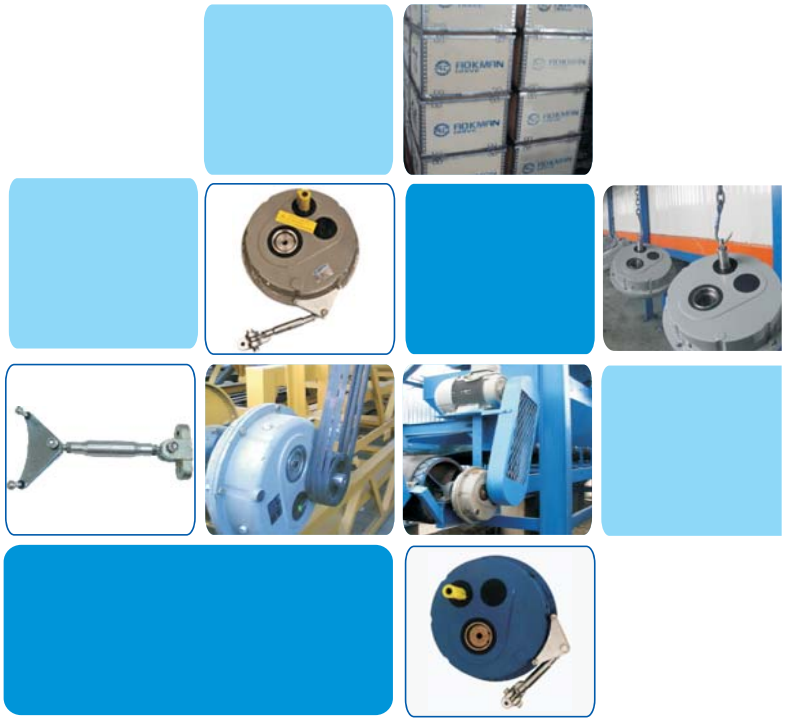
郑州澳柯熳机械设备有限公司
Zhengzhou AOKMAN Machinery Co.,Ltd
Add:中国·郑州经开区航海东路富田财富广场3-1307号
Add: No.1394, Hanghai East Road, Economic and Technological Development Zone, Zhengzhou 450016, China.
Tel: +86-371-53667898 Fax: +86-371-86027652
SKYPE : Aokman0902 E-mail:Aokman@aokman-drive.com
Web-site:www.aokman-gearbox.com

AOKMAN Drive Machinery Co.,Ltd
Add:UNIT 04,7/F,BRIGHT WAY TOWER,
NO. 33 MONG KOK ROAD,KOWLOON,HONG KONG
Tel : 00852-27935511
Fax : 00852-35902333
E-mail: Manager@aokmandrive.com

AOKMAN DRIVE



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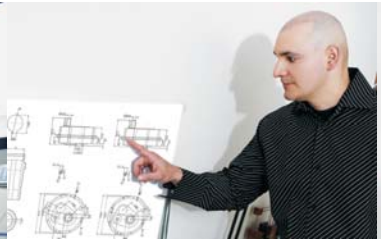
Aokman drive

A high product quality, a wide production and a flexible structure are the strong points of Aokman®. Aokman® was founded in 1982, specialized in R & D and manufacturing of gearboxes, gears, shaft, motor and spare parts.

We can offer the proper solution for uncountable applications. Our products are widely used in the ranges of metallurgical, steel, mining, pulp and paper, sugar and alcohol market and various other types of machines. With a strong presence in the international market, we export mainly to South America, Middle East, North America and Asia. Our pillars are firmly planted in the relentless pursuit of excellence, innovation and competitiveness. The technology base stands out in our operation, featuring the latest equipment and the most modern information technology.

We are committed to win a partner rather than a simple supplier. Aokman® has become a reliable supplier, able to supply high quality gearboxes. In fact, the entire production is developed inside our Company, thus it is submitted to an appropriate process control.

The products quality of Aokman® allied to the security and efficiency of its management which makes its brand synonymous with credibility and transparency with its suppliers and customers. Make a good deal, always consult Aokman® professionals! With 33 years experience, we assure you the utmost reliability and security for both product and services.



Directory

GENERAL INFORMATION

1.TORQUE

Rated torque

$M_{n2}[Nm]$

The torque that can be transmitted continuously through the output shaft ,with the gear unit operated under a service factor f_s=1, Rating is speed sensitive.

Required torque

$M_{r2}[Nm]$

The torque demand based on application requirement.
It must always be equal to or less than torque M_{n2} the gearbox under study is rated for.

Calculated torque

$M_{c2}[Nm]$

Computational torque value to be used when selecting the gearbox.
It is calculated considering the required torque M_{r2} and service factor f_s,as per the equation here after :

(1) $$M_{c2}=M_{r2}.f_s<M_{n2}$$

2. POWER

Rated power

$P_{n1}[KW]$

In the gearbox selection charts this is the power applicable to input shaft, based on input speed n_1 and corresponding to service factor f_s=1.

3. ANGULAR VELOCITY

Input speed

$n_1[min^{-1}]$

The speed is related to the prime mover selected. Catalogue values refer to speed of either single or double speed motors that are common in the industry.
If the gearbox is driven by an external transmission it is recommended to operate it with a speed of 1400min^{-1} , or lower, in order to optimise operating conditions and lifetime.
Higher input speeds are permitted; however in this case consider that torque rating M_{n2} is affected adversely.
Please consult a Aokman representative.

Output speed

$n_2[min^{-1}]$

The output speed value n_2 is calculated from the relationship of input speed n_1 to the gear ratio i, as per the following equation:

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

4.SERVICE FACTOR f_s

This factor is the numeric value describing reducer service duty.
It takes into consideration, with unavoidable approximation, daily operating conditions, load variations and overloads connected with reducer application.
Regardless to the value given for the service factor, we would like to remind that in some applications, which for example involve lifting of parts, failure of the reducer may expose the operators to the risk of injuries.
If in doubt, please contact our Technical Service.

(A-1)

Starts per hour	Duty	Daily operating hours			
		h≤0.5	0.5＜h≤2	2＜h≤10	10＜h＜24
Z＜10	uniform loading	0.8	0.9	1.0	1.25
	moderate shock loading	0.9	1.0	1.25	1.5
	heavy shock loading	1.0	1.25	1.5	1.75
Z≥10	uniform loading	0.9	1.0	1.25	1.5
	moderate shock loading	1.0	1.25	1.5	1.75
	heavy shock loading	1.25	1.5	1.75	2.0

Values listed above must be multiplied by 1.2 in case of:
-reversing operation
-shock loading applying instantaneously

5. MAINTENANCE

The first oil change must take place after about 300 hours of operation, carefully flushing the gear unit using suitable deter-gents.
Do not mix mineral oils with synthetic oils.
Check oil level regularly and change oil at the intervals shown in the following table.

