



DGAC50/60/76 **1PH220V/3PH220V/3PH380V**  
**AC ASYNCHRONOUS GEAR REDUCTION  
MOTOR DRIVE ROLLER**

As standard / HAS reinforced

HBP high torque reinforced

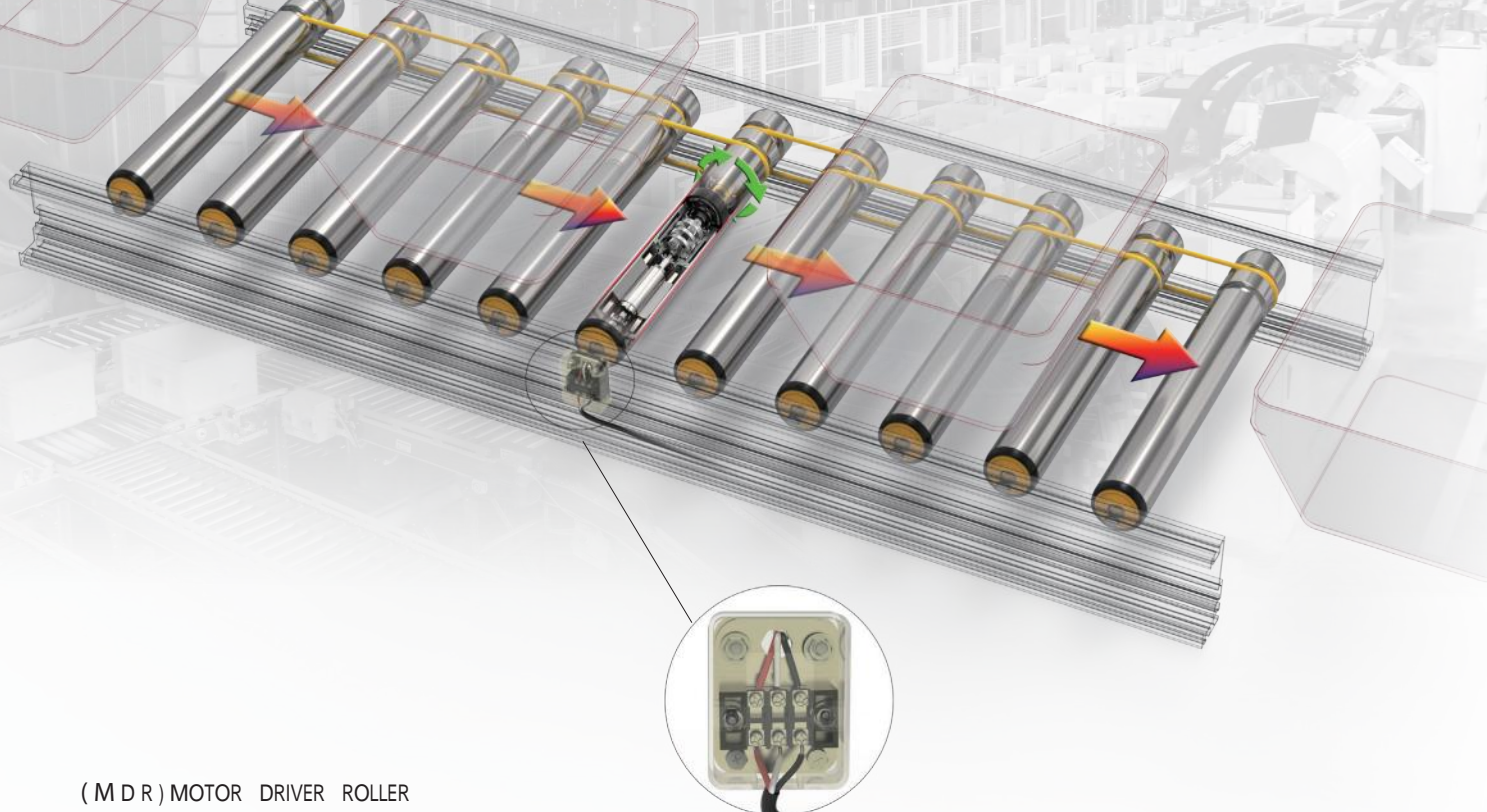


**JIANGSU WINROLLER TECHNOLOGY CO.,LTD (China)**

**WUXI XINHUASHENG MOTOR DRIVE ROLLER MANUFACTURE CO.,LTD (China)**

Manufacturing experts in advanced transmission technology.

# What's a MOTOR DRIVER roller?



(M D R) MOTOR DRIVER ROLLER

motor driver roller is the motor, gear reducer, and sensor integrated, reasonably installed inside the steel pipe, made of a self-powered roller. Therefore, the conveying system no longer considers the motor, chain, intermediate shaft or other auxiliary drive components; No need for bulky gear boxes. Just install the electric roller on the rack, connect the wire to the power supply, and the job is done. The conveying system is more clean, dense, beautiful, safe and reliable.

Products are widely used in: food processing, pharmaceutical production, electronic assembly, airport logistics, postal services, distribution and various industries. To meet the diverse automation needs of different industries.

WINROLLER Product quality, technology, credit and service are widely praised, is the industry's advanced R & D production enterprises.

## DGAC ,DGBL DGDD motor selected to meet different application scenarios

### High torque

The combination of new high-efficiency motors and high-precision gears brings the best performance motor driver roller.

### High-speed

From the lowest 1m/min to the highest 300m/min.

### Low noise emission

Noise levels are reduced by about 10 percent compared to traditional products.

### Space-saving

By adopting elastic shaft, the installation and maintenance are simplified.

### timesaver

Compared with drive gear motors, the number of parts required for drive is significantly reduced, thus shortening the design, part procurement and assembly time.

### Reduce control workload

Various drive features, such as area management logic, sensor signal input function, acceleration/deceleration time adjustment, can significantly reduce control and wiring time. In addition, the speed can be adjusted so that it can flexibly respond to customer requirements.

### safety

DC 24V safe voltage.

### convenience

It is easy to replace and maintenance-free.

# ABOUT US

## Miniature and miniature motor driver roller expert

WINROLLER, It is a global manufacturer of advanced transmission components, focusing on the development and production of micro and small electric roller and ultra-precision reducer ( $\leq 3$  arc minutes).

The company has won a number of invention patents, has passed the ISO9001 quality system certification, European CE certification, high-tech product certification.

Products are widely used in industrial automation, security inspection machine, express logistics and other occasions.

### Products include:

Ultra-precision reducer ( $\leq 3$  arc minutes);

Miniature motor driver roller for rolling conveyance;

Small motor driver roller for belt conveyor;

Suitable for higher requirements of DC 24V DC motor driver roller for, and non-power roller.



**motor driver roller diameter:**  $\Phi 38$ 、 $\Phi 50$ 、 $\Phi 57$ 、 $\Phi 60$ 、 $\Phi 67$ 、 $\Phi 76$ 、 $\Phi 82$ 、 $\Phi 98$ 、 $\Phi 113$ 、 $\Phi 138$

、 $\Phi 165$ 、 $\Phi 216$

## DGAC Introduction to ac asynchronous gear motor driver roller

### Introduction to ac asynchronous gear motor driver roller—DGAC

DGAC50/60 Introduction to ac asynchronous gear motor driver roller , Suitable for low speed and light load.

Built-in AC asynchronous gear reduction motor driver roller.

The output torque can be selected AS standard type and HAS enhanced type.

Winding protection type motor design, can be blocked for a long time without burning (only 50, 60AS and HAS).

Suitable for common industrial voltage such as 3PH380V, 3PH220V, 1PH220V. Simple control, power can be used.

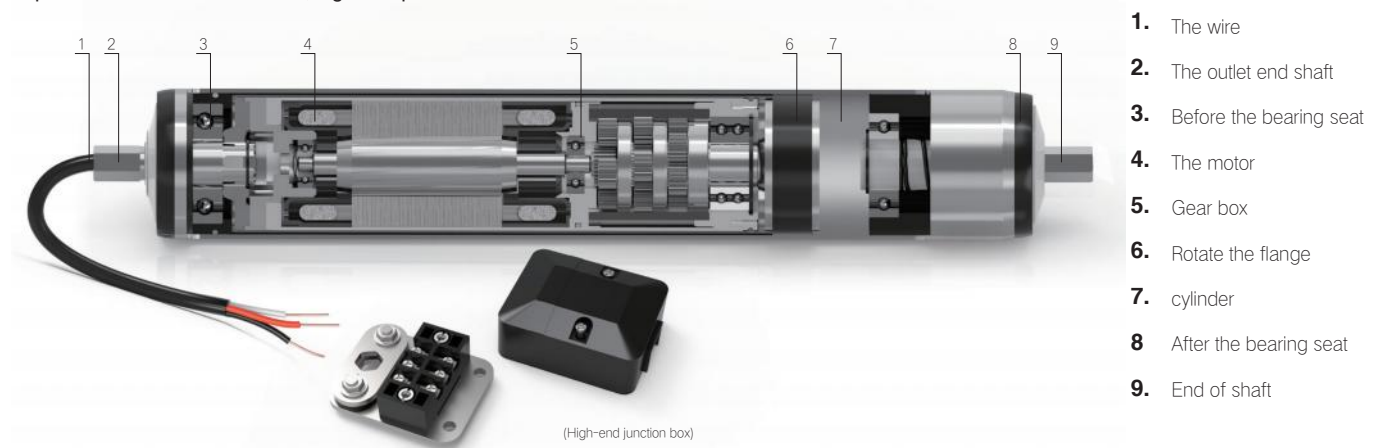
The three-phase motor can be adjusted by frequency converter, the speed range is 25Hz - 65Hz (limited to 3PH220V).

Speed 2 - 52 m/min.

Roller material: galvanized carbon steel, stainless steel, length can be customized.

The roller can press groove, also can be equipped with O pulley, V wheel, synchronous pulley, multi wedge pulley, sprocket and other linkage components.

Simple and convenient installation, high cost performance.



DGAC50/60 Section part indication diagram

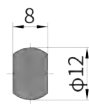
# operating condition

roller line	coordinated type	Linkage way	The diameter size	Linear speed
	Straight stick type	total load	Conveying material	control mode
belt conveyor		pallet	work environment	operating frequency
	operating voltage		The diameter size	Belt (long, wide, thick)
	Roller type	Total load/size/size	Linear speed	control mode
		work environment	cargo quality	

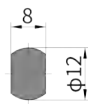
Tip: Selection customers must inform the following main parameters, so that the business more accurate to help choose the right model.

