



Professional Supplier For Transmission Equipments And Solution

DESBOER (JIANGSU) TRANSMISSION TECHNOLOGY CO., LTD

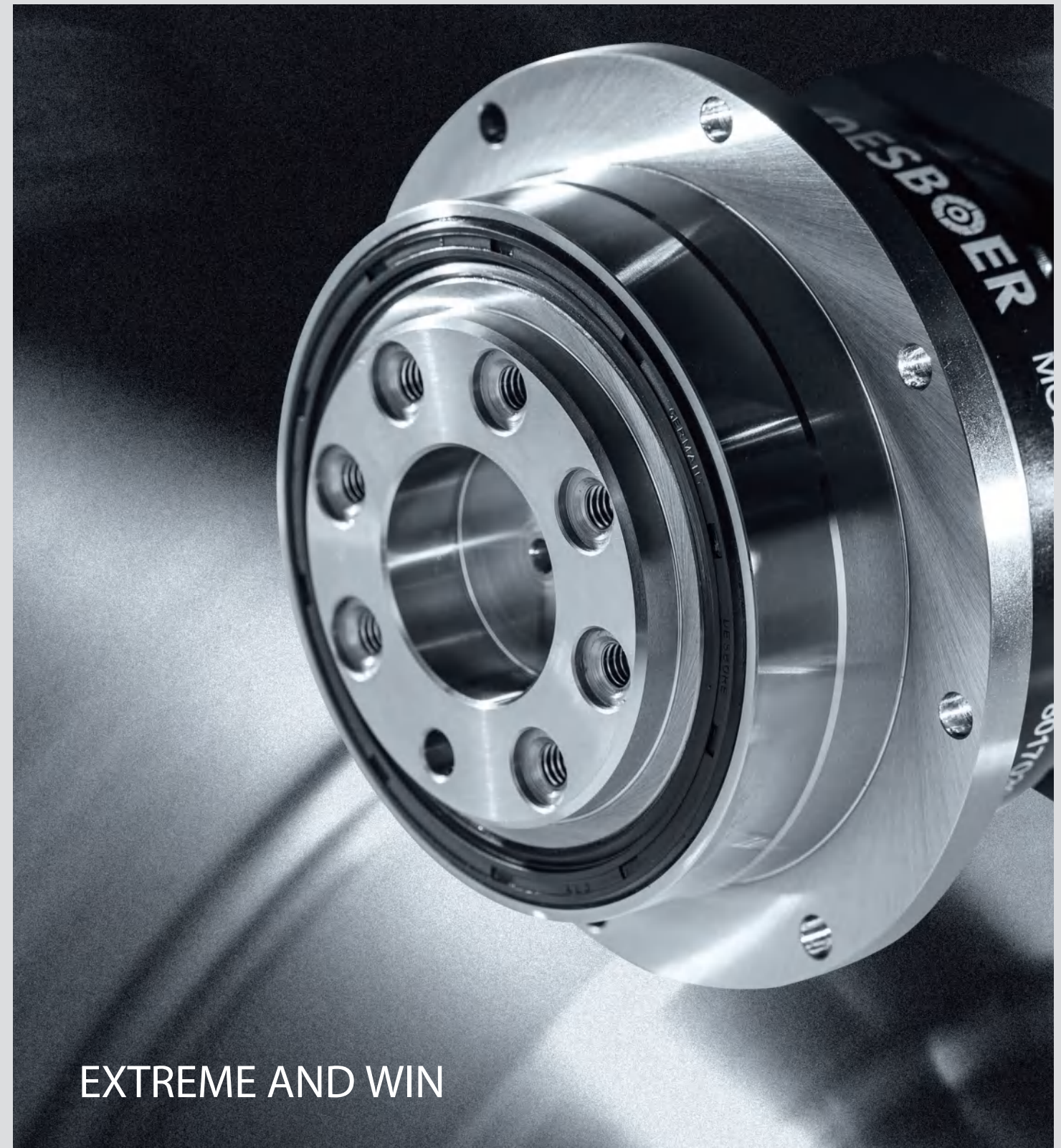
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EXTREME AND WIN

Precision Planetary Gearbox

About DESBOER

Precision in Motion, Skilled in Engineering.



DESBOER (Jiangsu) Transmission Technology Co., Ltd. is a leading innovator and manufacturer of high precision planetary gearbox. We provide superior performance and reliable guarantee for demanding industrial applications worldwide. Driven by continuous innovation and strict quality control,

DESBOER provides integrated drive solutions that empower our global customers to achieve excellent productivity. We work with you to meet the most challenging needs based on the outstanding performance of precision engineering.

DESBOER • 德世博尔

To enhance customer service and reduce delivery times, our main manufacture plant - Changzhou Nanpeng Machinery Co., Ltd. was established in Changzhou, China in 2014, with large investment in top-tier processing equipment and cutting-edge technology from Japan. The workers were also well trained to ensure rapid production capacity. As a result, DESBOER (China) - Changzhou Nanpeng Machinery Co., Ltd. quickly developed a complete standard assembly line and a robust quality assurance system.

Now, a new-generation low-backlash planetary gearbox series has been developed by DESBOER, featuring high precision, high torsional rigidity, high reliability, low noise, long service life, and maintenance-free operation. These advanced gearboxes are widely used in robotic technologies, mechanical arms, machine tools, machining systems, food and packaging equipment, printing machinery, and automatic production lines, etc. In terms of R&D concept, system architecture and service philosophy regarding industrial automation solutions, DESBOER has won widespread recognition, which not only makes itself a leading domestic brand, but also gains the support and trust of customers from various industries around the world.



Enterprise Mission

■ To win high praise and trust from all interested parties and to make contributions to the society based on honesty.

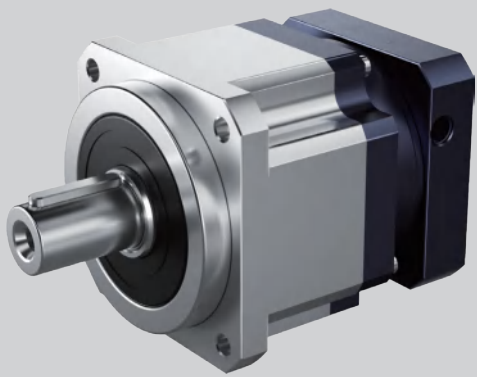
■ To provide first-class precision planetary gearbox and integrated supporting service.

■ To put customer value first, continuously delve into core technologies and contribute to the development of the industry.

■ To create corporate culture of respecting each other and making progress by learning from each other.

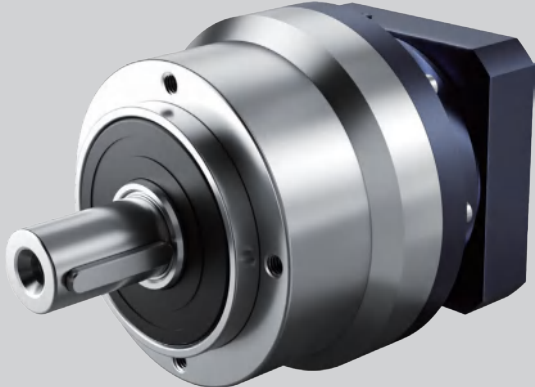
■ To focus on sustainable development and create equal job opportunities for employees.

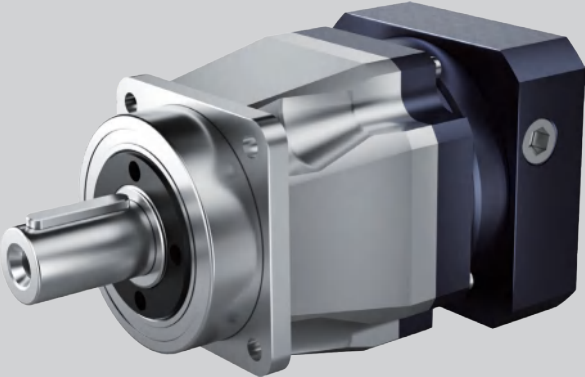


Model	042~180		NB	Page		
Ratio	1 Stage	3~10	NB Series	01		
	2 Stage	15~100	Cutaway	02		
Backlash	1 Stage	≦1, ≦3, ≦5arcmin	Parameters	03-04		
	2 Stage	≦3, ≦5, ≦7arcmin	NB042	05-06		
Rated Output Torque	13~1140		NB060	07-08		
			NB090	09		
			NB115	10		
			NB142	11		
			NB180	12		

Model	047~285		ND	Page		
Ratio	1 Stage	4~10	ND Series	25		
	2 Stage	16~100	Cutaway	26		
Backlash	1 Stage	≦1, ≦3, ≦5arcmin	Parameters	27-28		
	2 Stage	≦3, ≦5, ≦7arcmin	ND047	29		
Rated Output Torque	15~3600		ND064/NDS064	30		
			ND090/NDS090	31		
			NDS110	32		
			NDV110	33		
			NDV140	34		
			NDV200	35		
			NDV255	36		
			NDV285	37		

Model	042~180		NBR	Page
Ratio	1 Stage	3~20	NBR Series	13
	2 Stage	15~200	Cutaway	14
Backlash	1 Stage			

Model	050~235		NE	Page		
Ratio	1 Stage	3~10	NE Series	53		
	2 Stage	15~100	Cutaway	54		
Backlash	1 Stage	≦1, ≦3, ≦5arcmin	Parameters	55-56		
	2 Stage	≦3, ≦5, ≦7arcmin	NE050	57		
Rated Output Torque	13~1900		NE070	58		
			NE090	59-60		
			NE120	61		
			NE155	62		
			NE205	63		
			NE235	64		

Model	060~250		NF	Page		
Ratio	1 Stage	3~10	NF Series	79		
	2 Stage	15~100	Cutaway	80		
Backlash	1 Stage	≦1, ≦3, ≦5arcmin	Parameters	81-82		
	2 Stage	≦3, ≦5, ≦7arcmin	NFS060/NF060	83		
Rated Output Torque	25~3200		NF075	84		
			NFS075	85		
			NF100	86		
			NF140	87		
			NF180	88		
			NF220	89		
			NF250	90		

Model	050~235		NER	Page
Ratio	1 Stage	3~20	NER Series	65
	2 Stage	15~200	Cutaway	66
Backlash	1 Stage	≦2, ≦4, ≦6arcmin	Parameters	67-68
	2 Stage	≦4,		

NB series

We provide customers with high precision, high rigidity, high torque prdcision planetary gearbox.



