ITOH DENKI

TECHNOLOGY FOR TOMORROW ®

PM605XE SERIE

TECHNICAL DOCUMENTATION

POWER MOLLER®

SUMMARY

1 - Presentation of the Power Moller® product range

POWER MOLLER®

Electronic

- Standard circuit board
  - CB018
  - CB016 | CB016B
  - CB030
  - CBM-105
- ZPA circuit board
  - HB510 | HB510B
  - HBK-608
  - LCX-901
- Module circuit board
  - HBR-605

Motorized rollers

- AC Induction
  - Ø50
    - PM500 BS (K) — 150 kg
    - PM500 BU (KU) — 150 kg
    - PM500 BS-B (KB) — 150 kg — mechanical brake
- DC Brushless
  - External circuit board
    - Ø32
      - PM320 HS (32HS) — 50 kg — CB018
    - Ø50
      - PM500 FE (50E) — 300 kg — CBM-105 / HB510
      - PM500 FE-B (50EB) — 300 kg — CB016B / HB510B — mechanical brake
    - Ø60,5
      - PM605 FE (60E) — 500 kg — CBM-105 / HB510
      - PM605 FE-B (60EB) — 500 kg — CB016B / HB510B — mechanical brake
      - PM605 KT — 1000 kg — CB030 / HBK-608
  - Integrated circuit board
    - Ø50
      - PM500 ME — 50 kg — LCX-901
      - PM500 XE — 300 kg — LCX-901
    - Ø60,5
      - PM605 XE (60XE) — 500 kg — LCX-901

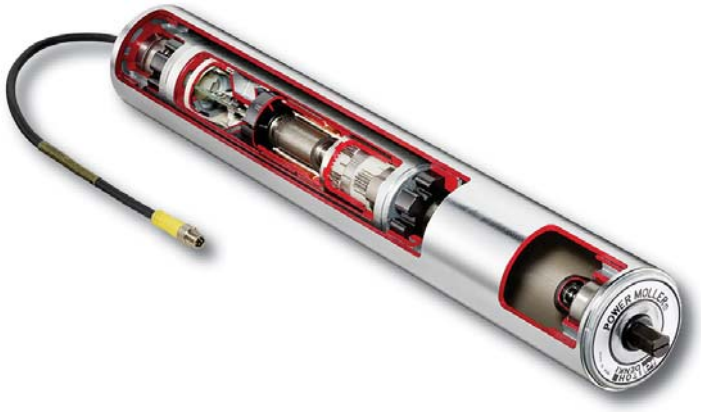
Module

- 90° transfer
  - F-RAT-S — HBR605 / CBM-105 / CBR-305
- 45° transfer
  - POP-UP — CBM-105 / CBR-305

[ ]	Corresponding circuit board
kg	Max load to be conveyed
(60E)	Former part number
◎	Mechanical brake version

2 - Presentation of the series

The brushless motorized roller PM605XE has the circuit board and gear-motor integrated within the roller allowing a good tightness, easy wiring with M8-5pins connector and space saving.
It can be easily controlled by: PLC, Asi-Bus via Bihl & Wiedemann module, or logic sensors with integrated ZPA from Wenglor, etc. It is designed for conveyor lines of light and medium loads (up to 300Kg max), in order preparation, in distribution, and for assembly lines. The motorized roller PM500XE is the ideal solution to answer to the difficulties coming from the working environment (liquid, dust, ...).



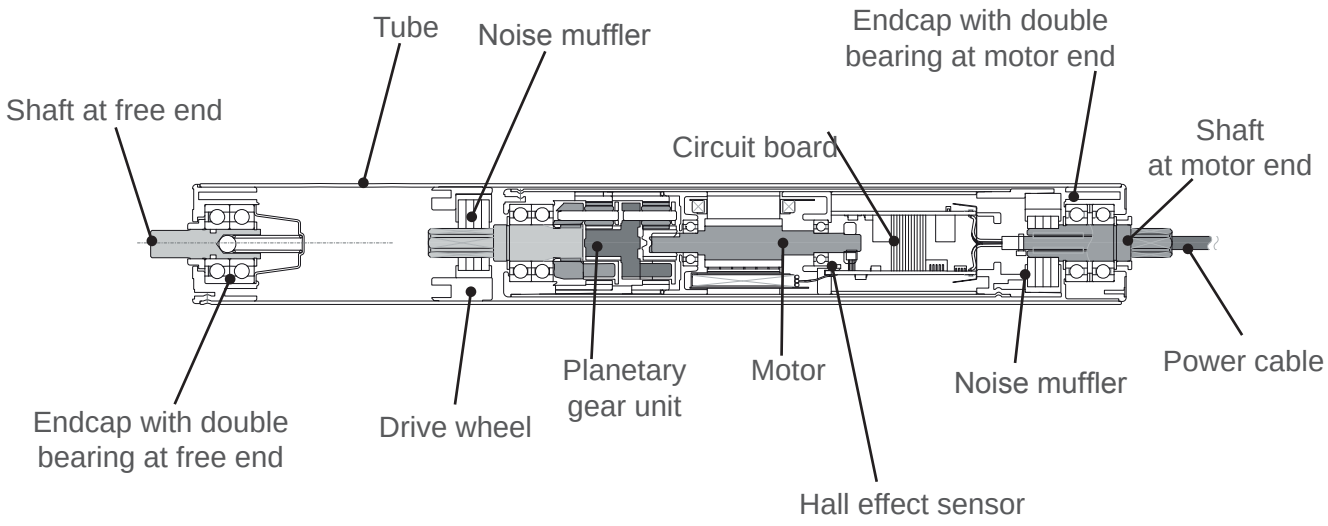
General characteristics

ELECTROMECHANICAL	Direct current and brushless 24 VDC		24 VDC (+ /- 10 %) – ripple ratio < 10 %		
	Isolation class		E		
	Operation at 40°C	Continuous	100%		
		Intermittent	1440 starts / hour maxi Minimum duty cycle= 1 s ON / 1,5 s OFF ED = ON / (ON+OFF) ≤ 40 %		
	Brake		Dynamic braking		
	Protection index		IP54 (IP65 or cold room, contact us))		
	Cable length		300 mm with M8 connector – 5 pins		
	Protection		Against overload by integrated thermistor Against polarity reversal 0-24VDC (integrated LED) Current limitation within the circuit board Integrated fuse 5A Thermal proctection (>95°C for the circuit board) Protection against under supply Protection against induced voltage		
	Environment		0 / 40 °C - no condensation - or corrosive or explosive atmosphere Vibrations < 0,5 G		
	Sound level		≈ 54 dB nominal 1 metre away		
	Speed code (m/min)		17	30	60
	Reduction ratio		1/44,9	1/26,67	1/12,64
CONTROL	Circuit board functions		Start / Stop (input current 7,3 mA to 24V) Inversion of transfer direction (input current 7,3 mA à 24V) Constant torque speed variation Speed variation by injection of external voltage 0-10VDC or by fixed resistor.		

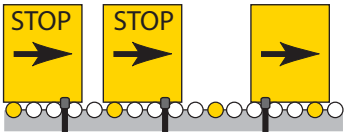
MECHANICAL

Shaft and flange motor side :	 Plain hexagonal  Threaded hexagonal	• Plain hexagonal 11.1 mm shaft or M12 threaded • Heat-treated and phosphated steel shaft • Zamac (zinc, aluminium and magnesium alloy) endcaps
Shaft and flange free side :	 Hexagonal spring loaded  Set screw	• Smooth hexagonal 11.1mm shaft with spring or fixed Ø 15mm x 7mm, 12 mm M8 threaded flat metal strip • Heat-treated and phosphated steel shaft • Zamac (zinc, aluminium and magnesium alloy) flange
Tube :	 Zinc plated steel  Stainless steel	• Tube in precision cold drawn steel, ST37-2 quality, outer diam. 60,5mm • Zinc-coated or stainless steel (304L)
Pulleys :	 Ribbed screw  Spring screw	Pulleys for : • Ribbed belts,8 teeth, Zamac (zinc, aluminium and magnesium alloy) • Hexagonal shaft with spring or M8 threaded shaft
Lagging :	 Polyurethane  Natural rubber / nitrile	• Polymerized polyurethane coating, thickness 4,75mm, 90ShA, grey (Ø finished outside 70mm) • Natural hot vulcanized rubber coating, thickness 4,75mm, 60~65 ShA (Ø finished outside de 70mm)

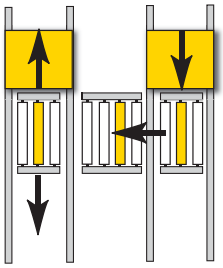
Structure and description



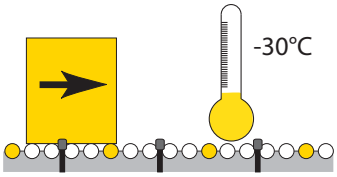
Applications



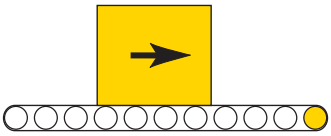
Zero pressure accumulation (ZPA)



