JIATIAN®

SUSPENSION REDICER
TA系列悬挂式减速机

体积小、扭矩大、噪音低、效率高 硬齿面齿轮传动、传动小、扭矩大
扭力臂附件。

上海嘉田传动机械有限公司

电话:021-64525832 021-64525833
手机:13817843940（微信同号）

地址:上海市松江区新桥工业园
官网:http://www.jtjsj.com/

1、设计特点 DESIGN CHARACTERISTICS

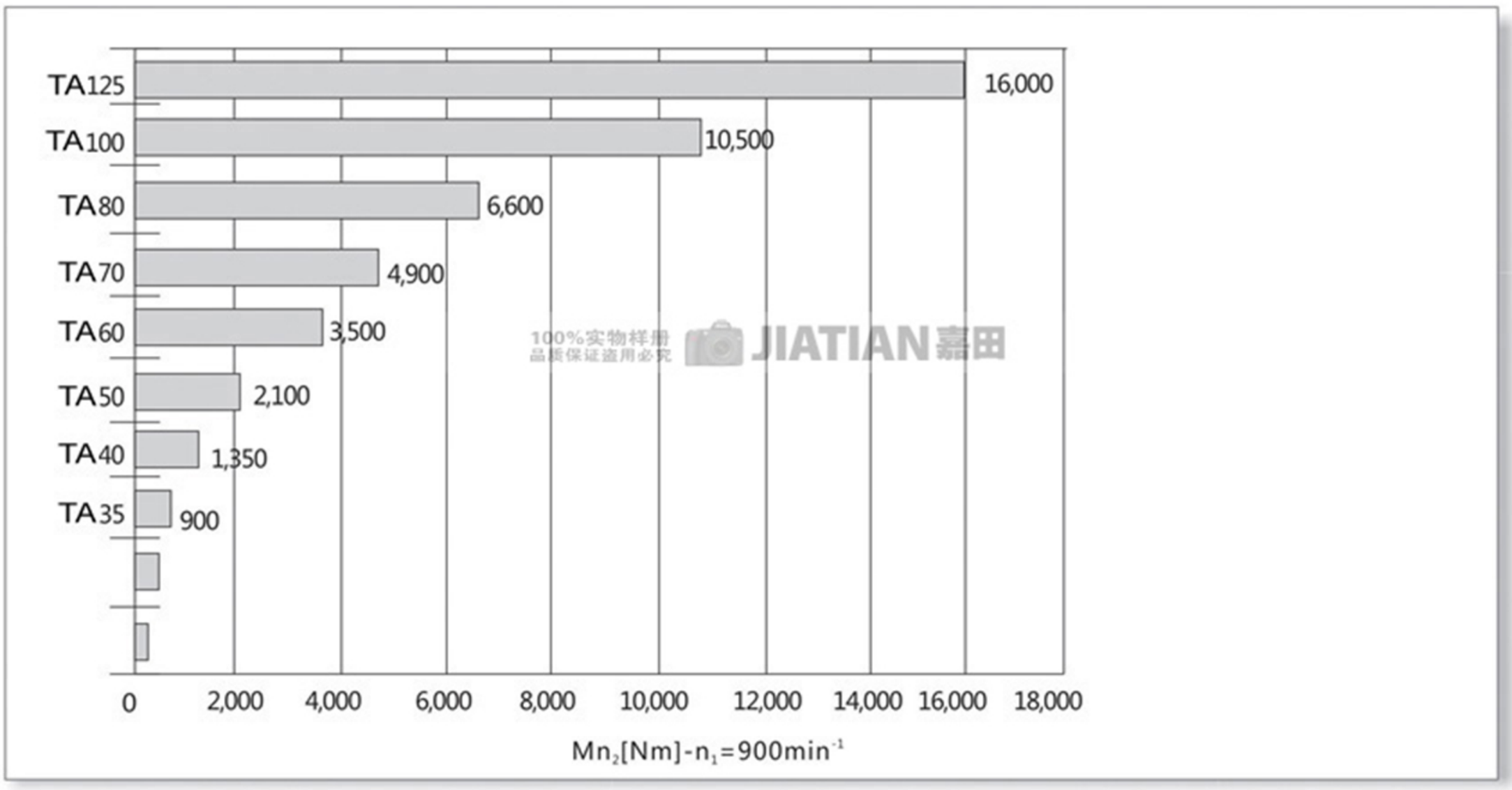
主要的设计特点如下：

1) 高效率
2) 噪音低
3) 硬齿面齿轮传动
4) 体积小，扭拒大
5) 扭力臂附件

The Characteristics are as Follows:

1) High efficiency
2) Low noises
3) Hard tooth surface gears
4) The volume is small. the torque is big.
5) For easy adjustment of the bolt.

(A1)



2、功率 POWER

额定功率

Pn1 [KW]

在齿轮箱选择图表中，功率是指在使用中系数fs=1的情况下，作用于输入轴上的，与输入转速有关。

Ratedpower

Pn1 [KW]
The power is the one based on input, it also relate to the speed under the situation of service factor fs=1.

3、使用系数 SER VICE FACTOR

该要素表示齿轮箱的使用系数，考虑到不可避免的误差及正常操作条件中的负荷不同，不论使用系数是怎样的值，我们都希望提醒您：在一些应用中，如零部件的装配，齿轮箱的故障，都有可能导致齿轮箱的损坏。假如你有疑问，请与我们技术中心联系。

Service factor is the one describing reducer service duty, considering unavoidable approximation and the difference of daily operating condition, involve fitting of parts, failure of the reducer all lead to thr injure of the gearbox .If you have any question, please contect our technical service.

(A2)

每小时起动次数 Starts per hour	负荷 Duty	每天操作小时数 Daily operaring hours			
		H≤0.5	0.5<H≤2	2<H≤10	10<H≤24
Z<10	均布荷载 Uniform loading	0.8	0.9	1.0	1.25
	中度瞬间荷载 Modernte shock loading	0.9	1.0	1.25	1.5
	重度瞬间荷载 Heavy shock loading	1.0	1.25	1.5	1.75
Z≥10	均布荷载 Uniform loading	0.9	1.0	1.25	1.5
	中度瞬间荷载 Moderate shock loading	1.0	1.25	1.5	1.75
	重度瞬间荷载 Heavy shock loading	1.25	1.5	1.75	2.0

上面列出的值在下列情况下必须乘以1.2:

-换向操作

-瞬时冲击负荷

Values listed above must be multip lied by 1.2in case of:

-Reversing operation

-Shock loading applying instantaneously

4、扭矩 TORQUE

许用扭矩

M_{n2}[Nm]

齿轮箱在使用系数fs = 1的情况下，通过输出轴所传递的扭矩，许用扭矩与转速有关。

Ratedpower

M_{n2}[Nm]

Rated torque the one through the output shaft, and also relate to the speed. It is used under the situation of service factor fs = 1

工作扭矩

M_{n2}[Nm]

扭矩要求是基本应用要求的。

它必须是相同于或小于研究的齿轮箱的许用扭矩 M_{n2}。

Required Torque

M_{n2}[Nm]

Required torque is thr one through the a ctual application requirement It muse be equal toor less than the rated torque M_{n2}

输出扭矩

M_{n2}[Nm]

输出扭矩值在选择齿轮箱时将使用到

在考虑工作扭矩Mn2和使用系数fs后可按照下列公式计算出来：

Cal Culated Torque

M_{n2}[Nm]

Cal culated torque is the one used in selecung the gearbox We can have the value as per the equation after considering both required torque Mr2 and setvice factor fs

$$Mc2=Mr2 \cdot fs<Mn2 \quad (1)$$

5、转速 SPEED

输入转速

$n1[min^{-1}]$

该速度是和选择的电机有关的按照目录上的值是指工业中常见的单速或双速马达的速度。

假如齿轮箱时通过外部电机驱动的，我们建议在1400rpm或以下的速度下操作齿轮箱，这样可以优化操作条件和使用寿命。更高的输入转速是允许的，但是这样的话，许用扭矩Mn2将受到影响。详情请咨询艾克森销售代表。

Input Speed

$n1[min^{-1}]$

The speed is the one used industry driven by either single or double speed motor. It is based on the selectted motor.

If the gearbox is driven by outer motor, we suggest the speed under 1400rmp or even ower which will optimize operating conditions and lifetime, though the higher input shaft is permitted, the rated torque M_{n2} willbe affected. Please contact AIKESEN representative for more in fonnation.

输出转速

$n1[min^{-1}]$

输出转速值n2是通过输入转速n1和齿轮数比i之间的关系，按照下列公式计算的：

Output Speed

$n1[min^{-1}]$

Output speed n2 is the one calulated by the following equation through the input speed n1 and the gear radion I.

$$n_2=\frac{n_1}{i} \quad (2)$$

6、选型 SELECTION

A.决定使用系数f2

B.根据已知的M2算出输出扭矩,扭矩计算公式如下:

a) Determine the service factor f2

b) Calculate the output torque Mr2 according to the rated torque, the equation as:

$$Mc2=Mr2 \cdot fs \quad (3)$$

C.齿轮速比是按照客户要求输出转速n2和输入转速n1计算出来的:

C) Calculate ratio according to the output speed n2and input speed n1:

$$i=\frac{n_1}{n_2} \quad (4)$$

如果mc2和i是已知的话，在选型表中根据合适的输入转速，找出于减速比i最接近的减速机型号，并同是满足许用扭矩值Mn2如下：

If you have known the Mc2 and I, select the suitable input speed in the chart, and find out which is the closest reducer model with radio I, at same time satisfy the rated torque Mn2 as following;

$$Mn2 \geqslant Mc2 \quad (5)$$

7、安装 INSTALLATION

以下安装指示必须遵守:

A.确保齿轮箱正确的安装,以防松动。假如必须在超负荷或有震动的场合使用，请安装液压偶合器，扭矩限制器等。

B.在上漆之前,零件加工面和油封外表面必须有保护措施,以防止油漆干在橡胶上面破坏密封功能。

C.齿轮箱在投入使用之前，应确保和齿轮箱连接的设备应符相关的技术规定。

D.在启动机器之前,应确保油面符合齿轮箱的规定的装配位置,油的黏度应适合齿轮箱的使用的。详见图表A4.

E.对于室外安装，必须采用适当的措施来保护电机不受下雨或阳光暴晒的影响。

在装配之前，各安装面必须保持干净，并进行适当的处理以防止生锈。

A Make sure the correct installation of gear boxes to avoid vibrations, etc if used in shocked or over-loaded situation.

B Before the operation of gearbox, please make sure the connected equipments accord with the technical specification.

C The machine surface and the outer face of the oil seals must be protected before painting in order to keep the sealing faction.

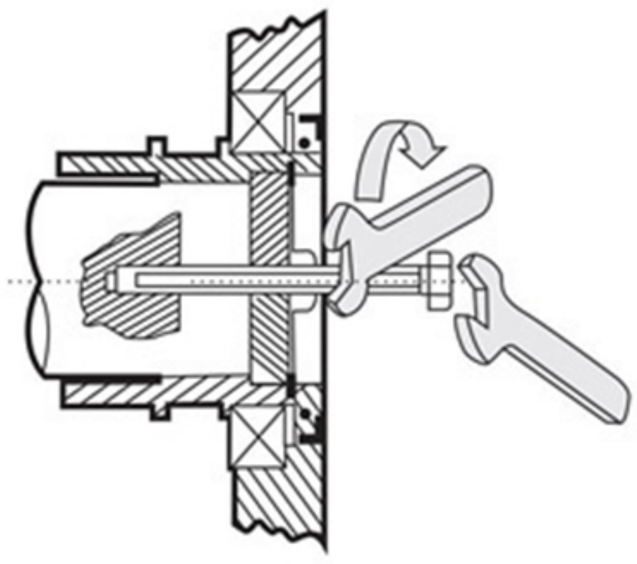
D Before the starting of machine makes sure the oil level conforms to the machine level, viciousness of oil is suitable for gearbox. Detail in chart A4.

E For outdoor in stallation,we should take proper way to protect motors from ranfalls as well as sunshine.

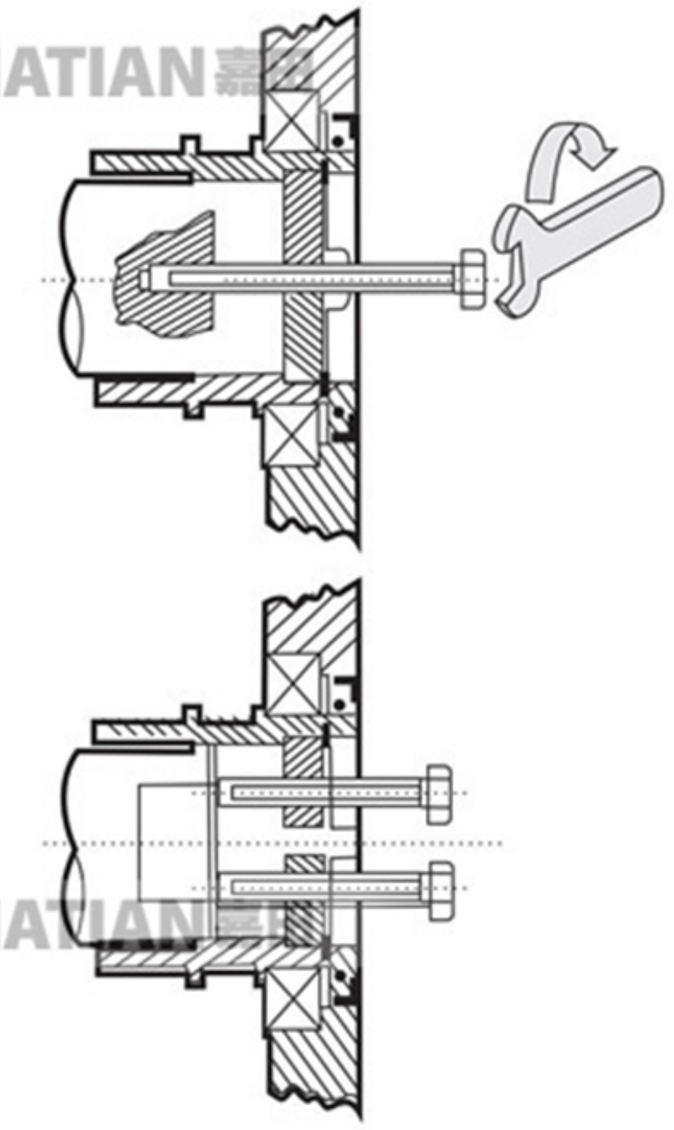
All surfaces should keep clean before installation, and take proper method to prevent rusting.