(A-2)

Oil temperature[℃]	Oil change interval[h]	
	mineral oil	synthetic oil
<65	8000	25000
65-80	4000	15000
80-95	2000	12500

6. SELECTION

a) Determine service factor f_s.
b) Assuming the required output torque for the application M_{r2} is known, the calculation torque can be then defined as:

(3) $$M_{c2}=M_{r2}.f_s$$

c) The gear ratio is calculated according to requested output speed n_2 and drive speed n_1:

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

Once values for M_{c2} and i are known consult the rating charts under the appropriate input speed n_1 and locate the gear unit that features the gear ratio closest to [i] and at same time offers a rated torque value M_{n2} so that:

(5) $$M_{n2}\geq M_{c2}$$

7. VERIFICATION

Radial loads

Make sure that radial forces applying on input and/or output shaft are within permitted catalogue values.
If they were higher consider designing a different bearing arrangement before switching to a larger gear unit.
Catalogue values for rated overhung loads refer to mid-point of shaft under study.
Should application point of the overhung load be localized further out the revised loading capability must be adjusted as per instructions given in this manual. See paragraph 17.

Thrust loads

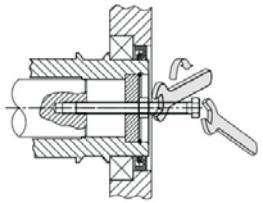
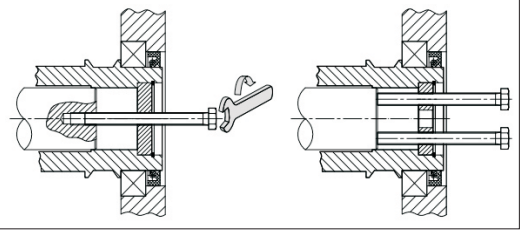
Actual thrust load must be found within 20% of the equivalent overhung load capacity.
Should an extremely high, or a combination of radial and axial load apply, consult AOKMAN Technical Service.

8. INSTALLATION

The following installation instructions must be observed:

a) Make sure that the gearbox is correctly secured to avoid vibrations.If shocks or overloads are expected, install hydraulic couplings, clutches, torque limiters, etc.
b) Before being paint coated, the machined surfaces and the outer face of the oil seals must be protected to prevent paint drying out the rubber and jeopardising the sealing function.
c) Prior to putting the gear unit into operation make sure that the equipment that incorporates the same complies with the current revision of the Machines Directive 89/392.
d) Before starting up the machine, make sure that oil level conforms to the mounting position specified for the gear unit and the viscosity is suitable for the duty the gearbox will be operated with. See chart (A-5) for reference.
e) For outdoor installation provide adequate guards in order to protect the drive from rainfalls as well as direct sun radiation.

(A-3)

MOUNTING OF GEAR UNIT	REMOVAL OF GEAR UNIT
	

Before assembling, the contact surfaces must be clean and treated with adeguate protective against rust and blocking.

9. STORAGE

Observe the following instructions to ensure correct storage of the products:

a) Do not store outdoors, in areas exposed to weather or with excessive humidity.
b) Always place boards, wood or other material between the products and the floor. The gearboxes should not have direct contact with the floor.
c) In case of long-term storage all machined surfaces such as flanges, shafts and couplings must be coated with a suitable rust inhibiting product (Mobilarma 248 or equivalent).
Furthermore gear units must be placed with the fill plug in the highest position and filled up with oil.
Before putting the units into operation the appropriate quantity, and type, of oil must be restored.

10. CONDITIONS OF SUPPLY

Gear units are supplied as follows:

a) configured for installation in the mounting position,specified when ordering;
b) tested to manufacturer specifications;
c) shafts are protected during transportation by plastic caps
d) supplied with lifting lug(where applicable).

11. PAINT SPECIFICATIONS

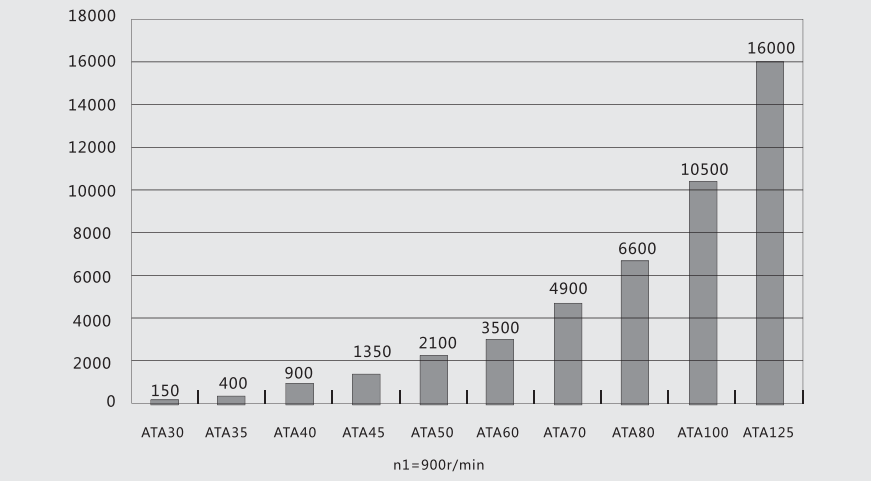
Specifications for paint applied to gearboxes (where applicable) may be obtained from the branches or dealers that supplied the units.

12 DESIGN FEATURES

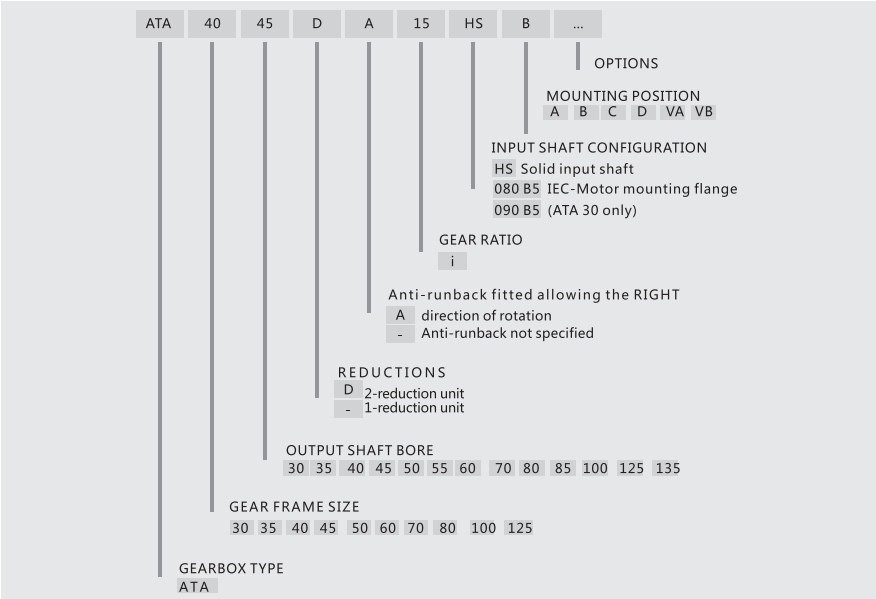
The main design characteristics are

a) high efficiency
b) quiet operation
c) gears from case hardened and hardened alloy steel, except gearwheel for ATA30
d) gear case from cast iron. All units are paint coated as standard.