NB series assembly (Cutaway)

1

High precision bearings

- Ensuring a higher radial and axial load capacity

2

High performance oil seal

- Increased efficiency due to lowered friction
- IP65 protection level ensures continuous operation up to 90°C

3

Helical gear

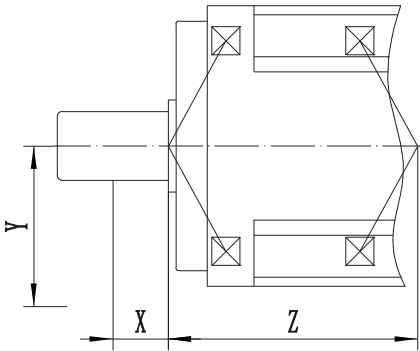
- Optimized power transmission
- Low noise
- Improved precision

4

Intergrated planetary design

- Increased torsional torque
- Optimized power transmission

Bearing Load Point Z (Output): NB Series



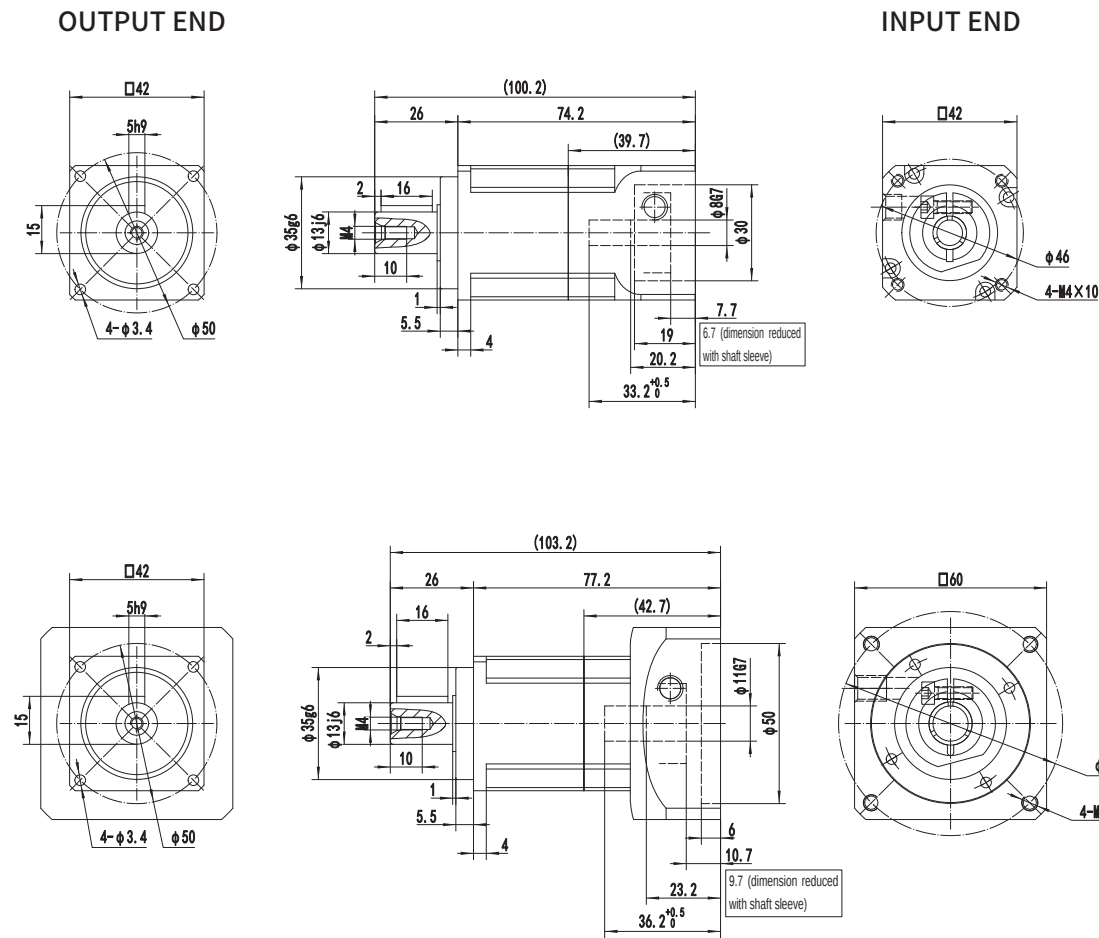
Series	NB042	NB060	NB090	NB115	NB142	NB180
Center Distance X (mm)	10	12.5	18	25.5	39.5	41
Load Point Z (mm)	25.5	30	43	55.5	63.5	76.5

Gearbox Performance Parameters: NB Series

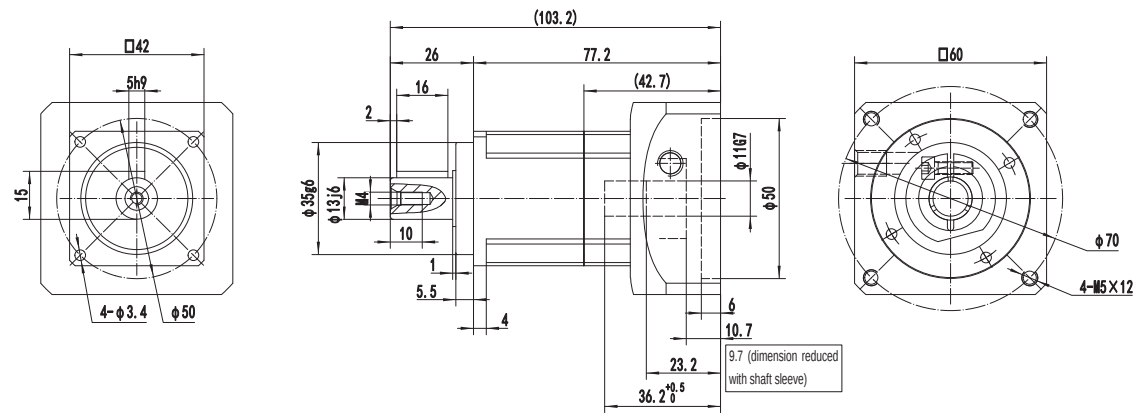
NB	Parameters		Stage	Ratio i	NB042	NB060	NB090	NB115	NB142	NB180
	T _{2N} Rated output torque		1	3	-	50	120	190	320	550
				4	18	45	130	270	510	990
				5	20	55	150	310	610	1140
				6	18	50	140	290	570	1040
				7	18	45	130	280	520	1040
				8	16	40	110	240	470	950
				9	13	35	95	210	420	850
				10	13	35	95	210	420	850
			2	15	-	50	120	190	320	550
				16	19	-	-	-	-	-
				20	18	45	130	270	510	990
				25	20	55	150	310	610	1140
				30	19	50	140	290	570	1040
				35	18	45	130	280	520	1040
				40	16	40	110	240	470	950
				45	13	35	95	210	420	850
				50	20					



NB042
STAGE 1

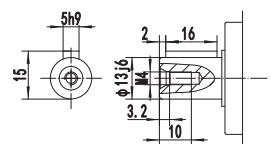


NB042
STAGE 1

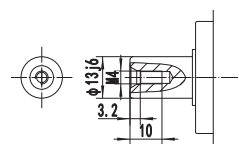


Output shaft options:

S2 keyed shaft output (mm)



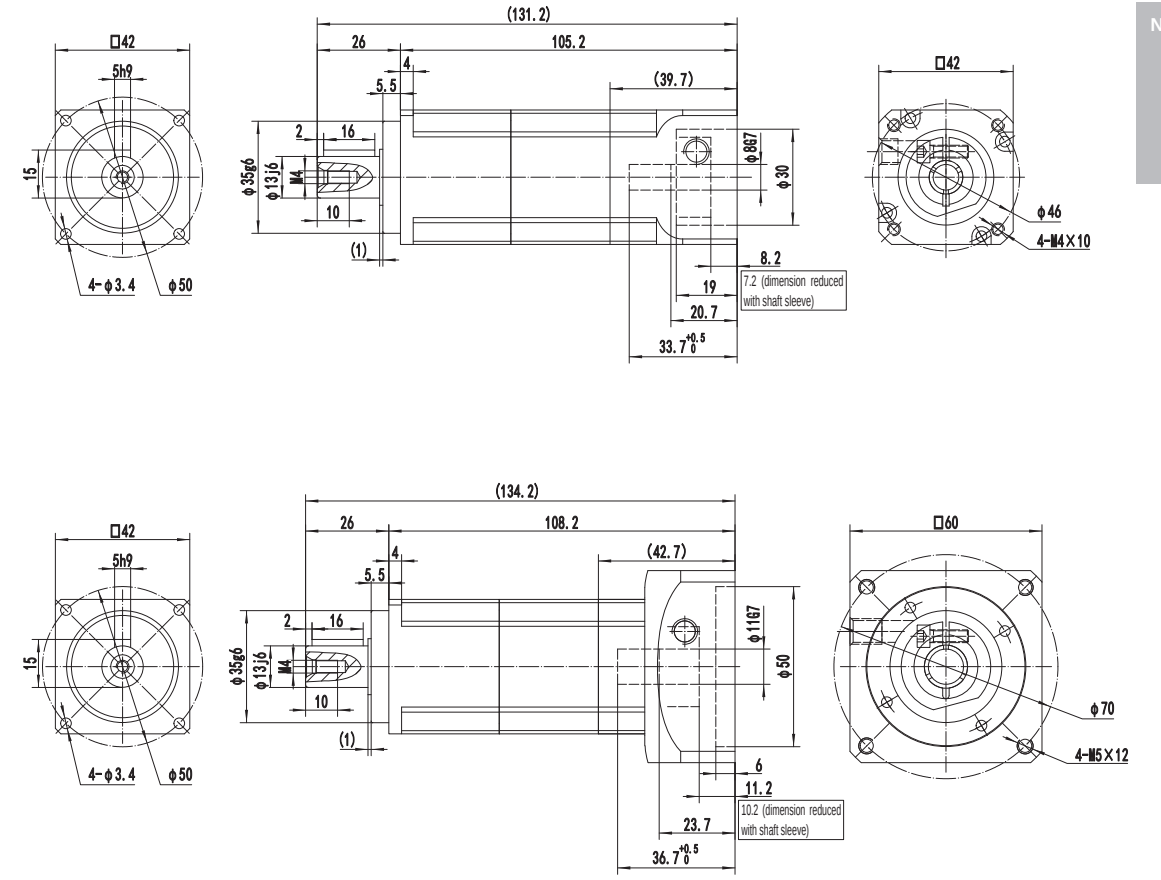
S1 smooth shaft output (mm)



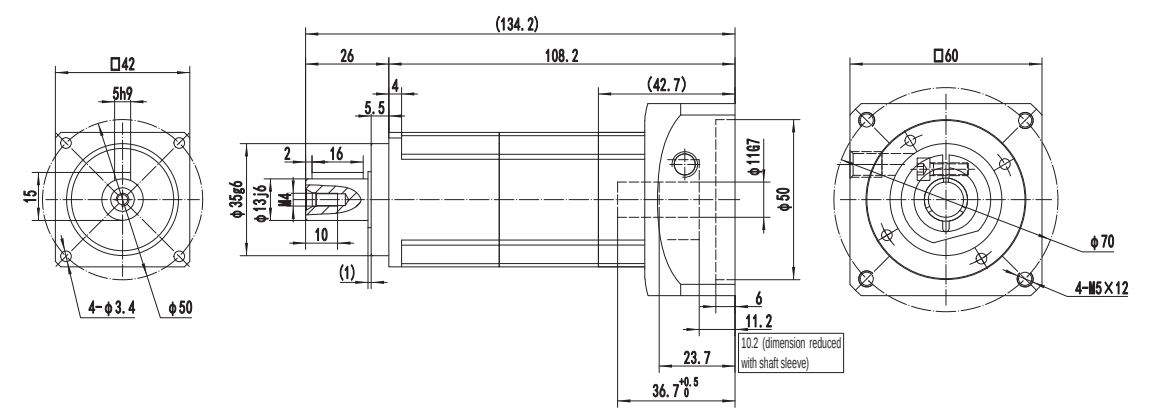
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