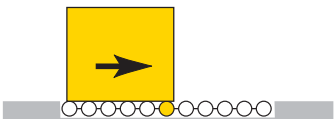
90° transfer



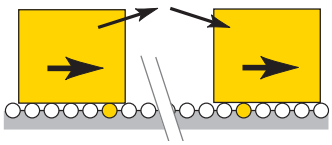
Cold room



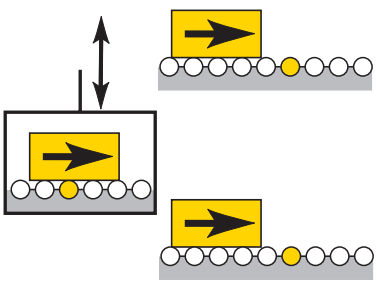
Belt conveyor



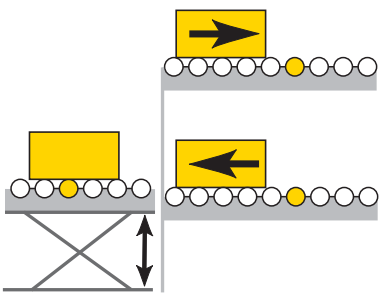
Floor conveyor



Acceleration / Decelaration



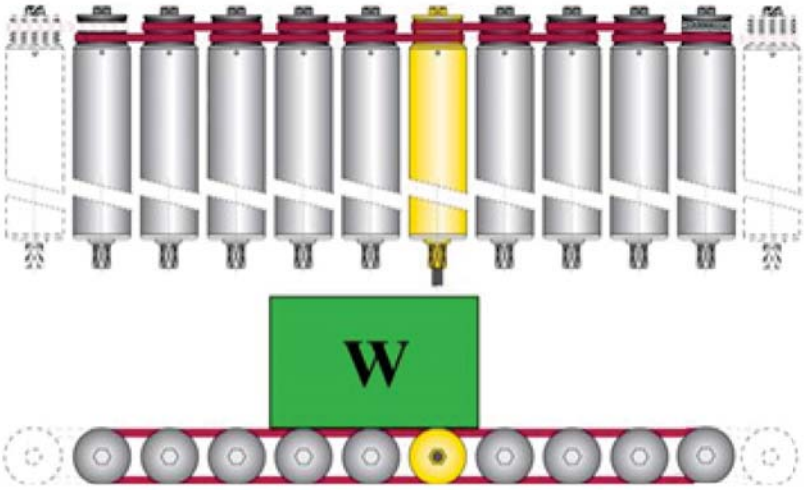
Lift



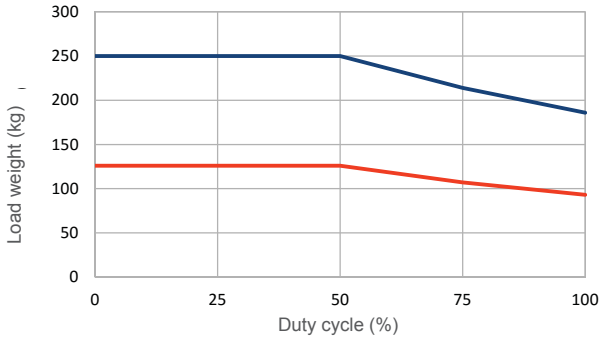
Lift table

3 - TRANSFER CAPACITY

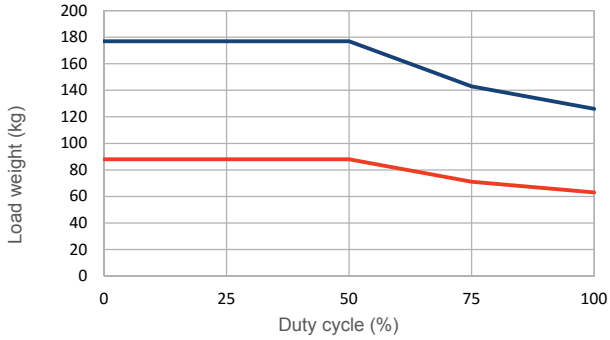
Driven by ribbed belts



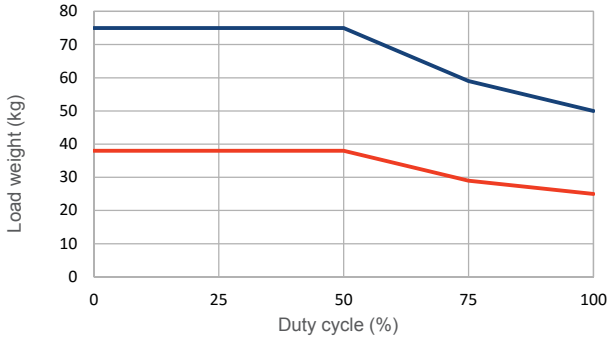
PM605XE 17m/min



PM605XE 30m/min



PM605XE 60m/min



- Load to transport
  - Plastic box (μ = 0,03)
  - Cardboard box (μ = 0,06)
- 9 slave rollers driven by 1 motorized roller
- Ambient temperature of 30 ° C

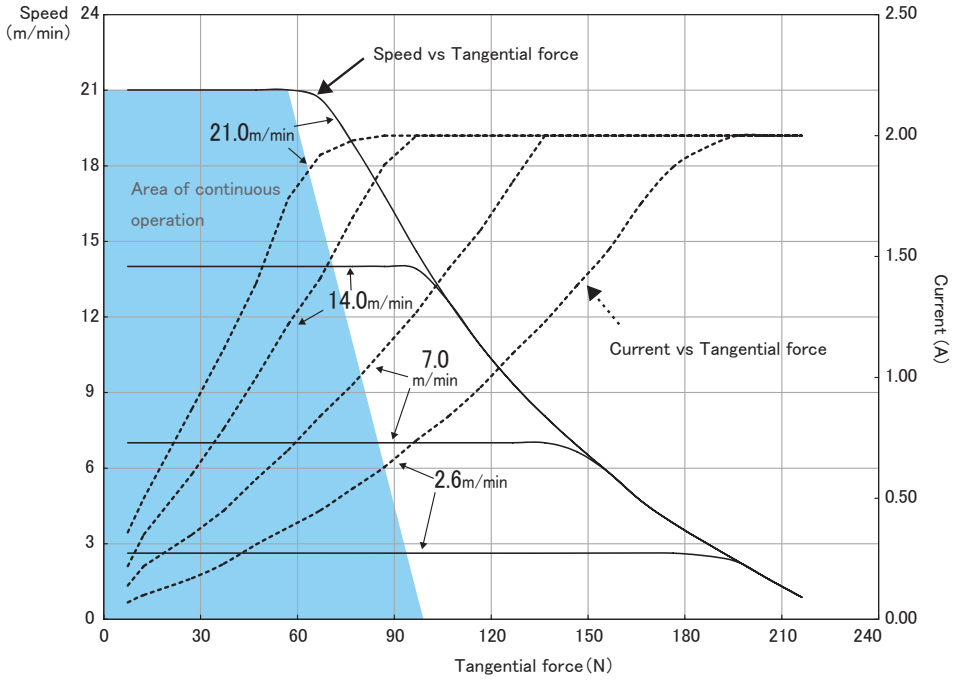
These curves are given as a guide. Transfer capacity depends on the nature and quality of the transported load, the belt tension, the quality of the bearings, the nature of the sleeves, the ambient temperature...

4 - TECHNICAL DATAS ACCORDING TO SPEED CODE

SPEED CODE 17

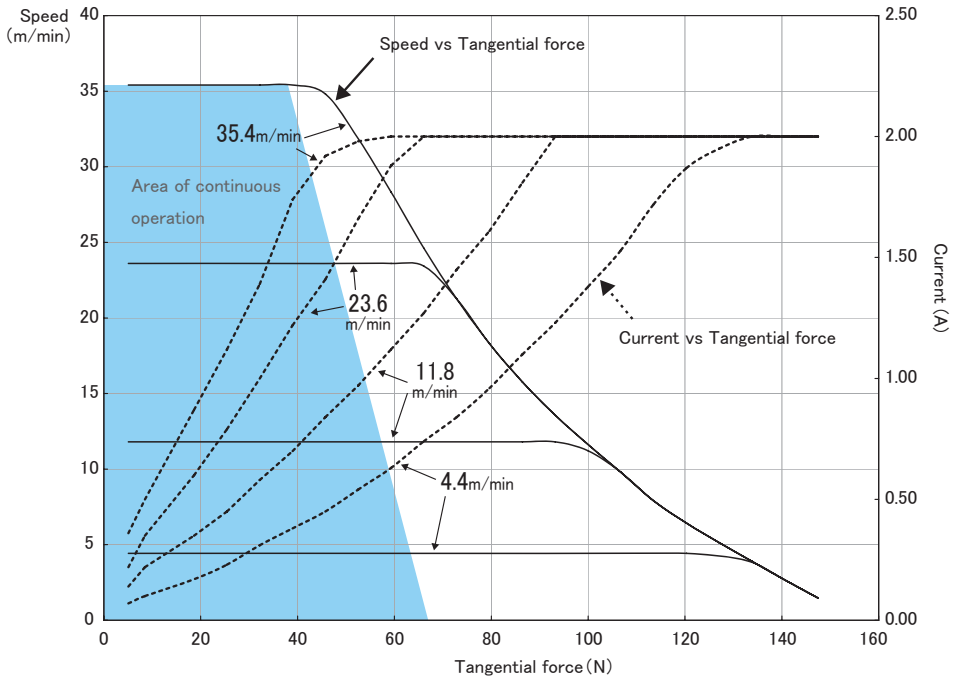
V (m/min)+/-3%		Speed selection		Tangential force (N)		Torque (Nm)		Current(A)		
No load	Nominal	By resistor (Ω)	Via external voltage (V)	Nominal	Starting	Nominal	Starting	No load	Nominal	Starting
21,0	21,0	≥ 9,1K	9,65 ± 0,35	58,0	215	1,74	6,5	0,5	1,7	2,0
19,3	19,3	6,2K	8,5 ± 0,2	63,0		1,89		0,5	1,7	
15,8	15,8	4,3K	7,5 ± 0,2	67,0		2,04		0,4	1,6	
14,0	14,0	3,3K	6,5 ± 0,2	70,0		2,13		0,4	1,5	
12,3	12,3	2,2K	5,5 ± 0,2	73,0		2,22		0,3	1,4	
10,5	10,5	1,8K	4,5 ± 0,2	78,0		2,37		0,3	1,3	
8,5	8,5	1,2K	3,5 ± 0,2	80,0		2,44		0,3	1,1	
7,0	7,0	0,75K	2,5 ± 0,2	83,0		2,51		0,2	1,0	
5,3	5,3	0,43K	1,5 ± 0,2	88,0		2,66		0,2	0,9	
3,5	3,5	≤ 0,12K	0,45 ± 0,45	93,0		2,81		0,2	0,8	