(A-4)



13. DESIGNATION



GEARBOX OPTIONS

LO

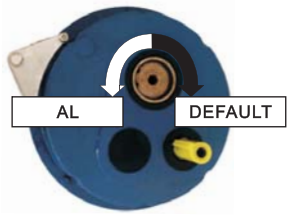
The gear unit, otherwise supplied unlubricated,is factory filled with synthetic lubricant. Oil quantity is coordinated with the mounting position specified with the ordering.

PV

Oil seals in Viton® compound are fitted.

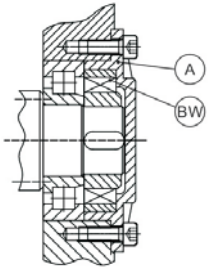
AL

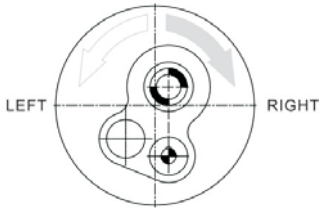
Specification of the counterclockwise free direction of rotation.



14. ANTI-RUN BACK DEVICE

With the exception of ATA30,the gearbox can be optionally fitted with an anti-runback device （ATA.../A-ATA../DA）which allows the output shaft rotation in one direction only.
Unless otherwise specified, the gearbox is supplied with the clockwise (right hand)free rotation. Should the counter-clockwise rotation (left hand)be required please specify option AL when ordering with AOKMAN.
Gearboxes of size 40, 45, 50,100 and 125 are designed to accept the BW anti-runback element as standard. Sizes 35,60,70 and 80 need the anti-runback support (A) to be added as well.





15.LUBRICATION

The inner parts of AokMan gear units are oil-bath and splash lubricated.
The charts here after must be referred to as for the mounting position pattern and the corresponding oil plugs, if applicable, and related lubricant quantity.
Values for the oil quantity are indicative with the proper filling always represented by the center of the sight glass, or the dipstick, when this is supplied.
In some cases, discrepancies, occasionally also substancial, versus the oil quantities listed in the chart may be noticed.

(A-5)

Oil viscosity ISO VG					
	ATA≤-20°	-20°<ATA≤10°	0°≤ATA≤30°	20°≤ATA≤40°	ATA>40°
Mineral EP	(*)	150	320	460	460(*)
PAO EP	(*)	150	220	320	460 (*)
PAG	(*)	150	220	320	460 (*)

PAO: Polyalphaolefin synthetic oils **PAG:** Polyglycol-based synthetic oils (*) consult AOKMAN Technical Service.

Oil quantity (I)

(A-6)

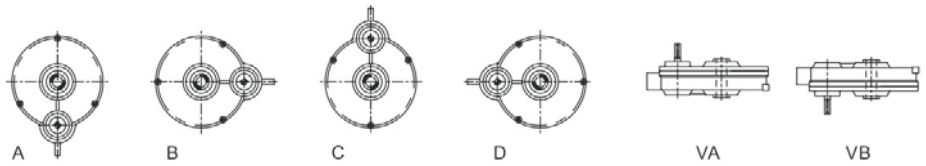
ATA 30	ATA 35	ATA 40	ATA 45	ATA 50	ATA 60	ATA 70	ATA 80	ATA 100	ATA 125
0.50	1.2	2.1	3.1	8.0	7.5	11	17	20	27
ATA 30	**ATA 35-D**	**ATA 40-D**	**ATA 45-D**	**ATA 50-D**	**ATA 60-D**	**ATA 70-D**	**ATA 80-D**	**ATA 100-D**	**ATA 125-D**
0.50	1.1	1.8	3.6	7.3	10	14	11	18	27

Quantities are only relevant to mounting position A.

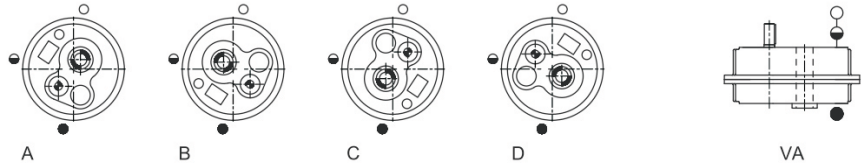
16. MOUNTING POSITIONS

	key:
○	Filling/breather plug
◒	Level plug
●	Drain plug

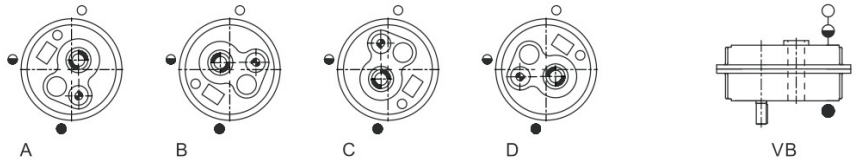
ATA30



ATA35-125



ATA35D-125D



17. OVERHUNG LOADS

External transmissions keyed onto input and/or output shaft generate loads that act radially onto same shaft. Resulting shaft loading must be compatible with both the bearing and the shaft capacity . Namely shaft loading (Rc1), must be equal or lower than admissible overhung load capacity for shaft under study (Rn1). OHL capability listed in the rating chart section.
The load generated by an external transmission can be calculated with close approximation by the following equations:

(6) $$R_{c1}[N] = \frac{2000 \cdot M_1[Nm] \cdot K_r}{d[mm]}$$

M_1 [Nm]	Torque applied to input shaft
d[mm]	Pitch diameter of element keyed onto shaft
Kr=1	Chain transmission
Kr=1,25	Gear transmission
Kr=1,5	V-belt transmission
Kr=2,0	Flat belt transmission

A comparison of shaft loading with catalogue OHL ratings should verify the following condition:

(6) $$R_{c1} <= R_{n1}$$

18. PERMITTED TORQUE(N.m)

Model	ATA30	ATA35	ATA40	ATA45	ATA50	ATA60	ATA70	ATA80	ATA100	ATA125
permitted torqne	180Nm	420Nm	9501Nm	1400Nm	2300Nm	3600Nm	5100Nm	7000Nm	11000Nm	17000Nm