OUTPUT END

NB042A
STAGE 2

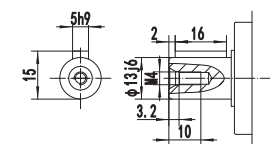


NB042A
STAGE 2

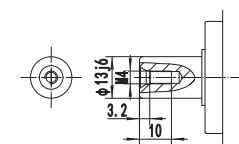


Output shaft options:

S2 keyed shaft output (mm)



S1 smooth shaft output (mm)

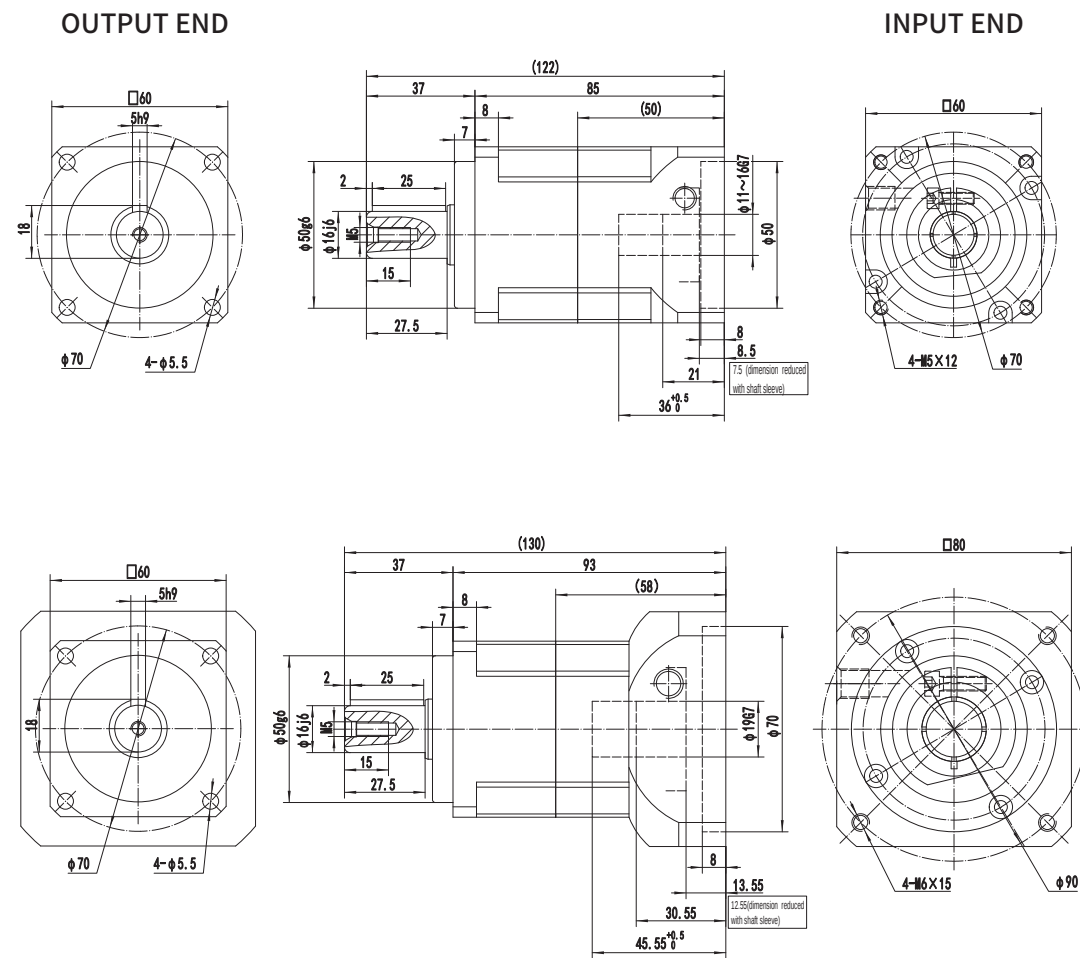


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.



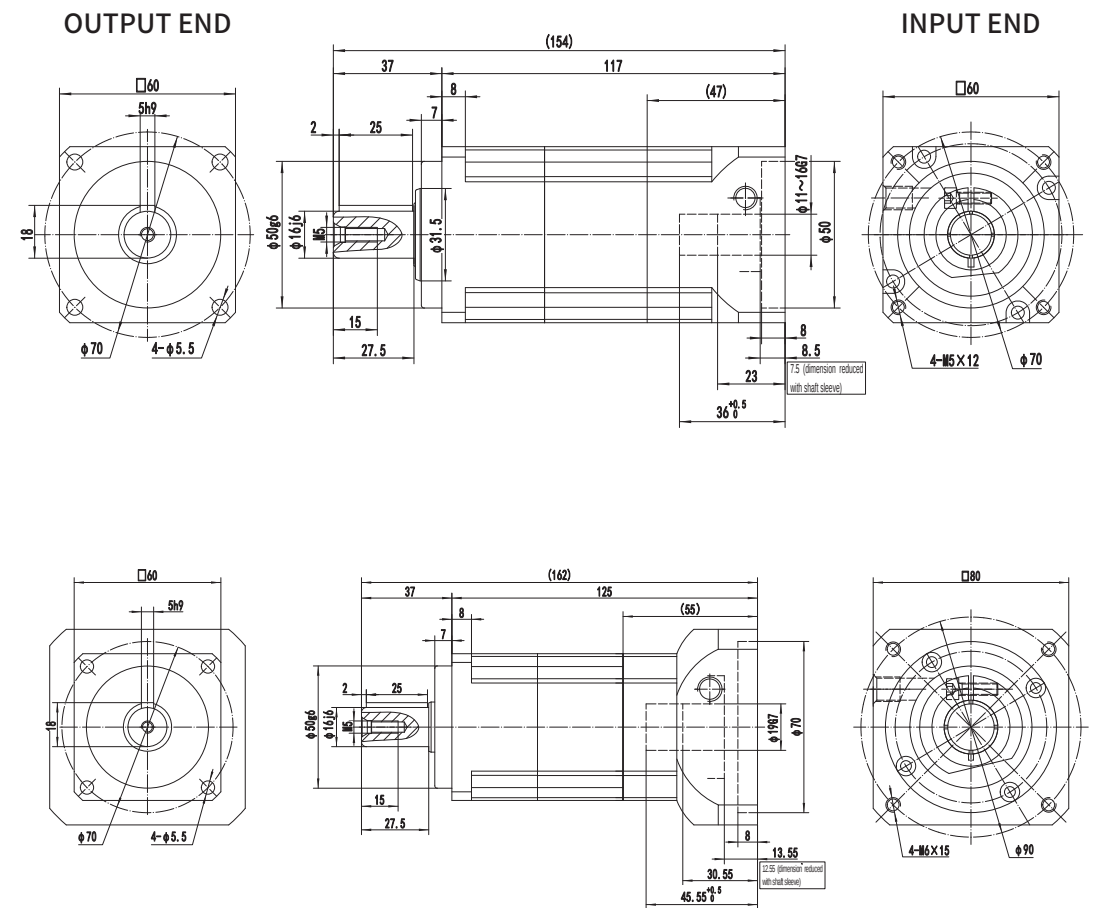


NB060
STAGE 1



NB060
STAGE 1

NB060A
STAGE 2

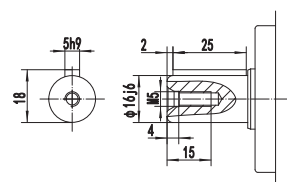


NB060A
STAGE 2

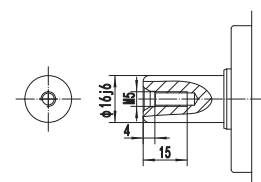


Output shaft options:

S2 keyed shaft output (mm)



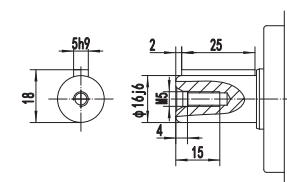
S1 smooth shaft output (mm)



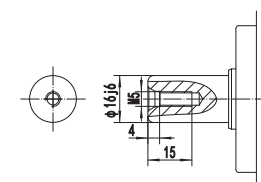
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

Output shaft options:

S2 keyed shaft output (mm)



S1 smooth shaft output (mm)

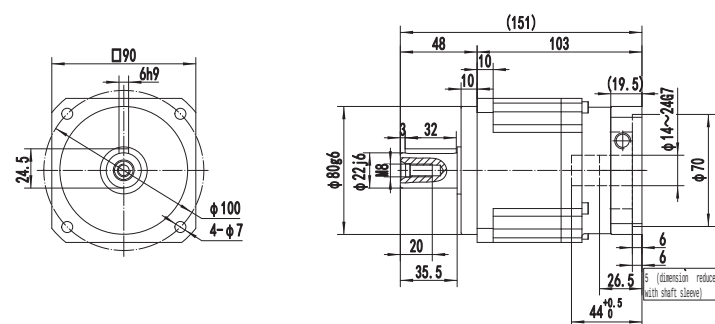


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

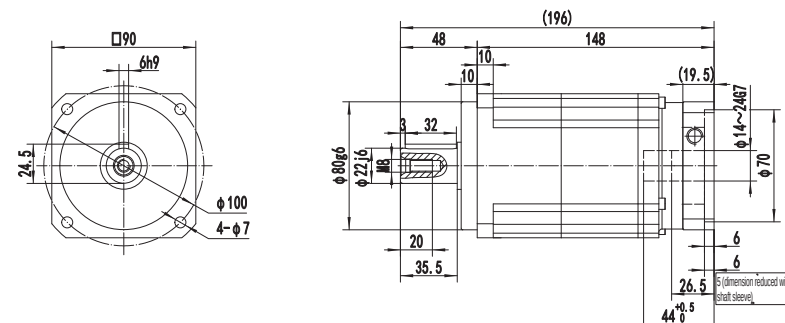
OUTPUT END

INPUT END

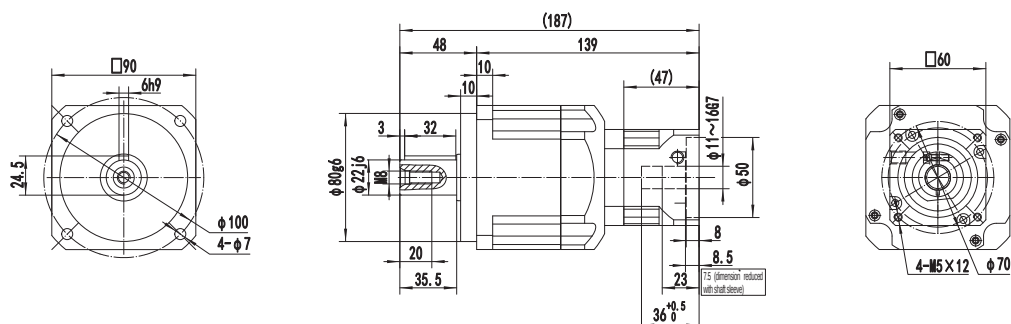
NB090
STAGE 1



NB090A
STAGE 2



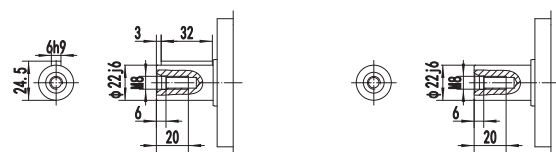
NB090T
STAGE 2



Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)



- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

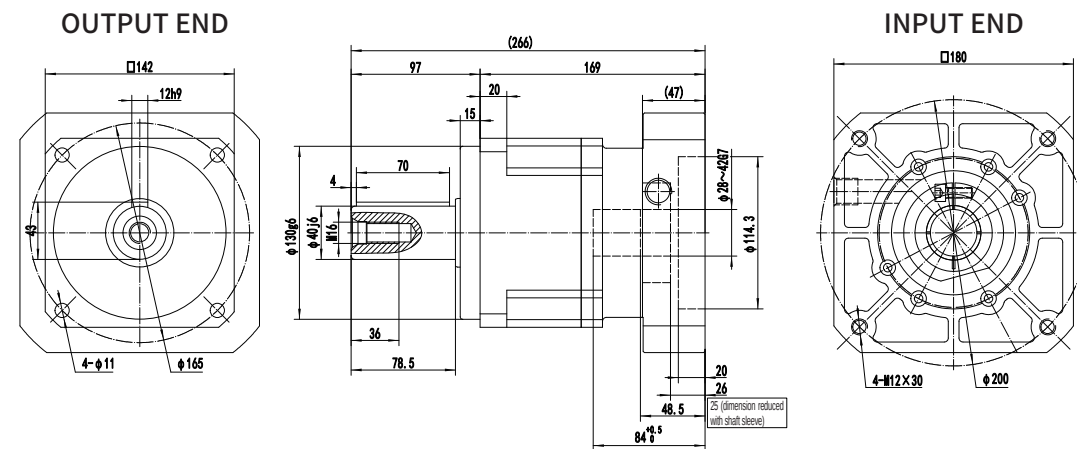
OUTPUT END

INPUT END

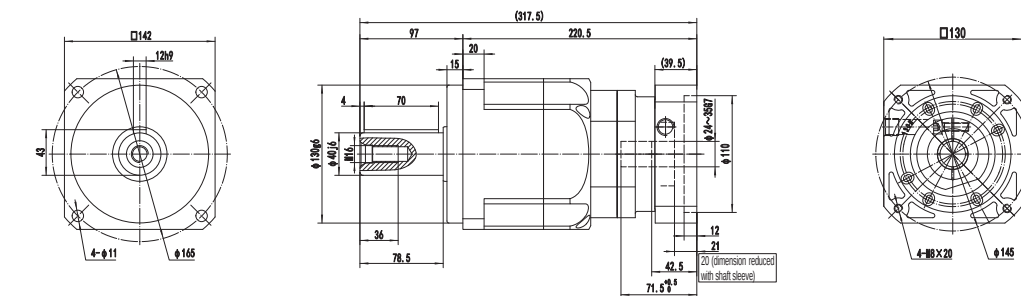
NB115
STAGE 1



NB142
STAGE 1

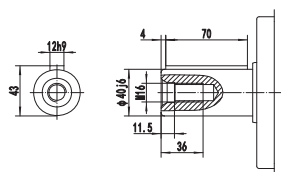


NB142T
STAGE 2

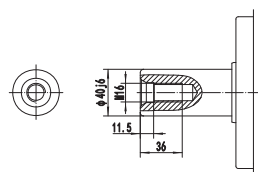


Output shaft options:

S2 keyed shaft output (mm)

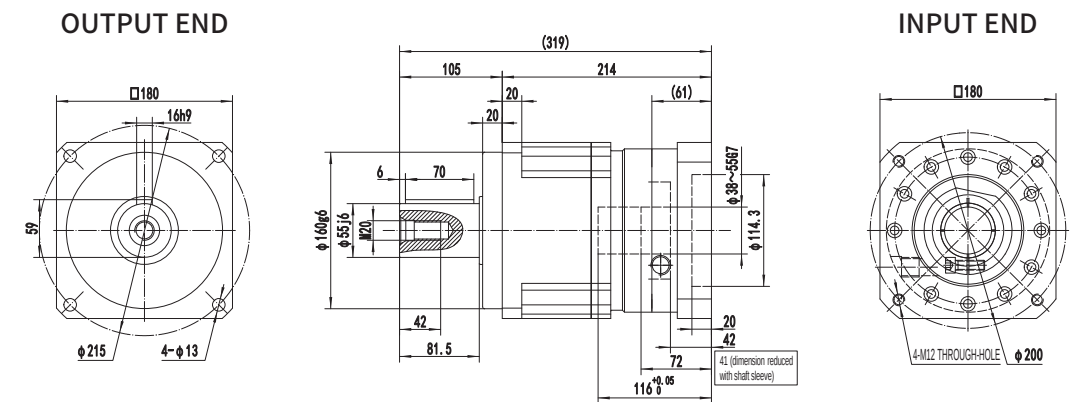


S1 smooth shaft output (mm)



- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

NB180
STAGE 1



NBR series

We provide customers with high precision, high rigidity, high torque prdcision planetary gearbox.



NBR series assembly (Cutaway)

1 High performance oil seal

- Increased efficiency due to lowered friction
- IP65 protection level ensures continuous operation up to 90°C

2 High precision bearings

- Ensuring a higher radial and axial load capacity

3 Intergrated planetary design

- Increased torsional torque
- Optimized power transmission

4 Monoblock housing design

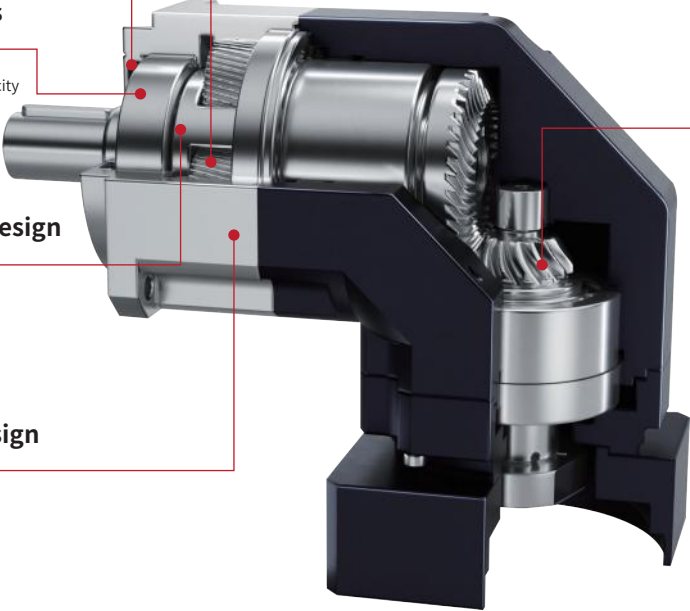
- Higher precision
- Ultimate tensile stiffness
- Higher torsional strenght

5 Helical gear

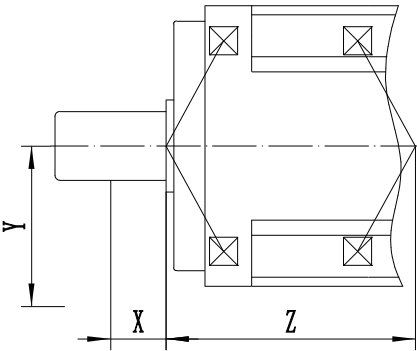
- Optimized power transmission
- Low noise
- Improved precision

6 Bevel gear

- Optimized power transmission
- Low noise
- Improved precision



Bearing Load Point Z (Output): NBR Series



Series	NBR042	NBR060	NRB090	NBR115	NBR142	NBR180
Center Distance X (mm)	10	12.5	18	25.5	39.5	41
Load Point Z (mm)	25.5	30	43	55.5	63.5	76.5

Gearbox Performance Parameters: NBR Series

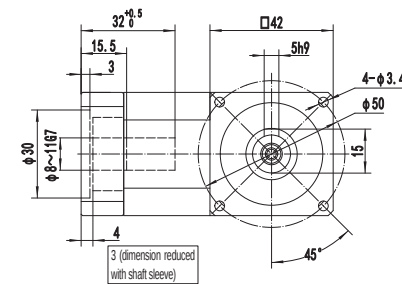
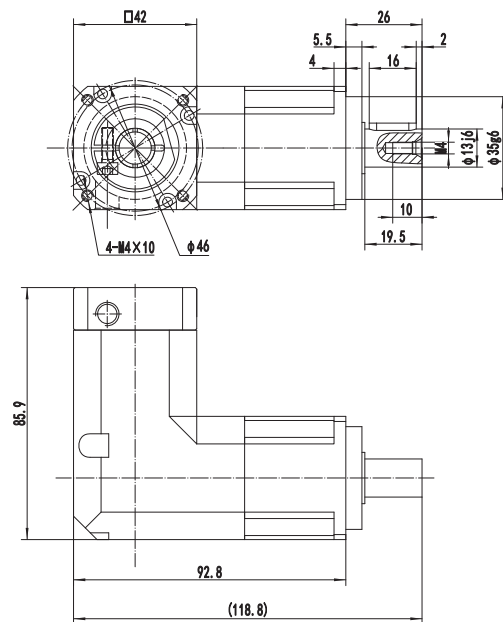


Parameters		Stage	Ratio i	NBR042	NBR060	NBR090	NBR115	NBR142	NBR180
T _{2N} Rated output torque	Nm	1	3	-	50	120	190	320	550
			4	18	45	130	270	510	990
			5	20	55	150	310	610	1140
			6	18	50	140	290	570	1040
			7	18	45	130	280	520	1040
			8	16	40	110	240	470	950
			9	13	35	95	210	420	850
			10	19	55	150	310	610	1140
			12	18	50	140	290	570	1040
			14	18	45	130	280	520	1040
			16	16	40	110	240	470	950
			20	13	35	95	210	420	850
		2	15	-	50	120	190	320	550
			25	20	55	150	310	610	1140
			30	19	50	120	190	320	550
			35	18	45	130	280	520	1040
			40	16	45	130	270	510	990
			45	13	35	95	210	420	850
			50</						