7、安装 INSTALLATION

安装齿轮箱
Mounting of Gear Unit



拆卸齿轮箱
Removal of Gear Unit



8、核查 VERIFICATION

径向负载

确保应用于输出轴的径向负载时在许用范围内的。假如它们超出许用范围，在选用更大型号的减速机之前可先考虑设计特殊轴承结构。如径向负荷不在轴伸的中间，应对其进行必要的修正，具体修正方法与我们技术中心联系。

Radial Loads

Make sure the radial loads both in input and output shaft is with in the permitted range.

If it surpasses the permitted range, we can choose to select special designed bearing structure before switching to alarger gear unt.

It must be adjusted if the radial loads are not in the middle of the ease contact our technical service to gain more in for mation.

轴向负荷

轴向负荷必须在许用径向负荷的20%以内。假如特别的高出，或者是轴向和径向负荷的综合作用，请与我们技术中心联系。

Thrust Loads

Thrust loads must be found withe in 20%of the radial loads. If exrtemely high, or a combination of radial and thrust loads, contact our technical servce.

9、维护 MAIN TENANCE

在操作满300小时后,应该进行第一闪换油,用合适的清洁剂冲洗齿轮机构。
不要把矿物油和合成油混合使用。
定期检查油的水平面，并且按照下列表格中的时间间隔换油。

After the n300hour of operation,please change the oil, angfiush the gear unit with suitable detergents
Don’ t mix the mineral oil and synthetic oil.
please check the oil level in regular time,and change the oil according the following table.

(A3)

油温 Oil temperature [℃]	换油间隔(小时) Oil change interval [h]	
	矿物油 Mineral oil	合成油 Synthetic oil
<65	8000	25000
65-80	4000	15000
80-95	2000	12500

10、 油漆规格 PAINT SPECT FITCATIONS

在齿轮箱上使用的油漆的规格必须从提供本机器的经销商或代理商处获得.

The paint specifications on gearbox must be obtained from the suppliers.

11、 供货条件 CONDITONS OFSUPPLY

齿轮机构是按照以下供应的:

A.按照订购时说明的安装和装配位置进行配置;

B.按照制造商的说明进行了测试;

C.在运输过程中,轴是用塑料封壳保护起来的;

D.提供了吊耳（当适用的时候）。

Gearboxes are supplied as follows:

A) Assembled the gearbox according tothe installing and mounting position specified when ordering.

B) Tested following the manufacturer specificationd.

C) During the transportation, shaft is protected wit piastic seals.

D) lifting lugs were supplied.

12、 储存 STORAGE

按照下列指示来确保产品的正确的储存。

A.不要在室外储存,不要在曝露在外受到天气影响和温度很高的地方储存。

B.请在产品和地面之间放置纸板,木头或其它材料。齿轮箱不能直接和地面接触。

According to the following in dications to make sure correct storage of products.

A) Don't store in somewhere exposed to be affected with whether and hunidity.

B) Please put cardboard,wood or other material between the products and floor.The gearboxes aren't permiyyed to direct contact with floor.

12、储存 STORAGE

C. 假如需要储存很长时间，一些极其加工面列如法兰, 轴和联轴器必须涂上适合的防锈的产油（MOBILARMA248或等同的产品）。
此外，齿轮箱的油位必须处于最高位并加满油。
设备在重新投入使用之前，油量和类型都必须重新恢复。

C)For long-termstorage,the surfaces ofparts such as shafts, couplings and flages must be coated with suitable oil to avoid rusting.
Another point is that gearbox must be placed the fill piug in the higest position and filled up with oil.(MOBI LARMA 248or EQWIVALENT).
Before reusing the equipments, the oil quantity and type must be restored.

13、型号标识说明 DESIGNATION

齿轮箱其它选型要求 GEARBOX OPTIONS

LO

齿轮箱,除非客户有特殊的要求,否则出厂时都不加油。

油量根据订货时指定的安装方式来订。

PV

VITON 橡胶油封。

AL

规定了逆时针方向旋转.

LO

Gearboxes are not filled up with oil unless customers have special requirements.

Oil quantity is based on the mountung position specified when ordering.

PV

Oil seal in viton.

AL

Specified opposite direction of rotation.

14、润滑 LUBRICATION

上海嘉田齿轮箱的内部件是浸油的和飞溅润滑的。

下面的图表可以参考安装位置和相应的油塞,假如适用的话，和对应的润滑剂量。

油量的值是否已经正确的装油,可通过油镜的中心或提供的油量计来衡量。

在某些情况下有差异,偶尔不合规格,假如和在下图表中列出的油量不一样的则需要注意。

The interprets of JIATIAN gearboxes are oil-soak and splash lubricated.

The following charts in dicate the mounting position model and relevant oil plug If appli cable. Here is the corresp onding lubricant quantity

If the oil quantity is correct filling:it can be measured by the center of sight glass or supplied dipstcl.

May be there are some misnomers and falling short of specificationWhich are different from ;isted oil quantity must benoticed.

(A4)

负载类型 Type of duty	TA 0℃-20℃		TA 20℃-40℃	
	矿物油 Mineral oil(ISO VG)	合成油 Synthetic oil(ISO VG)	矿物油 Mineral oil(ISO VG)	合成油 Synthetic oil(ISO VG)
轻型 Tight duty	150	150	220	220
中型 Medium duty	150	150	320	220
重型 Heavy duty	200	200	460	320

油量 (l) Oil quantity[I]

(A5)

TA30	TA35	TA40	TA45	TA50	TA60	TA70	TA80	TA100	TA125
0.50	1.2	2.1	3.1	8.0	7.5	11	17	20	27
	TA35_D	TA40_D	TA45_D	TA50_D	TA60_D	TA70_D	TA80_D	TA100_D	TA125_D
	1.1	1.8	3.6	7.3	10	14	11	18	27

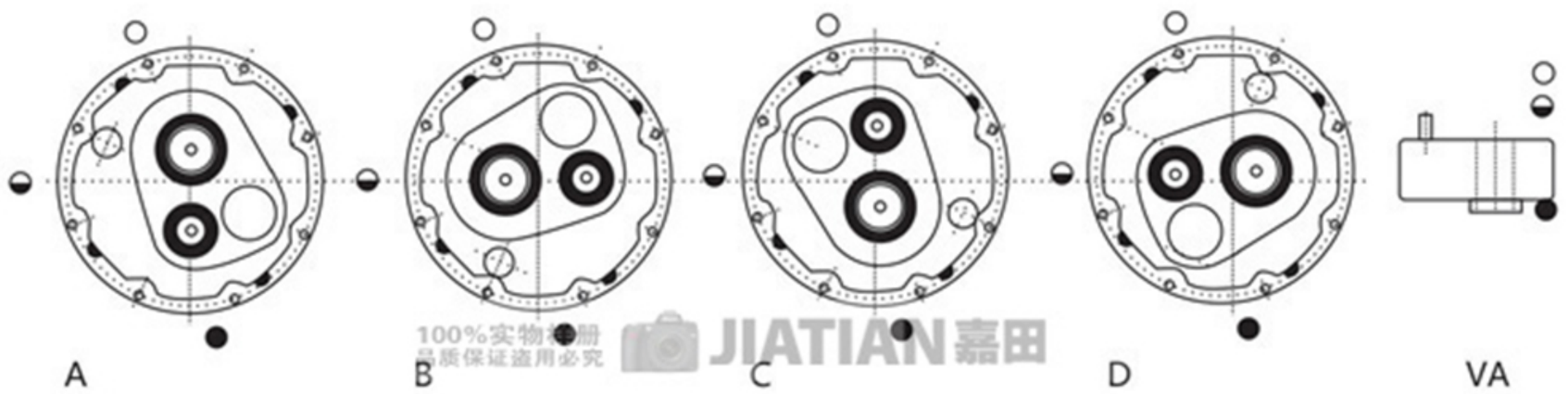
油量只和装配位置A相对应

Quantities are only relevant to mounting position A.

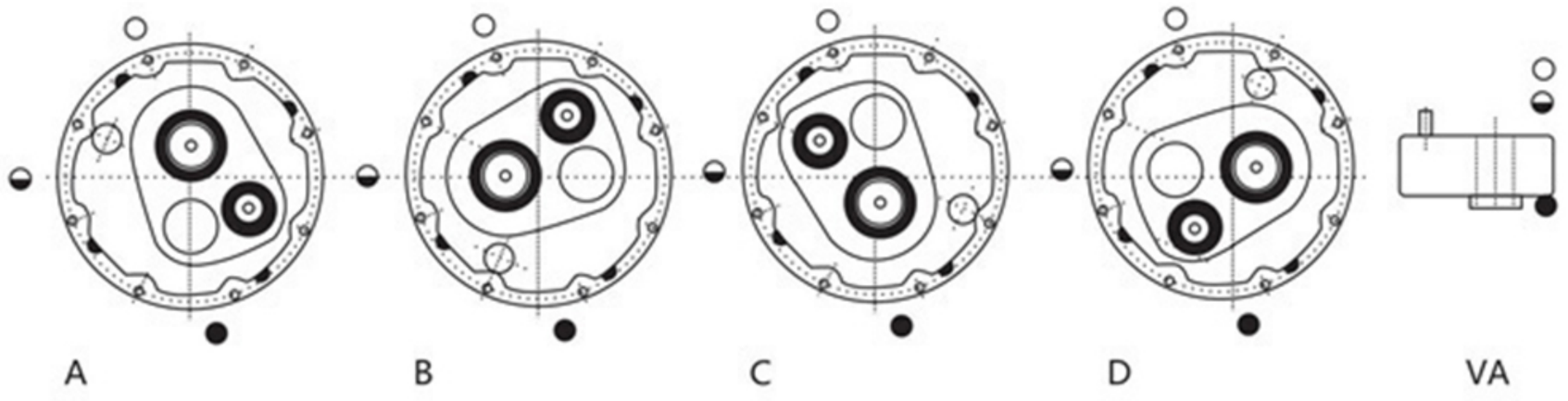
15、安装方位 MOUNTING POSITIONS

	关键:	Key:
○	透气塞	Fillingbreather plug
◒	油镜/油标	Level plug
●	油塞	Drain plug

TA30-125



TA30-125D



16、悬挂负载 OVERHUNG LOADS

通过键把外部传递到输入轴和输出轴，在同一根轴上的垂直方向产生负载。

Pass the external transmissions to input & output shafts by the key, loads act apeak on the same shaft.

由此产生的负载须与轴承和轴的性能相匹配。理论上，轴负载（Rc1）必须等于或低于轴的许用悬挂负载的计算值（Rn1）悬挂负载能力可在选型表中查出。

Loading must be suitable with both the shaft and bearing capacity. Ideally, shaft loading(Rc1)must be equal or lower than overhung load(rn1) for calculating. Overhung loads capacity can locate in the option chart. The loads generated from external transmission can be approximate calculated by the followingequation.

外部传动所产生的负载可近似地用以下公式算出。

The actual shaft loading and overhung loads should be satisfied the following equation.

$$Rc1[N] = \frac{2000 \cdot M1[Nm] \cdot Kr}{d\ [mm]} \qquad (6)$$

在公式中 Whre：

M1[Nm]=输出扭矩

D[mm]=轴的直径

Kr=1链传动

Kr=1.25齿轮传动

Kr=1.5-2.0带传动

K1[Nm]=torque applied to shaft

d[mm]=pitch diameter of part keyed on to shaft

K1=1chain trasmission

K1=1.25gear transmission

K1=1.5-2.0belt transmission

实际轴负载和悬挂负载应满足以下公式:

Acomparison of shaft loading with catalogue OHL rating should verify the following condition:

$$Rc1 \leq Rn1 \qquad (7)$$

17、 减速机型表 RATING CHARTS

许用输出扭矩(Nm)

Model	TA30	TA35	TA40	TA45	TA50	TA60	TA70	TA80	TA100	TA125
许转矩用 Permitted torqne	180Nm	420Nm	9501Nm	1400Nm	2300Nm	3600Nm	5100Nm	7000Nm	11000Nm	17000Nm

17、 减速机型表 RATING CHARTS

公称传动比 Nomimal ratio iN	精确传动比 Exactratio iex	输出转速 Output speed n2[rpm]	额定输出转矩 Rated output torque Mn2[Nm]	额定输入功率 Rated input power pn1[KW]	悬挂载荷 Overhungloads Rn1〔N〕	机型号 Model		
5	5	280	200	6.0	700	TA35	35	
	5	280	480	14.4	1000	TA40	40 45	
	5	280	850	26.0	1500	TA45	45 50 55	
	5	280	1400	42.0	2250	TA50	50 55 60	
	5	280	1900	57.0	3200	TA60	60 70	
	5	280	2600	78.0	3700	TA70	70 85	
	5	280	3700	111.0	4500	TA80	80 100	
	5	280	5500	165.0	5500	TA100	100 125	
	5	280	7500	226.0	6500	TA125	125 135	
7	7.2	194	137	2.9	350	TA30	30	
10	10	140	137	2.1	350	TA30	30	
	10	140	300	4.6	500	TA35	35	D
	10	140	600	9.2	850	TA40	40 45	D
	10	140	1000	15.4	1150	TA45	45 50 55	D
	10	140	1750	27.0	1700	TA50	50 55 60	D
	10	140	3100	48.0	2600	TA60	60 70	D
	10	140	3800	59.0	3400	TA70	70 85	D
	10	140	5500	85.0	4200	TA80	80 100	D
	10	140	9000	139.0	5000	TA100	100 125	D
	10	140	12500	193.0	5500	TA125	125 135	D