19. RATING CHARTS

Input speed n1=1400rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated output power pn1[KW]	Overhungloads Rn1[N]	Model		
5	5	280	200	6.0	700	ATA35	35	
	5	280	480	14.4	1000	ATA40	40 45	
	5	280	850	26.0	1500	ATA45	45 50 55	
	5	280	1400	42.0	2250	ATA50	50 55 60	
	5	280	1900	57.0	3200	ATA60	60 70	
	5	280	2600	78.0	3700	ATA70	70 85	
	5	280	3700	111.0	4500	ATA80	80 100	
	5	280	5500	165.0	5500	ATA100	100 125	
	5	280	7500	226.0	6500	ATA125	125 135	
7	7.2	194	137	2.9	350	ATA30	30	
10	10	140	137	2.1	350	ATA30	30	
	10	140	300	4.6	500	ATA35	35	D
	10	140	600	9.2	850	ATA40	40 45	D
	10	140	1000	15.4	1150	ATA45	45 50 55	D
	10	140	1750	27.0	1700	ATA50	50 55 60	D
	10	140	3100	48.0	2600	ATA60	60 70	D
	10	140	3800	59.0	3400	ATA70	70 85	D
	10	140	5500	85.0	4200	ATA80	80 100	D
	10	140	9000	139.0	5000	ATA100	100 125	D
	10	140	12500	193.0	5500	ATA125	125 135	D

Input speed n1=1400rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model		
12.5	12.7	110	137	1.6	350	ATA35	35	D
	13.3	105	700	8.1	850	ATA40	40 45	D
	12.2	115	1100	13.9	1150	ATA45	45 50 55	D
	12	117	1800	23	1700	ATA50	50 55 60	D
	12.2	115	3100	39.0	2600	ATA60	60 70	D
	12.2	115	4000	51.0	3400	ATA70	70 85	D
	12.5	112	5500	68.0	4200	ATA80	80 100	D
	12.3	114	9000	113.0	5000	ATA100	100 125	D
	12.3	114	12500	157.0	5500	ATA125	125 135	D
15	15	93	350	3.6	500	ATA35	35	D
	15	93	750	7.7	850	ATA40	40 45	D
	15	93	1200	12.3	1150	ATA45	45 50 55	D
	15	93	1900	19.5	1700	ATA50	50 55 60	D
	15	93	3200	33.0	2600	ATA60	60 70	D
	15	93	4400	45.0	3400	ATA70	70 85	D
	15	93	6100	63.0	4200	ATA80	80 100	D
	15	93	9500	98.0	5000	ATA100	100 125	D
	15	93	12500	128.0	5500	ATA125	125 135	D
20	19.5	72	380	3.0	500	ATA35	35	D
	19.7	71	780	6.1	850	ATA40	40 45	D
	19.7	71	1250	9.8	1150	ATA45	45 50 55	D
	20.3	69	1950	14.8	1700	ATA50	50 55 60	D

Input speed n1=1400rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model
20	20.3	69	3250	25.0	2600	ATA60 60 70 D
	20.3	69	4500	34.0	3400	ATA70 70 85 D
	20.3	69	6100	46.0	4200	ATA80 80 100 D
	20.3	69	9500	72.0	5000	ATA100 100 125 D
	20.3	69	14000	106.0	5500	ATA125 125 135 D
25	25	56	400	2.5	500	ATA35 35 D
	25	56	800	4.9	850	ATA40 40 45 D
	25	56	1300	8.0	1150	ATA45 45 50 55 D
	25	56	2000	12.3	1700	ATA50 50 55 60 D
	25	56	3300	20.0	2600	ATA60 60 70 D
	25	56	4600	28.0	3400	ATA70 70 85 D
	25	56	6300	31.0	4200	ATA80 80 100 D
	25	56	9800	60.0	5000	ATA100 100 125 D
	25	56	15000	92.0	5500	ATA125 125 135 D
31	33.2	42	800	3.7	850	ATA40 40 45 D
	30.4	46	1300	6.6	1150	ATA45 45 50 55 D
	30	47	2000	10.3	1700	ATA50 50 55 60 D
	30.4	46	3300	16.7	2600	ATA60 60 70 D
	30.4	46	4600	23.0	3400	ATA70 70 85 D
	31.1	45	6300	31.0	4200	ATA80 80 100 D
	30.8	45	9800	49.0	5000	ATA100 100 125 D
	30.8	45	15000	75.0	5500	ATA125 125 135 D

Input speed n1=900rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model
5	5	180	250	4.8	800	ATA35 35
	5	180	550	10.6	1200	ATA40 40 45
	5	180	950	18.4	1700	ATA45 45 50 55
	5	180	1700	33.0	2500	ATA50 50 55 60
	5	180	2100	41.0	3600	ATA60 60 70
	5	180	3000	58.0	4200	ATA70 70 85
	5	180	4200	81.0	5100	ATA80 80 100
	5	180	6200	120.0	6200	ATA100 100 125
	5	180	8000	155.0	7300	ATA125 125 135
5	7.2	125	150	2.0	400	ATA30 30
10	10	90	150	1.4	400	ATA30 30
	10	90	350	3.5	600	ATA35 35 D
	10	90	750	7.4	950	ATA40 40 45 D
	10	90	1200	11.9	1300	ATA45 45 50 55 D
	10	90	1900	18.8	1900	ATA50 50 55 60 D
	10	90	3200	32.0	2900	ATA60 60 70 D
	10	90	4400	44.0	3800	ATA70 70 85 D
	10	90	6100	60.0	4700	ATA80 80 100 D
	10	90	9500	94.0	5600	ATA100 100 125 D
	10	90	14000	139.0	6200	ATA125 125 135 D
12.5	12.7	71	150	1.1	400	ATA35 35 D
	13.3	68	780	5.8	950	ATA40 40 45 D
	12.2	74	1200	9.7	1300	ATA45 45 50 55 D
	12	75	1900	15.7	1900	ATA50 50 55 60

Input speed n1=900rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model
12.5	12.2	74	3200	26.0	2900	ATA60 60 70 D
	12.2	74	4400	36.0	3800	ATA70 70 85 D
	12.5	72	6100	48.0	4700	ATA80 80 100 D
	12.3	73	9500	77.0	5600	ATA100 100 125 D
	12.3	73	14000	113.0	6200	ATA125 125 135 D
15	15	60	400	2.6	600	ATA35 35 D
	15	60	800	5.3	950	ATA40 40 45 D
	15	60	1250	8.3	1300	ATA45 45 50 55 D
	15	60	1950	12.9	1900	ATA50 50 55 60 D
	15	60	3300	22.0	2900	ATA60 60 70 D
	15	60	4500	30.0	3800	ATA70 70 85 D
	15	60	6300	42.0	4700	ATA80 80 100 D
	15	60	10000	66.0	5600	ATA100 100 125 D
	15	60	15000	99.0	6200	ATA125 125 135 D
20	19.5	46	400	2.0	600	ATA35 35 D
	19.7	46	800	4.0	950	ATA40 40 45 D
	19.7	46	1300	6.5	1300	ATA45 45 50 55 D
	20.3	44	2000	9.8	1900	ATA50 50 55 60 D
	20.3	44	3400	16.6	2900	ATA60 60 70 D
	20.3	44	4600	22.0	3800	ATA70 70 85 D
	20.3	44	6300	31.0	4700	ATA80 80 100 D
	20.3	44	10000	49.0	5600	ATA100 100 125 D
	20.3	44	15000	73.0	6200	ATA125 125 135 D