## DGAC 38 special miniature motor driver roller selection

DGAC38-3PH220V motor driver roller characteristics table							
Nominal speed	Rated speed (nominal)			electricit:3PH220V/rated power: 4W			
				torque N.m		traction N	
	米 / 分 m/min	米/秒 m/s	转/分 r/min	rated	start-up	rated	start-up
3	3.25	0.05	27.22	1.40	4.59	54.68	183.71
10	9.65	0.16	80.88	0.47	1.55	18.41	61.84
15	14.62	0.24	122.47	0.30	1.02	12.15	40.82
30	30.22	0.50	253.14	0.15	0.49	5.88	19.73



H型



H1型

Model name: DGAC38-AS-3PH220v - Linear speed -RL( ≥ 277, can be customized)- cylinder material - drive mode -H1H

RL = Reference length/Order length \* (including capping) ★remark : The shortest length of cylinder can be 277mm  
 EL = Installation length  
 AGL is the total length of the axis

## DGAC50/60 AS/HAS Example of DG Product Model Order Code Selection

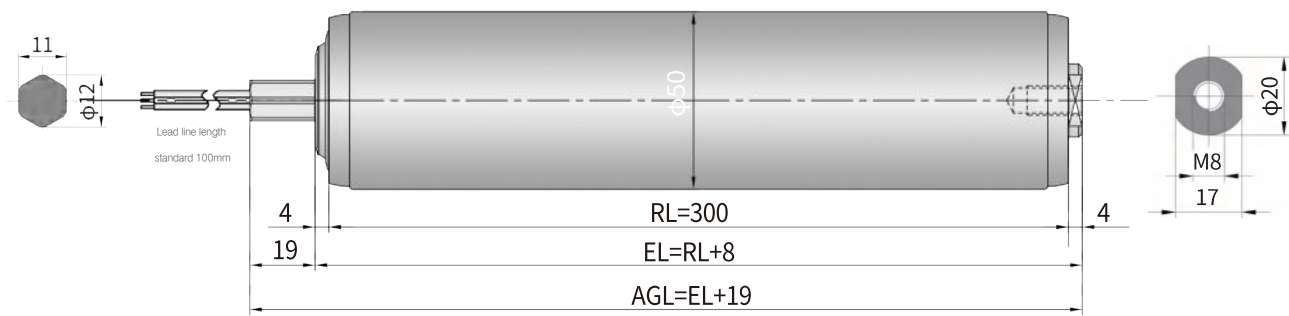
Select the required parameters according to the following table:

DGAC	50	AS	nought	1PH220V	10m/min	300L	X	T	HI	N
Category	Diameter	Motor Power	Control card type	Mains input*	Line speed	Tube RL*	Tubmaterial *	Drive mode	Shaft style	
									Outlet end shaft	ail shaft
DGAC	50	AS (Standard)	nought	1PH220V 3PH220V 3PH380V	10 m/min	reference P14	X: Galvanized carbon steel G: Carbon steel plated with hard chrome Ni: Nickel plating on carbon steel P: Covered with polyurethane adhesive S3: Stainless steel 304 S2: Stainless steel 201 JT: set of glue JZ: plastic bags JP: PCV glue JG: silica gel	Q: what a wedge belt	H1: φ 12 double-sided milling flat 8	H: φ 12 double-sided milling flat 8
								V: V belt wheel	H2:M12 double-sided milling flat 8	
	T: synchronous wheel									
	E: O pulley	C1: φ 12 hexagon opposite side 11		C: φ 12 hexagon opposite edge 11						
	L: sprocket	C2:M12 hexagon opposite Side 11								
	O: pressure tank									
	F: knurling	D1: φ 12 single milling flat 10		C: φ 12 hexagon side 11D: φ 12 single milling flat 10						
	I: roll straight									
	U: drum			N: M8 internal thread						

Can customize other voltage and drum shape; 60 electric drum without AS motor  
 Special requirements: dustproof and waterproof (IP65) -- HS; Brake (mechanical brake) -- Z; Product discharge (adjustable product discharge) -- AU; The elastic axis, TX;  
 The material of cone rod is only (galvanized, stainless steel).

## DGAC50 AS/HAS selection example

### Model Selection 1



#### DGAC50 - AS - 3PH220V - 10M/MIN - 300L - X - I - C1N

- Outlet Axis:** C1:Φ12Hexagonal opposite eleven
- Tail Axis:** N:M8 internal thread
- drive mode:** Straight roll
- Cylinder material:** Carbon steel galvanized
- Cylinder length RL:** 300mm
- line speed:** 10m/min
- mains input :** 3PH220V
- motor power:** standard form
- Drum size type:** Diameter 50 AC reduction motor driver roller

### Model Selection 2

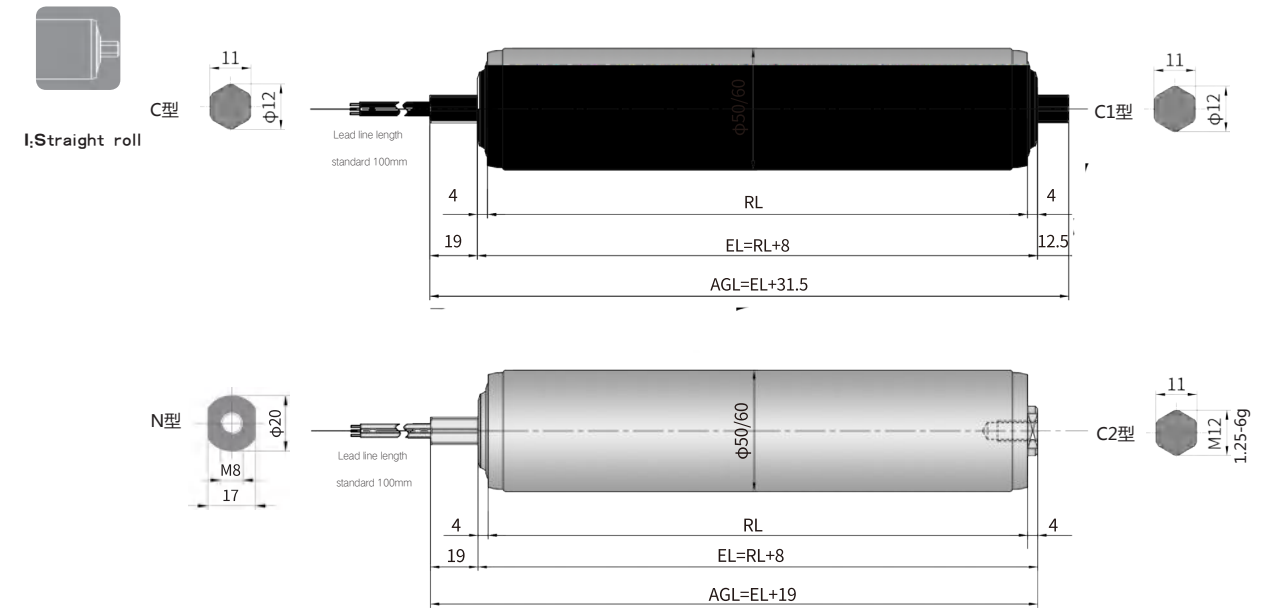


#### DGAC50 - HAS - 3PH220V - 9M/MIN - 300L - X - Q - C1C - Z

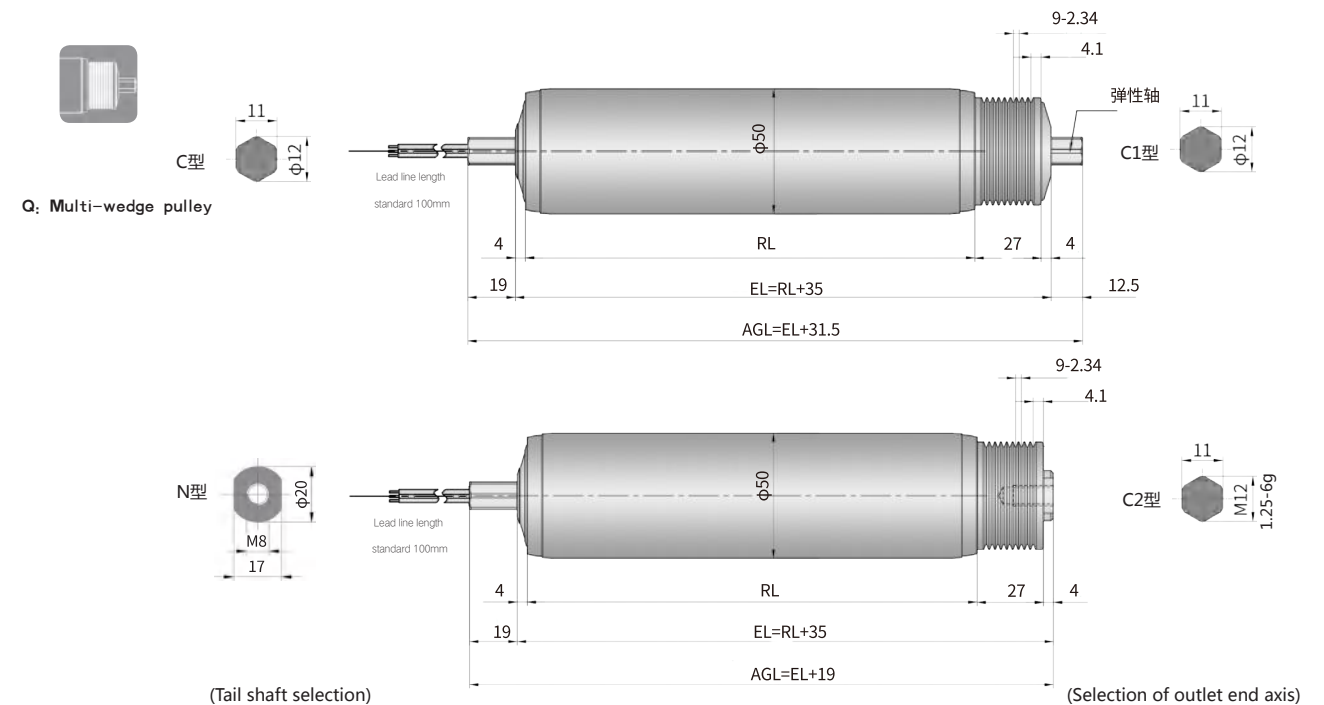
- brake:** Electronic Brake (Mechanical brake detailed consulting business personnel)
- Outlet Axis:** C1:Φ12Hexagonal opposite eleven
- Tail Axis:** C1:Φ12Hexagonal opposite eleven
- drive mode:** ribbed belt
- Cylinder material:** Carbon steel galvanized
- Cylinder length RL:** 300mm
- line speed:** 10m/min
- mains input :** 3PH220V
- motor power:** enhanced
- Drum size type:** : Diameter 60 AC reduction motor driver roller

★ **remark:** 60 motor driver roller without AS motor, more than 60 wedge belt is different from more than 50 wedge belt.