输入转速n1=1400rpm

公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号		
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1［N］	Model		
12.5	12. 7	110	137	1.6	350	TA35	35	D
	13. 3	105	700	8.1	850	TA40	40 45	D
	12. 2	115	1100	13.9	1150	TA45	45 50 55	D
	12	117	1800	23	1700	TA50	50 55 60	D
	12. 2	115	3100	39.0	2600	TA60	60 70	D
	12. 2	115	4000	51.0	3400	TA70	70 85	D
	12. 5	112	5500	68.0	4200	TA80	80 100	D
	12.3	114	9000	113.0	5000	TA100	100 125	D
	12.3	114	12500	157.0	5500	TA125	125 135	D
15	15	93	350	3.6	500	TA35	35	D
	15	93	750	7.7	850	TA40	40 45	D
	15	93	1200	12.3	1150	TA45	45 50 55	D
	15	93	1900	19.5	1700	TA50	50 55 60	D
	15	93	3200	33.0	2600	TA60	60 70	D
	15	93	4400	45.0	3400	TA70	70 85	D
	15	93	6100	63.0	4200	TA80	80 100	D
	15	93	9500	98.0	5000	TA100	100 125	D
	15	93	12500	128.0	5500	TA125	125 135	D
20	19.5	72	380	3.0	500	TA35	35	D
	19.7	71	780	6.1	850	TA40	40 45	D
	19.7	71	1250	9.8	1150	TA45	45 50 55	D
	20.3	69	1950	14.8	1700	TA50	50 55 60	D

TA

输入转速n1=1400rpm

公称传动比 Nomimal ratio iN	精确传动比 Exactratio iex	输出转速 Output speed n2[rpm]	额定输出转矩 Rated output torque Mn2[Nm]	额定输入功率 Rated input power pn1[KW]	悬挂载荷 Overhungloads Rn1〔N〕	机型号 Model		
20	20.3	69	3250	25.0	2600	TA60	60 70	D
	20.3	69	4500	34.0	3400	TA70	70 85	D
	20.3	69	6100	46.0	4200	TA80	80 100	D
	20.3	69	9500	72.0	5000	TA100	100 125	D
	20.3	69	14000	106.0	5500	TA125	125 135	D
25	25	56	400	2.5	500	TA35	35	D
	25	56	800	4.9	850	TA40	40 45	D
	25	56	1300	8.0	1150	TA45	45 50 55	D
	25	56	2000	12.3	1700	TA50	50 55 60	D
	25	56	3300	20.0	2600	TA60	60 70	D
	25	56	4600	28.0	3400	TA70	70 85	D
	25	56	6300	31.0	4200	TA80	80 100	D
	25	56	9800	60.0	5000	TA100	100 125	D
	25	56	15000	92.0	5500	TA125	125 135	D
31	33.2	42	800	3.7	850	TA40	40 45	D
	30.4	46	1300	6.6	1150	TA45	45 50 55	D
	30	47	2000	10.3	1700	TA50	50 55 60	D
	30.4	46	3300	16.7	2600	TA60	60 70	D
	30.4	46	4600	23.0	3400	TA70	70 85	D
	31.1	45	6300	31.0	4200	TA80	80 100	D
	30.8	45	9800	49.0	5000	TA100	100 125	D
	30.8	45	15000	75.0	5500	TA125	125 135	D

输入转速n1=900rpm

公称传动比 Nomimal ratio iN	精确传动比 Exactratio iex	输出转速 Output speed n2[rpm]	额定输出转矩 Rated output torque Mn2[Nm]	额定输入功率 Rated input power pn1[KW]	悬挂载荷 Overhungloads Rn1〔N〕	机型号 Model	
5	5	180	250	4.8	800	TA35	35
	5	180	550	10.6	1200	TA40	40 45
	5	180	950	18.4	1700	TA45	45 50 55
	5	180	1700	33.0	2500	TA50	50 55 60
	5	180	2100	41.0	3600	TA60	60 70
	5	180	3000	58.0	4200	TA70	70 85
	5	180	4200	81.0	5100	TA80	80 100
	5	180	6200	120.0	6200	TA100	100 125
	5	180	8000	155.0	7300	TA125	125 135
7	7.2	125	150	2.0	400	TA30	30
10	10	90	150	1.4	400	TA30	30
	10	90	350	3.5	600	TA35	35 D
	10	90	750	7.4	950	TA40	40 45 D
	10	90	1200	11.9	1300	TA45	45 50 55 D
	10	90	1900	18.8	1900	TA50	50 55 60 D
	10	90	3200	32.0	2900	TA60	60 70 D
	10	90	4400	44.0	3800	TA70	70 85 D
	10	90	6100	60.0	4700	TA80	80 100 D
	10	90	9500	94.0	5600	TA100	100 125 D
	10	90	14000	139.0	6200	TA125	125 135 D
12.5	12.7	71	150	1.1	400	TA35	35 D
	13.3	68	780	5.8	950	TA40	40 45 D
	12.2	74	1200	9.7	1300	TA45	45 50 55 D
	12	75	1900	15.7	1900	TA50	50 55 60 D

输入转速n1=900rpm

公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号	
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1〔N〕	Model	
12.5	12. 2	74	3200	26.0	2900	TA60	60 70 D
	12. 2	74	4400	36.0	3800	TA70	70 85 D
	12. 5	72	6100	48.0	4700	TA80	80 100 D
	12. 3	73	9500	77.0	5600	TA100	100 125 D
	12. 3	73	14000	113.0	6200	TA125	125 135 D
15	15	60	400	2.6	600	TA35	35 D
	15	60	800	5.3	950	TA40	40 45 D
	15	60	1250	8.3	1300	TA45	45 50 55 D
	15	60	1950	12.9	1900	TA50	50 55 60 D
	15	60	3300	22.0	2900	TA60	60 70 D
	15	60	4500	30.0	3800	TA70	70 85 D
	15	60	6300	42.0	4700	TA80	80 100 D
	15	60	10000	66.0	5600	TA100	100 125 D
	15	60	15000	99.0	6200	TA125	125 135 D
20	19.5	46	400	2.0	600	TA35	35 D
	19.7	46	800	4.0	950	TA40	40 45 D
	19.7	46	1300	6.5	1300	TA45	45 50 55 D
	20.3	44	2000	9.8	1900	TA50	50 55 60 D
	20.3	44	3400	16.6	2900	TA60	60 70 D
	20.3	44	4600	22.0	3800	TA70	70 85 D
	20.3	44	6300	31.0	4700	TA80	80 100 D
	20.3	44	10000	49.0	5600	TA100	100 125 D
	20.3	44	15000	73.0	6200	TA125	125 135 D

输入转速n1=900rpm

公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号		
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1［N］	Model		
25	25	36	400	1.6	600	TA35	35	D
	25	36	850	3.4	950	TA40	40 45	D
	25	36	1350	5.4	1300	TA45	45 50 55	D
	25	36	2100	8.3	1900	TA50	50 55 60	D
	25	36	3500	13.9	2900	TA60	60 70	D
	25	36	4900	19.4	3800	TA70	70 85	D
	25	36	6600	26.0	4700	TA80	80 100	D
	25	36	10500	42.0	5600	TA100	100 125	D
	25	36	16000	63.0	6200	TA125	125 135	D
31	33.2	27.1	900	2.7	950	TA40	40 45	D
	30.4	29.6	1350	4.4	1300	TA45	45 50 55	D
	30	30	2100	6.9	1900	TA50	50 55 60	D
	30.4	29.6	3500	11.4	2900	TA60	60 70	D
	30.4	29.6	4900	16.0	3800	TA70	70 85	D
	31.3	29.8	6600	21.0	4700	TA80	80 100	D
	30.8	29.2	10500	34.0	5600	TA100	100 125	D
	30.8	29.2	1600	51.0	6200	TA125	125 135	D

输入转速n1=500rpm

公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号	
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1［N］	Model	
5	5	100	350	3.8	1000	TA35	35
	5	100	700	7.5	1500	TA40	40 45
	5	100	1100	11.8	2150	TA45	45 50 55

输入转速n1=500rpm

公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号	
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1［N］	Model	
5	5	100	1900	20.0	3100	TA50	50 55 60
	5	100	2900	32.0	4500	TA60	60 70
	5	100	4000	43.0	5200	TA70	70 85
	5	100	5000	54.0	6400	TA80	80 100
	5	100	7000	75.0	7900	TA100	100 125
	5	100	10000	107.0	9200	TA125	125 135
7	7.2	69	180	1.3	500	TA30	30
10	10	50	180	1.0	500	TA30	30
	10	50	400	2.2	750	TA35	35 D
	10	50	800	4.4	1200	TA40	40 45 D
	10	50	1300	7.2	1650	TA45	45 50 55 D
	10	50	2000	11.0	2400	TA50	50 55 60 D
	10	50	3300	18.2	3600	TA60	60 70 D
	10	50	4500	25.0	4750	TA70	70 85 D
	10	50	6300	35.0	5900	TA80	80 100 D
	10	50	10000	55.0	6800	TA100	100 125 D
	10	50	15000	83.0	7700	TA125	125 135 D
12.5	12.7	39	180	0.8	500	TA35	35 D
	13.3	38	820	3.4	1200	TA40	40 45 D
	12.2	41	1300	5.9	1650	TA45	45 50 55 D
	12	42	2000	9.2	2400	TA50	50 55 60 D
	12.2	41	3300	14.9	3600	TA60	60 70 D
	12.2	40	4500	20.0	4750	TA70	70 85 D

输入转速n1=900rpm

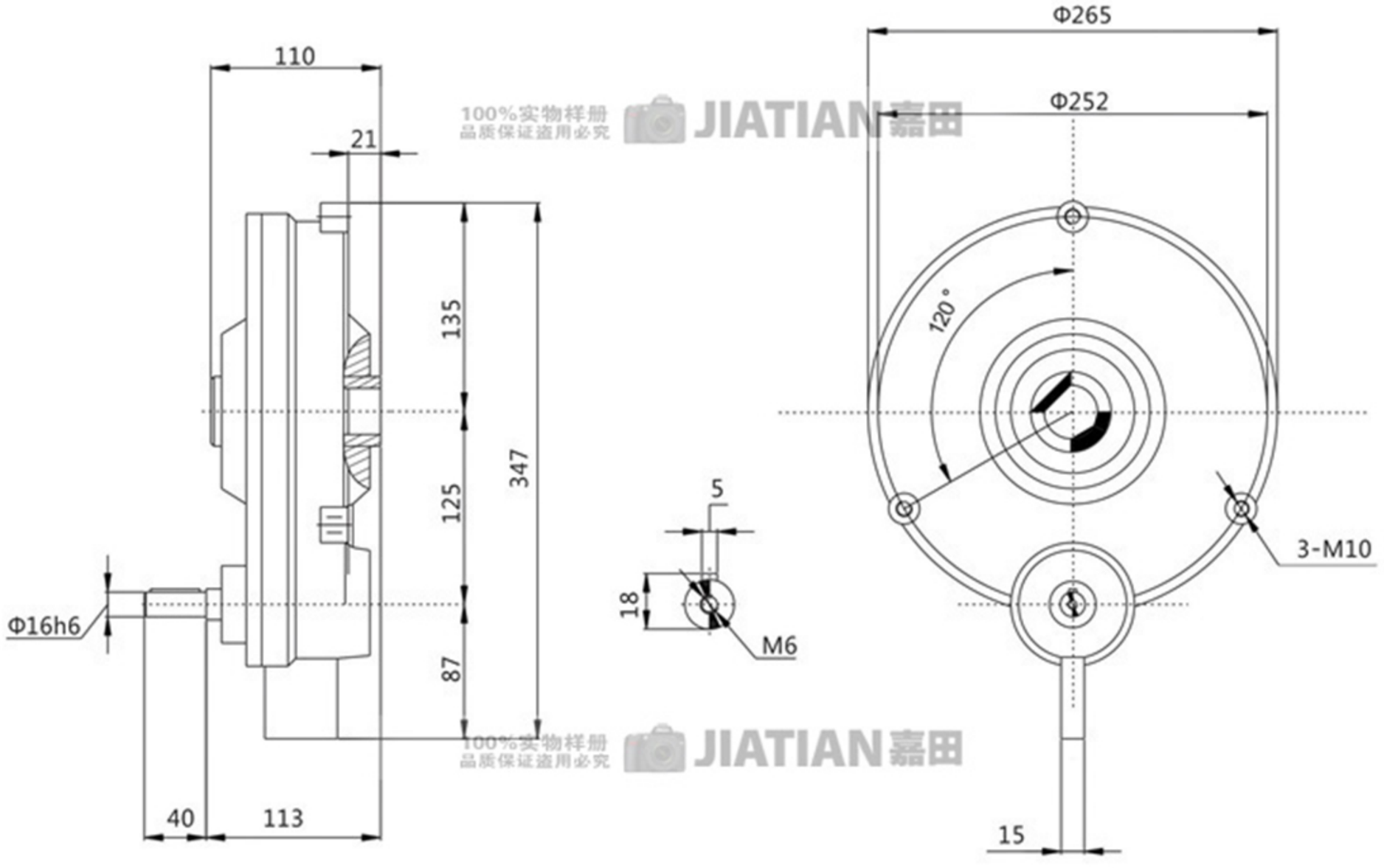
公称传动比 Nomimal ratio iN	精确传动比 Exactratio iex	输出转速 Output speed n2[rpm]	额定输出转矩 Rated output torque Mn2[Nm]	额定输入功率 Rated input power pn1[KW]	悬挂载荷 Overhungloads Rn1〔N〕	机型号 Model		
12. 5	12.5	40	6300	35.0	5900	TA80	80 100	D
	12.3	41	10000	45.0	6800	TA100	100 125	D
	12.3	41	15000	67.0	7700	TA25	125 135	D
15	15	33	400	1.5	750	TA35	35	D
	15	33	850	3.1	1200	TA40	40 45	D
	15	33	1300	4.8	1650	TA45	45 50 55	D
	15	33	2100	7.7	2400	TA50	50 55 60	D
	15	33	3550	13.0	3600	TA60	60 70	D
	15	33	4900	18.0	4750	TA70	70 85	D
	15	33	6600	24.0	5900	TA80	80 100	D
	15	33	10500	39.0	6800	TA100	100 125	D
	15	33	16000	59.0	7700	TA125	125 135	D
20	19.5	25.6	400	1.1	750	TA35	35	D
	19.7	25.4	850	2.4	1200	TA40	40 45	D
	19.7	25.4	1350	3.8	1650	TA45	45 50 55	D
	20.3	24.6	2100	5.7	2400	TA50	50 55 60	D
	20.3	24.6	3550	9.6	3600	TA60	60 70	D
	20.3	24.6	5000	13.6	4750	TA70	70 85	D
	20.3	24.6	6600	17.9	5900	TA80	80 100	D
	20.3	24.6	10500	28.0	6200	TA100	100 125	D
	20.3	24.6	16000	43.0	7700	TA125	125 135	D
25	25	2024.6	420	0.92	750	TA35	35	D
	25	20	900	2.0	1200	TA40	40 45	D
	25	20	1400	3.1	1650	TA45	45 50 55	D