Reduction ratio : 1/44,9



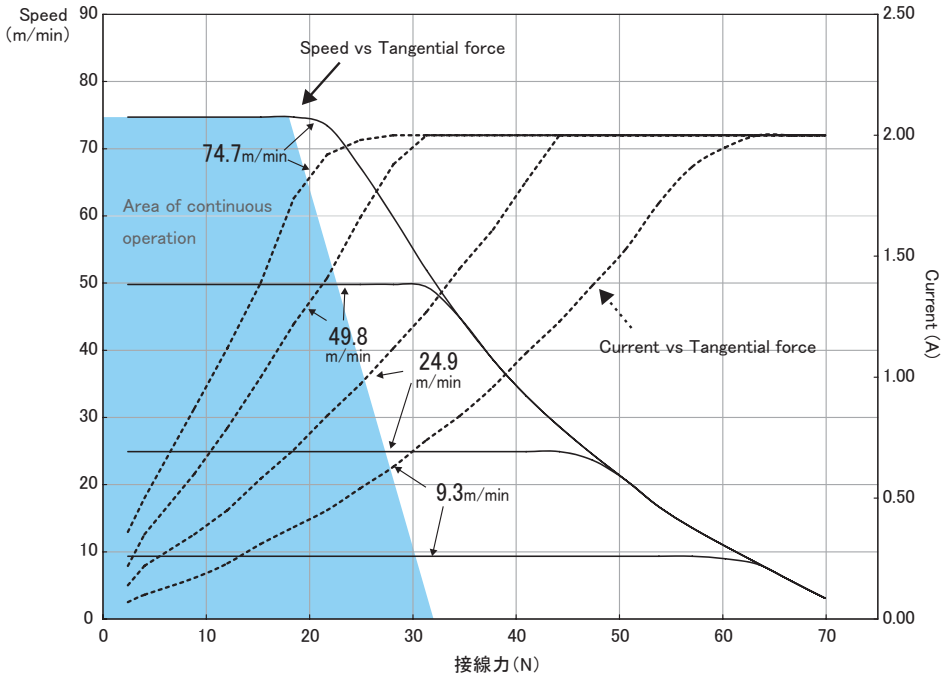
SPEED CODE 30

V (m/min)+/-3%		Speed selection		Tangential force (N)		Torque (Nm)		Current(A)		
No load	Nominal	By resistor (Ω)	Via external voltage (V)	Nominal	Starting	Nominal	Starting	No load	Nominal	Starting
35,4	35,4	≥ 9,1K	9,65 ± 0,35	39,0	147	0,98	3,68	0,5	1,7	2,0
32,4	32,4	6,2K	8,5 ± 0,2	43,0		1,07		0,5	1,7	
26,5	26,5	4,3K	7,5 ± 0,2	46,0		1,15		0,4	1,6	
23,6	23,6	3,3K	6,5 ± 0,2	48,0		1,21		0,4	1,5	
20,6	20,6	2,2K	5,5 ± 0,2	50,0		1,26		0,3	1,4	
17,7	17,7	1,8K	4,5 ± 0,2	53,0		1,34		0,3	1,3	
14,3	14,3	1,2K	3,5 ± 0,2	55,0		1,42		0,3	1,1	
11,8	11,8	0,75K	2,5 ± 0,2	57,0		1,5		0,2	1,0	
8,8	8,8	0,43K	1,5 ± 0,2	60,0		1,59		0,2	0,9	
5,9	5,9	≤ 0,12K	0,45 ± 0,45	63,0		1,59		0,2	0,8	

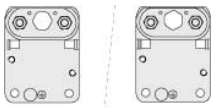
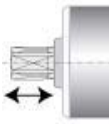
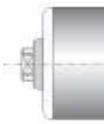
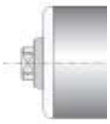
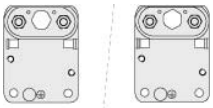
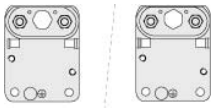
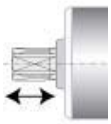
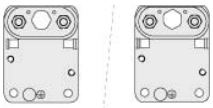
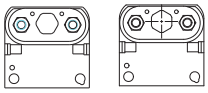
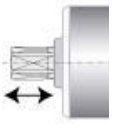
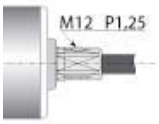
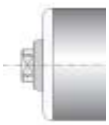
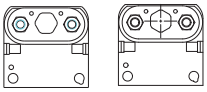
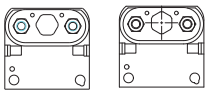
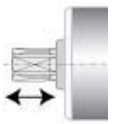
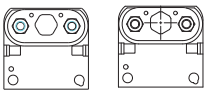


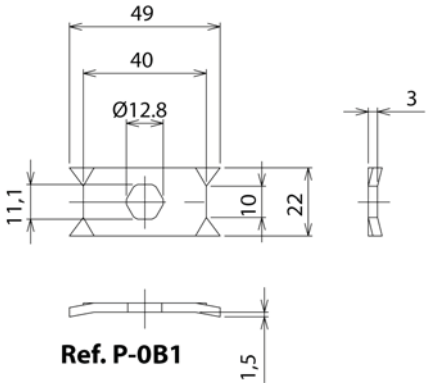
SPEED CODE 60

V (m/min)+/-3%		Speed selection		Tangential force (N)		Torque (Nm)		Current(A)		
No load	Nominal	By resistor (Ω)	Via external voltage (V)	Nominal	Starting	Nominal	Starting	No load	Nominal	Starting
74,7	74,7	≥ 9,1K	9,65 ± 0,35	19,0	70	0,56	2,1	0,5	1,7	2,0
68,5	68,5	6,2K	8,5 ± 0,2	20,0		0,61		0,5	1,7	
56,0	56,0	4,3K	7,5 ± 0,2	22,0		0,66		0,4	1,6	
49,8	49,8	3,3K	6,5 ± 0,2	23,0		0,69		0,4	1,5	
43,6	43,6	2,2K	5,5 ± 0,2	24,0		0,72		0,3	1,4	
37,3	37,3	1,8K	4,5 ± 0,2	25,0		0,77		0,3	1,3	
30,2	30,2	1,2K	3,5 ± 0,2	26,0		0,79		0,3	1,1	
24,9	24,9	0,75K	2,5 ± 0,2	27,0		0,81		0,2	1,0	
18,7	18,7	0,43K	1,5 ± 0,2	28,0		0,86		0,2	0,9	
12,4	12,4	≤ 0,12K	0,45 ± 0,45	30,0		0,91		0,2	0,8	

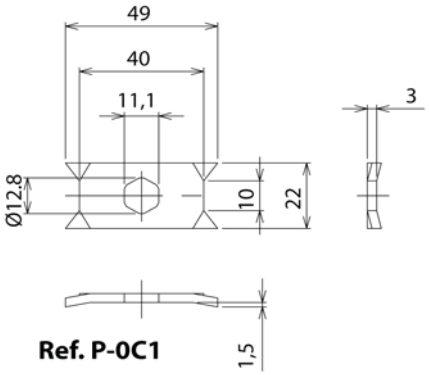


5 - Presentation of the different fixing options

Free side fixing		Motor side fixing	
 **Ref : A-071-G / A-081-G** *(optional)*			 **Ref : P-0B1 / P-0C1** *(obligatory)*
 **Vis M8 x 14** *(obligatory)*			 **Ref : P-0B1 / P-0C1** *(obligatory)*
			 **Ref : A-071-G / A-081-G** *(obligatory)*
 **Ref : A-071-G / A-081-G** *(optional)*			 **Ref : A-071-G / A-081-G** *(obligatory)*
 **Ref : C-071 / C-081** *(optional)*			 **Ref : P-0B1 / P-0C1** *(obligatory)*
 **Vis M8 x 14** *(obligatory)*			 **Ref : P-0B1 / P-0C1** *(obligatory)*
			 **Ref : C-071 / C-081** *(optional)*
 **Ref : C-071 / C-081** *(optional)*			 **Ref : C-071 / C-081** *(optional)*