## Drive Mode Size Chart



★ **Straight stick:** 50\*1.5mm steel pipe, material can be carbon steel galvanized, hard chromium plated, or 201, 304 stainless steel pipe



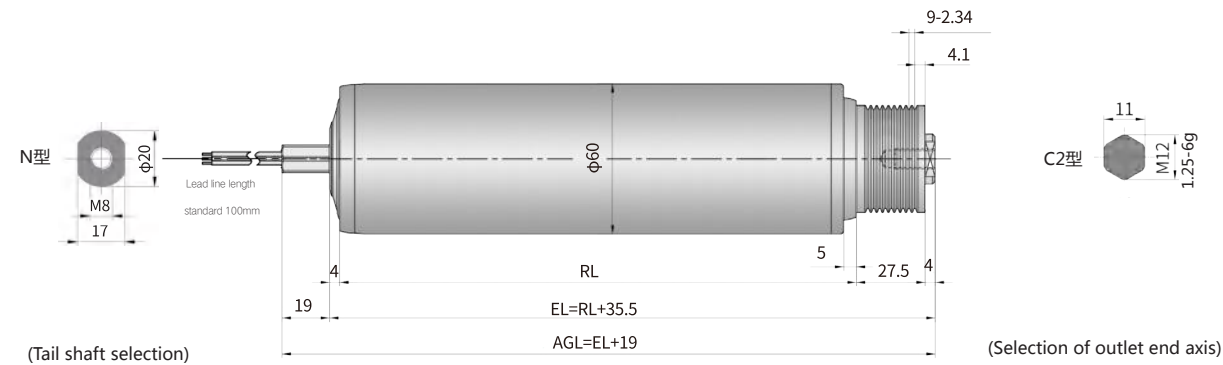
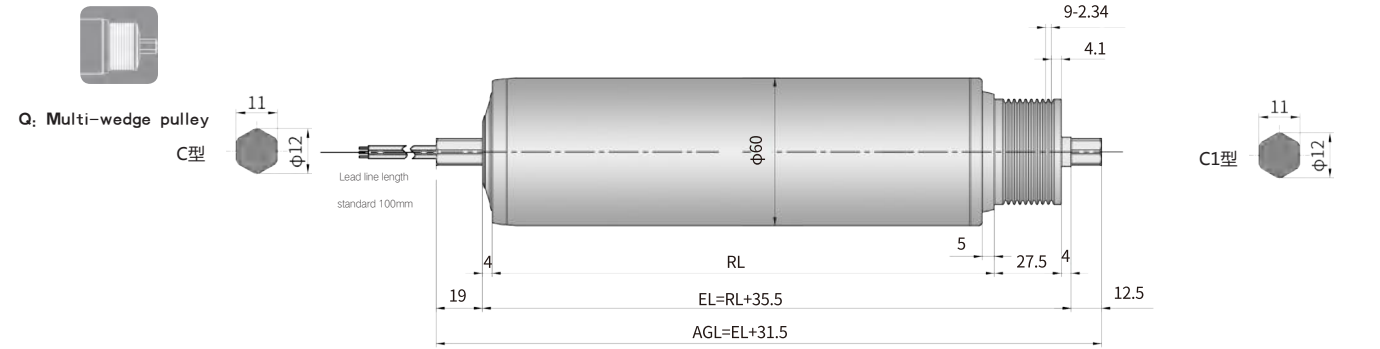
★ **Multi-wedge pulley:** Multi wedge belt wheel with stainless steel, alloy, plastic steel three materials to choose. 9 grooves with PJ multi-wedge belt. The load capacity of the roller depends on the transmission arrangement and the type of multi wedge belt. When the passive roller is less or the use of 3 or even 4 groove multi wedge belt, the load capacity is high, and vice versa. The maximum load can be up to 200KG. Over 100KG, the alloy multi-wedge belt should be selected.

★ **remark:** The 50 tail is the elastic shaft by default, and the plastic steel wheel has no waterproof performance.

RL = Reference length/Order length \* (including capping)

EL = Installation length

AGL is the total length of the axis

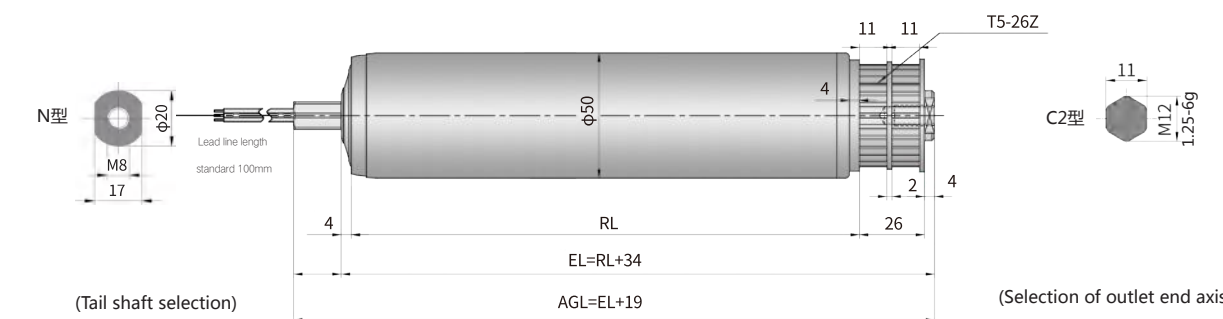
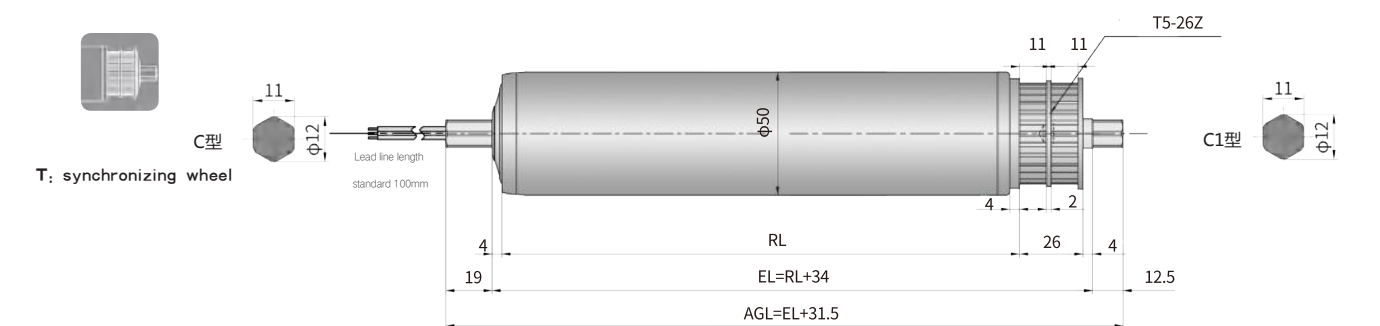


★Multi-wedge pulley: Multi wedge belt wheel with stainless steel, alloy, plastic steel three materials to choose. 9 grooves with PJ multi-wedge belt.

The load capacity of the roller depends on the transmission arrangement and the type of multi wedge belt. When the passive roller is less or the use of 3 or even 4 groove multi wedge belt, the load capacity is high, and vice versa.

The maximum load can be up to 200KG. Over 100KG, the alloy multi-wedge belt should be selected.

★remark: 60 tail non elastic shaft, plastic steel wheel without waterproof performance.

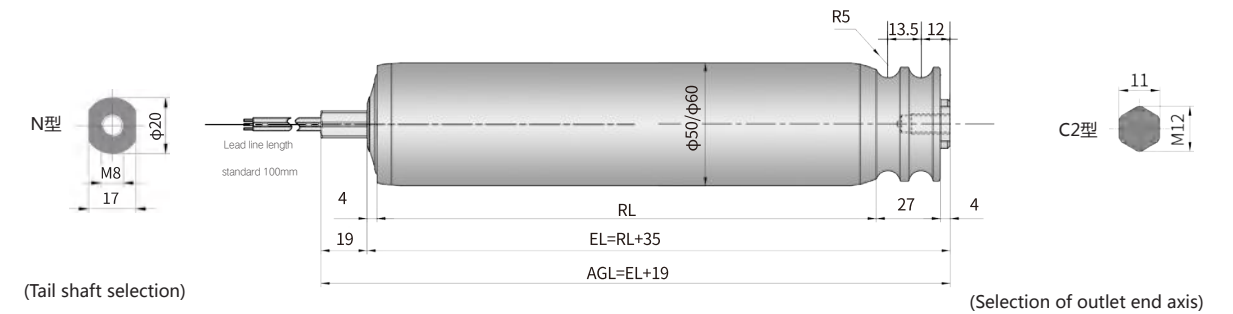
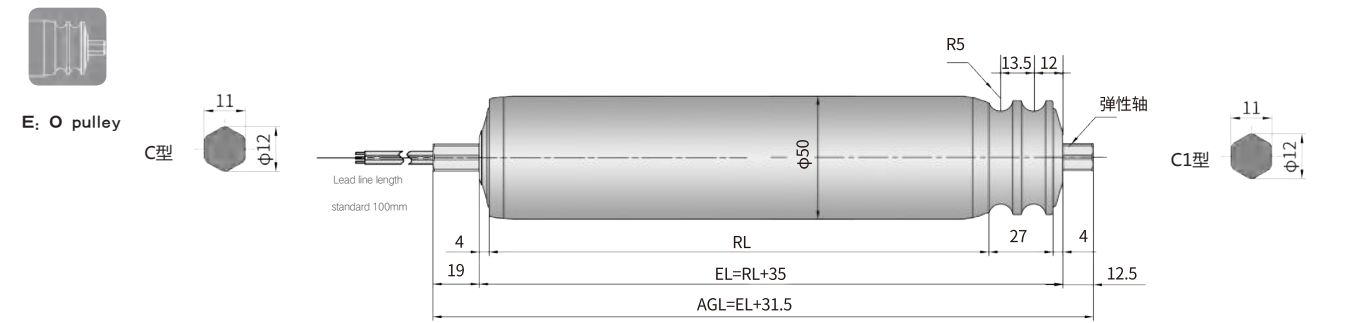


★synchronizing wheel: Synchronous belt can effectively prevent skidding, the picture is moulded nylon synchronous belt wheel, 2 slots, T5 type 26 teeth, can be customized to special requirements of the specification, material optional aluminum alloy, stainless steel. The steel wheel has no waterproof performance. The load capacity of the roller depends on the transmission arrangement and the type of synchronous belt. Under normal circumstances, the load capacity of the single zone can reach 100KG.