输入转速n1=500rpm

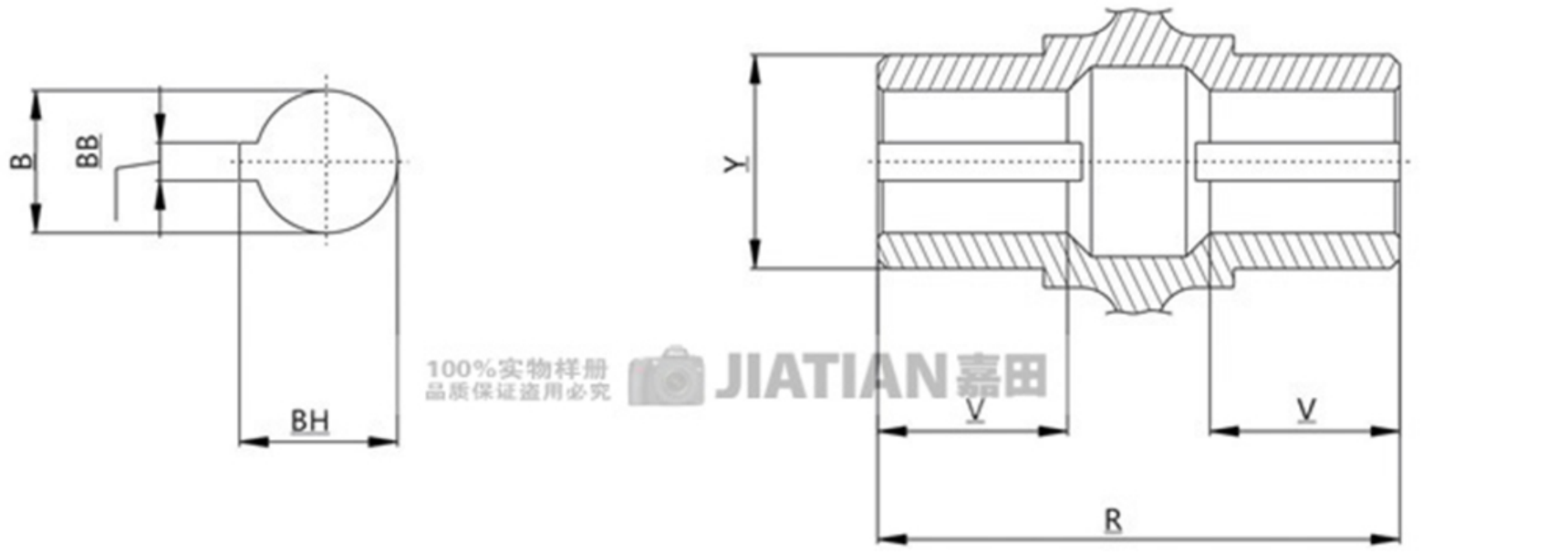
公称传动比	精确传动比	输出转速	额定输出转矩	额定输入功率	悬挂载荷	机型号		
Nomimal ratio iN	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated input power pn1[KW]	Overhungloads Rn1〔N〕	Model		
25	25	20	2300	5.1	2400	TA50	50 55 60	D
	25	20	3600	7.9	3600	TA60	60 70	D
	25	20	5100	11.2	4750	TA70	70 85	D
	25	20	7000	15.4	5900	TA80	80 100	D
	25	20	11000	24.0	6800	TA100	100 125	D
	25	20	17000	37.0	7700	TA125	125 135	D
31	33. 2	15. 1	950	1.6	1200	TA40	40 45	D
	30. 4	16. 4	1400	2.5	1650	TA45	45 50 55	D
	30	16. 7	2300	4.2	2400	TA50	50 55 60	D
	30. 4	16. 4	3600	6.5	3600	TA60	60 70	D
	30. 4	16. 4	5100	9.2	4750	TA70	70 85	D
	31. 3	16	7000	12.3	5900	TA80	80 100	D
	30. 8	16. 2	11000	19.7	6800	TA100	100 125	D
	30. 8	16. 2	17000	30.0	7700	TA125	125 135	D