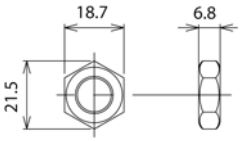


Ref. P-0B1

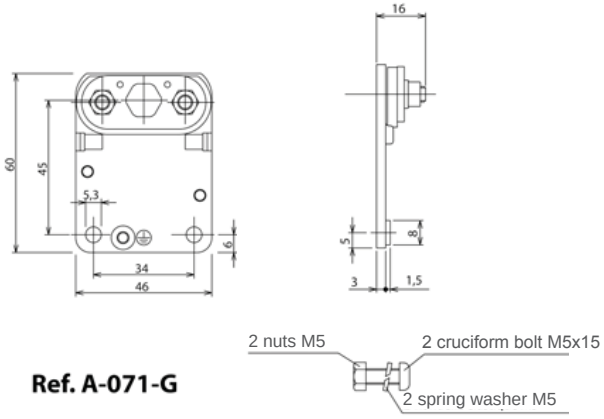


Ref. P-0C1

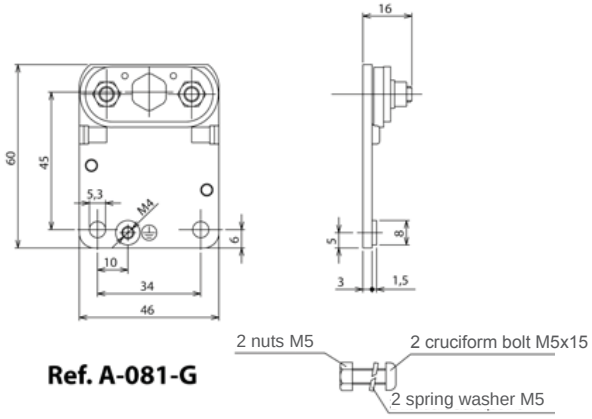
Ref. FEY01



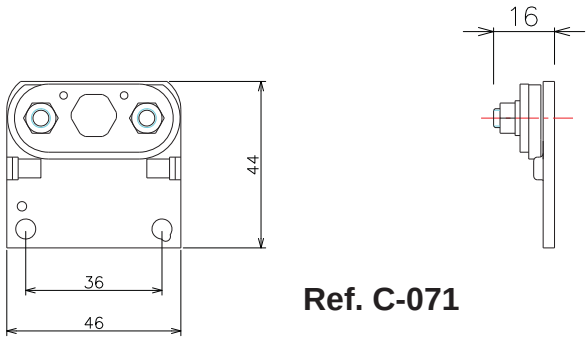
Note :
Nut ref. FEY01 should be used with the claw plate ref. P-0B1 or P-0C1.



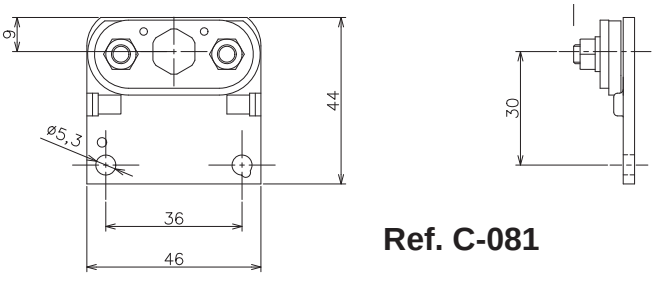
Ref. A-071-G



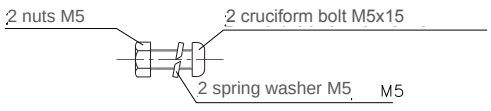
Ref. A-081-G

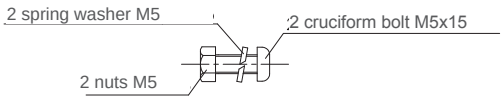


Ref. C-071



Ref. C-081



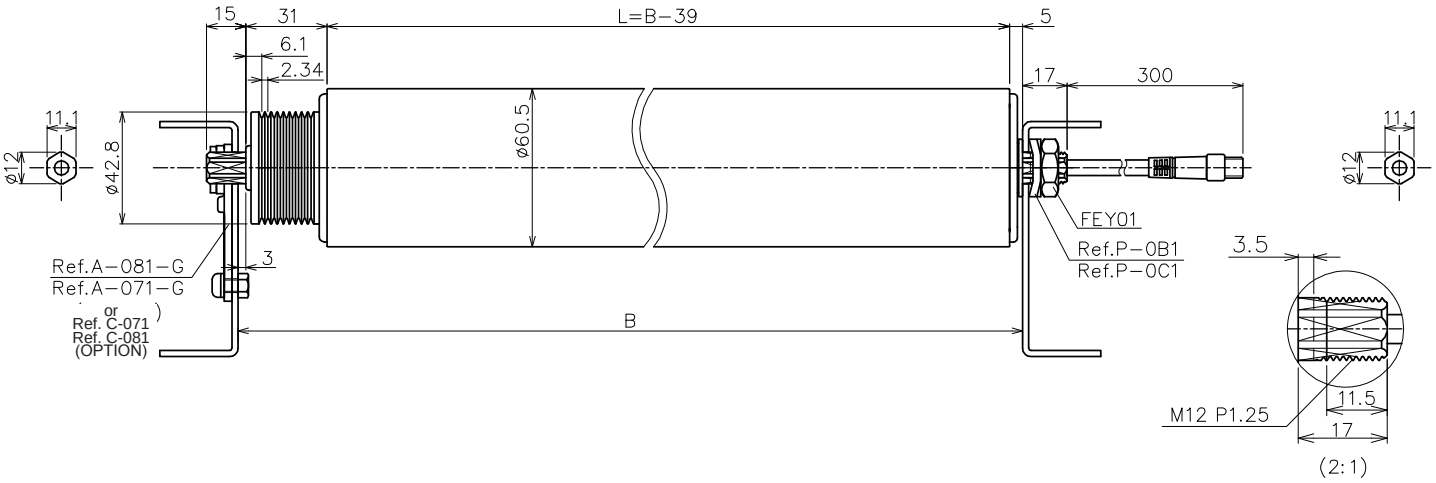


6 - Dimensional characteristics

Roller with pulley for ribbed belt

PM605XE (60XE)

Hexagonal threaded shaft motor side and hexagonal spring loaded shaft on free end



Dimensions PM605XE (60XE)

Speed code	Dimension (B) mini ≤ B ≤ max	Tube length (L) mini ≤ L ≤ max
17	389 ≤ B ≤ 1539	350 ≤ L ≤ 1500
30	369 ≤ B ≤ 1539	330 ≤ L ≤ 1500
60	369 ≤ B ≤ 1539	330 ≤ L ≤ 1500

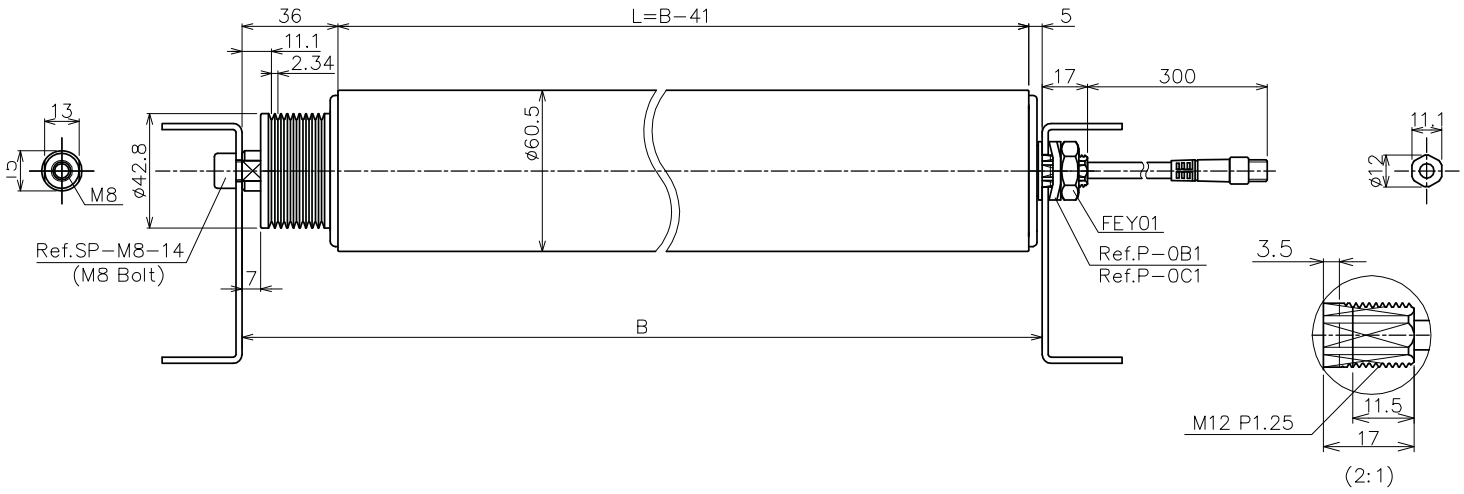
Weight / Static load / Axial force

Tube length		350	400	500	600	700	800	900	1000	1100	1200
Weight (Kg)	17m/min	3,8	4,0	4,4	4,8	5,2	5,6	6,0	6,4	6,8	7,2
	30 m/min	3,6	3,8	4,2	4,6	5,0	5,4	5,8	6,2	6,6	7,0
	60 m/min	3,6	3,8	4,2	4,6	5,0	5,4	5,8	6,2	6,6	7,0
Static load		160	160	130	130	100	100	80	80	70	70
Axial force max (N)		490									

Roller with pulley for ribbed belt

PM605XE (60XE)

Hexagonal threaded shaft motor side and M8 female threaded shaft with screw on free end



Dimensions PM605XE (60XE)

Speed code	Dimension (B) mini ≤ B ≤ max	Tube length (L) mini ≤ L ≤ max
17	391 ≤ B ≤ 1541	350 ≤ L ≤ 1500
30	371 ≤ B ≤ 1541	330 ≤ L ≤ 1500
60	371 ≤ B ≤ 1541	330 ≤ L ≤ 1500