RL = Reference length/Order length \* (including capping)

EL = Installation length

AGL is the total length of the axis



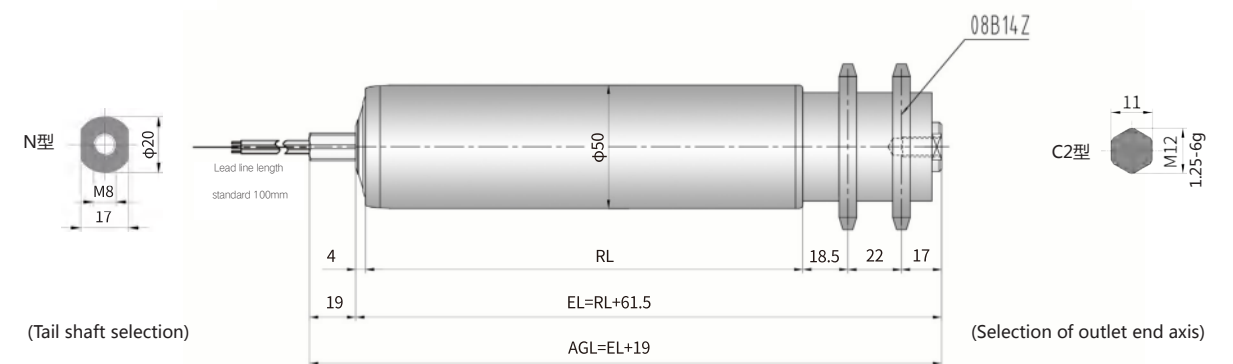
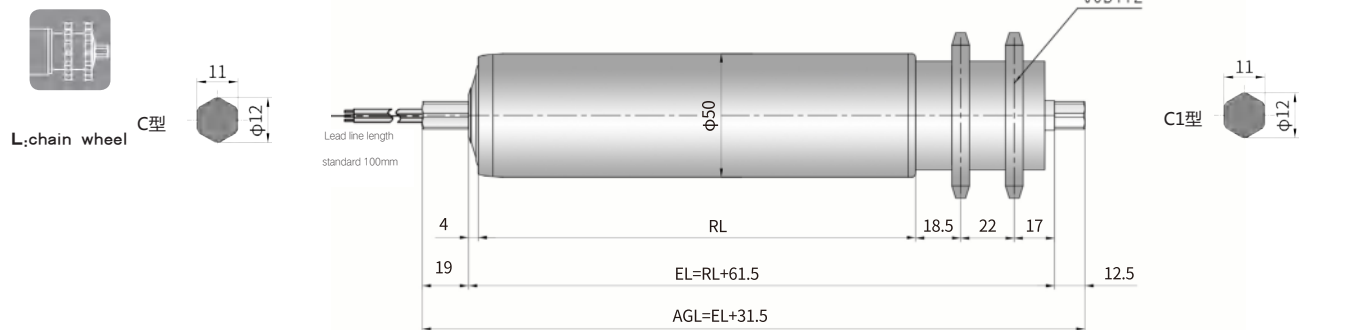
(Tail shaft selection)

★O pulley: which is manufactured by die, is connected by pu pulley, so it is very quiet and suitable for lightweight transport applications. Torque attenuation is fast, a single electric roller can usually only drive 7-8 passive electric roller, a conveying unit, the weight of a single cargo should not exceed 35KG

RL = Reference length/Order length \* (including capping)

EL = Installation length

AGL is the total length of the axis



(Tail shaft selection)

★chain wheel: Suitable for heavy transport, the commonly used sprocket is 08B14T, single chain or double chain. Material optional carbon steel, stainless steel. Torque attenuation is large, in order to play its best transmission performance, the double chain drive should be arranged in the middle of the conveyor as far as possible.

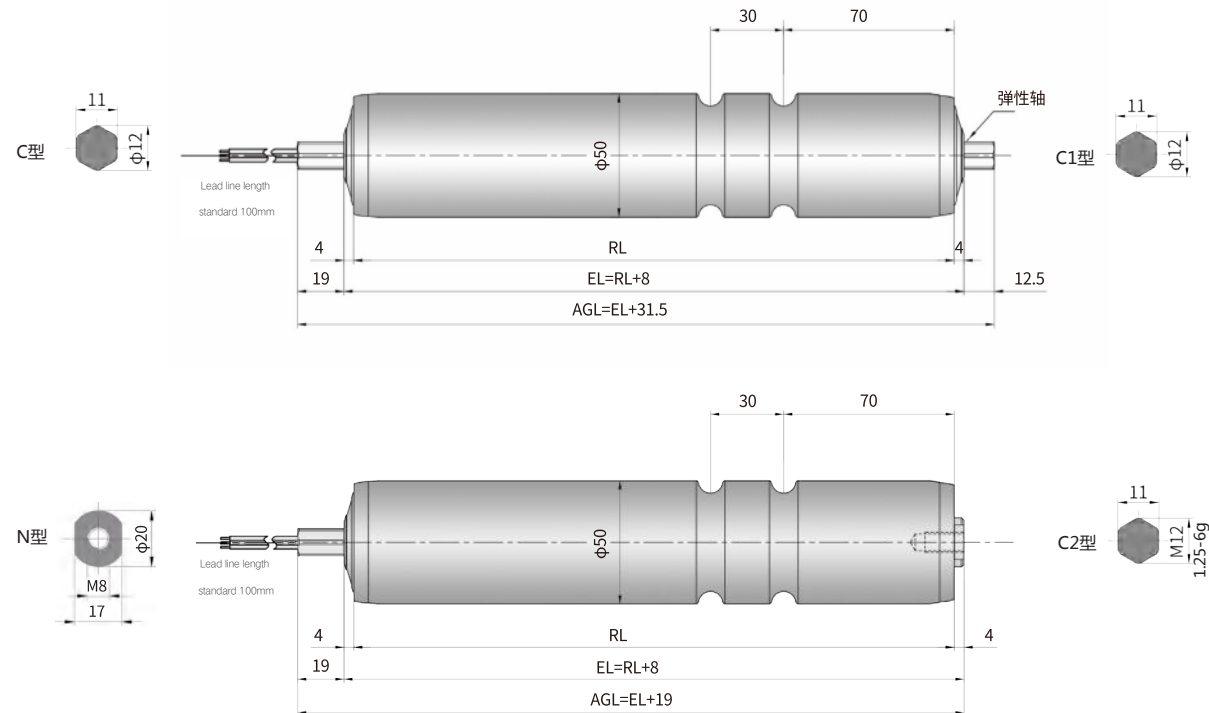
RL = Reference length/Order length \* (including capping)

EL = Installation length

AGL is the total length of the axis



O: O slots



(Tail shaft selection)

★**pressure tank**: The roller of the pressure tank is connected with polyurethane O belt, so it is very quiet and suitable for the application of lightweight transportation.

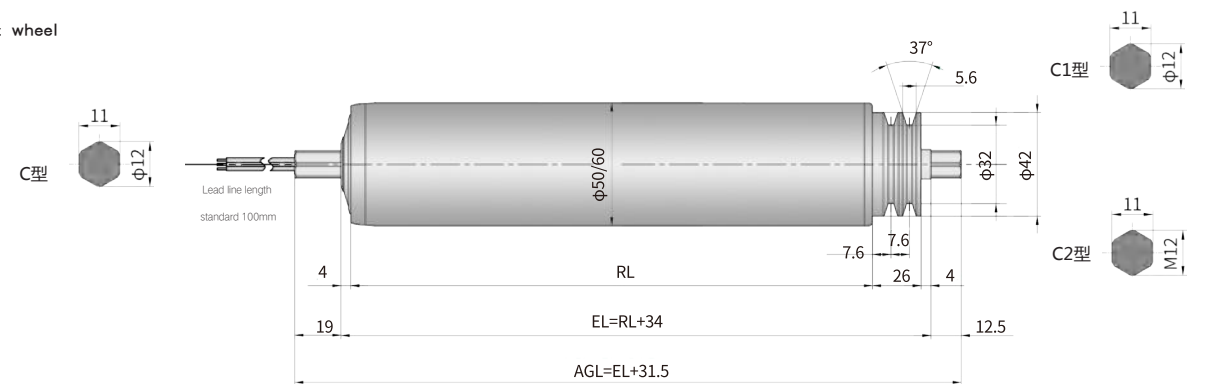
Torque attenuation is fast, a single electric roller can usually only drive 7~8 passive electric roller, a conveying unit, the weight of a single cargo should not exceed 35KG

★**remark**: If the tail shaft of the drum is an elastic shaft, please contact us to confirm the dimension of the pressing groove.

(Selection of outlet end axis)



V: V type belt wheel



(Tail shaft selection)

(Selection of outlet end axis)

★**V type belt wheel**: Saktung VC-6, V-wheel belt pulley is connected with polyurethane belt, so it is quiet and suitable for lightweight transport applications. Material optional aluminum alloy, stainless steel.

★**remark**: V-wheels don't bounce弹性轴;

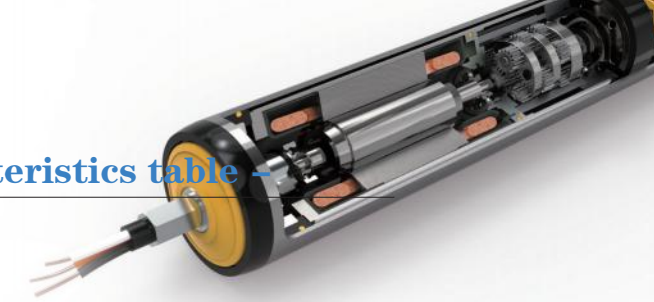
RL = Reference length/Order length \* (including capping)

EL = Installation length

AGL is the total length of the axis

## DGAC 50 – AS/HAS AC electric roller characteristics table

### Single



DGAC50-AS/HAS AC motor driver roller characteristics table—1PH220V

Nominal speed	Rated speed (Speed range)			Single-phase motor AS standard				Single phase motor HAS standard enhanced				
				capacitance 1.5 μF		rated power 7W		capacitance 2.5 μF		rated power 14W		
	米 / 分 m/min	米/秒 m/s	转/分 r/min	torque N.m		traction N		torque N.m		traction N		
	rated	start-up	rated	start-up	rated	start-up	rated	start-up	rated	start-up	rated	start-up
2	1.95	0.03	12.42	5.37	4.35	214.82	174.00	-	-	-	-	-
3	3.16	0.05	20.13	3.32	2.69	132.62	107.42	-	-	-	-	-
4	3.93	0.07	25.03	2.67	2.16	106.80	86.51	5.30	3.50	212.00	139.92	
5	4.91	0.08	31.27	2.14	1.73	85.44	69.21	4.24	2.80	169.60	111.94	
6	6.14	0.10	39.11	1.71	1.38	68.35	55.37	3.39	2.24	135.68	89.55	
8	7.81	0.13	49.75	1.34	1.09	53.71	43.50	2.67	1.76	106.61	70.36	
10	9.94	0.17	63.31	1.05	0.85	42.20	34.18	2.09	1.38	83.76	55.28	
13	12.65	0.21	80.57	0.83	0.67	33.15	26.86	1.65	1.09	65.81	43.44	
16	15.71	0.26	100.06	0.67	0.54	26.70	21.63	1.33	0.87	53.00	34.98	
20	19.63	0.33	125.03	0.53	0.43	21.36	17.30	1.06	0.70	42.40	27.98	
25	24.54	0.41	156.31	0.43	0.35	17.09	13.84	0.85	0.56	33.92	22.39	
31	31.24	0.52	198.98	0.34	0.27	13.43	10.88	0.67	0.44	26.65	17.59	
40	39.76	0.66	253.25	0.26	0.21	10.55	8.54	0.52	0.35	20.94	13.82	

remark: ■ four deceleration ■ Three deceleration ■ Two deceleration

※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;