Input speed n1=900rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model
25	25	36	400	1.6	600	ATA35 35 D
	25	36	850	3.4	950	ATA40 40 45 D
	25	36	1350	5.4	1300	ATA45 45 50 55 D
	25	36	2100	8.3	1900	ATA50 50 55 60 D
	25	36	3500	13.9	2900	ATA60 60 70 D
	25	36	4900	19.4	3800	ATA70 70 85 D
	25	36	6600	26.0	4700	ATA80 80 100 D
	25	36	10500	42.0	5600	ATA100 100 125 D
	25	36	16000	63.0	6200	ATA125 125 135 D
31	33.2	27.1	900	2.7	950	ATA40 40 45 D
	30.4	29.6	1350	4.4	1300	ATA45 45 50 55 D
	30	30	2100	6.9	1900	ATA50 50 55 60 D
	30.4	29.6	3500	11.4	2900	ATA60 60 70 D
	30.4	29.6	4900	16.0	3800	ATA70 70 85 D
	31.3	29.8	6600	21.0	4700	ATA80 80 100 D
	30.8	29.2	10500	34.0	5600	ATA100 100 125 D
	30.8	29.2	1600	51.0	6200	ATA125 125 135 D

Input speed n1=500rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model
5	5	100	350	3.8	1000	ATA35 35
	5	100	700	7.5	1500	ATA40 40 45
	5	100	1100	11.8	2150	ATA45 45 50 55

Input speed n1=500rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model		
5	5	100	1900	20.0	3100	ATA50	50 55 60	
	5	100	2900	32.0	4500	ATA60	60 70	
	5	100	4000	43.0	5200	ATA70	70 85	
	5	100	5000	54.0	6400	ATA80	80 100	
	5	100	7000	75.0	7900	ATA100	100 125	
	5	100	10000	107.0	9200	ATA125	125 135	
7	7.2	69	180	1.3	500	ATA30	30	
10	10	50	180	1.0	500	ATA30	30	
	10	50	400	2.2	750	ATA35	35	D
	10	50	800	4.4	1200	ATA40	40 45	D
	10	50	1300	7.2	1650	ATA45	45 50 55	D
	10	50	2000	11.0	2400	ATA50	50 55 60	D
	10	50	3300	18.2	3600	ATA60	60 70	D
	10	50	4500	25.0	4750	ATA70	70 85	D
	10	50	6300	35.0	5900	ATA80	80 100	D
	10	50	10000	55.0	6800	ATA100	100 125	D
	10	50	15000	83.0	7700	ATA125	125 135	D
12.5	12.7	39	180	0.8	500	ATA35	35	D
	13.3	38	820	3.4	1200	ATA40	40 45	D
	12.2	41	1300	5.9	1650	ATA45	45 50 55	D
	12	42	2000	9.2	2400	ATA50	50 55 60	D
	12 .2	41	3300	14.9	3600	ATA60	60 70	D
	12 .2	40	4500	20.0	4750	ATA70	70 85	D

Input speed n1=500rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model		
12.5	12.5	40	6300	35.0	5900	ATA80	80 100	D
	12.3	41	10000	45.0	6800	ATA100	100 125	D
	12.3	41	15000	67.0	7700	ATA125	125 135	D
15	15	33	400	1.5	750	ATA35	35	D
	15	33	850	3.1	1200	ATA40	40 45	D
	15	33	1300	4.8	1650	ATA45	45 50 55	D
	15	33	2100	7.7	2400	ATA50	50 55 60	D
	15	33	3550	13.0	3600	ATA60	60 70	D
	15	33	4900	18.0	4750	ATA70	70 85	D
	15	33	6600	24.0	5900	ATA80	80 100	D
	15	33	10500	39.0	6800	ATA100	100 125	D
	15	33	16000	59.0	7700	ATA125	125 135	D
20	19.5	25.6	400	1.1	750	ATA35	35	D
	19.7	25.4	850	2.4	1200	ATA40	40 45	D
	19.7	25.4	1350	3.8	1650	ATA45	45 50 55	D
	20.3	24.6	2100	5.7	2400	ATA50	50 55 60	D
	20.3	24.6	3550	9.6	3600	ATA60	60 70	D
	20.3	24.6	5000	13.6	4750	ATA70	70 85	D
	20.3	24.6	6600	17.9	5900	ATA80	80 100	D
	20.3	24.6	10500	28.0	6200	ATA100	100 125	D
	20.3	24.6	16000	43.0	7700	ATA125	125 135	D
25	25	2024.6	420	0.92	750	ATA35	35	D
	25	20	900	2.0	1200	ATA40	40 45	D
	25	20	1400	3.1	1650	ATA45	45 50 55	D

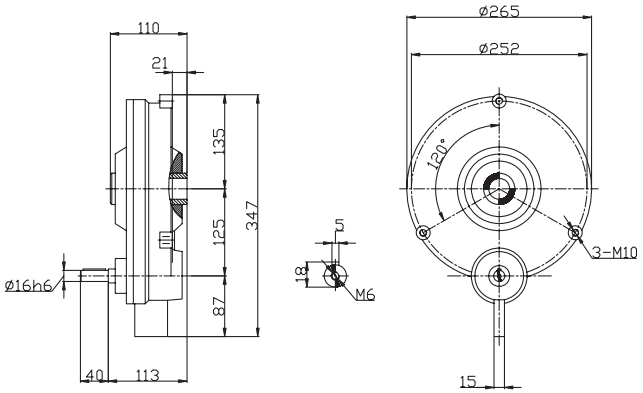
Input speed n1=500rpm

Nomimal ratioin	Exactratio iex	Output speed n2[rpm]	Rated output torque Mn2[Nm]	Rated iutput power pn1[KW]	Overhungloads Rn1[N]	Model		
25	25	20	2300	5.1	2400	ATA50	50 55 60	D
	25	20	3600	7.9	3600	ATA60	60 70	D
	25	20	5100	11.2	4750	ATA70	70 85	D
	25	20	7000	15.4	5900	ATA80	80 100	D
	25	20	11000	24.0	6800	ATA100	100 125	D
	25	20	17000	37.0	7700	ATA125	125 135	D
31	33.2	15.1	950	1.6	1200	ATA40	40 45	D
	30.4	16.4	1400	2.5	1650	ATA45	45 50 55	D
	30	16.7	2300	4.2	2400	ATA50	50 55 60	D
	30.4	16.4	3600	6.5	3600	ATA60	60 70	D
	30.4	16.4	5100	9.2	4750	ATA70	70 85	D
	31.3	16	7000	12.3	5900	ATA80	80 100	D
	30.8	16.2	11000	19.7	6800	ATA100	100 125	D
	30.8	16.2	17000	30.0	7700	ATA125	125 135	D