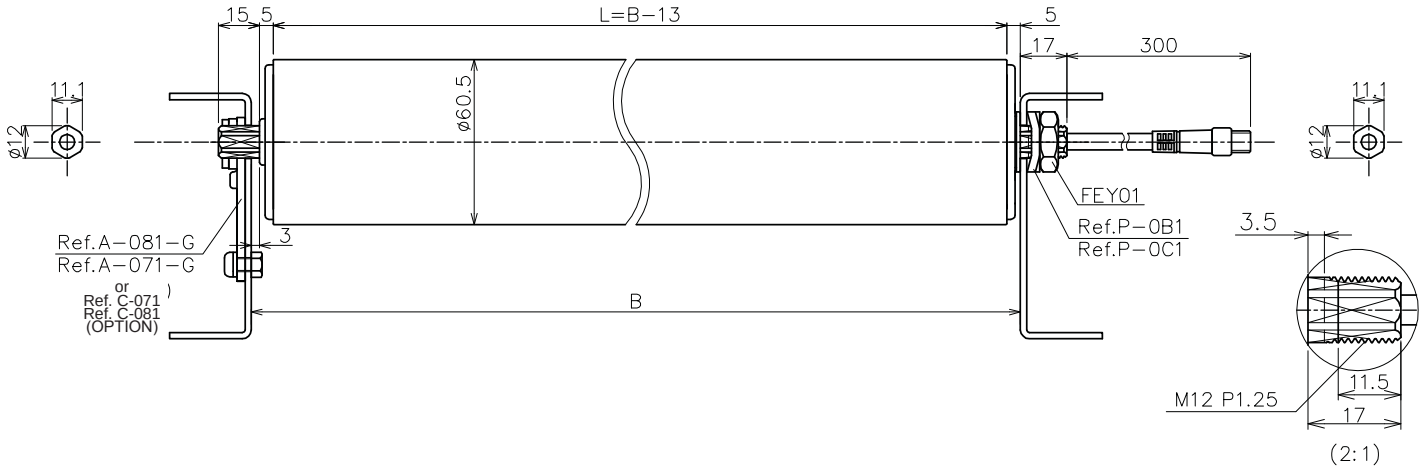
Weight / Static load / Axial force

Tube length		300	400	500	600	700	800	900	1000	1100	1200
Weight (Kg)	17m/min	4,0	4,2	4,6	5,0	5,4	5,8	6,2	6,6	7,0	7,4
	30 m/min	3,8	4,0	4,4	4,8	5,2	5,6	6,0	6,4	6,8	7,2
	60 m/min	3,8	4,0	4,4	4,8	5,2	5,6	6,0	6,4	6,8	7,2
Static load		160	160	130	130	100	100	80	80	70	70
Axial force max (N)		490									

Roller without drive

PM605XE (60XE)

Hexagonal threaded shaft motor side and hexagonal spring loaded shaft on free end



Dimensions PM605XE (60XE)

Speed code	Dimension (B) mini ≤ B ≤ max	Tube length (L) mini ≤ L ≤ max
17	363 ≤ B ≤ 1513	350 ≤ L ≤ 1500
30	343 ≤ B ≤ 1513	330 ≤ L ≤ 1500
60	343 ≤ B ≤ 1513	330 ≤ L ≤ 1500

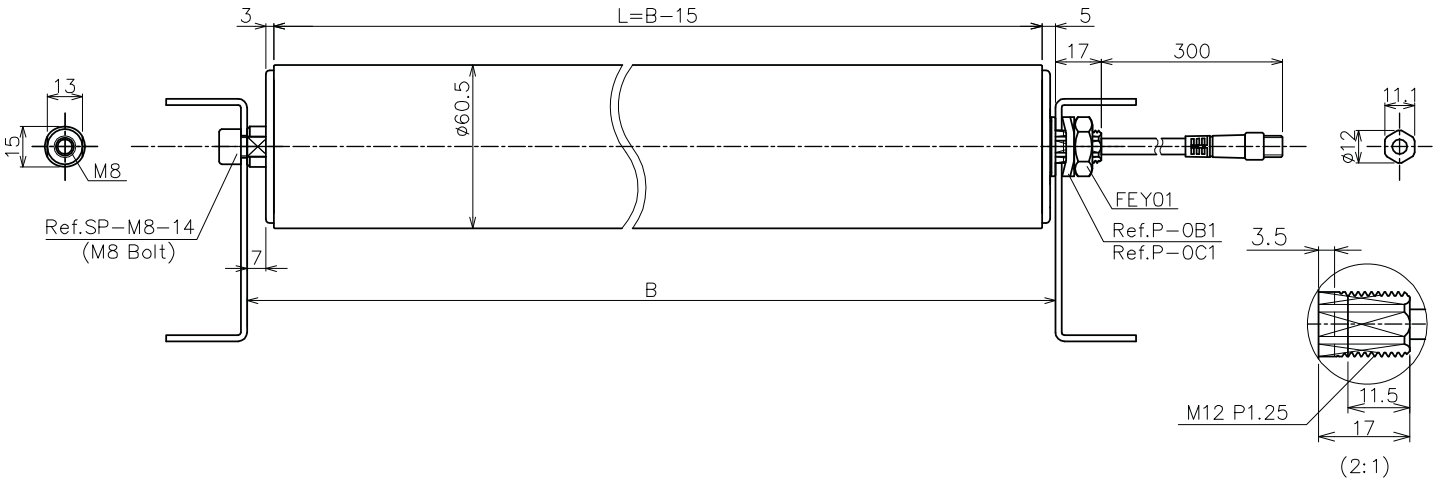
Weight / Static load / Axial force

Tube length		400	500	600	700	800	900	1000	1100	1200
Weight (Kg)	17m/min	4,0	4,4	4,8	5,2	5,6	6,0	6,4	6,8	7,2
	30 m/min	3,8	4,2	4,6	5,0	5,4	5,8	6,2	6,6	7,0
	60 m/min	3,8	4,2	4,6	5,0	5,4	5,8	6,2	6,6	7,0
Static load		160	130	130	100	100	80	80	70	70
Axial force max (N)		490								

Roller without drive

PM605XE (60XE)

Hexagonal threaded shaft motor side and M8 female threaded shaft with screw on free end



Dimensions PM605XE (60XE)

Speed code	Dimension (B) mini ≤ B ≤ max	Tube length (L) mini ≤ L ≤ max
17	365 ≤ B ≤ 1513	350 ≤ L ≤ 1500
30	345 ≤ B ≤ 1513	330 ≤ L ≤ 1500
60	345 ≤ B ≤ 1513	330 ≤ L ≤ 1500

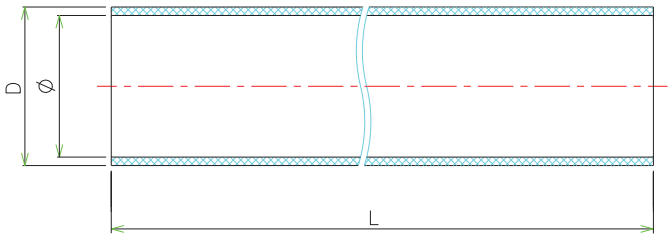
Weight / Static load / Axial force

Tube length		400	500	600	700	800	900	1000	1100	1200
Weight (Kg)	17m/min	4,3	4,7	5,1	5,5	5,9	6,3	6,7	7,1	7,5
	30 m/min	4,1	4,5	4,9	5,3	5,7	6,1	6,5	6,9	7,3
	60 m/min	4,1	4,5	4,9	5,3	5,7	6,1	6,5	6,9	7,3
Static load		160	130	130	100	100	80	80	70	70
Axial force max (N)		490								

7 - Dimensional characteritics - miscellaneous

Coated in natural rubber, nitrile rubber and polyurethane

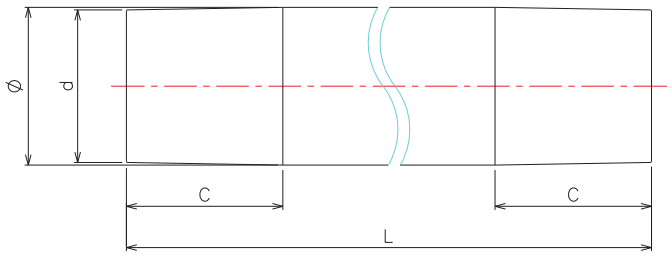
Material	Characteritics	Hardness (ShA)	Thickness (mm)
Natural rubber	It improves the adherence of the products conveyed and reduces noise. Do not use in contact with hydrocarbon, oil or grease.	60~65	3
Nitrile rubber	Exceptional resistance in the presence of hydrocarbon, oil and grease.		
Polyurethane	High resistance to abrasion, tearing and oil.	90	



Cylindrical tube

L (mm)	Ø (mm)	D (mm)
≤1500	60,5	70

Crowned machining

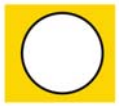


Tube in zinc-coated or stainless steel

L (mm)	C (mm)	Ø (mm)	d (mm)
≤600	60	60,5	59
601≤800	100		
≥800	120		

8 - MOUNTING ON THE FRAMES

Mounting plate for plain 11.1 mm hexagonal shaft - FLAT ON TOP

Conveyor with hole Ø12,1mm  or hexagonal 11,2mm 

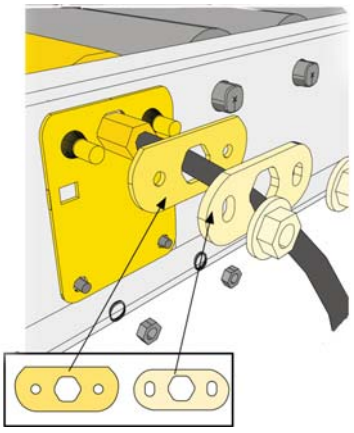


	Plate
Reference	A-071-G

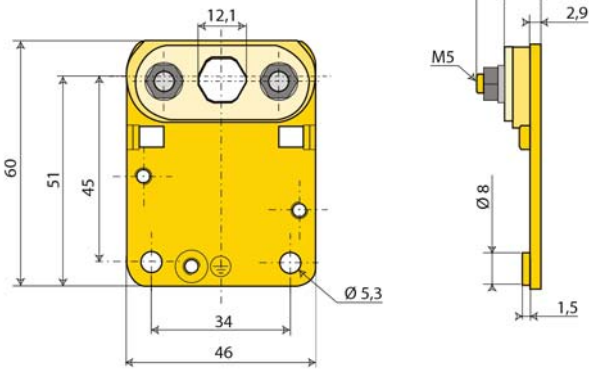
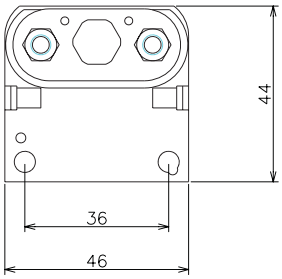
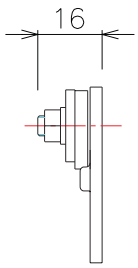
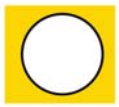