OUTPUT END

INPUT END

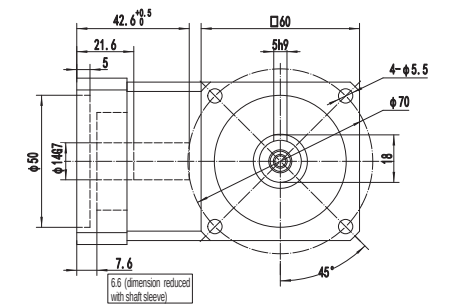
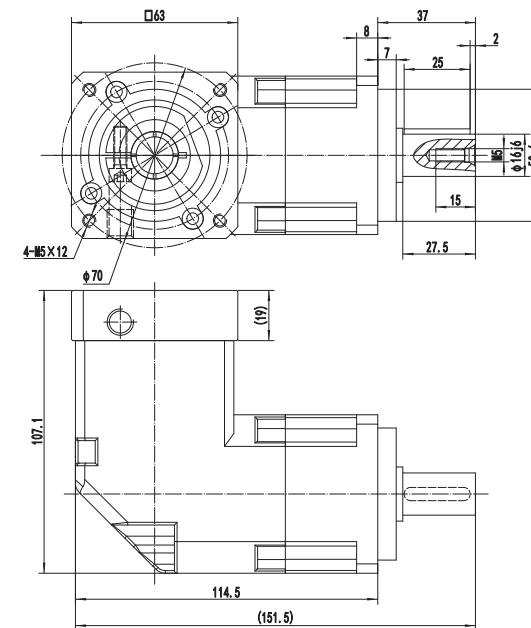
NBR042
STAGE 1



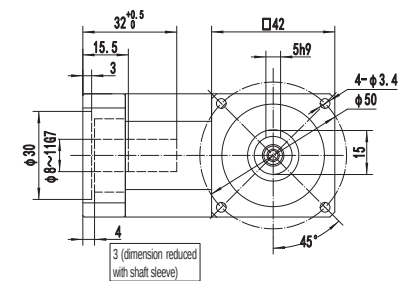
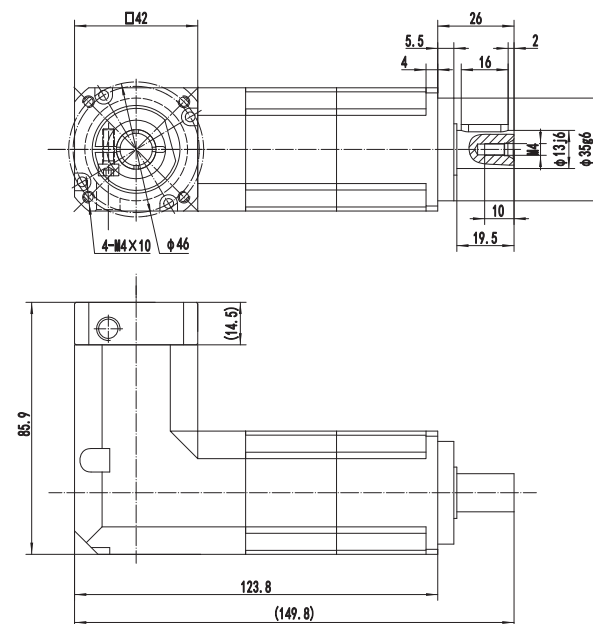
OUTPUT END

INPUT END

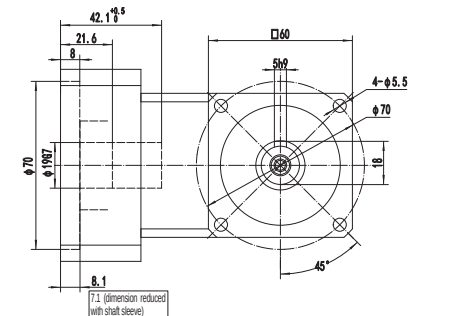
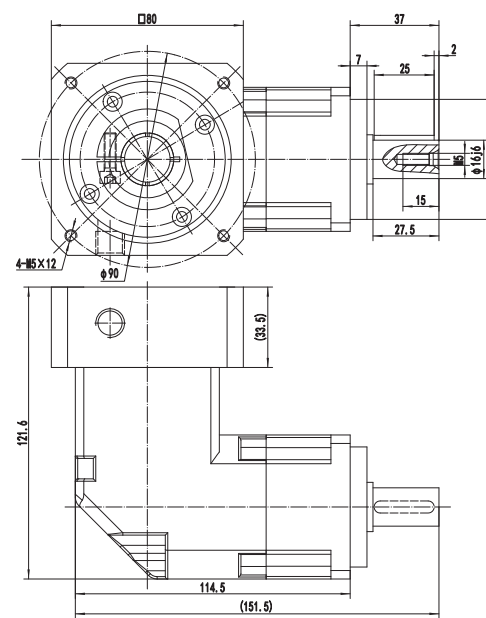
NBR060
STAGE 1



NBR042A
STAGE 2



NBR060
STAGE 1



Output shaft options:

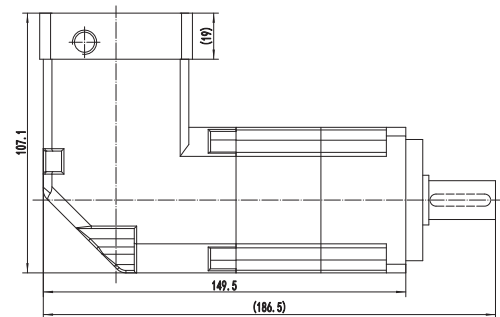
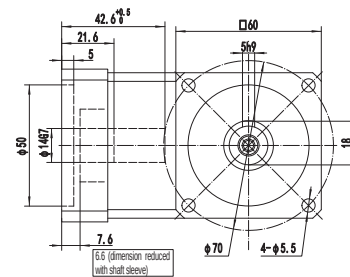
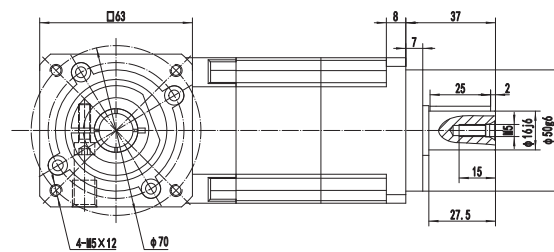
S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

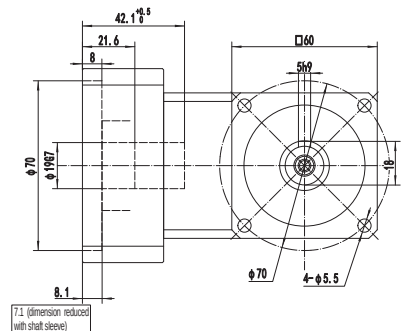
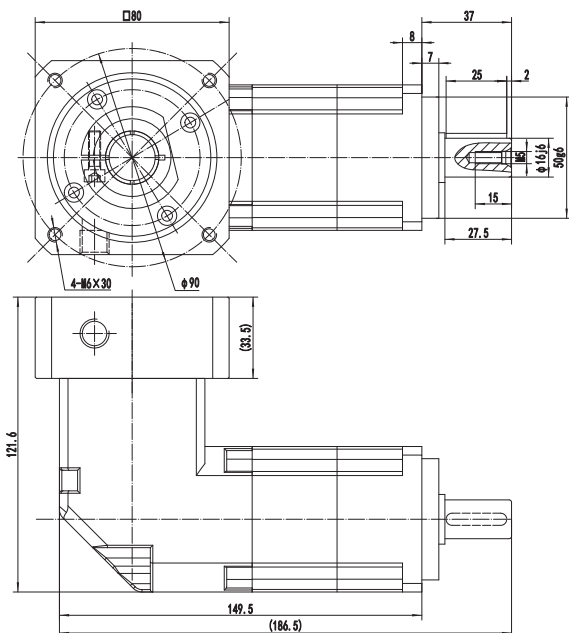
OUTPUT END

INPUT END

NBR0060A
STAGE 2



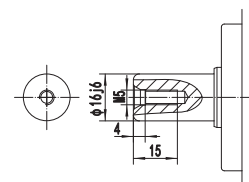
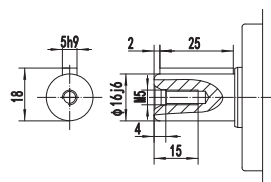
NBR0060A
STAGE 2



Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)



- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

OUTPUT END

INPUT END

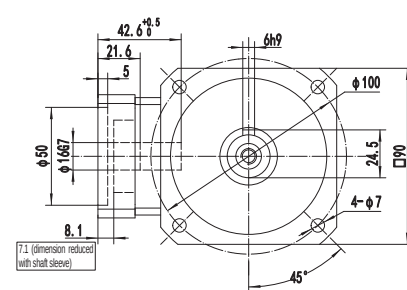
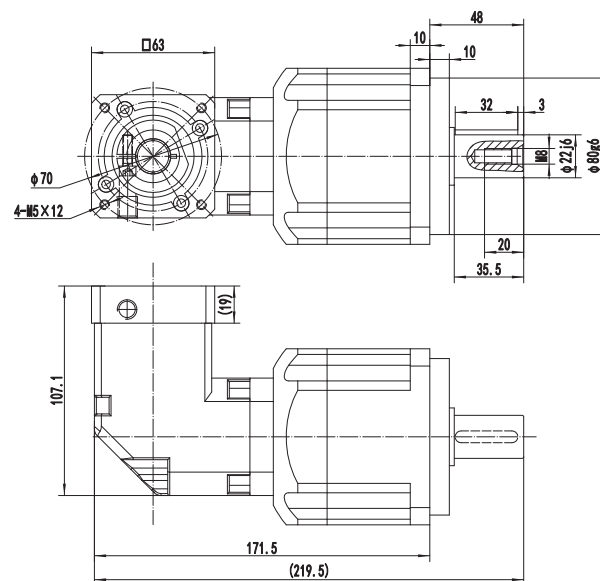
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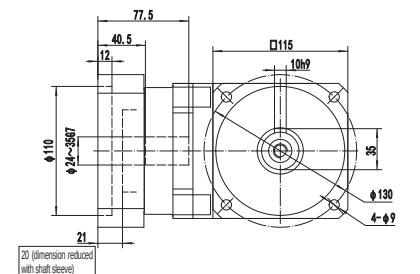
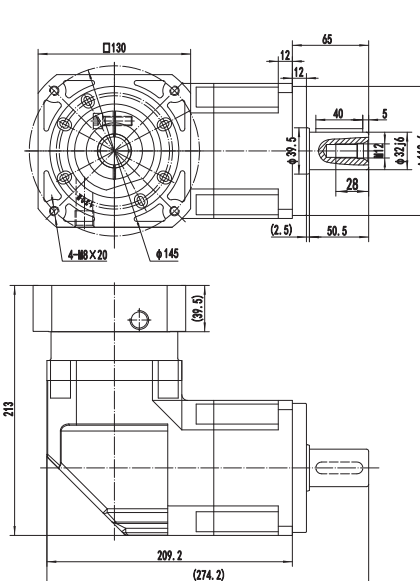
OUTPUT END