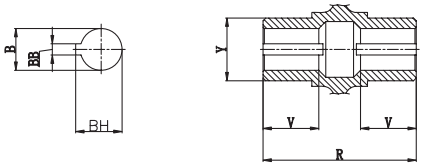
DIMENSIONS

Dimensions

ATA30



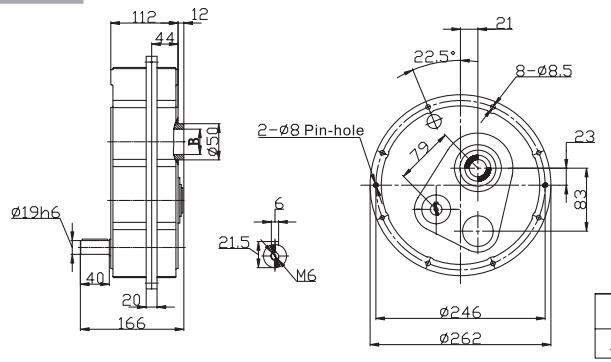
OUTPUT



TYPE	B(H7)	BB	BH	Y	R	V
ATA30	φ30	8	33.3	φ45	110	40

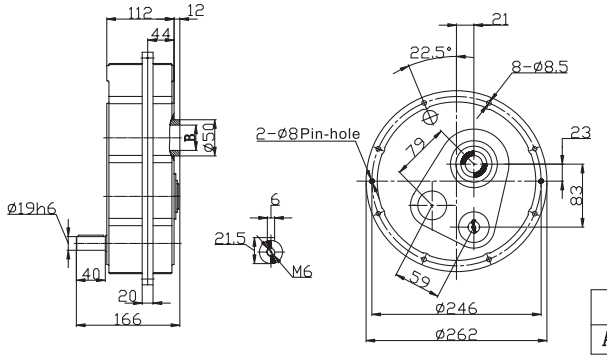
Dimensions

ATA35



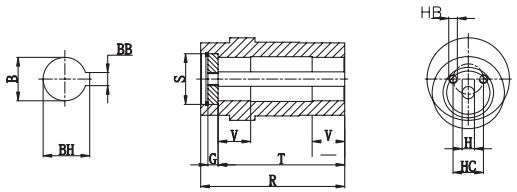
Type		Wight(kg)
ATA35	35	18

ATA35D



Type		Wight(kg)
ATA35	35 D	20

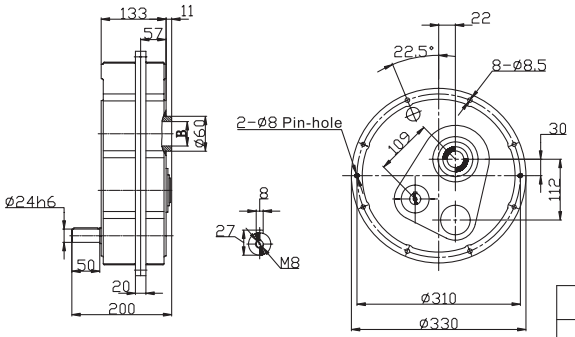
OUTPUT



TYPE	B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA35	φ35	10	38.3	φ42	124	30	10	106	M10	--	--

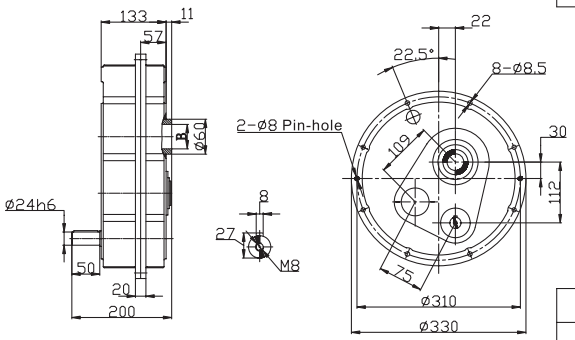
Dimensions

ATA40



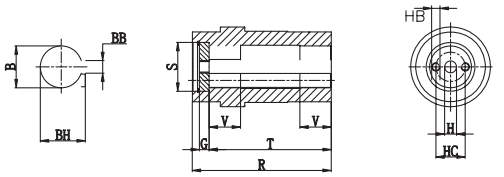
Type		Wight(kg)
ATA40	40	29
	45	29

ATA40D



Type		Wight(kg)
ATA40	40 D	31
	45	31

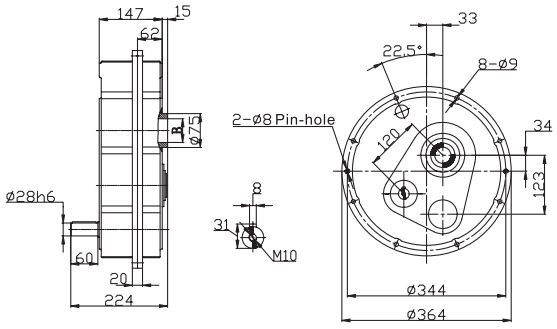
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA40	40	φ40	12	43.3	φ50	144	30	12	124	M12	--	--
	45	φ45	14	48.8	φ50	144	30	12	124	M12	--	--

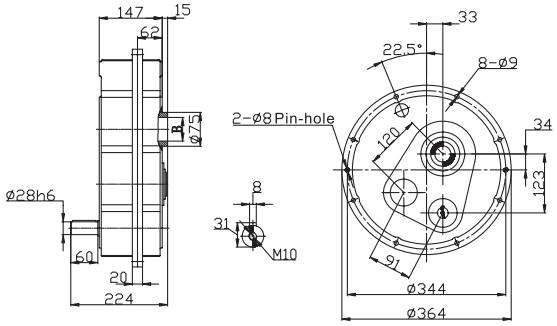
Dimensions

ATA45



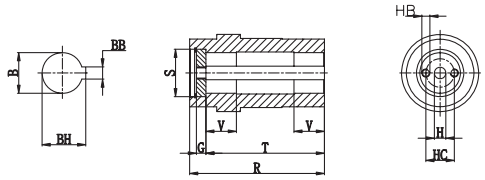
Type		Wight (kg)
ATA45	45	37
	50	37
	55	37

ATA45D



Type		Wight (kg)
ATA45 D	45	41
	50	41
	55	41

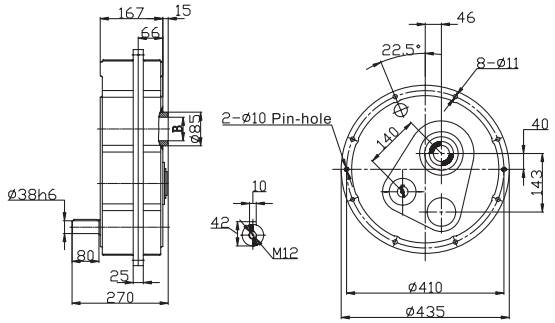
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA45	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	--	--

