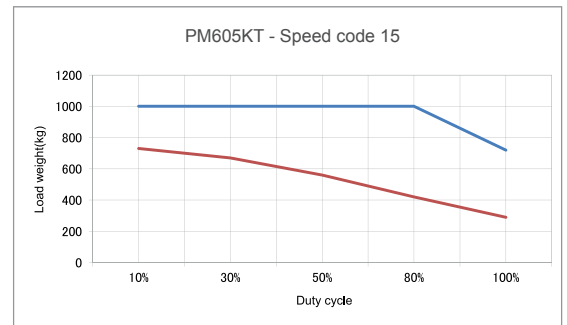
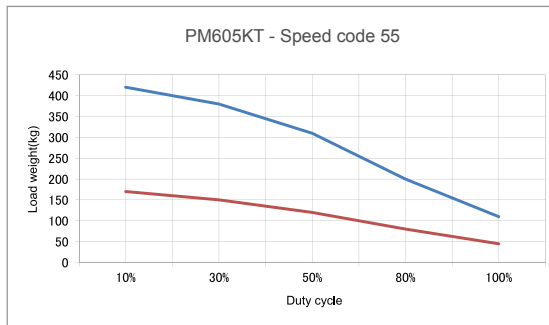
This function protects the motor and the circuit board against over-loading, over-heating, wiring mistakes...

TRANSFER CAPACITY

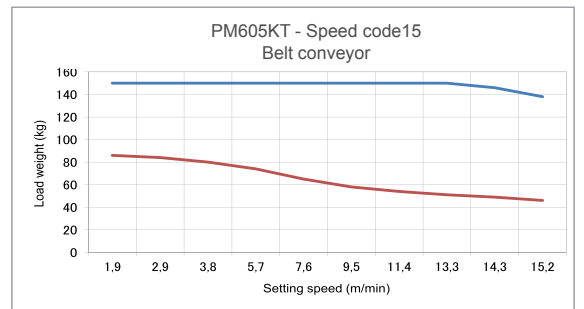
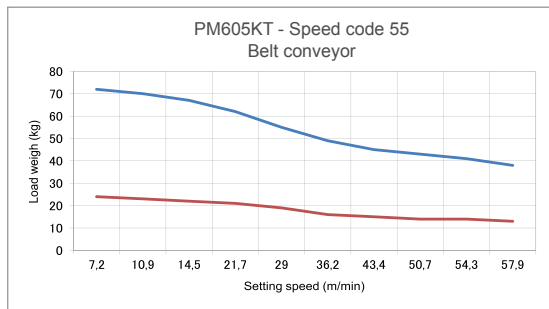
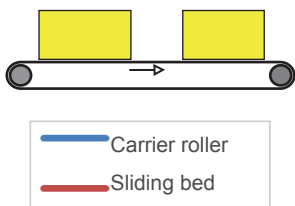


* μ : coefficient of rolling friction FYI : 10 slave rollers driven by ribbed belts with a pitch of 155mm.

ROLLER CONVEYOR



BELT CONVEYOR



Belt conveyor dimension (lxL): 1mx3m

Belt conveyor dimension (lxL): 1mx4m

(These curves are given as a guide)

OPTIONS / VARIANTS

Motor shaft :



Plain hexagonal

Shaft on the non-motor side :



Hexagonal spring loaded



Set screw

Protection index :



IP 54



IP 65



Cold room
-30°

Material :