※2. The values in this table are for reference only;

※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;

※4. Fixed speed, not adjustable speed;

※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;

※6. Sprocket drive mode is suitable for all gauges;

Multi-wedge belt drive mode single drive section load is not more than 100Kg;

O Belt drive mode single drive section load does not exceed 35Kg;

## DGAC50 AS/HAS Ac electric roller characteristics table-

### Three Phase

DGAC50-AS/HAS AC motor driver roller characteristics table—3PH220V/380V											
Nominal speed	Rated speed (Speed range)			Three-phase motor AS standard				Three-phase motor HAS standard enhanced			
				3PH220V 3PH380V		rated power 8W		3PH220V 3PH380V		rated power 16W	
	torque N.m		traction N		torque N.m		traction N				
	米 / 分 m/min	米 / 秒 m/s	转 / 分 r/min	rated	start-up	rated	start-up	rated	start-up	rated	start-up
3	3.16	0.05	20.13	4.97	16.69	198.68	667.56	-	-	-	-
4	3.93	0.07	20.86	4.00	13.44	160.00	537.60	6.00	23.46	240.00	938.40
5	4.91	0.08	26.06	3.20	10.75	128.00	430.08	4.80	18.77	192.00	750.72
6	6.14	0.10	32.59	2.56	8.60	102.40	344.06	3.84	15.01	153.60	600.58
8	7.81	0.13	41.45	2.01	6.76	80.46	270.34	3.02	11.80	120.69	471.88
10	9.94	0.17	52.76	1.58	5.31	63.22	212.41	2.37	9.27	94.82	370.76
13	12.65	0.21	67.14	1.24	4.17	49.67	166.89	1.86	7.28	74.50	291.31
16	15.71	0.26	83.39	1.00	3.36	40.00	134.40	1.50	5.87	60.00	234.60
20	19.63	0.33	104.19	0.80	2.69	32.00	107.52	1.20	4.69	48.00	187.68
25	24.54	0.41	130.25	0.64	2.15	25.60	86.02	0.96	3.75	38.40	150.14
31	31.24	0.52	165.82	0.50	1.69	20.11	67.58	0.75	2.95	30.17	117.97
40	39.76	0.66	211.04	0.40	1.33	15.80	53.10	0.59	2.32	23.71	92.69

remark: Three deceleration Two deceleration

※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;

※2. The values in this table are for reference only;

※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;

※4. 3PH220V is suitable for frequency converter 25HZ-65Hz speed regulation, 3PH380V is not suitable for frequency converter;

※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;

※6. Sprocket drive mode is suitable for all gauges;

Multi-wedge belt drive mode single drive section load is not more than 100Kg;

O Belt drive mode single drive section load does not exceed 35Kg;

Please feel free to contact us if you have any questions!

## DGAC60-AS/HAS AC roller motor specificity table-

### single phase

DGAC60-HAS Ac motor driver roller characteristics table—1PH220V/3PH220V/3PH380V											
Nominal speed	Rated speed (Speed range)			Single phase motor HAS enhanced				Three-phase motor HAS enhanced type			
				capacitance 2.5 μF		rated power 14W		3PH220V 3PH380V		rated power 16W	
	torque N.m		traction N		torque N.m		traction N				
	米 / 分 m/min	米/秒 m/s	转/分 r/min	rated	start-up	rated	start-up	rated	start-up	rated	start-up
5	4.71	0.08	25.00	5.30	3.50	176.67	116.06	6.00	23.46	200.00	782.00
6	5.89	0.10	31.26	4.24	2.80	141.33	93.28	4.80	18.77	160.00	625.60
7	7.36	0.12	39.07	3.39	2.24	113.07	74.62	3.84	15.01	128.00	500.48
9	9.37	0.16	49.73	2.67	1.76	88.84	58.63	3.02	11.80	100.57	393.23
12	11.93	0.20	63.32	2.09	1.38	69.80	46.07	2.37	9.27	79.02	308.97
15	15.18	0.25	80.57	1.65	1.09	54.84	36.02	1.86	7.28	62.09	242.76
19	18.85	0.31	100.05	1.33	0.87	44.17	29.15	1.50	5.87	50.00	195.50
24	23.56	0.39	125.05	1.06	0.70	35.33	23.32	1.20	4.69	40.00	156.40
30	29.45	0.49	156.32	0.85	0.56	28.27	18.66	0.96	3.75	32.00	125.12
38	37.48	0.62	198.94	0.67	0.44	22.21	14.66	0.75	2.95	25.14	98.31
48	47.71	0.80	253.24	0.52	0.35	17.45	11.52	0.59	2.32	19.76	77.24

remark: Three deceleration Two deceleration

※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;

※2. The values in this table are for reference only;

※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;

※4. 3PH220V is suitable for frequency converter 25HZ-65Hz speed regulation, 3PH380V is not suitable for frequency converter;

※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;

※6. Sprocket drive mode is suitable for all gauges;

Multi-wedge belt drive mode single drive section load is not more than 100Kg;

O Belt drive mode single drive section load does not exceed 35Kg;

## DGAC50 AS standard and HAS enhanced external minimum roll length comparison table

DGAC50 AS/HAS Minimum roll length -- AC										
roll diameter	Φ50									
generator style	AS-standard					HAS-enhanced				
linear speed (m/min)	2 ~ 3		4 ~ 13		16 ~ 40		4 ~ 13		16 ~ 40	
Internal thread bring ▲ Elastic shaft end ★	▲	★	▲	★	▲	★	▲	★	▲	★
Flat block	270	295	255	280	245	270	305	330	295	320
O wheel	280	280	270	270	260	260	320	320	310	310
Synchronous wheel	280	280	270	270	260	260	320	320	310	310
How is woven belt	280	280	270	270	260	260	320	320	310	310
chain wheel	265	265	250	250	240	240	300	300	290	290
soft top	255	280	240	265	230	255	290	315	280	305
Pressure tank	Due to the pressure slot and elastic axis and other variables, please contact us for the shortest size!									

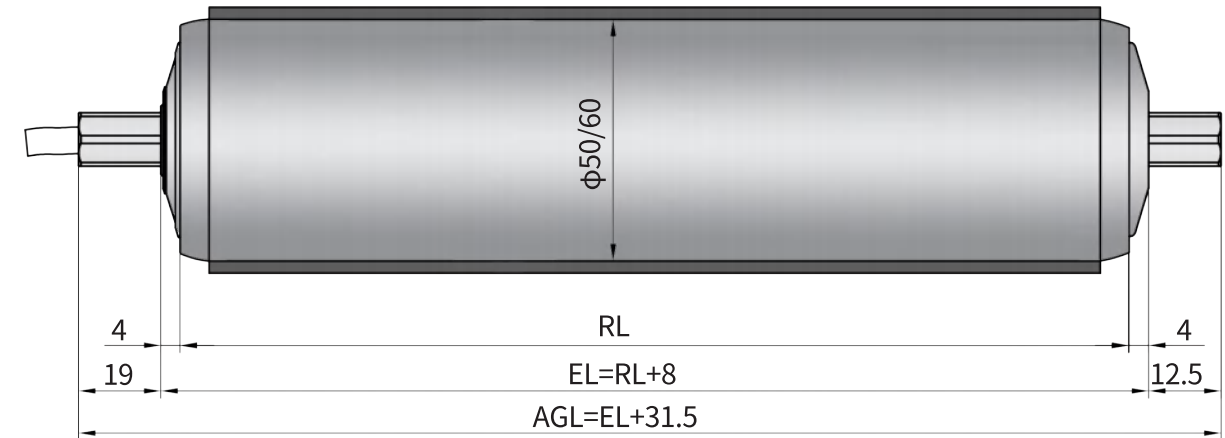
## DGAC60 HAS enhanced minimum roll length comparison table

DGAC60 HAS Minimum roll length -- AC				
roll diameter	HAS-enhanced			
generator style	HAS-enhanced			
linear speed (m/min)	5 ~ 15		19 ~ 48	
Internal thread bring ▲ Elastic shaft end ★	Internal thread ▲	elasticaxle ★	Internal thread ▲	elasticaxle ★
Flat block	305	330	295	320
O wheel	320	320	310	310
Synchronous wheel	320	320	310	310
How is woven belt	320	320	310	310
chain wheel	300	300	290	290
soft top	290	315	280	305
Pressure tank	Due to the pressure slot and elastic axis and other variables, please contact us for the shortest size!			

Roll length unit: mm

## Cylinder process classification

### Rubber roller bread



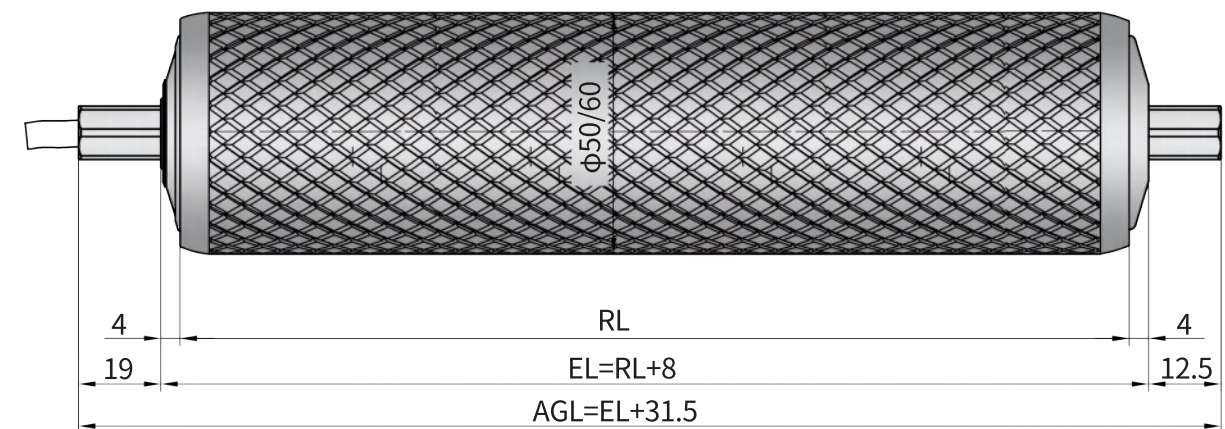
**Rubber tube bread:** Φ50 THE DIAMETER AFTER WRAPPING IS Φ55, Φ60 THE DIAMETER AFTER WRAPPING IS Φ65;  
In order to effectively improve the operation of the conveying system, prevent slipping (such as specific station speed, small Angle of climbing, etc.), the need to produce larger friction between the contact surface, roller surface coating is the most commonly used treatment. And the glue can also protect the bottom of the goods, reduce the transmission noise and so on.