INPUT END

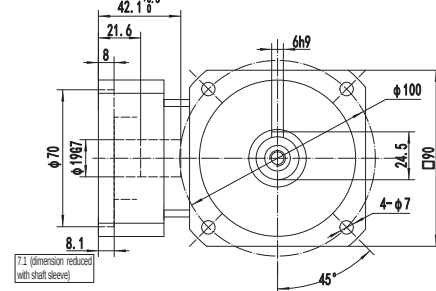
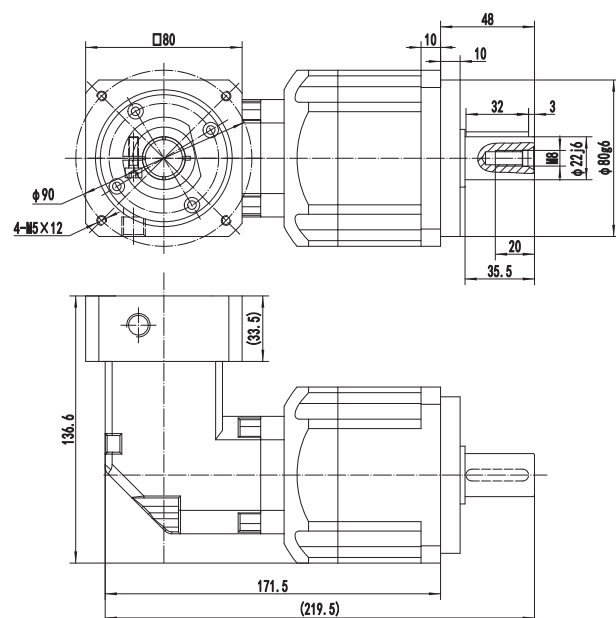
NBR090T
STAGE 2



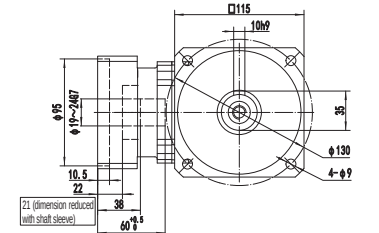
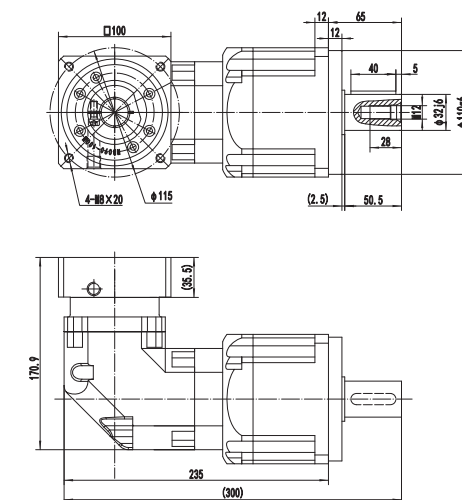
NBR115
STAGE 1



NBR090T
STAGE 2



NBR115T
STAGE 1



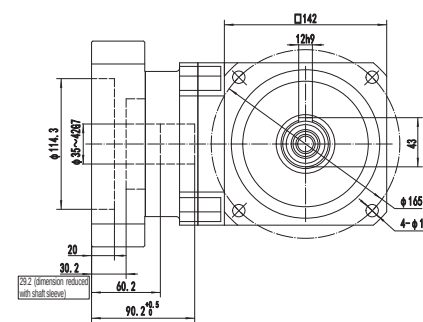
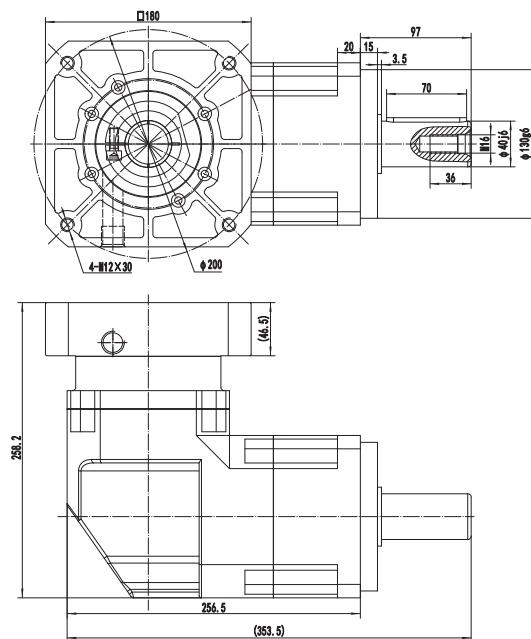
OUTPUT END

INPUT END

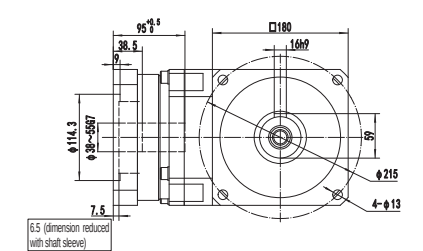
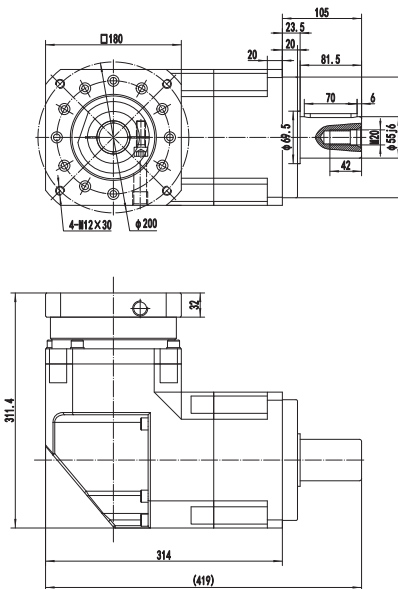
OUTPUT END

INPUT END

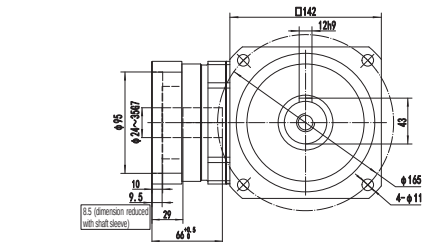
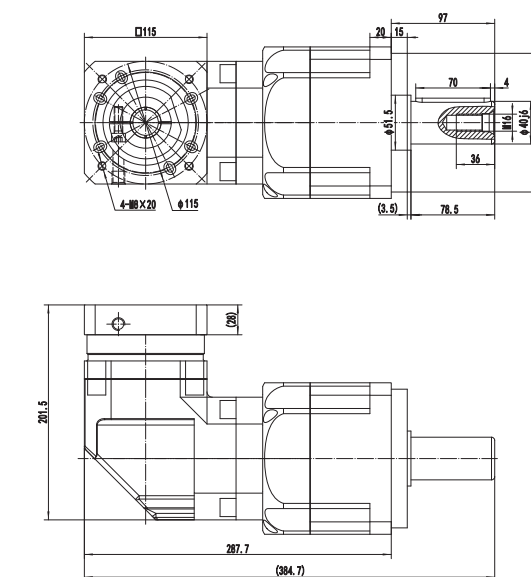
NBR142
STAGE 1