18、外形尺寸 DIMENSIONS

TA30



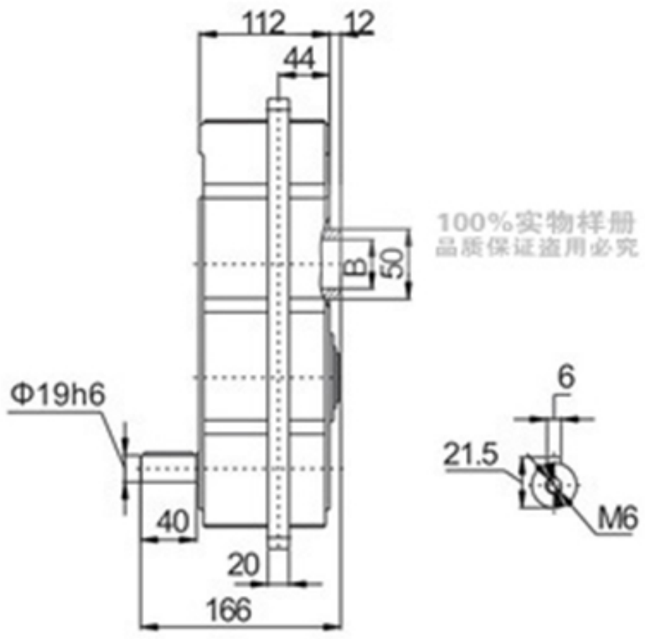
OUTPUT



TYPE	B(H7)	BB	BH	Y	R	V
TA30	ϕ30	8	33.3	ϕ45	110	40

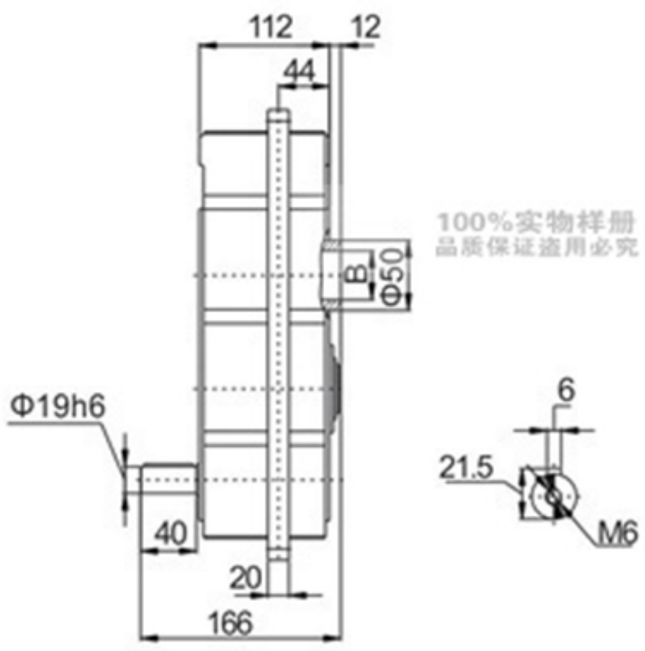
18、外形尺寸 DIMENSIONS

TA35



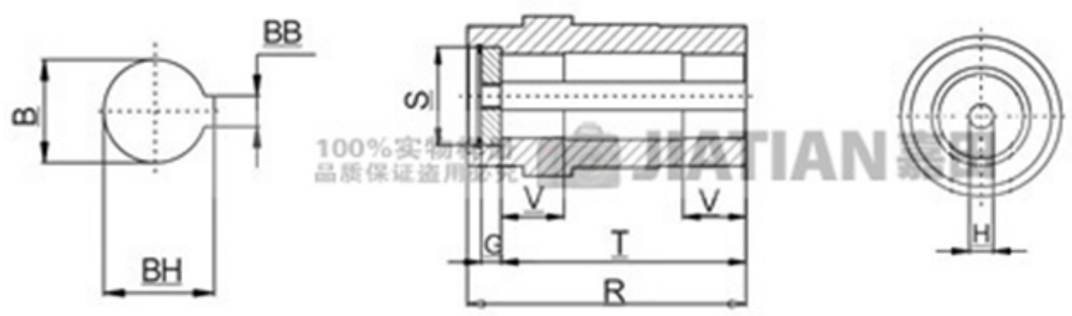
Type	Wight(kg)
TA35 35	18

TA35D



Type	Wight(kg)
TA35 35D	20

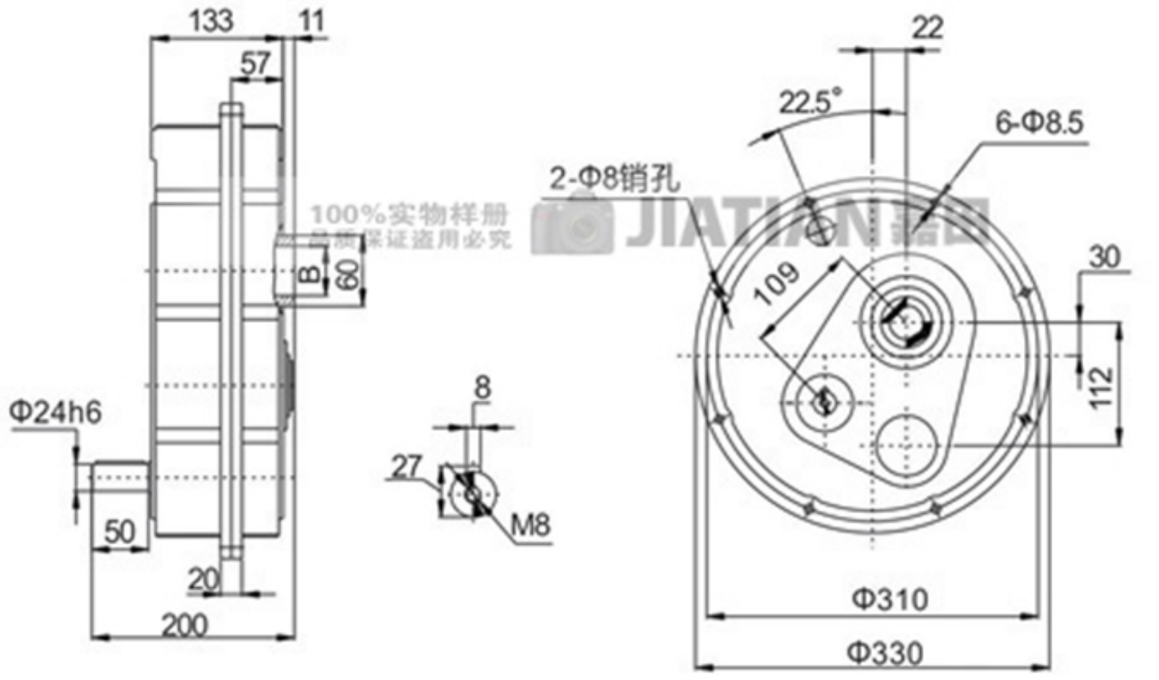
OUTPUT



TYPE	B(H7)	BB	BH	S	R	V	G	T	H
TA35	Φ35	10	38. 3	Φ42	124	30	10	106	M10

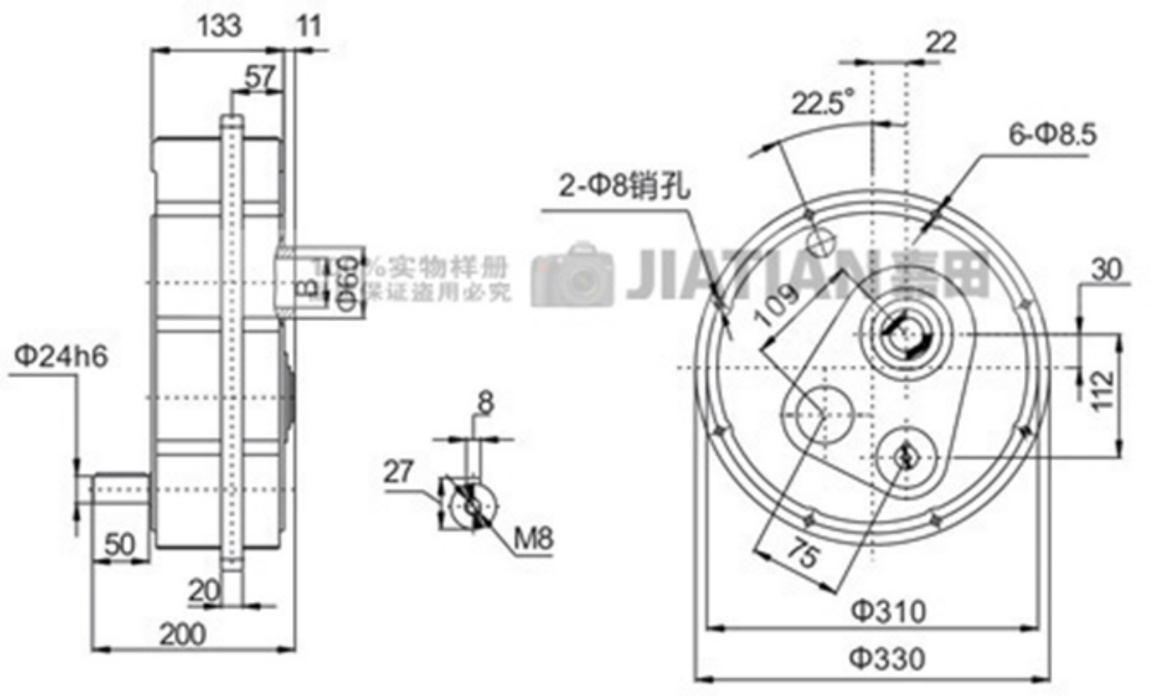
18、外形尺寸 DIMENSIONS

TA40



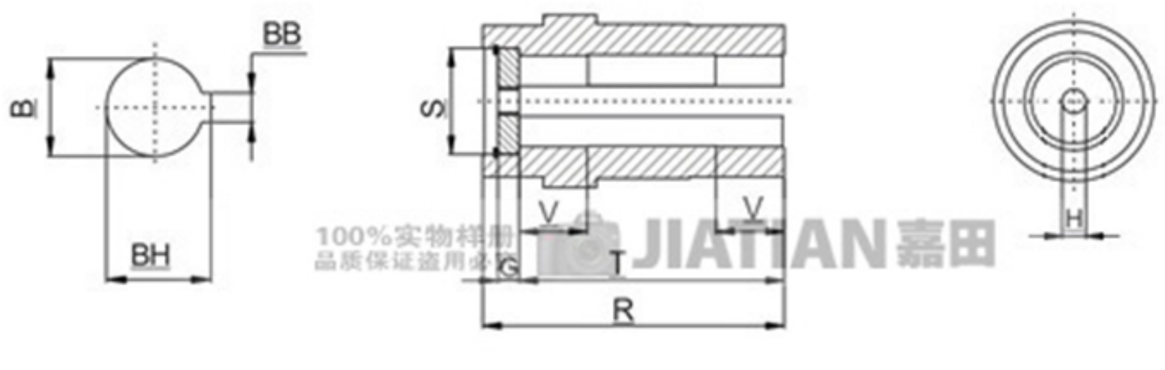
Type		Wight(kg)
TA40	40	29
	45	29

TA40D



Type		Wight(kg)
TA40	40 D	31
	45 D	31

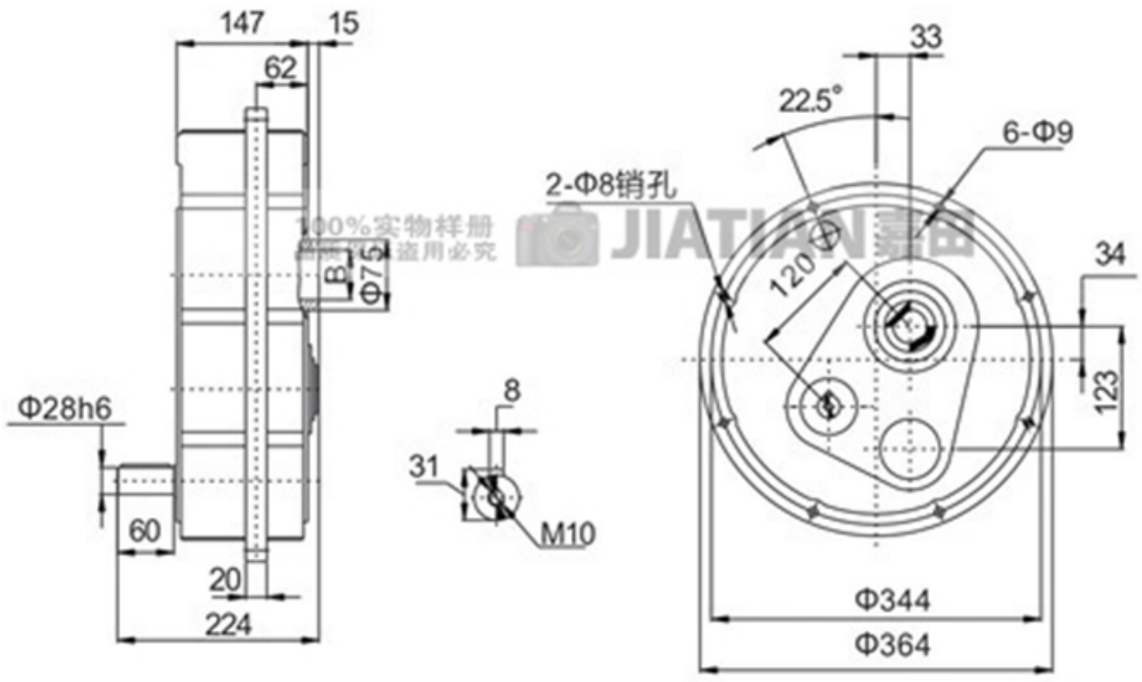
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H
TA40	40	Φ40	12	43.3	Φ50	144	30	12	124	M12
	45	Φ45	14	48.8	Φ50	144	30	12	124	M12

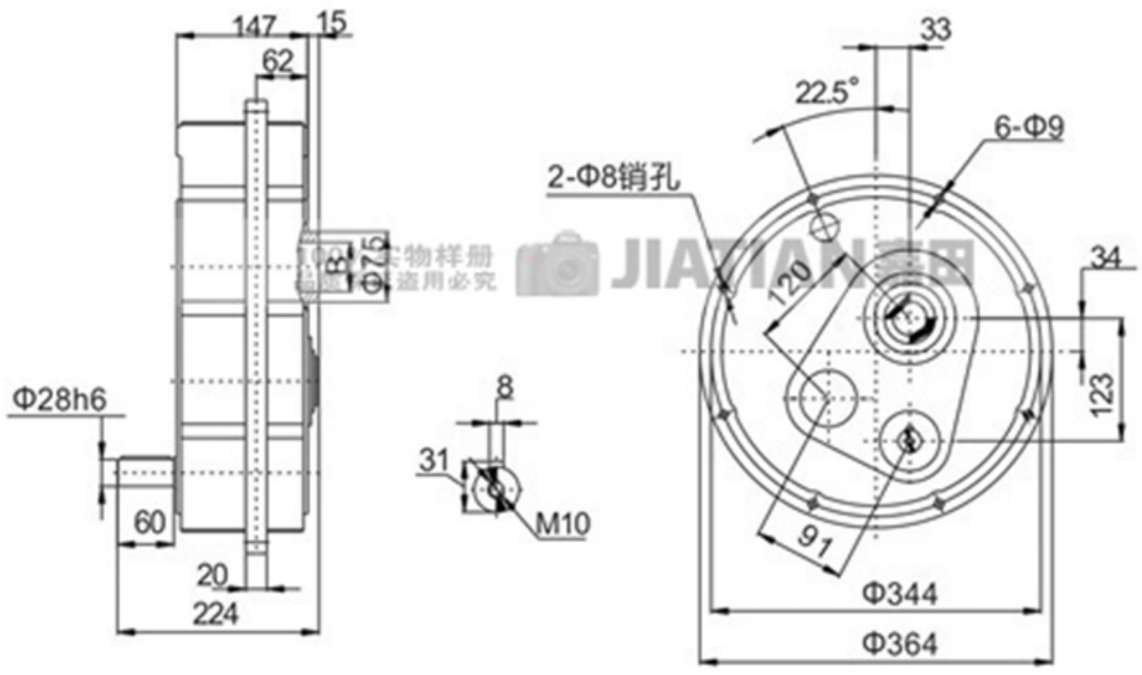
18、外形尺寸 DIMENSIONS

TA45



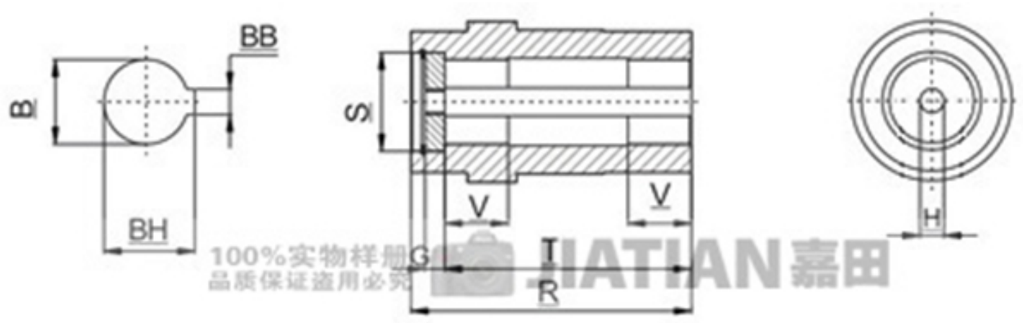
Type		Wight(kg)
TA45	45	37
	50	37
	55	37

TA45D



Type		Wight(kg)
TA45	45	41
	50 D	41
	55	41

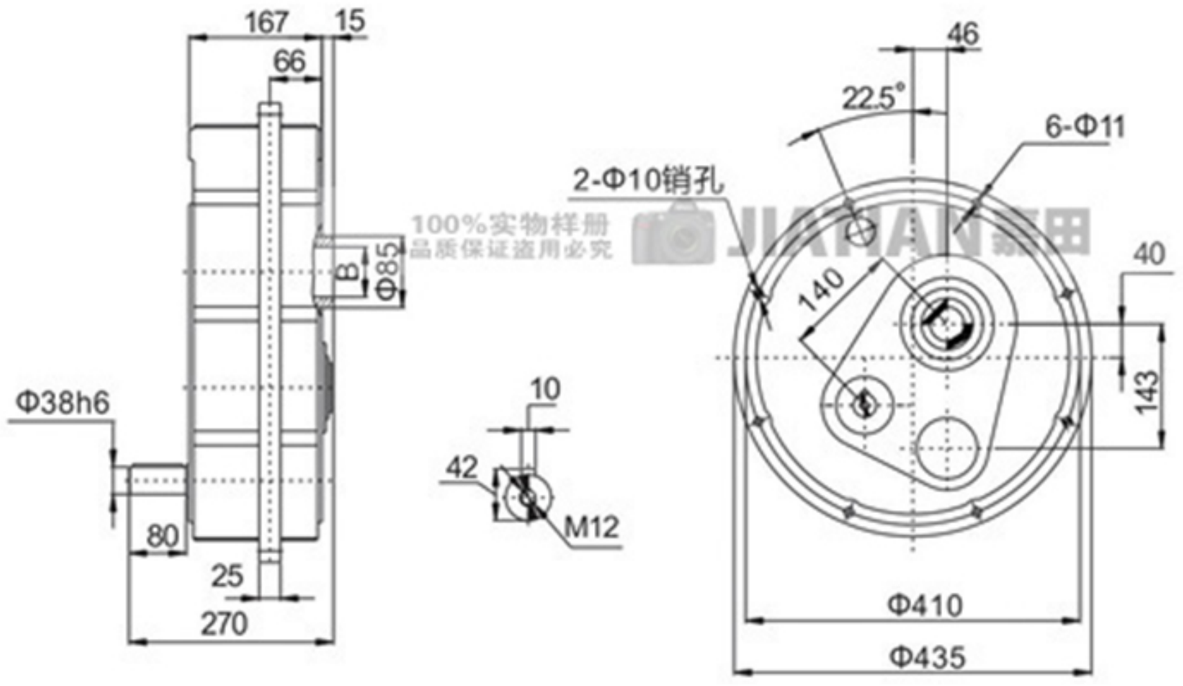
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H
TA45	45	Φ45	14	48.8	Φ60	162	35	14	140	M16
	50	Φ50	14	53.8	Φ60	162	35	14	140	M16
	55	Φ55	16	59.3	Φ65	162	35	14	140	M16

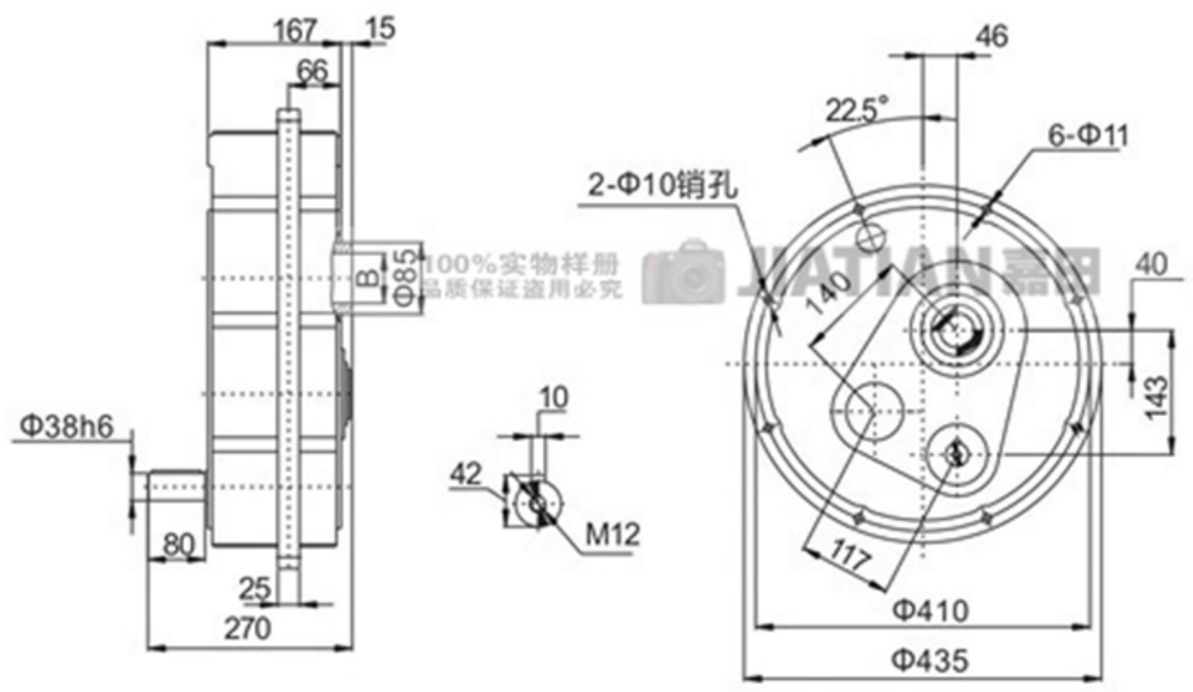
18、外形尺寸 DIMENSIONS

TA50



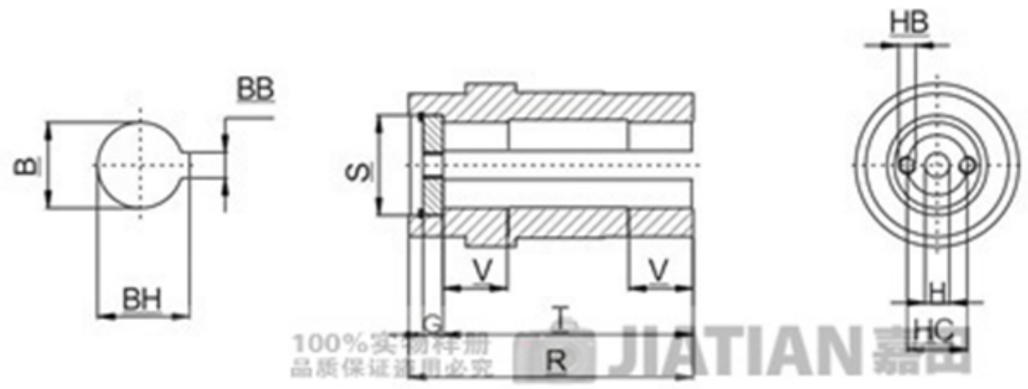
Type		Wight(kg)
TA50	50	58
	55	58
	60	58