★remark: Default black rubber or polyurethane adhesive; Special requirements, inform the business when selecting.

**Tube surface PVC soft adhesive:** ΦAFTER 50 PACKETS OF GLUE, THE DIAMETER IS Φ54, Φ60AFTER 50 PACKETS OF GLUE, THE DIAMETER IS Φ64;

In addition to the traditional packaging, you can also choose the roller coat PVC soft adhesive solution, which has most of the functions of packaging, in increasing friction, protecting the bottom of the goods, noise reduction and shock absorption and other aspects similar to the packaging, but its production cycle and cost-effective performance has a good performance.

### Knurling roller surface

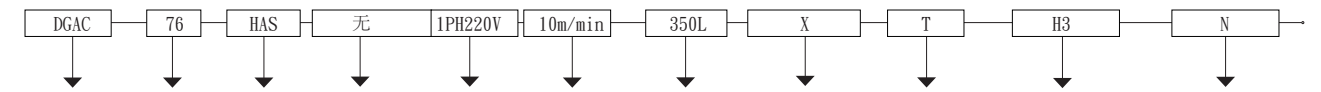







**Barrel knurling treatment:** Roller surface knurling, can increase the friction between conveying objects and roller. The pattern on the surface of the drum is mainly reticulated.



## DGAC60/76 High torque Example of DG Product Model Order Code Selection

Select the required parameters according to the following table:

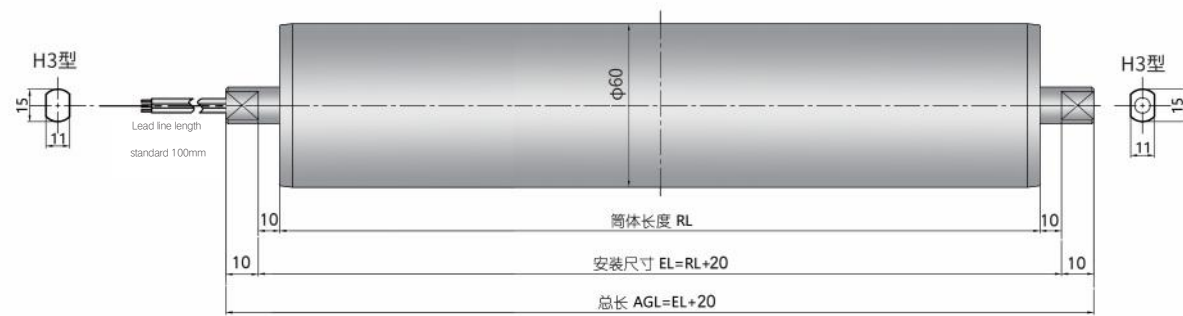


Category	Diameter	Motor Power	Control card type	Mains input*	Line speed	Tube RL*	Tubmaterial *	Drive mode	Shaft style	
									Outlet end shaft	all shaft
DGAC	60	HBP						L: sprocket  X: Galvanized carbon steel  G: Carbon steel plated with hard chrome  Ni: Nickel plating on carbon steel  P: Covered with polyurethane adhesive  S3: Stainless steel 304 S2: Stainless steel 201 JT: set of glue JZ: plastic bags JP: PCV glue JG: silica gel	H3:Φ15Double wash flat 11	H3:Φ15Double wash flat 11
DGAC	76	HAS	nought	1PH220V 3PH220V 3PH380V	10m/min	reference P25			C3: M20x1.5 hexagon The edge 17.3	C4: φ 20 hexagonal opposite side 17.3
DGAC	76	HBP								N2: M12 internal thread
										N1: M8 internal thread

Can customize other voltage and drum shape;  
 Special requirements: Dustproof and waterproof (IP65) -- HS; Brake (mechanical brake) -- Z;  
 76HAS no single phase voltage

## DGAC60 HBP selection example

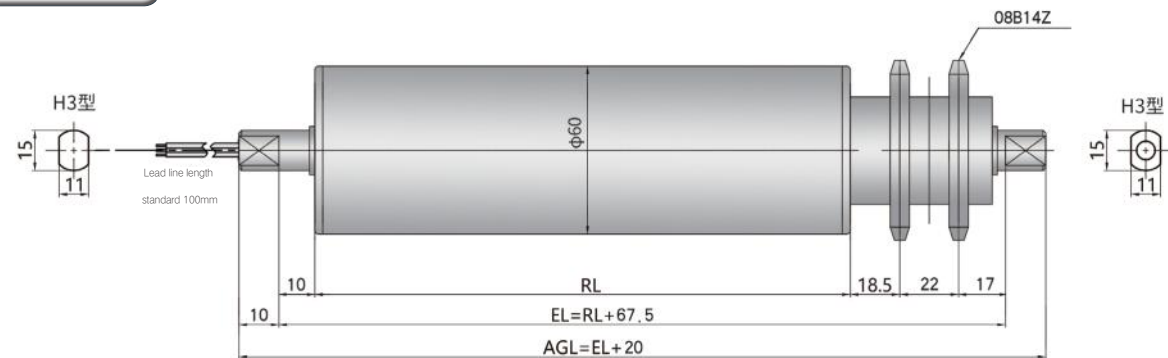
### Model Selection 1



### DGAC60 - HBP - 1PH220V - 11M/MIN - 300L - X - I - H3H3

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: 15 Wash flat on both sides 11
- drive mode: Straight roll
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 11m/min
- mains input: 1PH220V
- motor power: High torque booster
- Drum size type: Diameter 60 AC motor driver roller

### 选型范例2

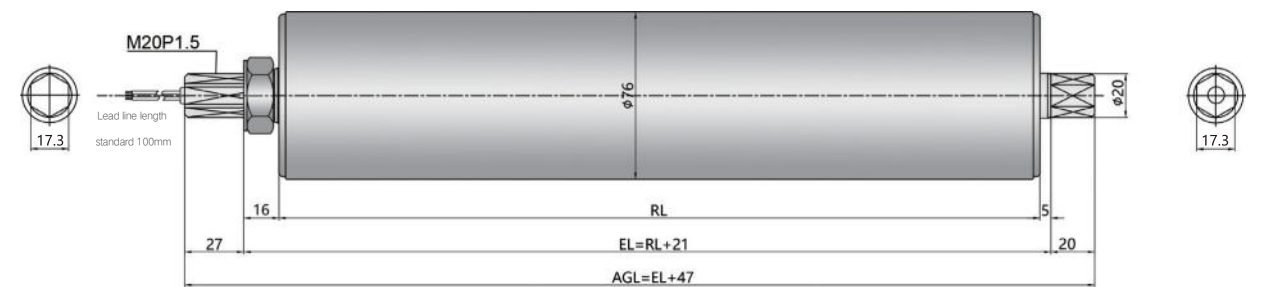


### DGAC60 - HBP - 3PH220V - 11M/MIN - 300L - X - L - H3H3

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: 15 Wash flat on both sides 11
- drive mode: chain wheel
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 11m/min
- mains input: 3PH220V
- motor power: High torque booster
- Drum size type: Diameter 60 AC motor driver roller

## DGAC76 selection example

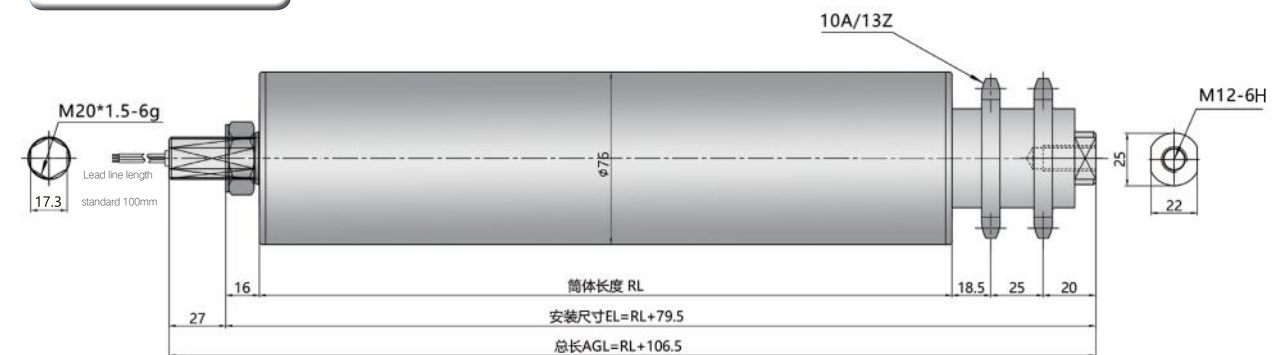
### Model Selection 1



### DGAC76 - HBP - 1PH220V - 10M/MIN - 350L - X - I - C3C4

- Outlet Axis H3: M20\*1.5 hexagon side 17.3
- Tail Axis H3: φ20 hexagon opposite 17.3
- drive mode: Straight roll
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 350mm
- line speed: 10m/min
- mains input: 1PH220V
- motor power: High torque booster
- Drum size type: Diameter 76 AC motor driver roller

### Model Selection 2

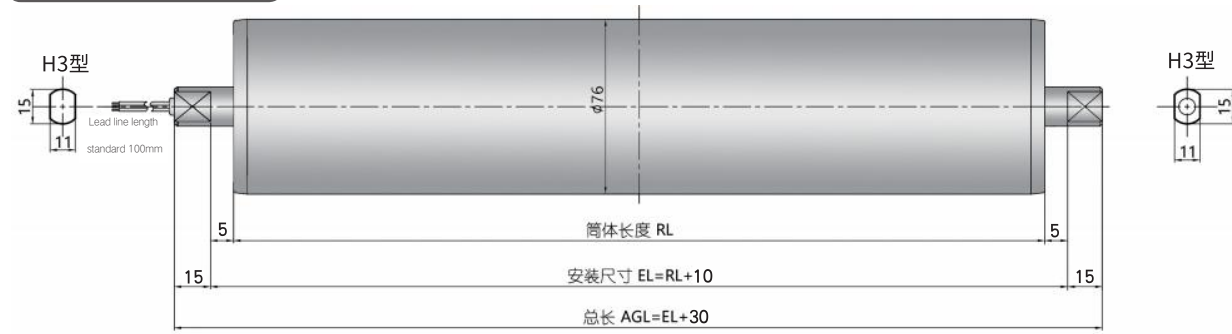


### DGAC76 - HBP - 3PH220V - 10M/MIN - 350L - X - L - C3N2

- Outlet Axis H3: M20\*1.5 hexagon side 17.3
- Tail Axis H3: Within the M12 thread
- drive mode: chain wheel
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 350mm
- line speed: 10m/min
- mains input: 3PH220V
- motor power: High torque booster
- Drum size type: Diameter 76 AC motor driver roller