Zinc-plated steel

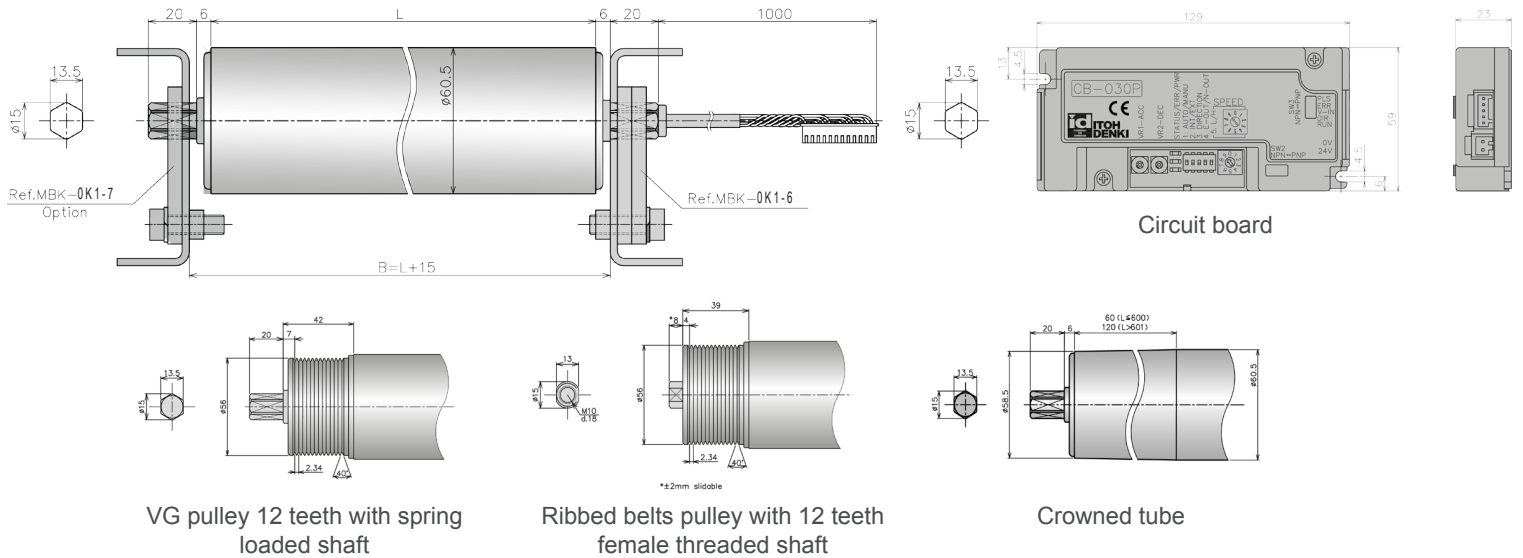


Stainless steel

Contact us for more specifics.

The elements of this document are ind

STRUCTURES AND DIMENSIONS



Circuit board

VG pulley 12 teeth with spring loaded shaft

Ribbed belts pulley with 12 teeth female threaded shaft

Crowned tube

ELECTRO-MECHANICAL CHARACTERISTICS

| CHARACTERISTICS | | SPEED CODE 15 | SPEED CODE 55 | |
|----------------------------|---|--|-------------------------------|---------|
| ELECTRO-MECHANICAL | Motor | Direct current and brushless 24 VDC | | |
| | Absorbed power (W) | nominal | 41 à 92 | |
| | | start-up | 168 | |
| | Tangential force (N) | nominal | 174 - 308 | 48 - 85 |
| | | start-up | 848 | 235 |
| | Operation | Continuous or intermittent 1800 starts/h max. Minimum duty cycle : 1s ON / 1s OFF | | |
| | Brake | Dynamic braking | | |
| | Nominal speed (m/min) | 2,2 - 17,2 | 8,2 - 65,4 | |
| Protection index | IP54, cold room (Contact us for other classes) | | | |
| Lenght (contact us L>1500) | 360 à 1500 mm | 340 à 1500 mm | | |
| Static load max. | 360 < L < 1500 = 160kg per roller | | | |
| CONTROL | Input signal | Start / Stop, Direction of rotation | | |
| | Selection of rotation direction | By dip switch (CW/CCW) | | |
| | Speed setting | 20 speeds with a rotating switch or 20 speeds by external analog voltage of 0-10VDC | | |
| | Acceleration and deceleration | Adjustable with potentiometer from 0 to 2,5s | | |
| | Pulse signal out-put | 89,90 pulse / roller rotation | 25,28 pulse / roller rotation | |
| | Error signal in-put | Over-heating, wiring error, under-voltage, over-voltage... | | |
| Protection | Against polarity reversal 0/24V and power backfeed, fuse, integrated thermal protection | | | |

Shape :



Crowned

Pulley :



Ribbed

Lagging :