	Plate
Reference	C-071





Mounting plate for plain 11.1 mm hexagonal shaft - ANGLE ON TOP

Conveyor with hole Ø12,1mm  or hexagonal 11,2mm 

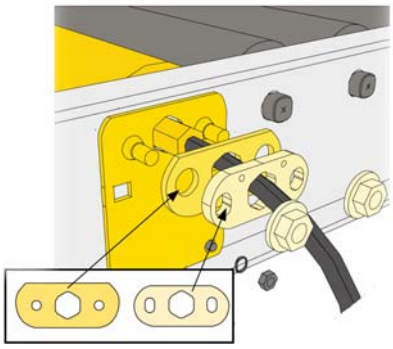


	Plate
Reference	A-081-G

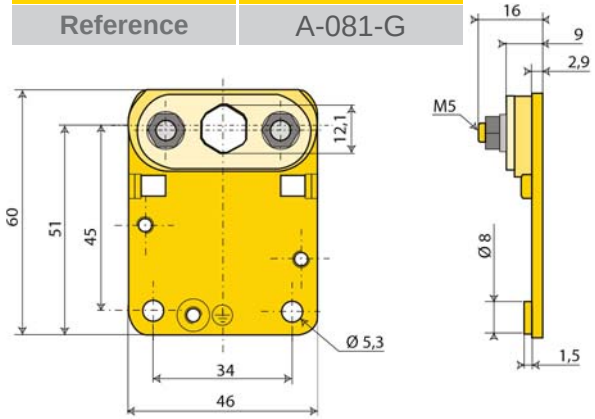
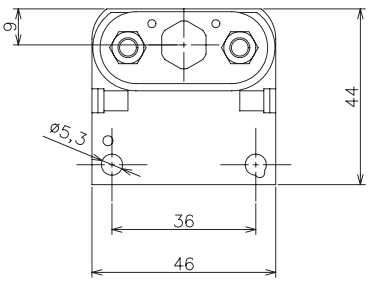
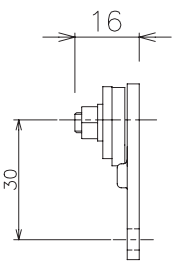
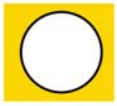
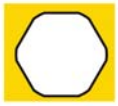


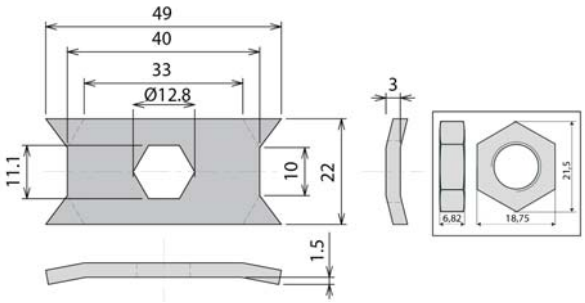
	Plate
Reference	C-081





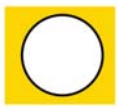
Mouting plate for threaded hexagonal shaft - FLAT ON TOP

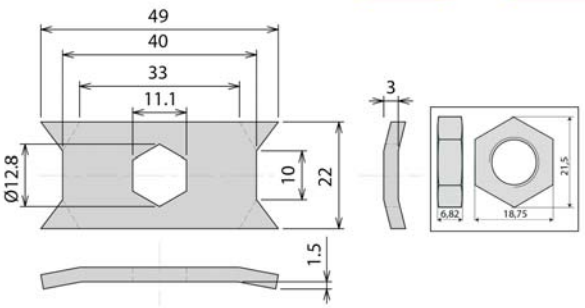
Conveyor with hole Ø12,1mm  or hexagonal 11,2mm 

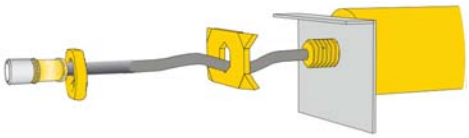


	Claw plate	Nut
Reference	P-0B1	FEY-01

Mouting plate for threaded hexagonal shaft - ANGLE ON TOP

Conveyor with hole Ø12,1mm  or hexagonal 11,2mm 

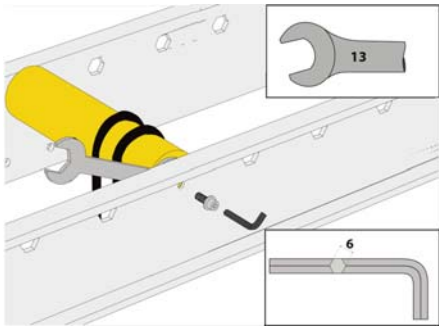




	Claw plate	Nut
Reference	P-0C1	FEY-01

M8 threaded fixed shaft

Conveyor with holes Ø8,4mm

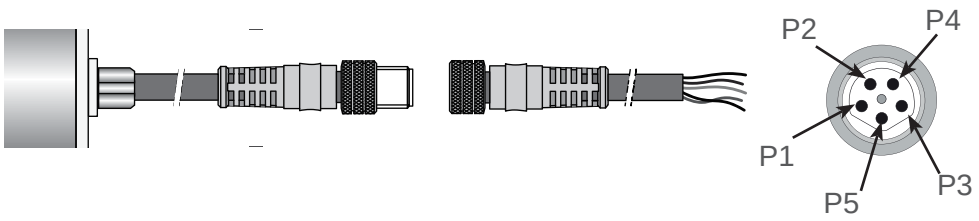


	Bolt
Reference	SP-M8-14

9 - Wiring and commands

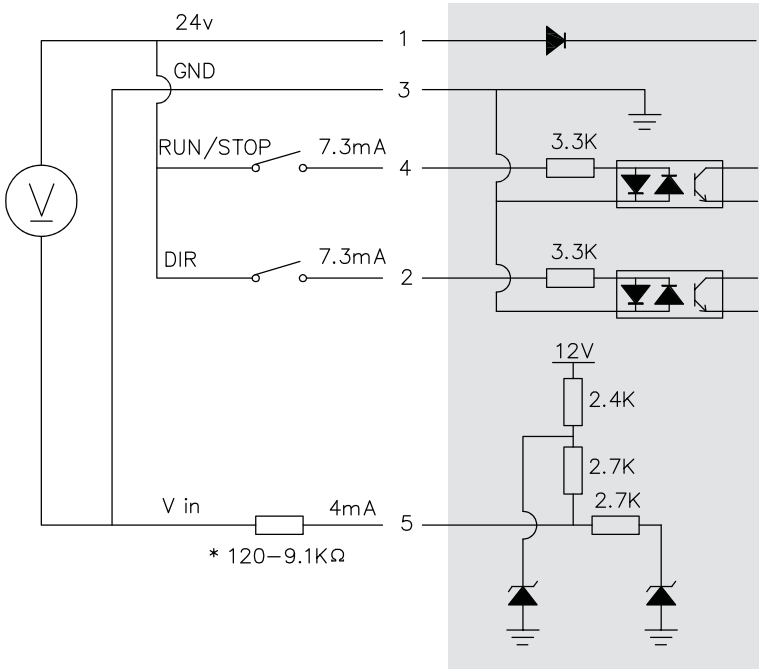
Wiring

To connect a motorized roller serie PM605XE (60XE), it should be used a female connector M8 – 5 pins :



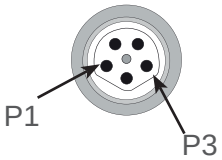
P1	24 VDC	Brown
P2	CW/CCW	White
P3	0 VDC	Blue
P4	Start / Stop	Black
P5	Speed variation	Grey

Interface scheme



Pin 1 and 3 - 24VDC power supply

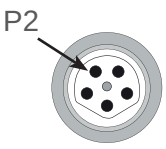
The motorized roller is protected against reverse polarity 0 to 24VDC.



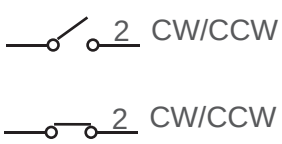
Pin P1 - Brown wire - 24VDC
Pin P3 - Blue wire - 0V

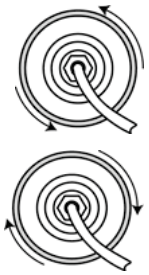
⚠ It's recommended that a 24VDC switching power supply that can accept a 150% overcurrent for few milliseconds.