## DGAC76 HAS standard graphics and model selection examples

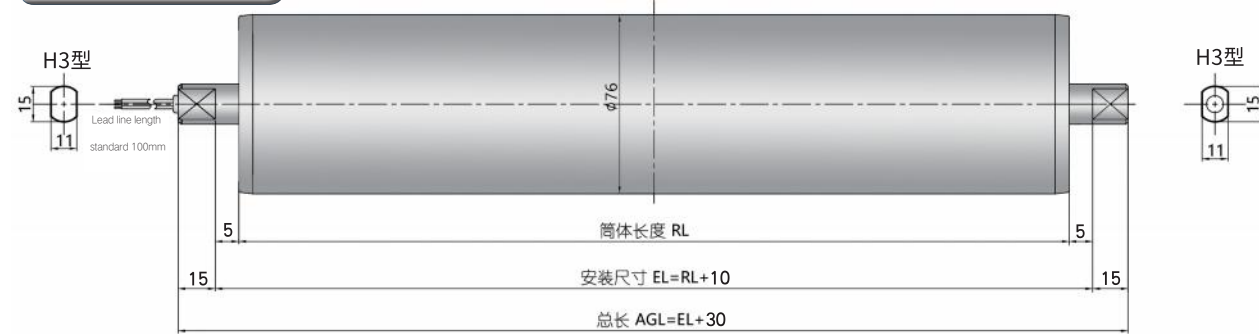
### Model Selection 1



#### DGAC76 - HAS - 3PH220V - 10M/MIN - 300L - X - I - H3H3

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: 15 Wash flat on both sides 11
- drive mode: Straight roll
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 10m/min
- mains input : 3PH220V
- motor power: Standard booster
- Drum size type: Diameter 76 AC motor driver roller

### Model Selection 2

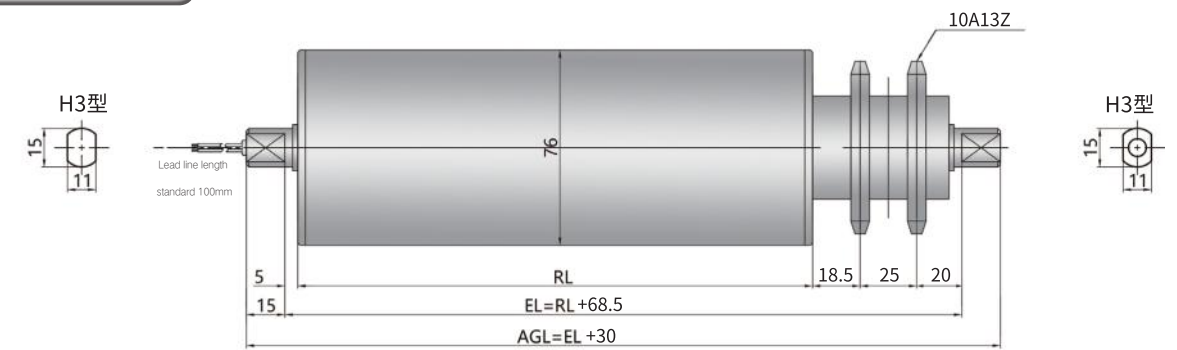


#### DGAC76 - HAS - 3PH220V - 10M/MIN - 300L - X - I - H3H3

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: 15 Wash flat on both sides 11
- drive mode: Straight roll
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 10m/min
- mains input : 3PH220V
- motor power: Standard booster
- Drum size type: Diameter 76 AC motor driver roller

## DGAC76 HAS standard graphics and model selection examples

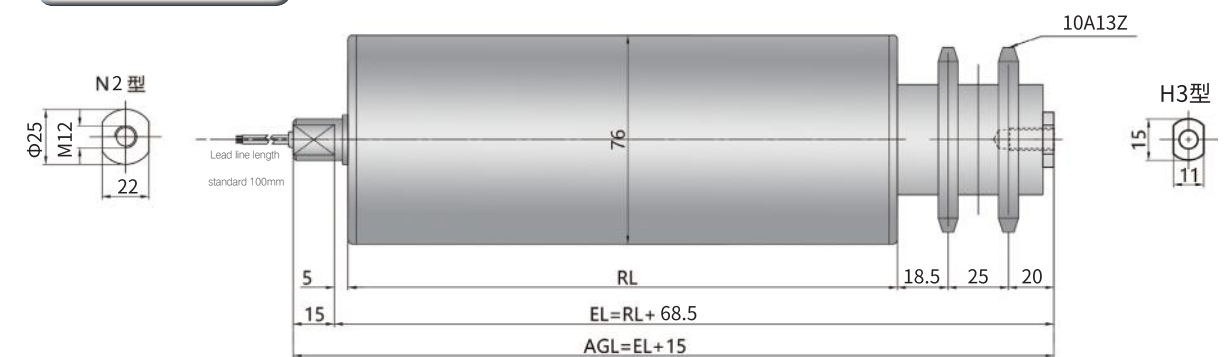
### Model Selection 1



#### DGAC76 - HAS - 3PH220V - 10M/MIN - 300L - X - L - H3H3

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: 15 Wash flat on both sides 11
- drive mode: sprocket wheel
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 10m/min
- mains input : 3PH220V
- motor power: Standard booster
- Drum size type: Diameter 76 AC motor driver roller

### Model Selection 2



#### DGAC76 - HAS - 3PH220V - 10M/MIN - 300L - X - L - H3N2

- Outlet Axis H3: 15 Wash flat on both sides 11
- Tail Axis H3: Type N2 M12 internal thread
- drive mode: sprocket wheel
- Cylinder material: Carbon steel galvanized
- Cylinder length RL: 300mm
- line speed: 10m/min
- mains input : 3PH220V
- motor power: Standard booster
- Drum size type: Diameter 76 AC motor driver roller

## DGAC60-HBP AC Roller Motor Feature Table single phase/Three Phase

DGAC60-HBP Three-phase AC motor driver roller characteristics table— 1PH220V/3PH220V/3PH380V											
Nominal speed	Rated speed (Speed range)			Single phase motor HBP high torque				Three-phase motor HBP high torque			
				capacitance 5 μF		rated power 35W		3PH220V 3PH380V		rated power 40W	
	torque N.m		traction N		torque N.m		traction N				
	米 / 分 m/min	米 / 秒 m/s	转 / 分 r/min	rated	start-up	rated	start-up	rated	start-up	rated	start-up
<b>6</b>	5.62	0.09	29.83	13.34	40.02	444.78	600.45	12.85	53.73	428.48	1791.05
<b>7</b>	7.01	0.12	37.21	10.70	32.1	356.59	481.39	10.31	43.08	343.52	1435.93
<b>11</b>	11.02	0.18	58.49	6.81	20.43	226.88	306.29	6.56	27.41	218.57	913.61
<b>14</b>	13.75	0.23	72.98	5.46	16.38	181.89	245.56	5.26	21.97	175.23	732.47
<b>17</b>	17.23	0.29	91.45	4.35	13.05	145.09	195.87	4.19	17.53	139.77	584.25
<b>27</b>	27.17	0.45	144.21	2.76	8.28	92.02	124.23	2.66	11.12	88.65	370.56
<b>34</b>	33.89	0.57	180.84	2.20	6.60	73.40	99.09	2.12	8.87	70.71	295.58
<b>43</b>	42.49	0.71	225.53	1.77	5.31	58.85	79.45	1.70	7.11	56.69	236.97
<b>53</b>	53.27	0.89	282.75	1.41	4.23	46.94	63.37	1.36	5.67	45.22	189.02

remark: Three deceleration Two deceleration

- ※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;
  - ※2. The values in this table are for reference only;
  - ※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;
  - ※4. 3PH220V is suitable for frequency converter 25HZ - 65Hz speed regulation, 3PH380V is not suitable for frequency converter;
  - ※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;
  - ※6. Sprocket drive mode is suitable for all gauges;
- Especially suitable for belt conveyor and heavy pallet conveying;

## DGAC76-HAS AC Roller Motor Feature Table single phase/Three Phase

DGAC76-HAS Ac motor driver roller characteristics table 3PH220V/3PH380V							
Nominal speed	Rated speed (Speed range)			Three-phase motor HAS			
				3PH220V 3PH380V		rated power 40W	
	torque N.m		traction N				
	米 / 分 m/min	米 / 秒 m/s	转 / 分 r/min	rated	start-up	rated	start-up
<b>7</b>	6.65	0.111	27.85	13.67	38.68	359.72	1018.02
<b>8</b>	8.18	0.136	34.28	11.11	31.43	292.28	827.14
<b>10</b>	10.07	0.168	42.19	9.02	25.54	237.47	672.05
<b>13</b>	13.25	0.221	55.51	6.86	19.41	180.48	510.76
<b>17</b>	17.44	0.291	73.081	5.21	14.75	137.16	388.18
<b>23</b>	22.95	0.383	96.10	3.963	11.21	104.25	295.01
<b>27</b>	26.60	0.443	111.40	3.42	9.67	89.93	254.50
<b>33</b>	32.74	0.546	137.11	2.78	7.86	73.07	206.78
<b>40</b>	40.29	0.672	168.75	2.26	6.38	59.37	168.01
<b>53</b>	53.01	0.884	222.04	1.71	4.85	45.12	127.69
<b>70</b>	69.76	1.163	292.16	1.30	3.69	34.29	97.04

remark: Three deceleration Two deceleration

- ※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;
- ※2. The values in this table are for reference only;
- ※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;
- ※4. 3PH220V is suitable for frequency converter 25HZ - 65Hz speed regulation, 3PH380V is not suitable for frequency converter;
- ※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;
- ※6. Sprocket drive mode is suitable for all gauges;

## DGAC76-HAS AC Roller Motor Feature Table single phase/Three Phase

DGAC76-HBP Ac motor driver roller characteristics table— 1PH220V/3PH220V/3PH380V											
Nominal speed	Rated speed (Speed range)			Single phase motor HBP high torque				ree-phase motor HBP Ultra high torque			
				capacitance 4 μ F		rated power 50W		3PH220V 3PH380V		rated power 80W	
	torque N.m		traction N		torque N.m		traction N				
	米 / 分 m/min	米 / 秒 m/s	转 / 分 r/min	rated	start-up	rated	start-up	rated	start-up	rated	start-up
7	6.65	0.111	27.866	17.06	39.76	449.02	1046.21	27.44	94.11	722.00	2476.45
8	8.18	0.136	34.278	13.86	32.30	364.83	850.04	22.29	76.46	586.62	2012.12
10	10.07	0.168	42.197	11.26	26.25	296.42	690.66	18.11	62.12	476.63	1634.85
13	13.25	0.221	55.51	8.56	19.94	225.28	524.9	13.77	32.08	362.24	1242.48
17	17.44	0.291	73.081	6.51	15.16	171.21	398.93	10.46	35.88	275.30	944.29
23	22.95	0.383	96.170	4.94	11.52	130.12	303.18	7.95	27.27	209.23	717.66
27	26.60	0.443	111.465	4.27	9.94	112.25	261.55	6.86	23.53	180.50	619.11
33	32.74	0.546	137.194	3.47	8.08	91.21	212.55	5.57	19.12	146.66	503.03
40	40.29	0.672	168.832	2.82	6.56	74.11	172.67	4.53	15.53	119.16	408.71
53	53.01	0.884	222.134	2.14	4.99	56.32	131.23	3.44	11.80	90.56	310.62
70	69.76	1.163	292.323	1.63	3.79	42.80	99.73	2.62	8.97	68.83	236.07

remark: Three deceleration Two deceleration

※1. 1 N = 0.1 KGF, 1 N · m = 0.1 KGF · m;