TA50D



Type		Wight(kg)
TA50	50 D	62
	55 D	62
	60 D	62

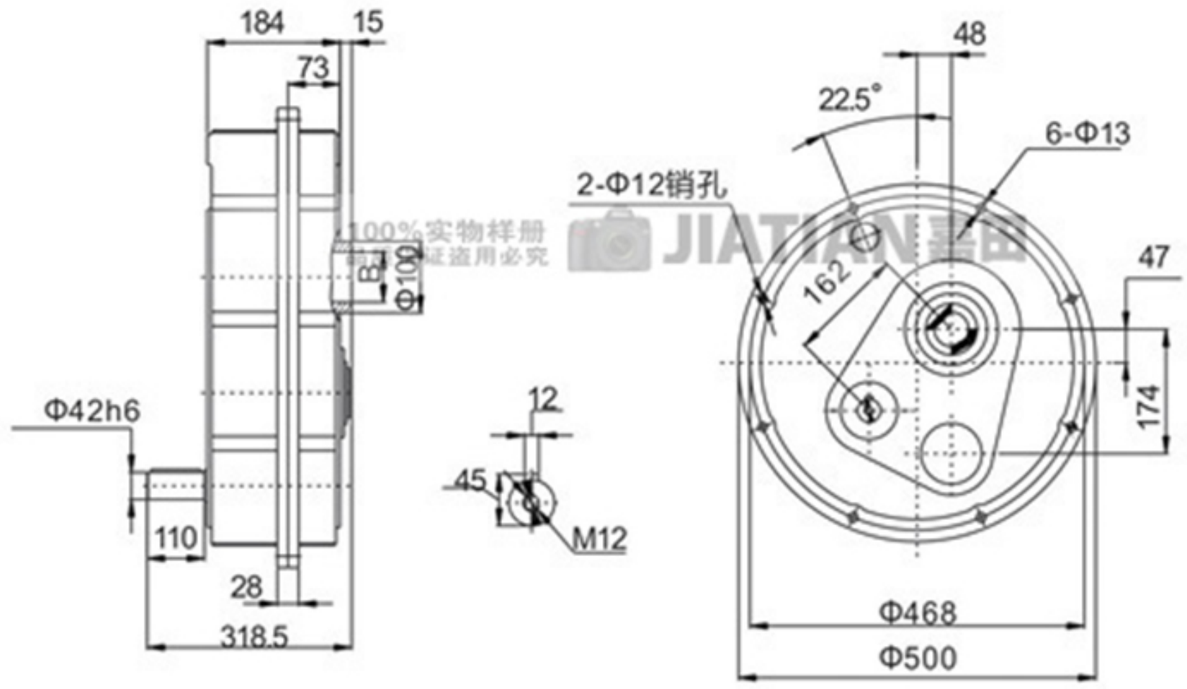
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA50	50	Φ50	14	53.8	Φ60	182	40	14	160	M16	--	--
	55	Φ55	16	59.3	Φ65	182	40	14	160	M16	--	--
	60	Φ60	18	64.4	Φ70	182	40	14	160	Φ17	M12	42

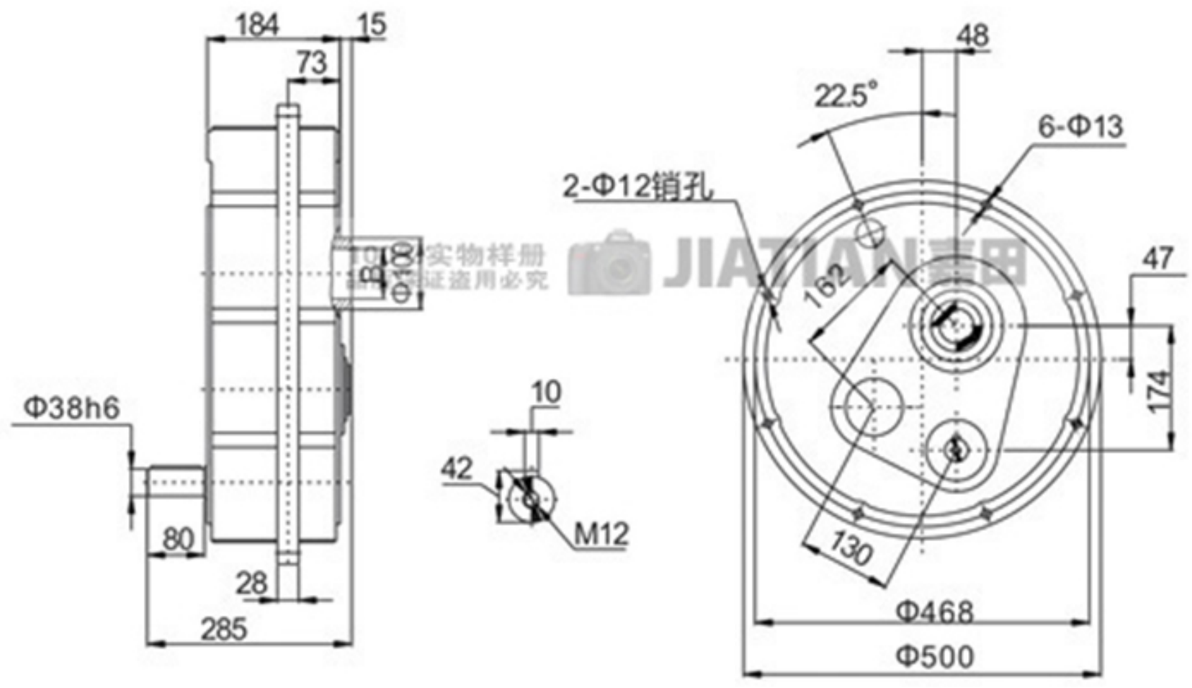
18、外形尺寸 DIMENSIONS

TA60



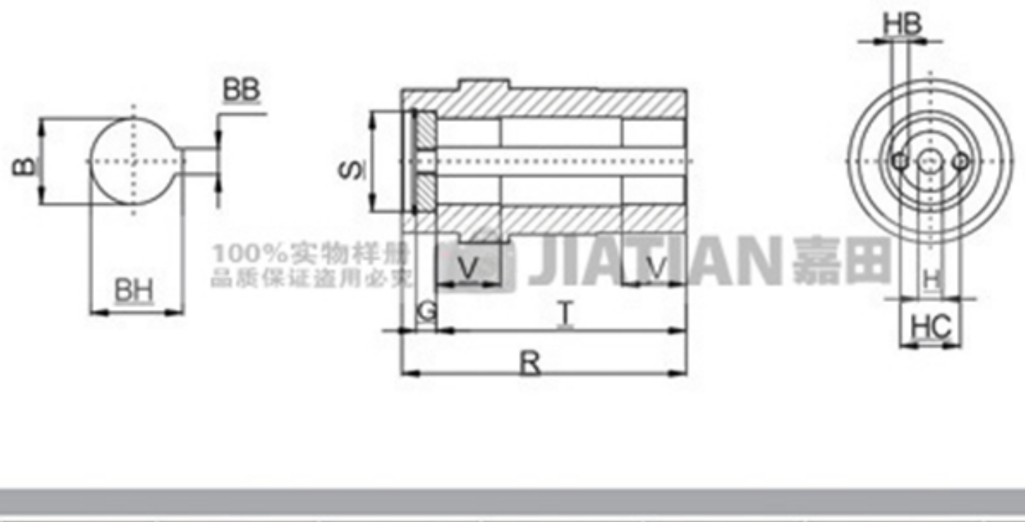
Type		Wight(kg)
TA60	60	88
	70	88

TA60D



Type			Wight(kg)
TA60	60	D	102
	70		102

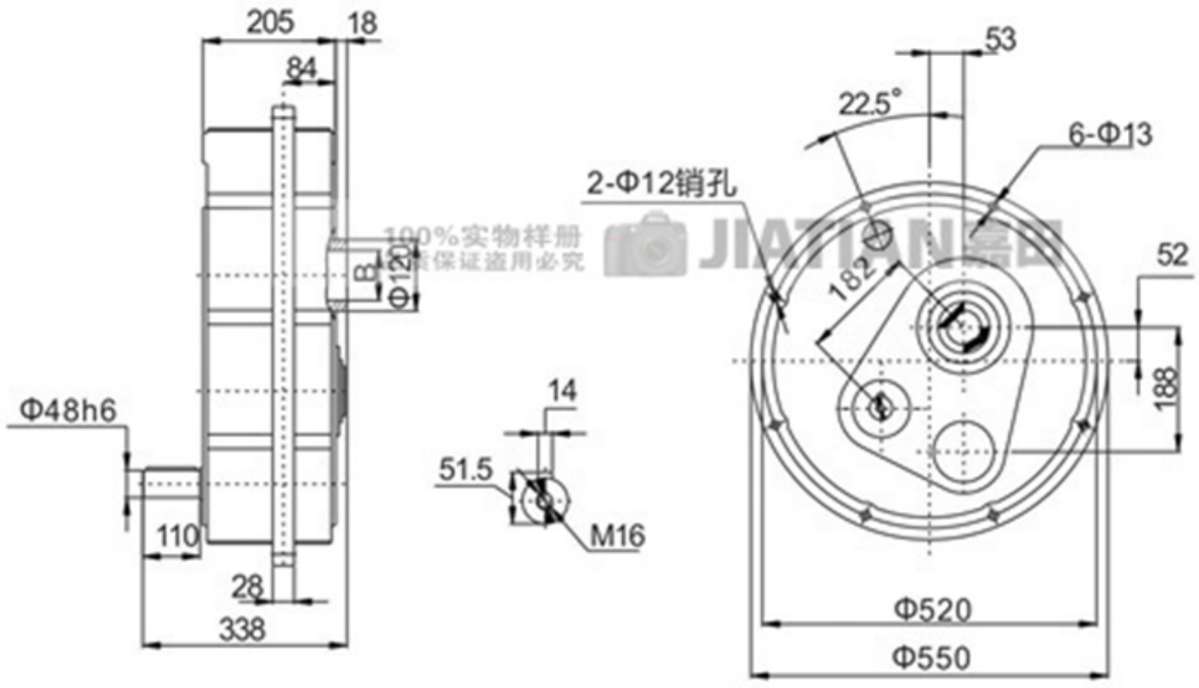
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA60	60	Φ60	18	64.4	Φ70	199	45	14	175	Φ17	M12	42
	70	Φ70	20	74.9	Φ85	199	45	16	175	Φ22	M16	50