Pin 2 - Rotation direction

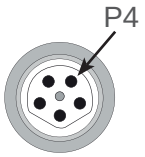


Pin P2 - White wire - Direction of rotation

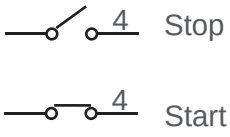




Pin 4 - Start / Stop

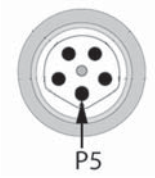


Pin P4 - Black wire



Pin 5 - Speed variation

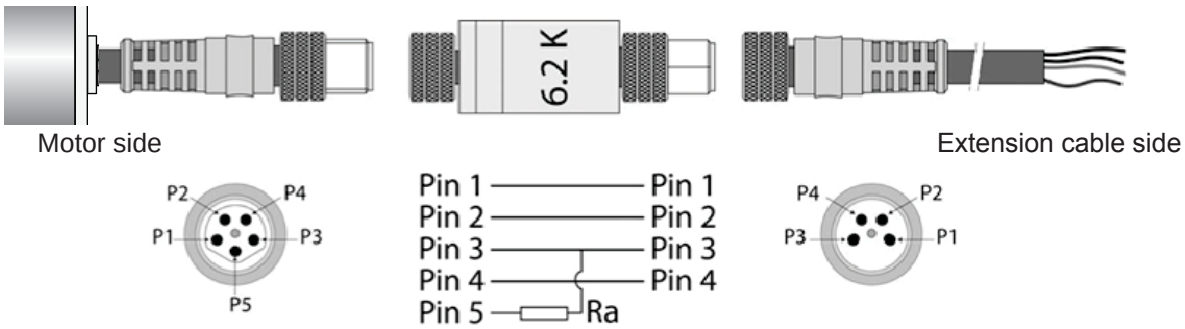
Speed variation by injection of analogic external voltage 0-10VDC



Pin P5 - Grey wire - Speed variation 0~10VDC → 5

⚠ Imperatively connect the 0V power of the motorized roller with 0V of 0-10V supply for speed variation.

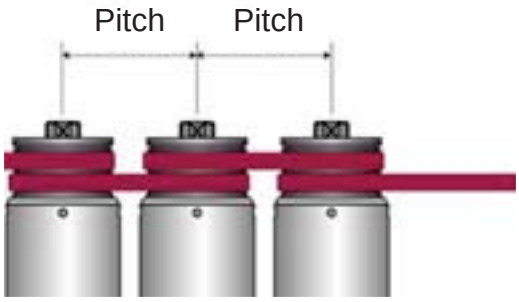
Speed variation with speed adaptator



Speed adaptator		PM605XE (60XE)		
Ref.	Ra (KΩ)	Speed code 60	Speed code 30	Speed code 17
NA	Open	74,7	35,4	21,0
BG20342-6K2	6,2	68,5	32,4	19,3
BG20342-4K3	4,3	56,0	26,5	15,8
BG20342-3K3	3,3	49,8	23,6	14,0
BG20342-2K2	2,2	43,6	20,6	12,3
BG20342-1K8	1,8	37,3	17,7	10,5
BG20342-1K2	1,2	30,2	14,3	8,5
BG20342-750	0,75	24,9	11,8	7,0
BG20342-430	0,43	18,7	8,8	5,3
NA	Shuntée	12,4	5,9	3,5

10 - ACCESSORIES

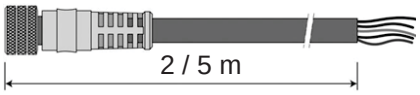
Ribbed belt



Pitch between the rollers (mm) For pulley ø43mm	Number of teeth		
	2	3	4
	Load to be conveyed ≤50 Kg	Load to be conveyed ≤300 Kg	Load to be conveyed ≤400 Kg
53-56	Ref. 2PJ246-43	Ref. 3PJ246-43	Ref. 4PJ246-43
60-63	Ref. 2PJ256-43	Ref. 3PJ256-43	Ref. 4PJ256-43
64-65	Ref. 2PJ265-43	Ref. 3PJ265-43	Ref. 4PJ265-43
66-67	Ref. 2PJ270-43	Ref. 3PJ270-43	Ref. 4PJ270-43
71-72	Ref. 2PJ282-43	Ref. 3PJ282-43	Ref. 4PJ282-43
73-75	Ref. 2PJ286-43	Ref. 3PJ286-43	Ref. 4PJ286-43
76-77	Ref. 2PJ290-43	Ref. 3PJ290-43	Ref. 4PJ290-43
78-79	Ref. 2PJ288-43	Ref. 3PJ288-43	Ref. 4PJ288-43
80-84	Ref. 2PJ302-43	Ref. 3PJ302-43	Ref. 4PJ302-43
87-91	Ref. 2PJ314-43	Ref. 3PJ314-43	Ref. 4PJ314-43
92-95	Ref. 2PJ316-43	Ref. 3PJ316-43	Ref. 4PJ316-43
97-101	Ref. 2PJ336-43	Ref. 3PJ336-43	Ref. 4PJ336-43
103-107	Ref. 2PJ346-43	Ref. 3PJ346-43	Ref. 4PJ346-43
115-118	Ref. 2PJ372-43	Ref. 3PJ372-43	Ref. 4PJ372-43
119-121	Ref. 2PJ376-43	Ref. 3PJ376-43	Ref. 4PJ376-43
123-128	Ref. 2PJ388-43	Ref. 3PJ388-43	Ref. 4PJ388-43
129-134	Ref. 2PJ416-43	Ref. 3PJ416-43	Ref. 4PJ416-43
142-147	Ref. 2PJ435-43	Ref. 3PJ435-43	Ref. 4PJ435-43
150-156	Ref. 2PJ442-43	Ref. 3PJ442-43	Ref. 4PJ442-43
157-161	Ref. 2PJ456-43	Ref. 3PJ456-43	Ref. 4PJ456-43
170-176	Ref. 2PJ486-43	Ref. 3PJ486-43	Ref. 4PJ486-43
196-202	Ref. 2PJ536-43	Ref. 3PJ536-43	Ref. 4PJ536-43
208-215	Ref. 2PJ570-43	Ref. 3PJ570-43	Ref. 4PJ570-43
254-258	Ref. 2PJ636-43	Ref. 3PJ636-43	Ref. 4PJ636-43
305-310	Ref. 2PJ746-43	Ref. 3PJ746-43	Ref. 4PJ746-43

Extension cables

Extension cable with connector M8x5 pins – 2 or 5 meters



Length	Extension cable reference
2m	405000P02M020
5m	405000P02M050

Speed adaptator

Ref	Ra (KΩ)
BG20342-6k2	6,2
BG20342-4k3	4,3
BG20342-3k3	3,3
BG20342-2k2	2,2
BG20342-1k8	1,8
BG20342-1k2	1,2
BG20342-750	0,75
BG20342-430	0,43

24VDC power supply

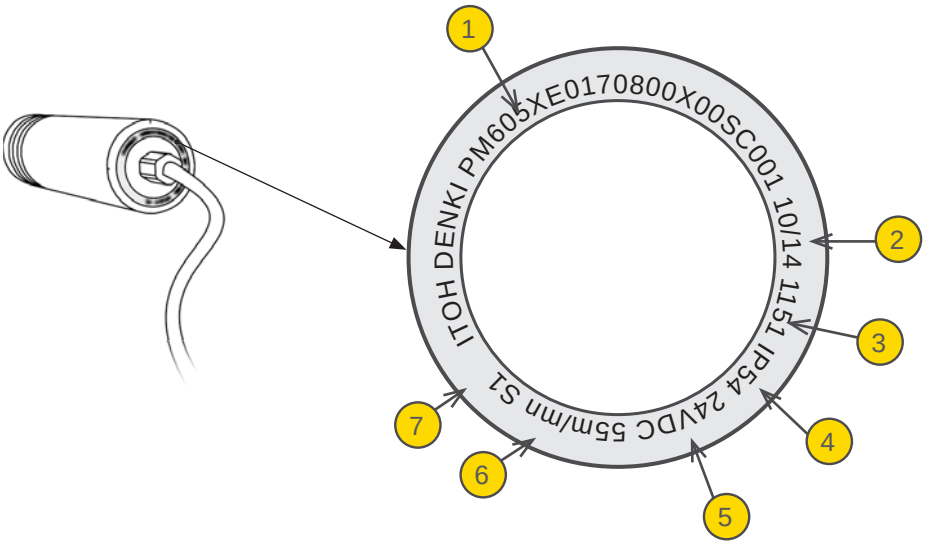
Reference	Input	Output	Power	Start-up boost
CT-10-241	380~480V 3 ph	24V-10A	240W	120%
QT-20-241		24V-20A	480W	150%
QT-40-241		24V-40A	960W	150%

- Very weak inrush current.
- Accepts excess current of 120 to 150% at start-up (according to model)

11 - Product identification

Round label

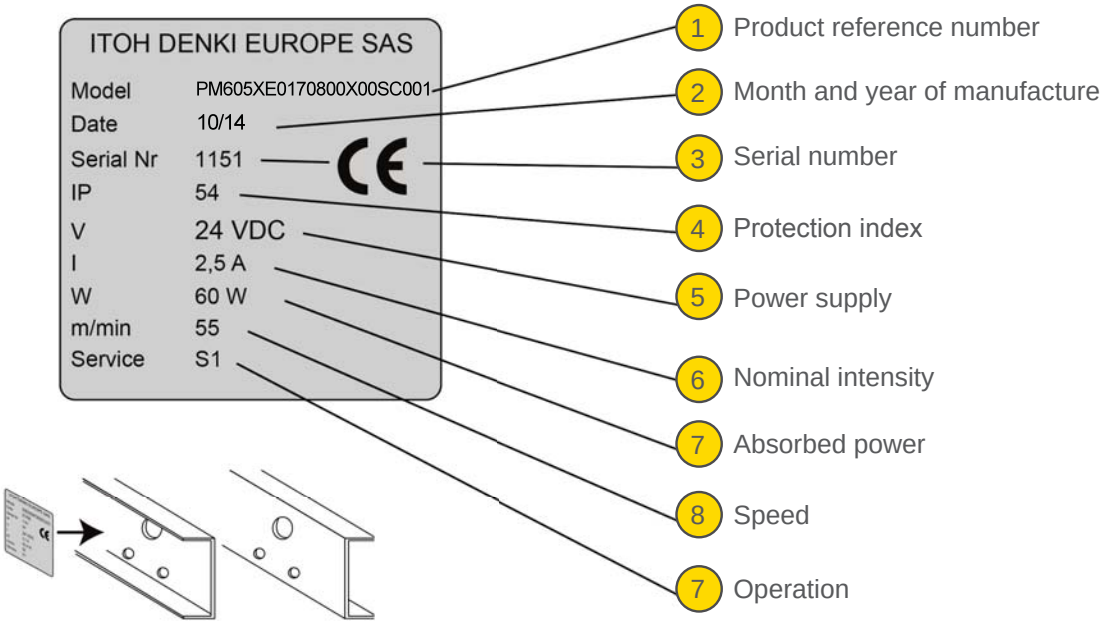
Power Moller® rollers come with a round label affixed to the endcaps at the motor end.
The following information are shown on the label :