※2. The values in this table are for reference only;

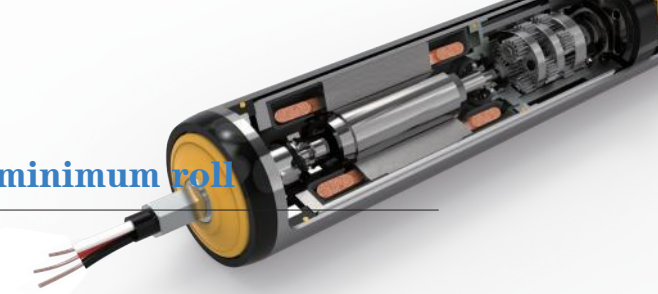
※3. Rated speed refers to the speed at rated voltage and rated load. Overvoltage or undervoltage No load or overload, speed changes;

※4. 3PH220V is suitable for frequency converter 25HZ - 65HZ speed regulation, 3PH380V is not suitable for frequency converter;

※5. Other speeds can be customized; For faster speed, please refer to DGDD direct drive electric drum sample;

※6. Sprocket drive mode is suitable for all gauges;

## DGAC60 HBP high torque enhanced external minimum roll length comparison table



DGAC60 HBP Minimum roll length -- AC		
roll diameter	Φ 60	
generator style	HBP	
linear speed (m/min)	27-53	6-17
Internal thread bring ▲	Internal thread ▲	Internal thread ▲
Straight roll	300	320

## DGAC76 HAS standard plug-in minimum roll length comparison table

DGAC76 HAS Minimum roll length -- AC		
roll diameter	Φ 76	
generator style	HAS	
linear speed (m/min)	27 ~ 70	7 ~ 23
Internal thread bring ▲	Internal thread ▲	Internal thread ▲
Straight roll	270	290
sprocket	275	295
synchronizing wheel	275	295

## DGAC76 HBP high torque reinforced minimum roll length comparison table

DGAC76 HBP Minimum roll length -- AC		
roll diameter	Φ 76	
generator style	HBP	
linear speed (m/min)	27 ~ 70	7 ~ 23
Internal thread bring ▲	Internal thread ▲	Internal thread ▲
Straight roll	320	340

## Ac electric roller – standard shaft with corresponding type of junction box

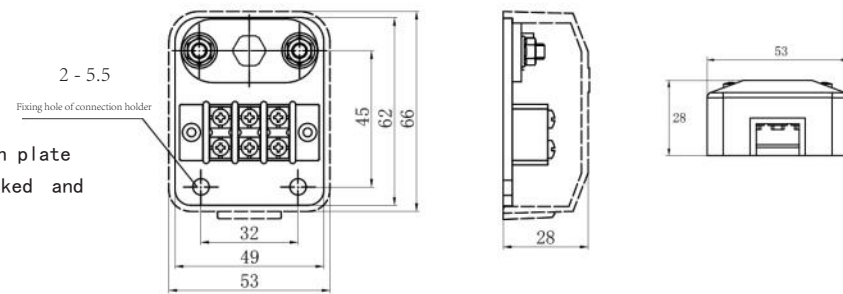
DGAC50 / 60 ELECTRIC ROLLER - STANDARD  $\Phi$  12 AND  $\Phi$  15 AXIS IS EQUIPPED WITH CORRESPONDING MODEL JUNCTION BOX



### Junction box dimension drawing

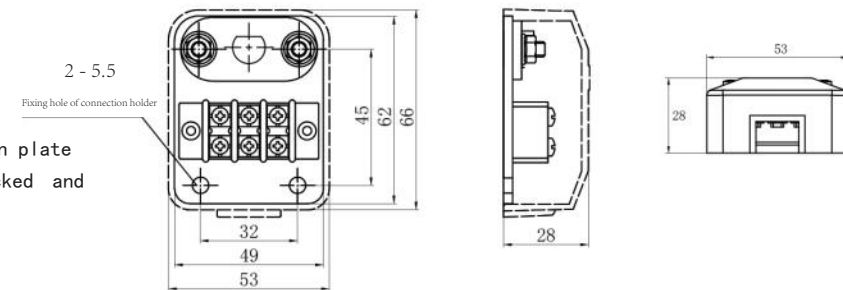
#### C junction box

- ★ Material: 3.2mm galvanized iron plate
- ★ Wire end shaft must be locked and cannot be loosened



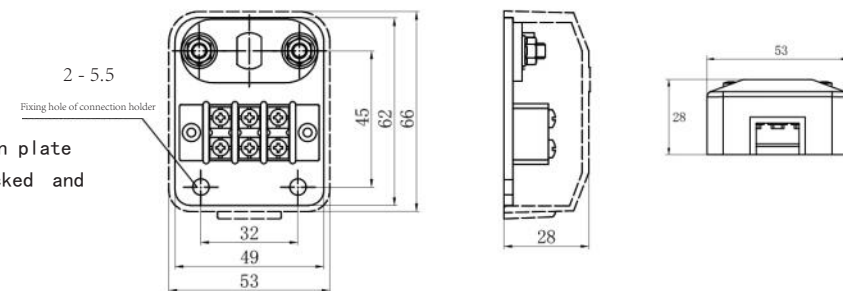
#### Type D junction box

- ★ Material: 3.2mm galvanized iron plate
- ★ Wire end shaft must be locked and cannot be loosened



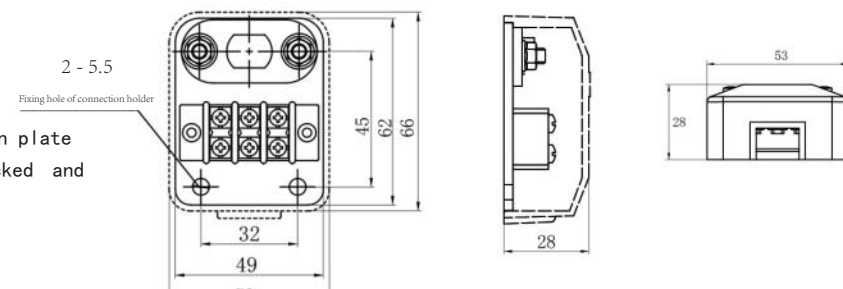
#### H-type 12-axis junction box

- ★ Material: 3.2mm galvanized iron plate
- ★ Wire end shaft must be locked and cannot be loosened



#### H-type 15-axis junction box

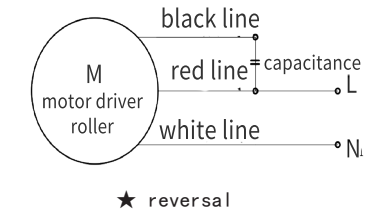
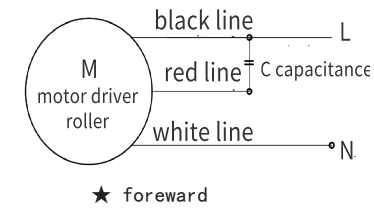
- ★ Material: 3.2mm galvanized iron plate
- ★ Wire end shaft must be locked and cannot be loosened



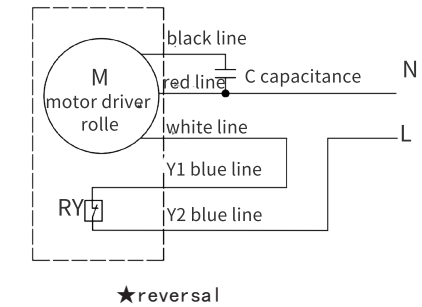
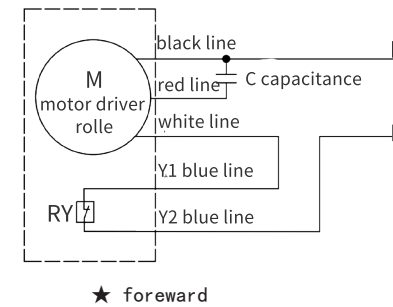
## Dgac50 / 60 /76electric drum – wiring schematic diagram of AC

### single-phase drum

#### Ac 50/60 motor driver roller



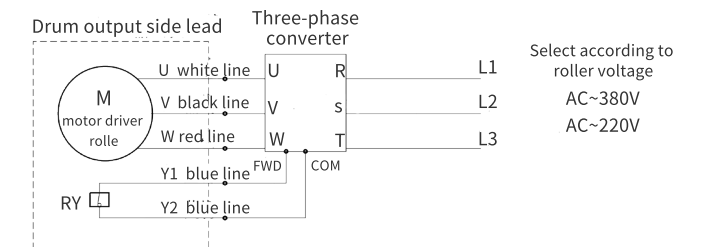
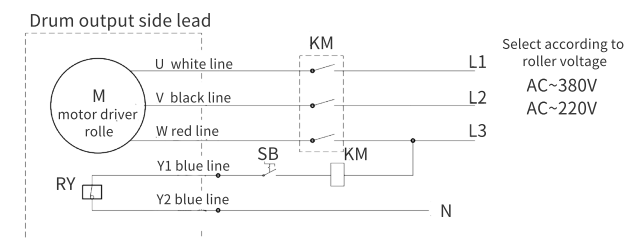
#### Ac 76 motor driver roller



## Dgac50 / 60 / 76 electric drum – wiring schematic diagram of AC

### three-phase drum

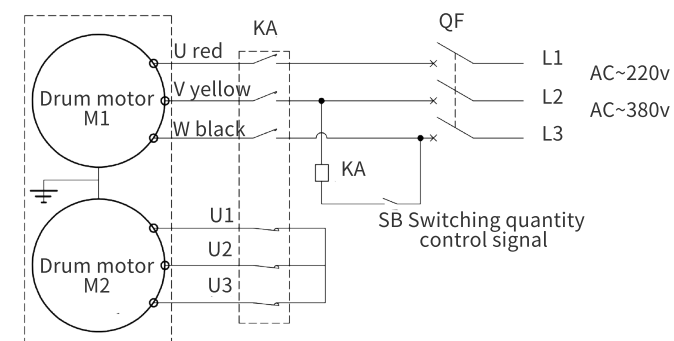
#### Temperature protection



★remark: The same applies only to the drum without speed regulation

★remark: Set the frequency converter (DWD,COM) electric shock function, so that the frequency converter work electric shock connection. The contact is disconnected when the frequency converter stops.

#### electromagnetic brake





whatsapp



wechat

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