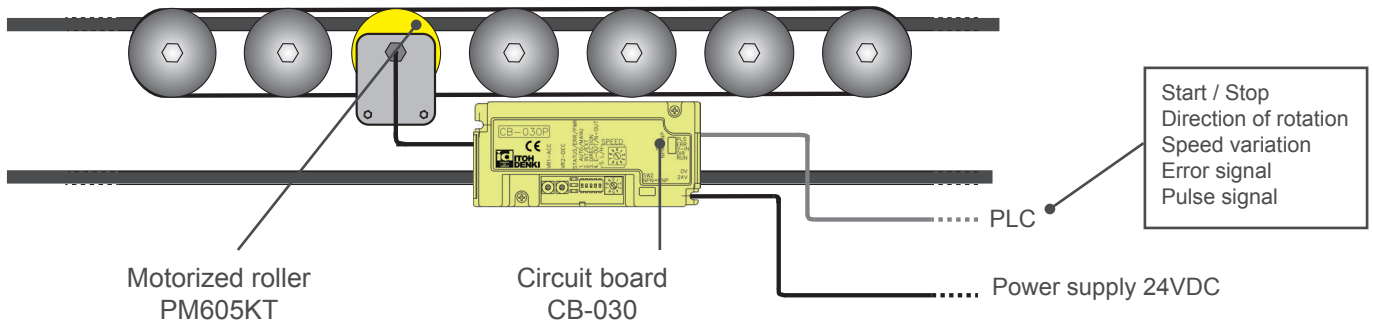


Polyurethane

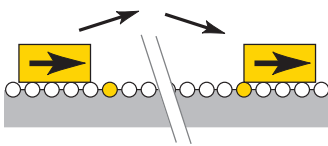


Natural rubber / nitrile

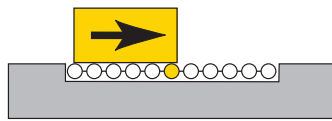
WIRING



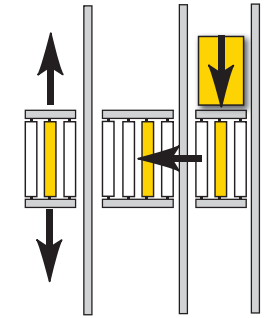
APPLICATIONS



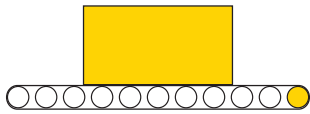
ACCELERATION / DECELERATION



FLOOR CONVEYOR



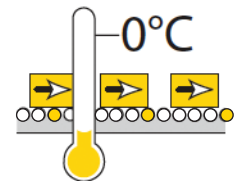
90° ANGLE TRANSFER



BELT CONVEYOR



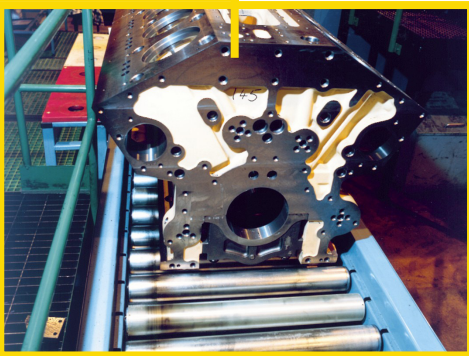
AREAS CONTROL (ZPA)



COLD ROOM

REFERENCES

ENGINES CONVEYOR



PALETTES STORAGE



PACKAGES MANAGEMENT



CONTACT

ITOH DENKI EUROPE S.A.S.

490 Av. des Jourdiés
Z.A.E. les Jourdiés
74800 St Pierre en Faucigny - France
Tél. : +33 (0)4 50 03 09 99
Fax : +33 (0)4 50 03 07 60
E-mail : info@itoh-denki.com

UK BRANCH OFFICE

Suite 1 Trinity Space Centre
Waldorf Way
Wakefield WF2 8DH - UK
Tel : +44 (0)1924 366 539
Fax : +33 (0)4 50 03 07 60
E-mail : info@itoh-denki.com

GERMAN BRANCH OFFICE

Neumeyerstraße 48
90411 NÜRNBERG - Deutschland
Tel : +49 911 25 26 - 200
Fax : +49 911 25 26 - 201
E-mail : info@itoh-denki.de

WWW.ITOH-DENKI.COM