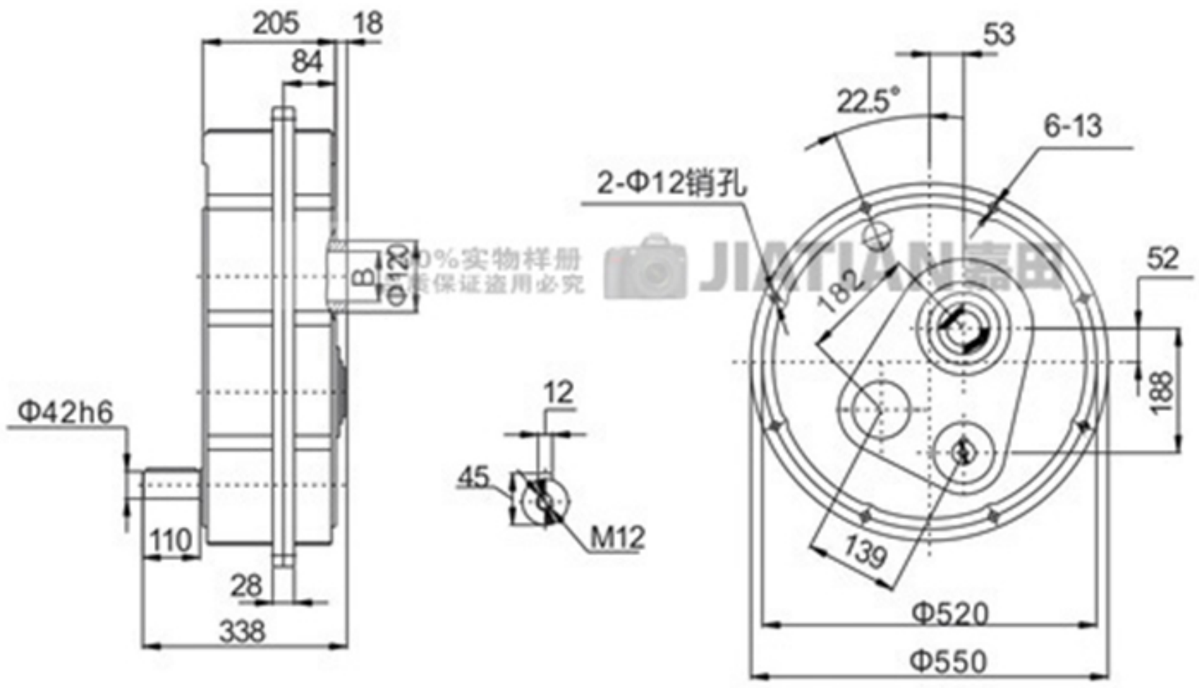
18、外形尺寸 DIMENSIONS

TA70



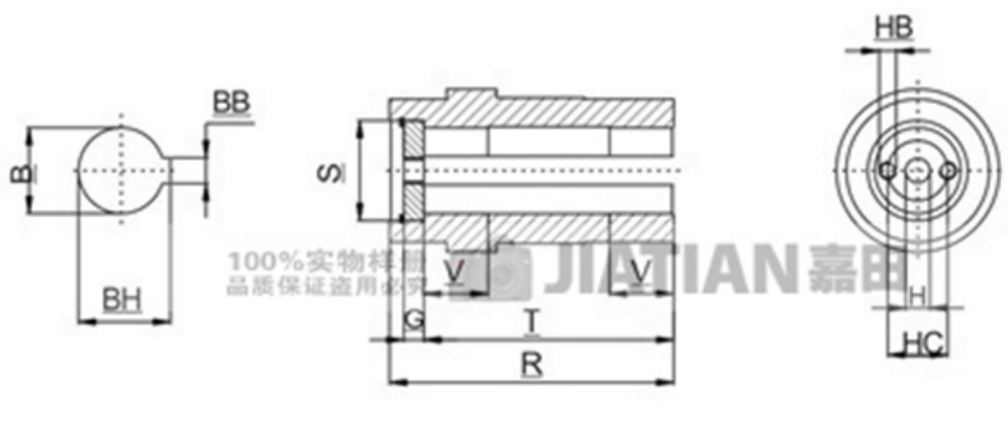
Type		Wight(kg)
TA70	70	115
	85	115

TA70D



Type			Wight(kg)
TA70	70	D	129
	85		129

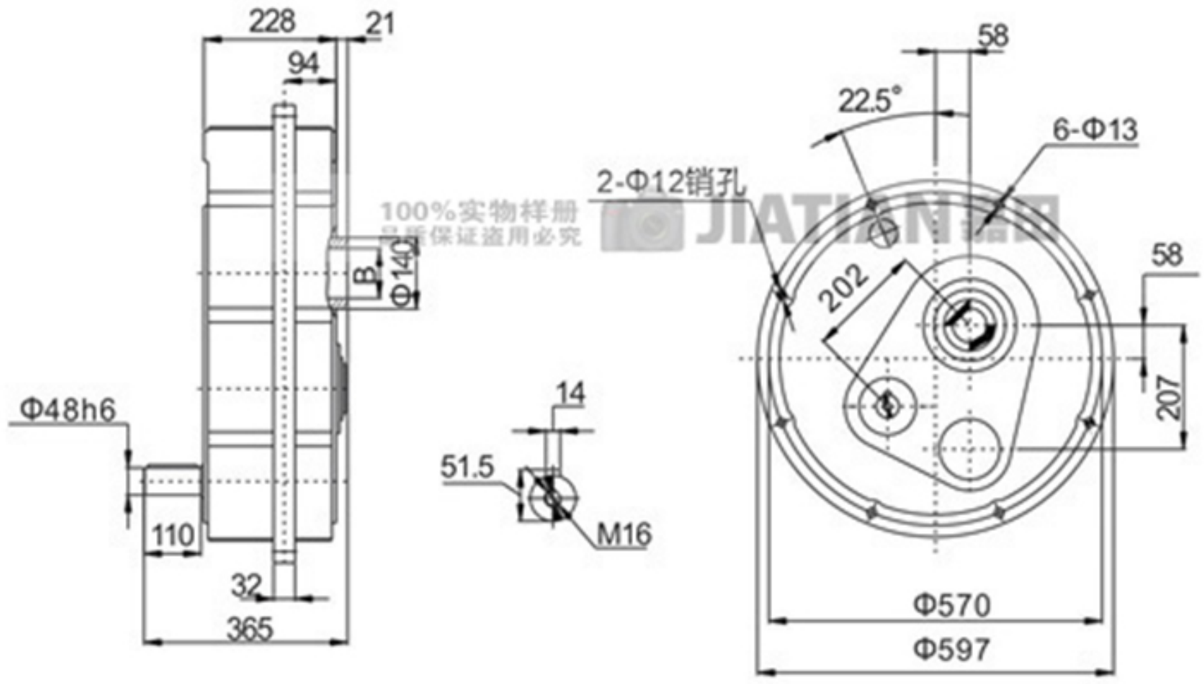
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA70	70	Φ70	20	74.9	Φ85	223	50	16	193	Φ22	M16	50
	85	Φ85	22	90.4	Φ100	223	50	18	193	Φ22	M16	65

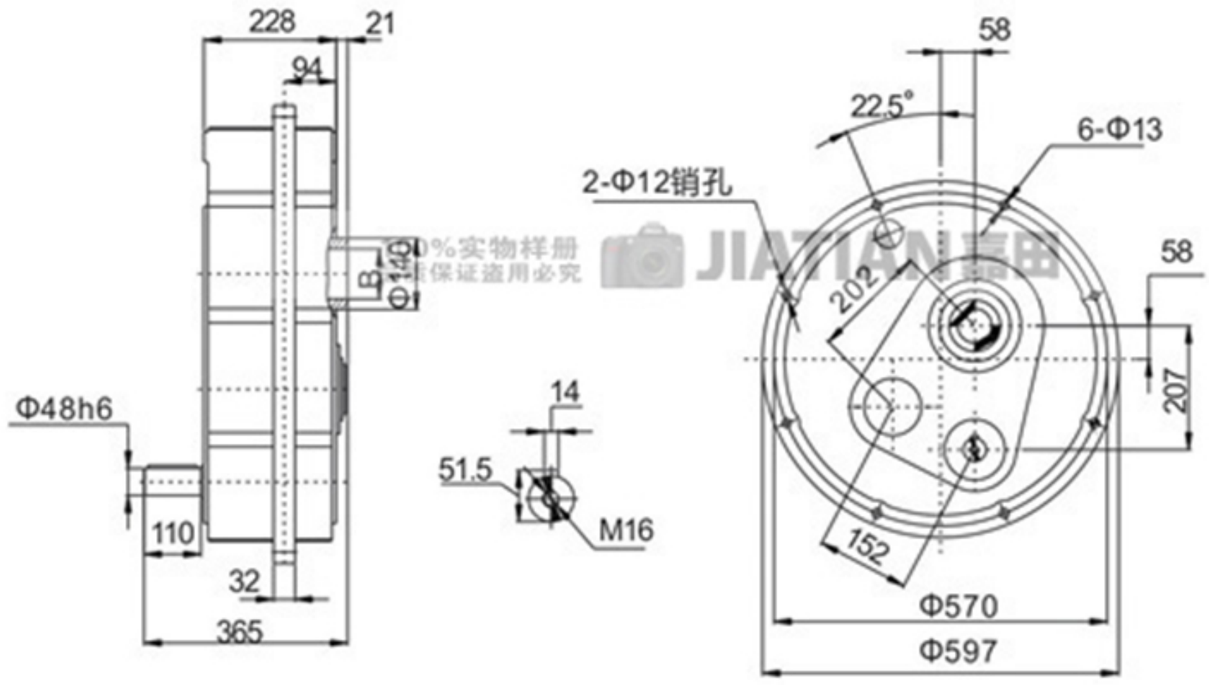
18、外形尺寸 DIMENSIONS

TA80



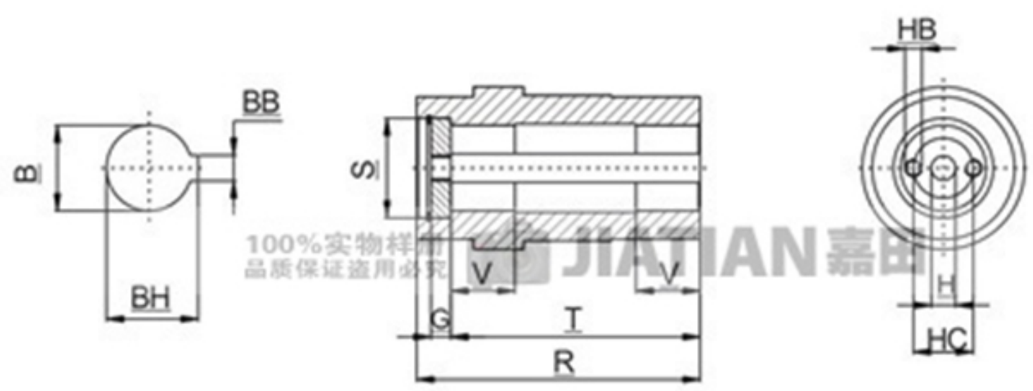
Type		Wight(kg)
TA80	80	155
	100	155

TA80D



Type			Wight(kg)
TA80	80	D	170
	100		170

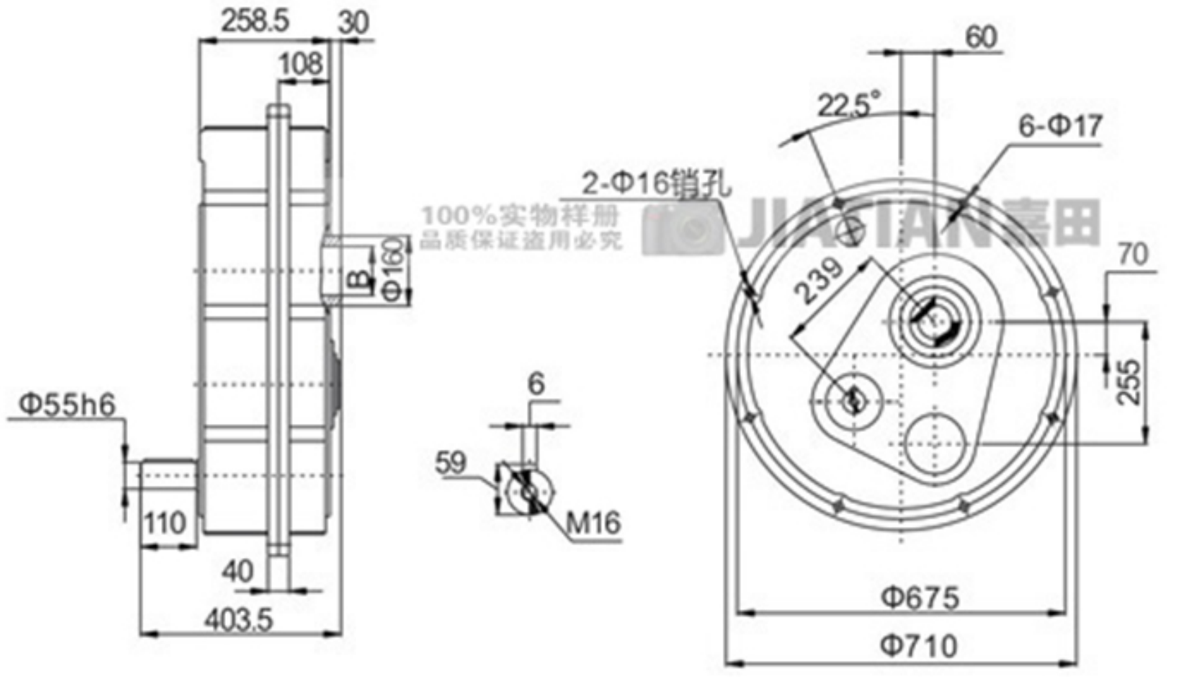
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA80	80	Φ80	22	85.4	Φ95	249	55	18	209	Φ22	M16	60
	100	Φ100	28	106.4	Φ120	249	55	20	207	Φ26	M20	80