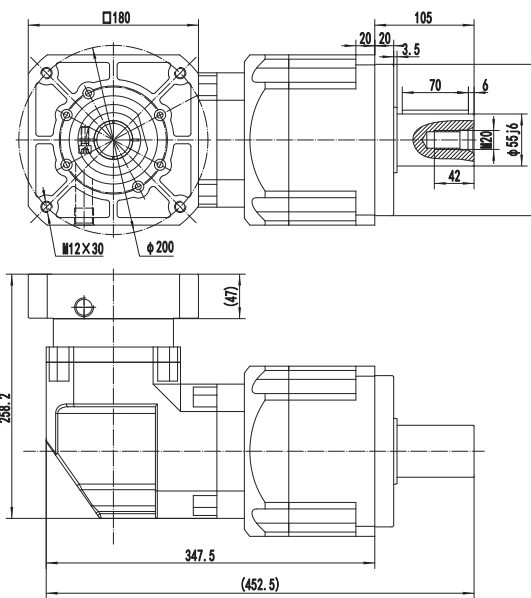
NBR180
STAGE 1



NBR142T
STAGE 2



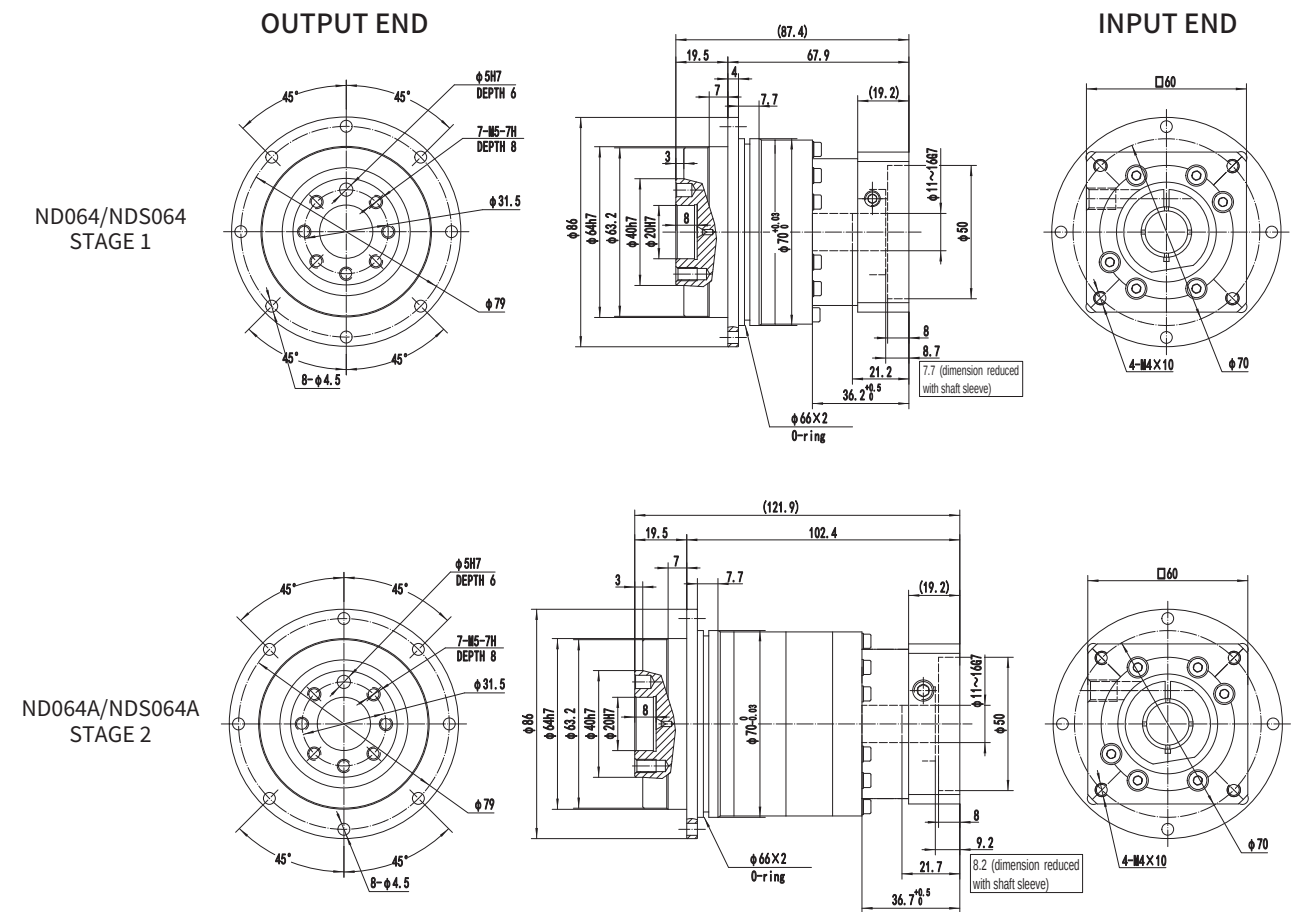
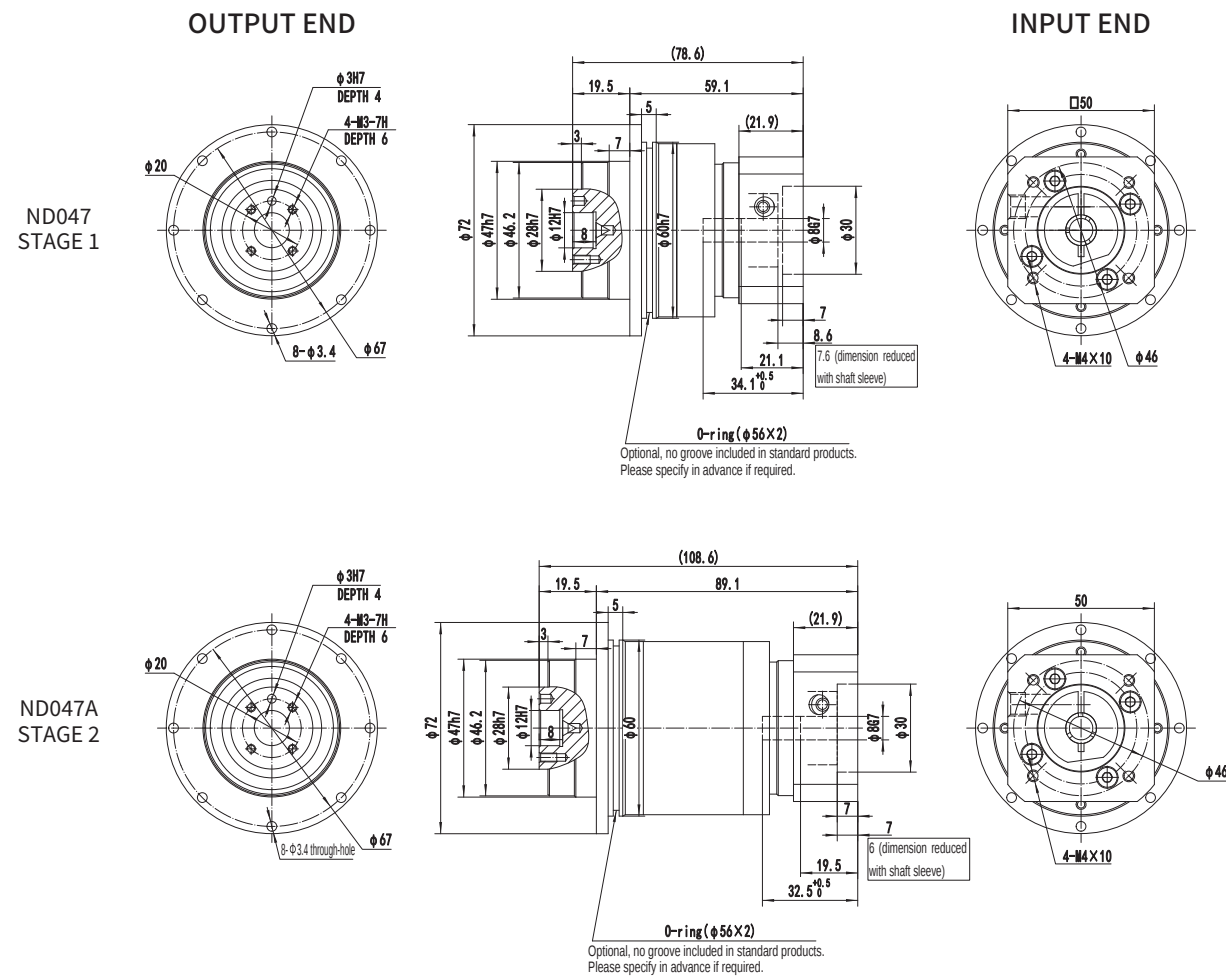
NBR180T
STAGE 2



Gearbox Performance Parameters: ND Series



Parameters	Stage	Ratio i	ND047	NDS064	ND064	NDS090	ND090	NDS110	NDV110	NDV140	NDV200	NDV255	NDV285
T _{2B} Rated output torque	1	4	22	42	45	100	130	150	280	560	1100	2200	3600
		5	25	45	55	120	160	160	340	610	1300	2200	3300
		7	20	42	48	105	130	160	300	560	1200	2000	2900
		8	-	-	-	95	100	150	250	550	1100	1700	2850
		10	15	38	40	95	100	150	220	460	950	1400	1900
	2	16	22	42	45	100	130	150	280	560	1100	2200	3600
		20	22	45	45	120	130	160	280	560	1100	2000	3600
		25	25	45	60	120	160	160	350	610	1300	2200	3300
		30	-	-	-	-	-	-	-	-	-	-	3100
		35	20	42	50	105	140	160	310	560	1200	2000	3000
		40	18	40	50	105	120	150	280	560	1200	1800	-
		50	18	40	55	120	160	150	340	610	1300	2000	3300
		60	-	-	48	100	120	-	300	560	1200	1800	2900



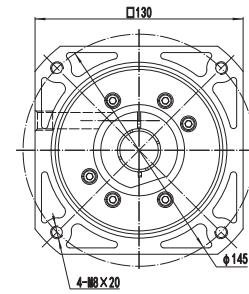
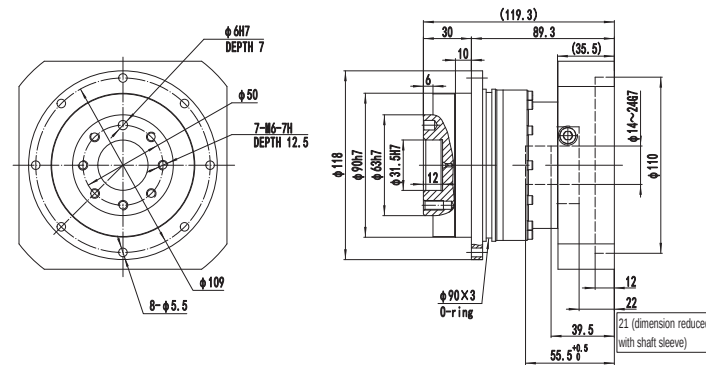
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2

OUTPUT END

INPUT END

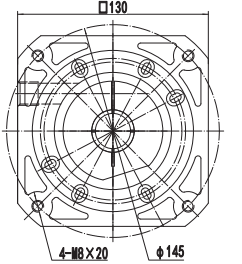
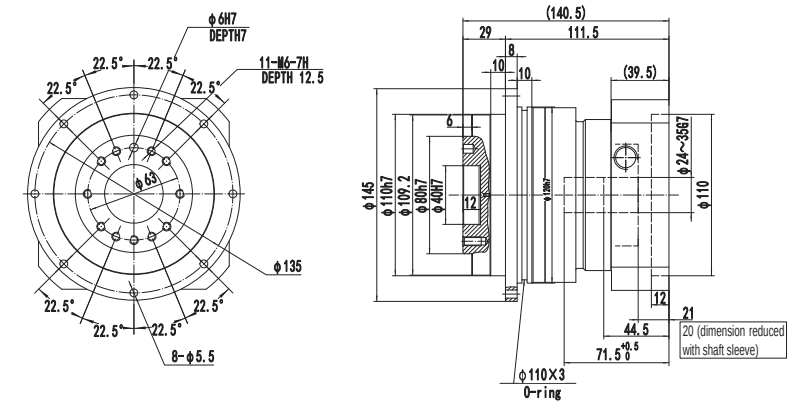
ND090/NDS090
STAGE 1



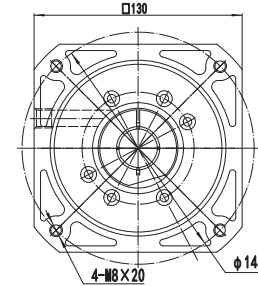
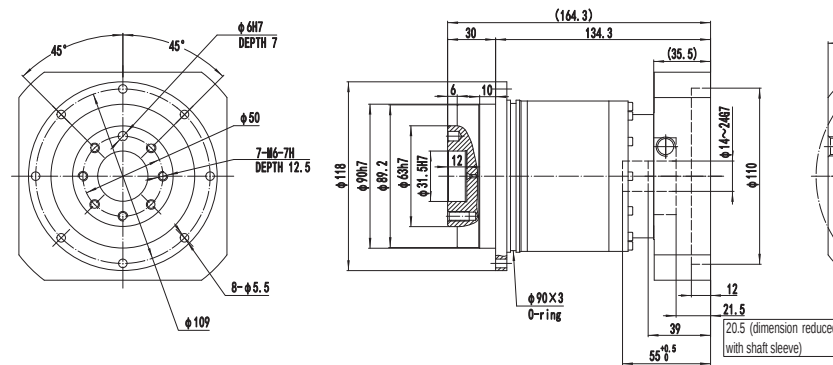
NDS110
STAGE 1