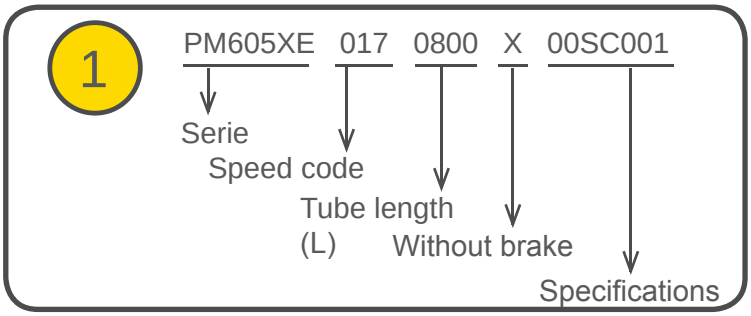


1. Product reference number
2. Month and year of manufacture
3. Serial number
4. Protection index
5. Power supply
6. Speed
7. Operation

Square label

Power Moller® rollers come with a square self-adhesive label that must be affixed to the conveyor, to facilitate any future maintenance. The following information are shown on the label :





12 - QUOTATION - ORDER

Date : .....
Company : .....
Contact : .....
Address : .....
Postcode : .....
Town / city : .....
Country : .....
Telephone : .....
Mail : .....
Type of business : .....

☐ **QUOTATION** ☐ **ORDER**

Conveyor

☐ Roller conveyor
☐ Belt conveyor
☐ Other Type : .....

☐ New equipment
☐ Replacing an ITOH DENKI product
☐ Replacing a competing product - Brand : .....

Conveyor length : ..... m
Inside frame dimension «B» : ..... mm
Pitch between rollers : ..... mm (for roller conveyor)

☐ Straight conveyor or ☐ Curved conveyor
Inner radius of curvature :
☐ Ri = 800 mm ☐ Ri = 850 mm
☐ Other value.....

☐ Horizontal conveyor or ☐ Sloping conveyor
Angle of slope : ☐ Upwards ☐ Downwards
Slope.....

Load to be conveyed

☐ Wood ☐ Metal ☐ Plastic ☐ Cardboard ☐ Other.....
☐ Flat surface ☐ Uneven surface
Weight of the load.....
Length of the load (direction of conveyance) : ..... Width of the load:.....

Operation

- ☐ Standard (controlled by a PLC, no accumulation with pressure)
- ☐ Accumulation without pressure (ZPA)
- ☐ Accumulation with pressure (Warning: contact our technical service department for approval)
- ☐ Other.....

Environment

Humidity	☐ Yes (≥90%)	☐ No (standard case, <90%)	
Projection of liquid	☐ Yes. What liquid :.....	☐ No	
Dust	☐ Yes	☐ No (standard case)	
Temperature	☐ Between 0°C and 40°C	☐ Cold room. T°=.....	☐ Other T°:.....

Other.....

Motorized roller

Serie : ☐ Standard without mechanical brake ☐ With mechanical brake

Protection : ☐ IP54 ☐ IP65 ☐ Other.....

Speed code : ☐ 17 ☐ 30 ☐ 60 ☐ Other:.....

Tube : ☐ Zinc-coated steel ☐ Stainless steel ☐ Other.....

Coating :
- ☐ Without ☐ PVC sleeve 3mm ☐ PVC sleeve 2mm
- ☐ PU ☐ Natural rubber ☐ Other :.....
- ☐ Tapered sleeve
  - ☐ Ri 800mm
  - ☐ Ri 850mm
  - ☐ Other :.....

Drive :
- ☐ Direct (no transmission)
- ☐ By ribbed belt
- ☐ By rounded belt
  - ☐ Grooves on tube : G0.....mm G1.....mm G2.....mm
  - ☐ Pulley for round belt

Cable : ☐ Standard length (300mm) ☐ Other.....

ANNEXE 1

INCORPORATION DECLARATION
in accordance with the EC Machinery Directive 2006/42/EC, Annex II B

The manufacturer:

ITOH DENKI CO., Ltd
1146-2 Asazuma-Cho, Kasai, Hyogo 679-0180 Japan

Distributed in Europe by :

ITOH DENKI Europe SAS
490 avenue des Jourdies - ZAE les Jourdies - BP 323
74807 St Pierre en Faucigny Cedex - France

hereby declares that the product series :

PM605XE MOTORIZED ROLLER

is an incomplete machine as defined in the EC Machinery Directive and therefore does not fully meet the requirements of this Directive. Commissioning is prohibited until the whole machine/system in which it is incorporated is declared to be in compliance with the EC Machinery Directive

The health and safety requirements of Annex I have been applied. The special technical documents in accordance with Annex VII have been drawn up (and, if appropriate, submitted to the competent authorities).

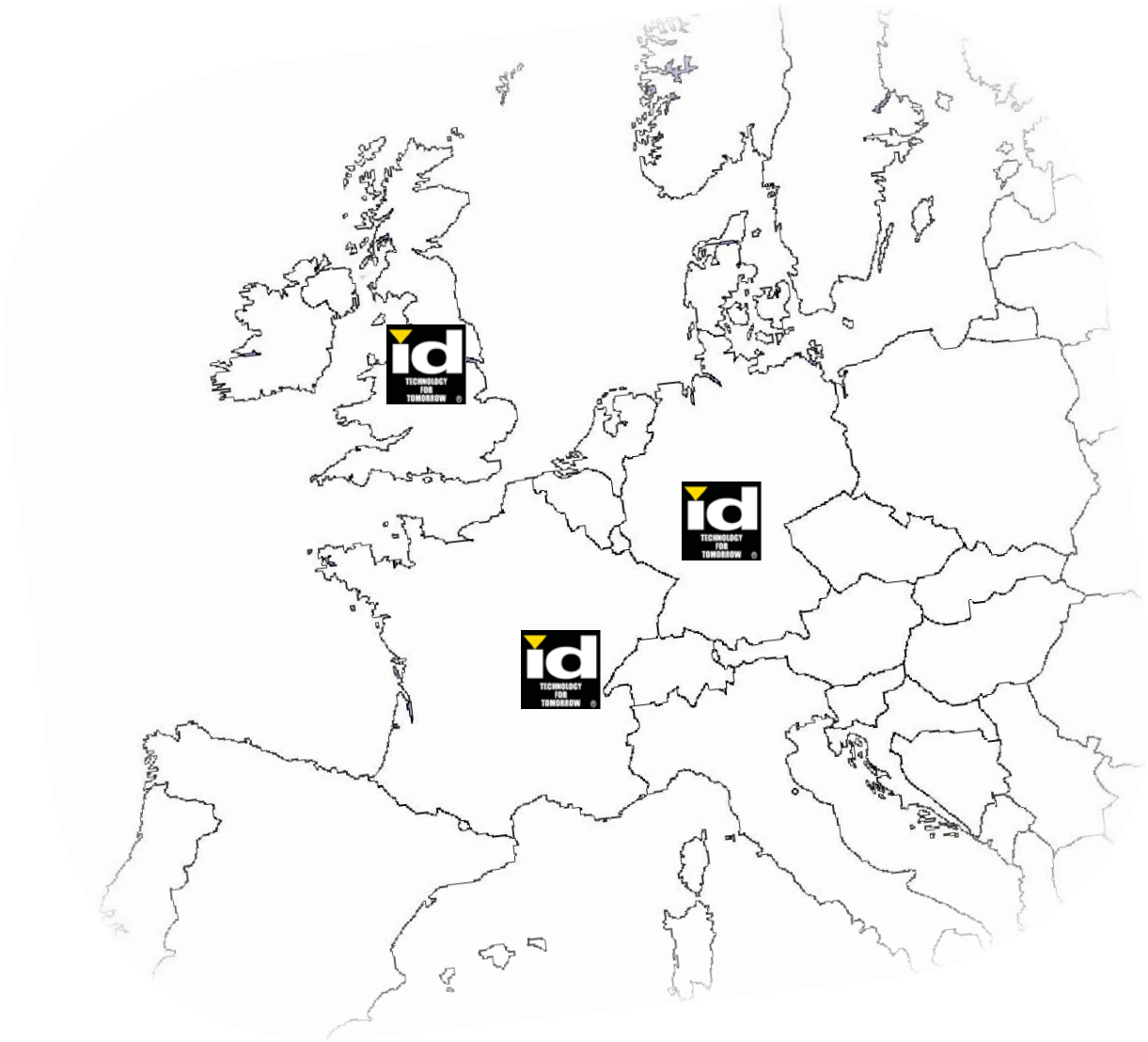
Person authorized to compile the technical documentation :

ITOH DENKI CO., Ltd
Toshiyuki TACHIBANA
1146-2 Asazuma-Cho, Kasai, Hyogo 679-0180 Japan

EC Directives applied :
• Machinery Directive 2006/42/EC
• European EMC Directive 2004/108/EC
• European RoHS Directive 2011/65/EU

Saint Pierre en Faucigny, 20 November 2013

K. TAMURA, Managing Director



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