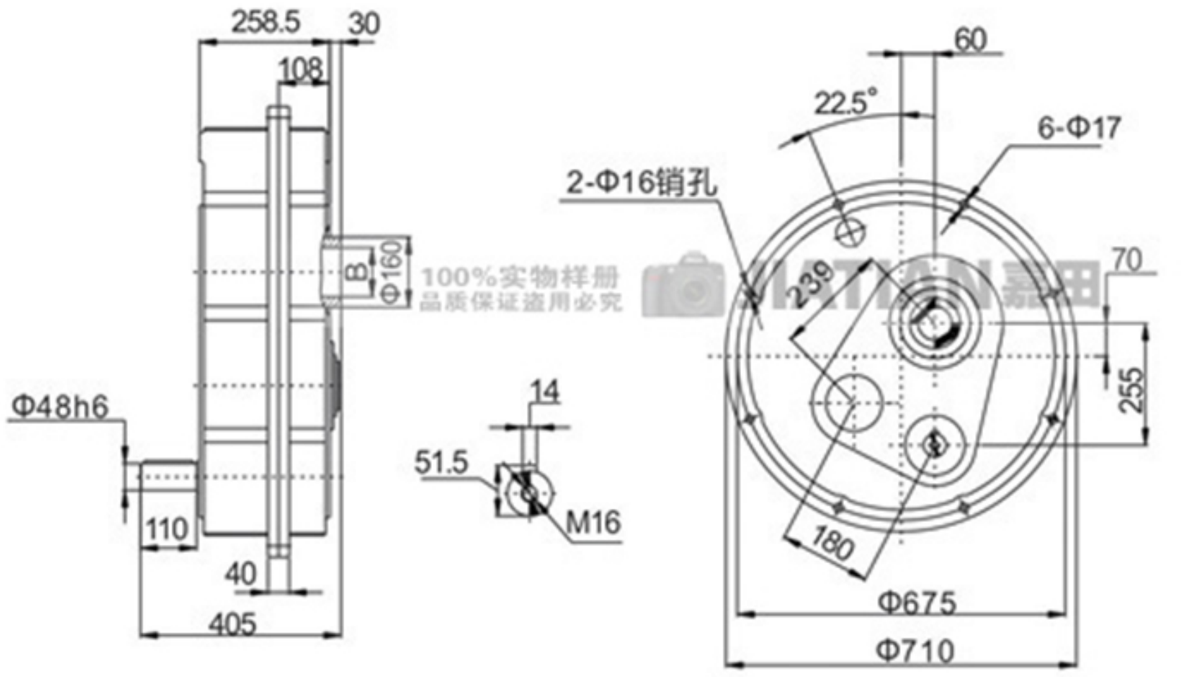
18、外形尺寸 DIMENSIONS

TA100



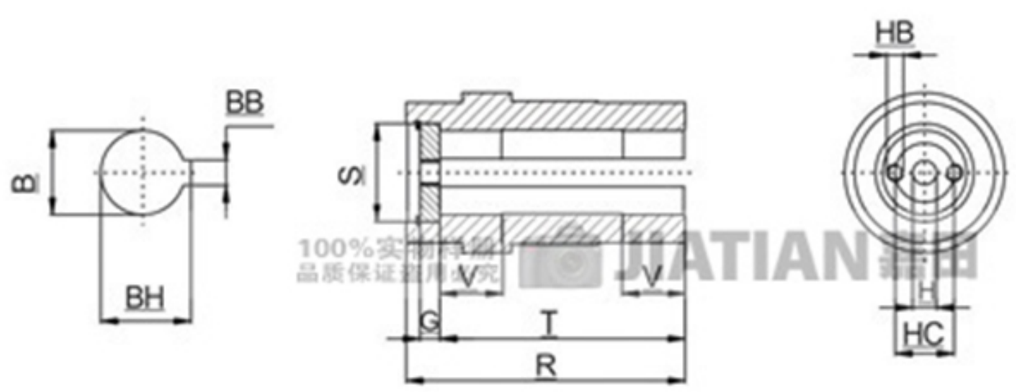
Type		Wight(kg)
TA100	100	265
	125	265

TA100D



Type		Wight(kg)
TA100D	100	285
	125	285

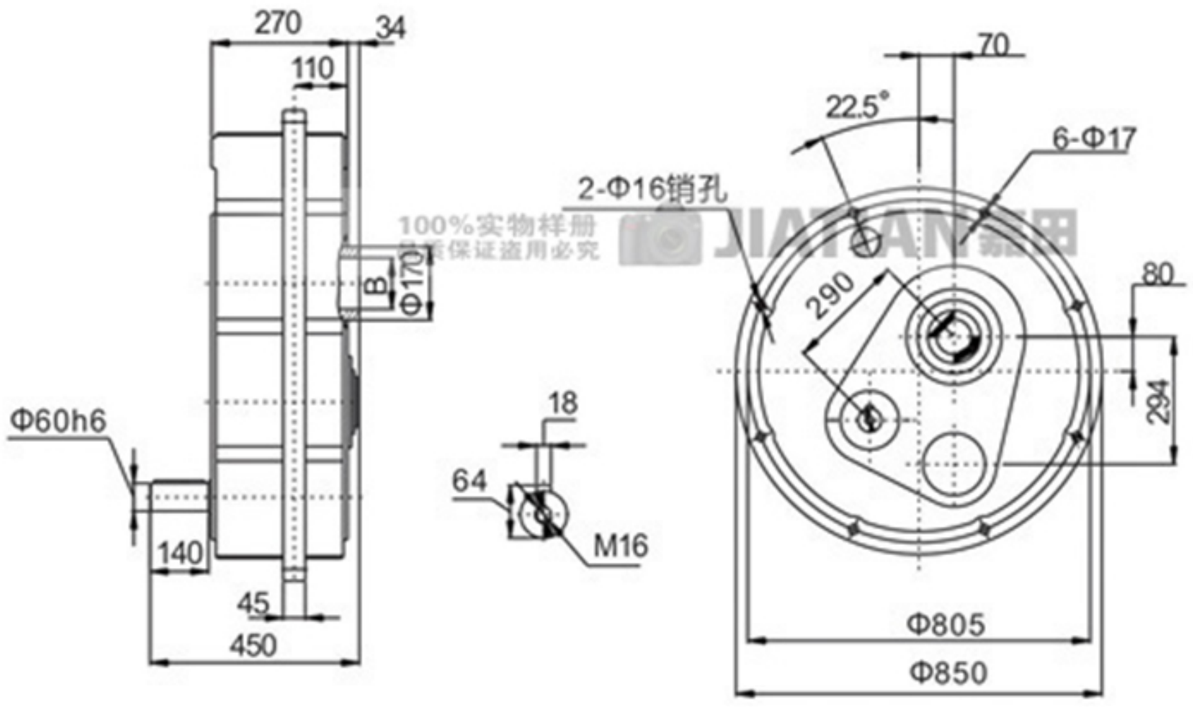
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA100	100	Φ100	28	106.4	Φ120	288.5	60	20	256.5	Φ26	M20	80
	125	Φ125	32	132.4	Φ145	228.5	60	20	256.5	Φ26	M20	100

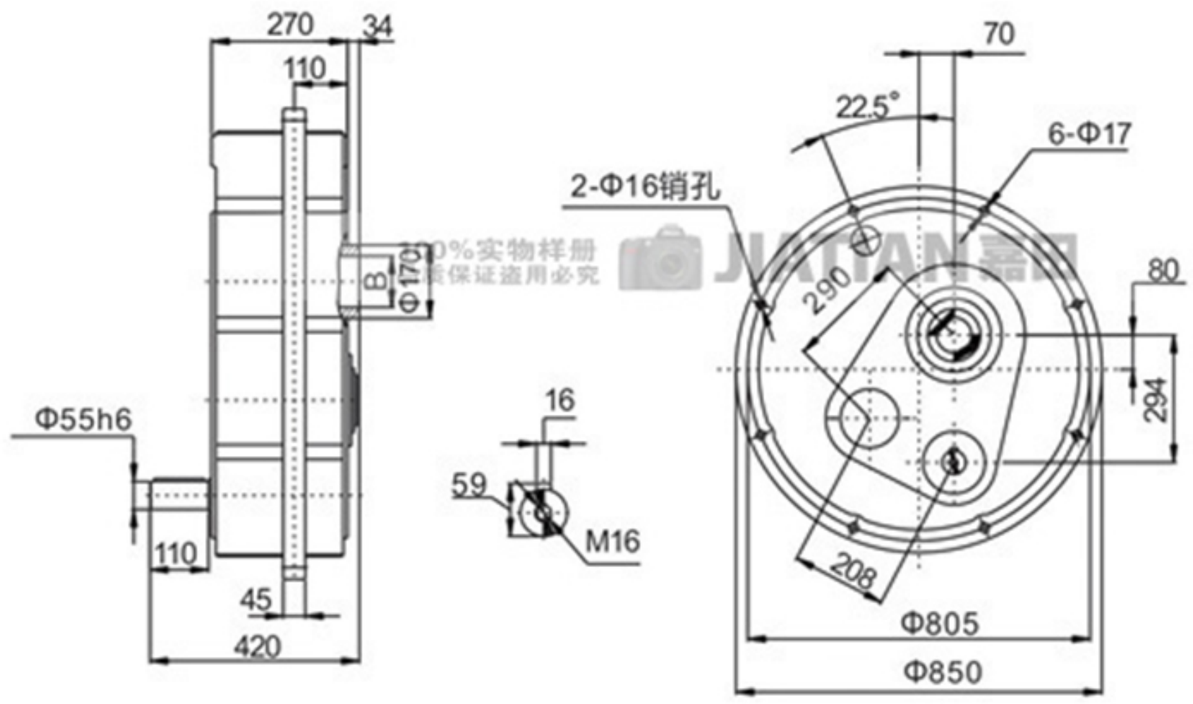
18、外形尺寸 DIMENSIONS

TA125



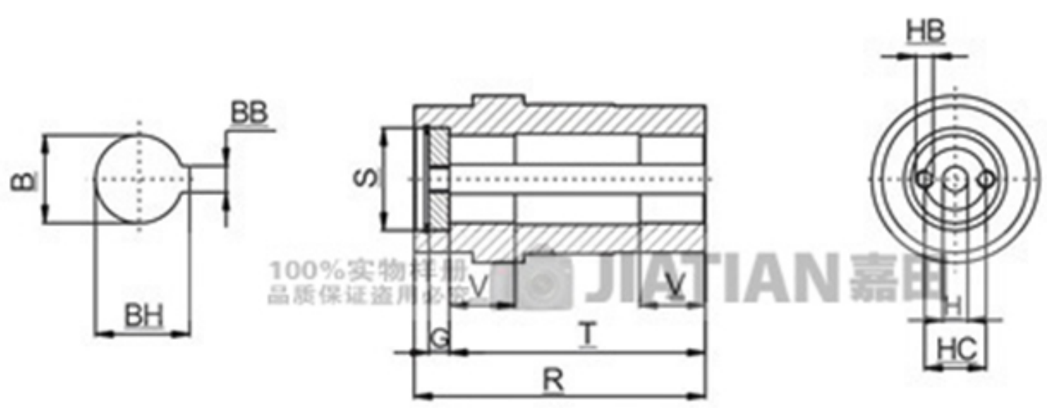
Type		Wight(kg)
TA125	125	350
	135	350

TA125D



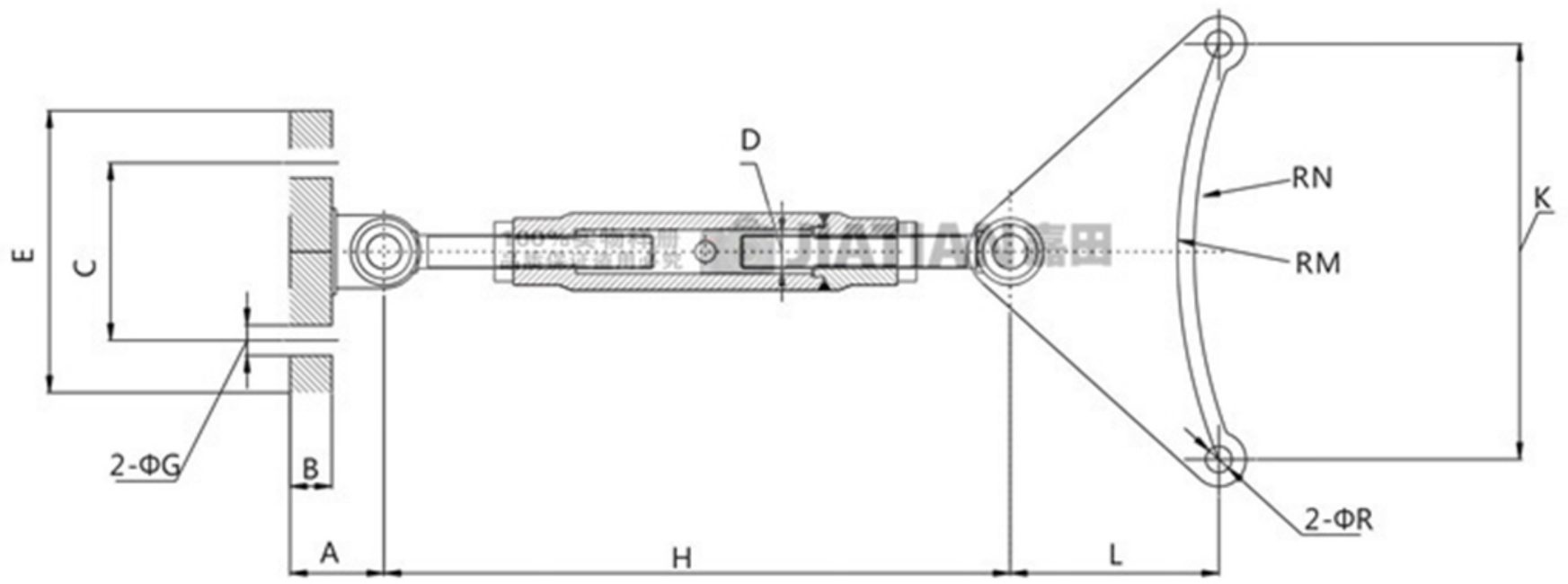
Type		Wight(kg)
TA125	125 D	435
	135 D	435

OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
TA125	125	φ125	32	132.4	φ145	304	60	20	257	φ26	M20	100
	135	φ135	36	143.4	φ150	304	60	20	257	φ32	M24	100

19、附件的外形尺寸 ACCESSORY DIMENSIONS



Model		Dimensions														
		A	B	C	D	E	F	G	H min	H max	K	L	M	N	R	P
TA35	35	25	10	50	M10	75	25	8.5	200	300	94.1	45	123	115	8.5	4
TA40	40	35	16	70	M12	105	35	10.5	210	310	118.6	51	155	147	8.5	45
	45															
TA45	45	35	16	70	M12	105	35	10.5	210	310	132	57	172	168	10.5	5
	50															
	55															
TA50	50	40	18	75	M14	115	40	12.5	240	360	157	70	205	198	10.5	5
	55															
	60															
TA60	60	40	18	75	M14	115	40	12.5	240	360	179	84	234	225	12.5	5
	70															
TA70	70	45	20	85	M16	135	50	14.5	260	410	199	100	260	252	12.5	6
	85															
TA80	80	45	20	85	M16	135	50	14.5	260	410	218	102	285	277	13	6
	100															
TA100	100	65	30	150	M20	220	70	25	340	560	258.3	115	337.5	326	17	10
	125															
TA125	123	65	30	150	M20	220	70	25	340	560	308.1	135	402.5	386	17	10
	135															