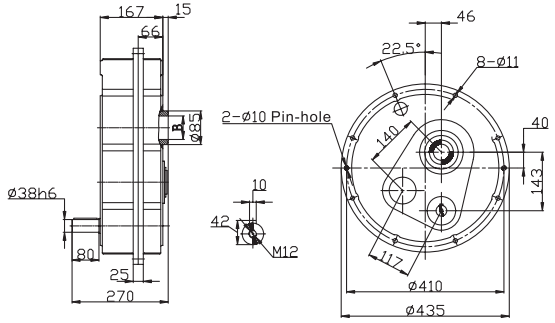
Dimensions

ATA50



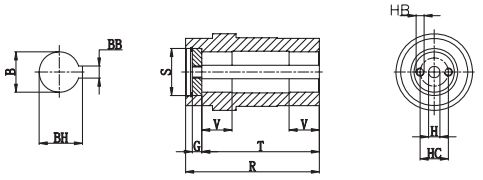
Type		Wight (kg)
ATA50	50	58
	55	58
	60	58

ATA50D



Type		Wight (kg)
ATA50 D	50	62
	55	62
	60	62

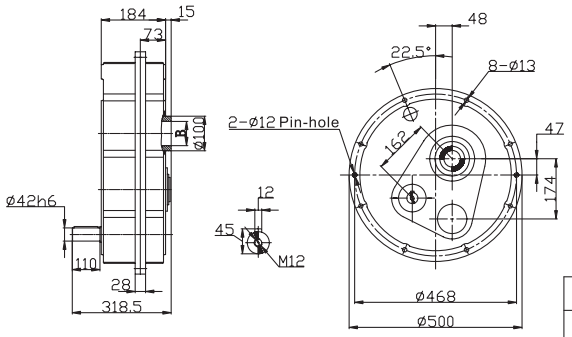
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA50	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

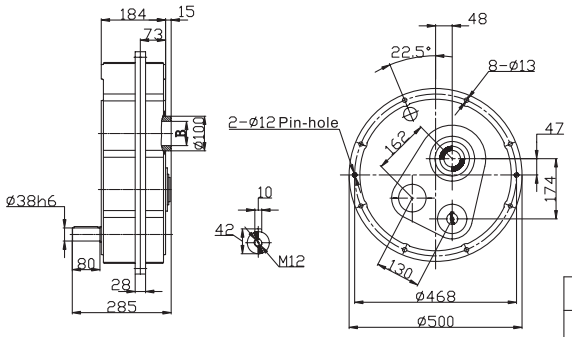
Dimensions

ATA60



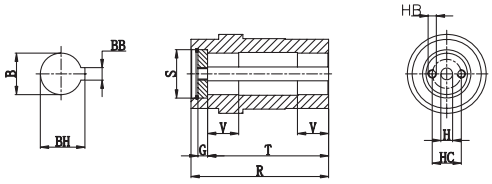
Type		Wight (kg)
ATA60	60	88
	70	88

ATA60D



Type			Wight (kg)
ATA60	60	D	102
	70		102

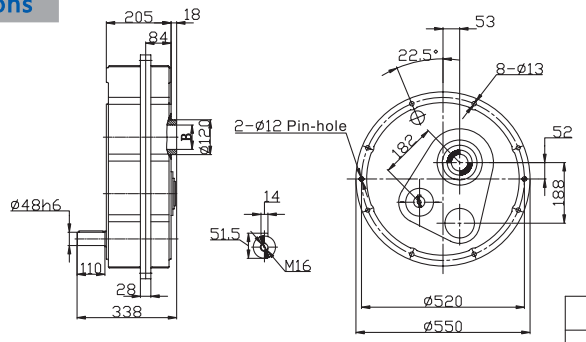
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA60	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

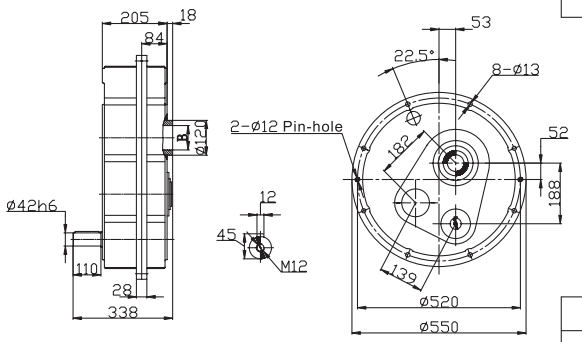
Dimensions

ATA70



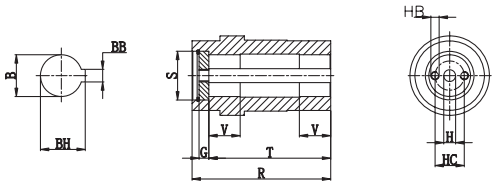
Type		Wight (kg)
ATA70	70	115
	85	115

ATA70D



Type			Wight (kg)
ATA70	70	D	129
	85		129

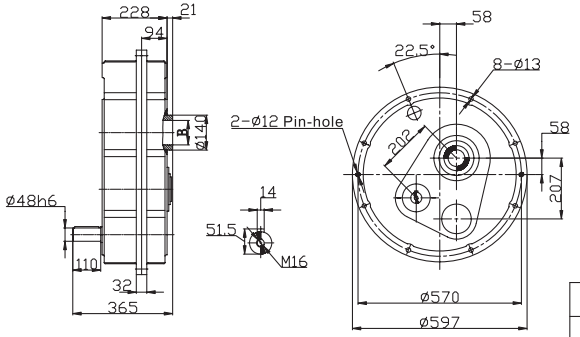
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA70	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

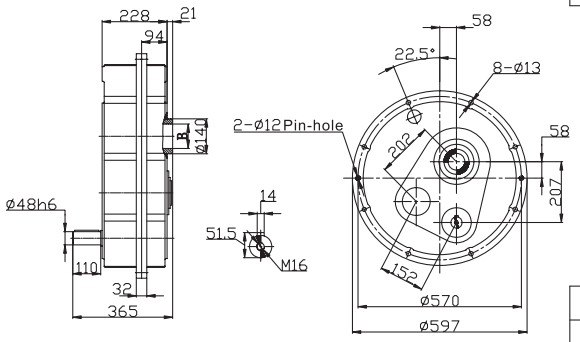
Dimensions

ATA80



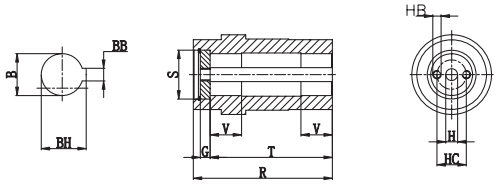
Type		Wight (kg)
ATA80	80	155
	100	155

ATA80D



Type			Wight (kg)
ATA80	80	D	170
	100		170

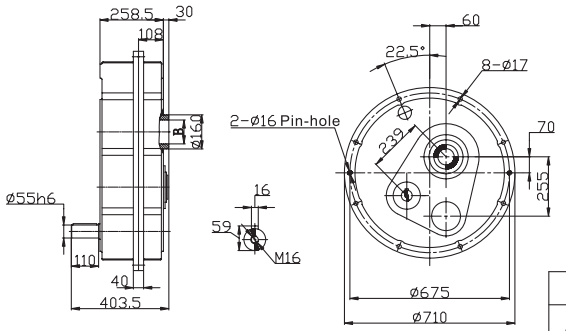
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA80	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

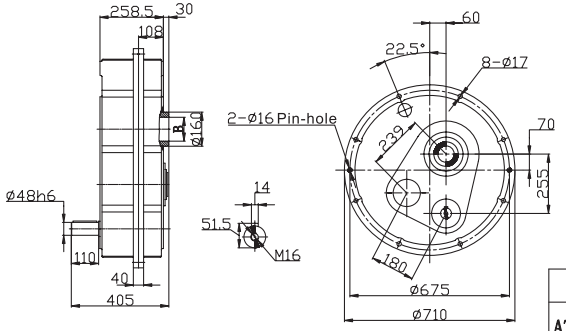
Dimensions

ATA100



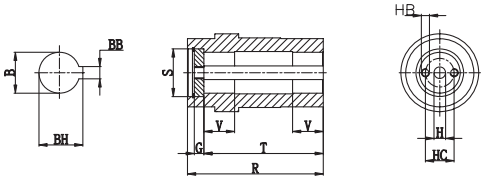
Type		Wight (kg)
ATA100	100	265
	125	265

ATA100D



Type			Wight (kg)
ATA100	100	D	285
	125		285

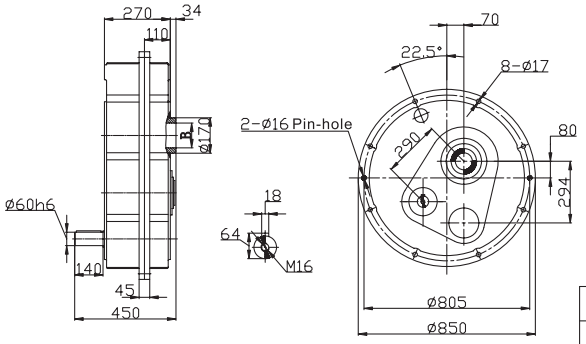
OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA100	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

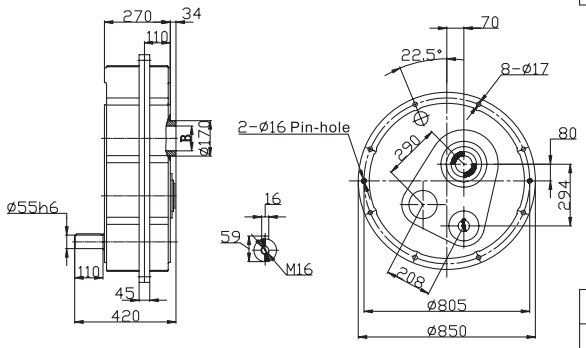
Dimensions

ATA125



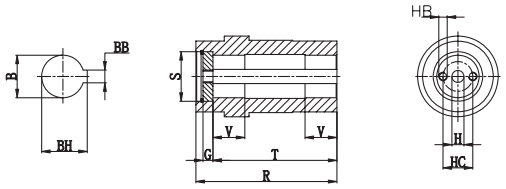
Type		Wight (kg)
ATA125	125	350
	135	350

ATA125D



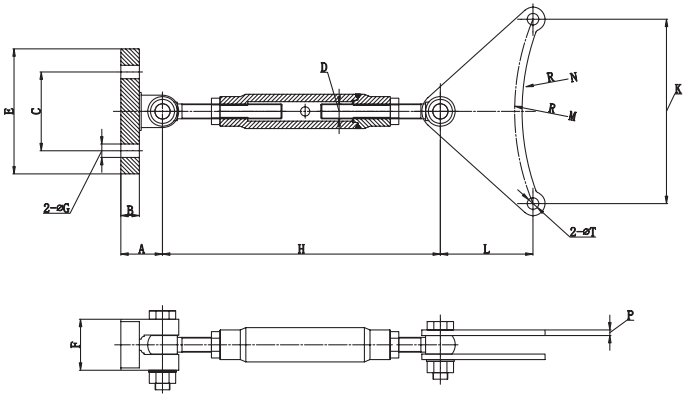
Type		Wight (kg)
ATA125D	125	435
	135	435

OUTPUT



TYPE		B(H7)	BB	BH	S	R	V	G	T	H	HB	HC
ATA125	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

ACCESSORY DIMENSIONS



Model		Dimensions														
		A	B	C	D	E	F	G	H min	H max	K	L	M	N	T	P
ATA35	35	25	10	50	M10	75	25	8.5	200	300	94.1	45	123	115	8.5	4
ATA40	40	35	16	70	M12	105	35	10.5	210	310	118.6	51	155	147	8.5	45
	45															
ATA45	45	35	16	70	M12	105	35	10.5	210	310	132	57	172	168	10.5	5
	50															
	55															
ATA50	50	40	18	75	M14	115	40	12.5	240	360	157	70	205	198	10.5	5
	55															
	60															
ATA60	60	40	18	75	M14	115	40	12.5	240	360	179	84	234	225	12.5	5
	70															
ATA70	70	45	20	85	M16	135	50	14.5	260	410	199	100	260	252	12.5	6
	85															
ATA80	80	45	20	85	M16	135	50	14.5	260	410	218	102	285	277	13	6
	100															
ATA100	100	65	30	150	M20	220	70	25	340	560	258.3	115	337.5	326	17	10
	125															
ATA125	123	65	30	150	M20	220	70	25	340	560	308.1	135	402.5	386	17	10
	135															

ATA series shaft mounted gear reducer

ATA series shaft mounted gear reducers with hardened gears have large carrying capacity,smooth transmission,linght weight,low energy consumption and so on characteristics,input shaft of reducer is connected with motor by belt pulley,output hollow shaft linked with a key.It could be instead of electric drum to be power source for a belt conveyors and lifting equipments. It is widely applied in the mining equipments,Concrete mixing batching plant,Stone Crushers,Sand making production line and other belt conveyor mechanical transmission areas.

AOKMAN DRIVE

Memorandum


RV Series


P Series


RV Series


B.K Series


Motor


ZJY Series


R Series


K Series