OUTPUT END

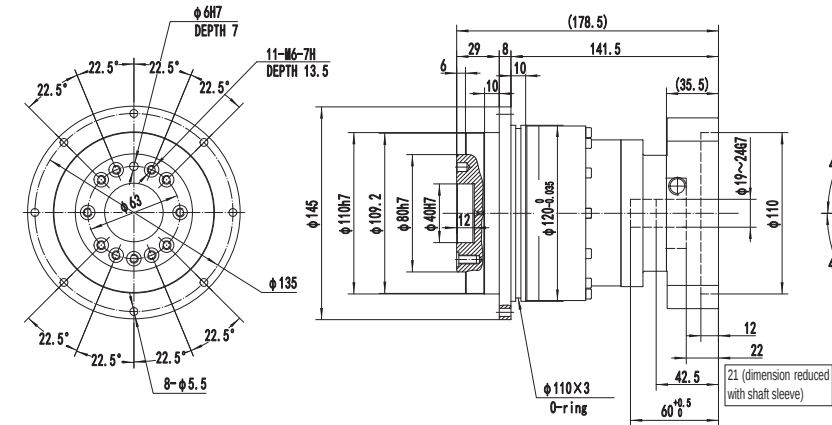
INPUT END

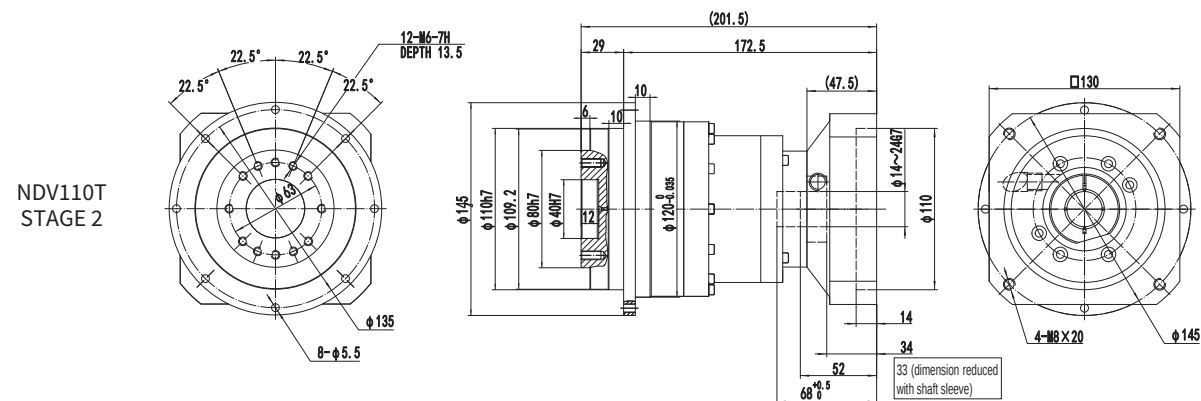
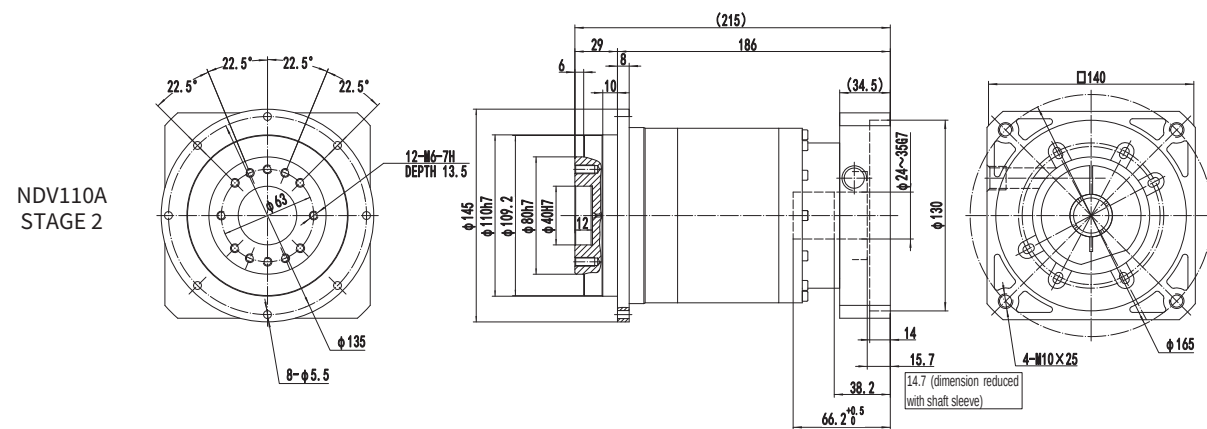
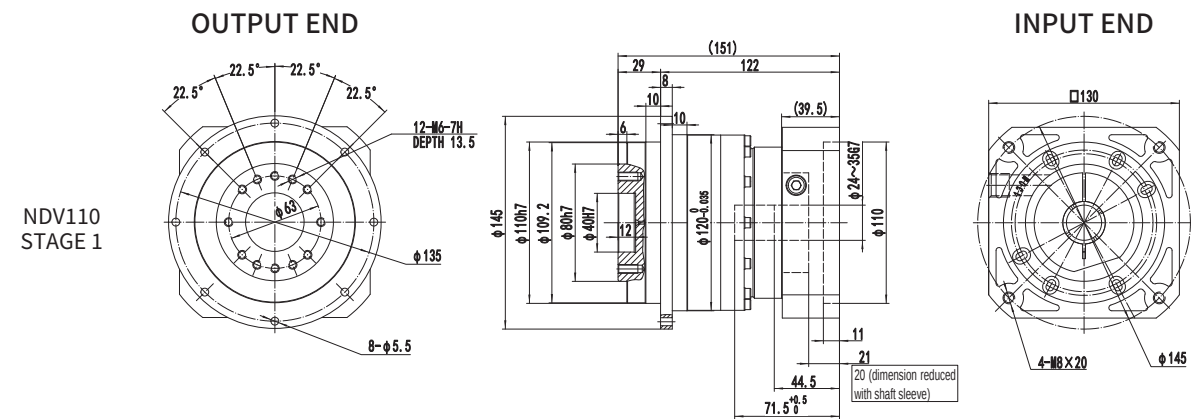


ND090A/NDS090A
STAGE 2

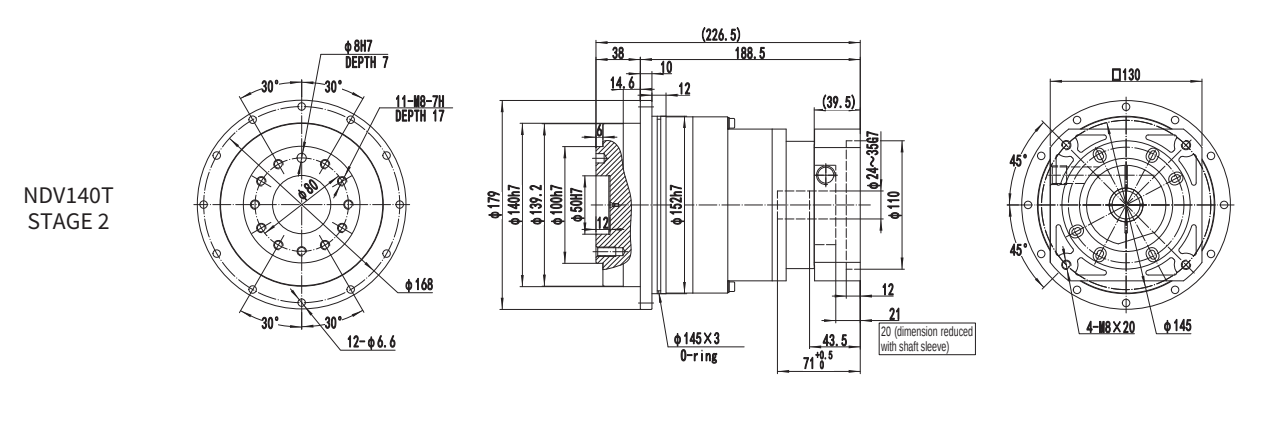
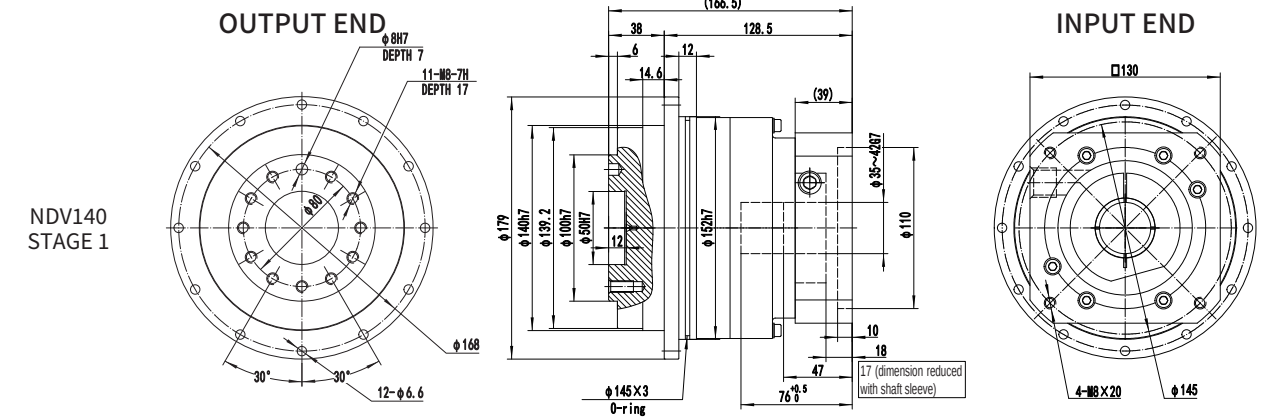


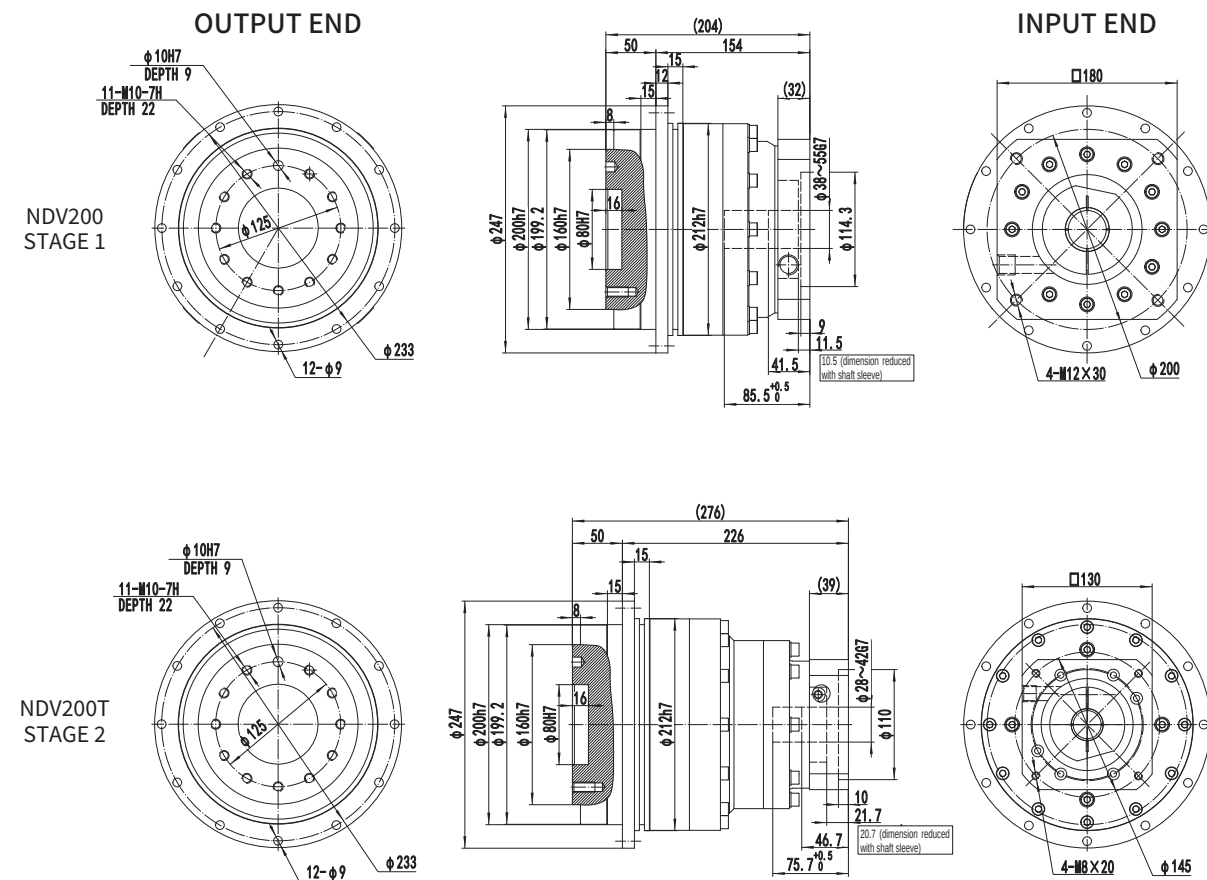
NDS110T
STAGE 2



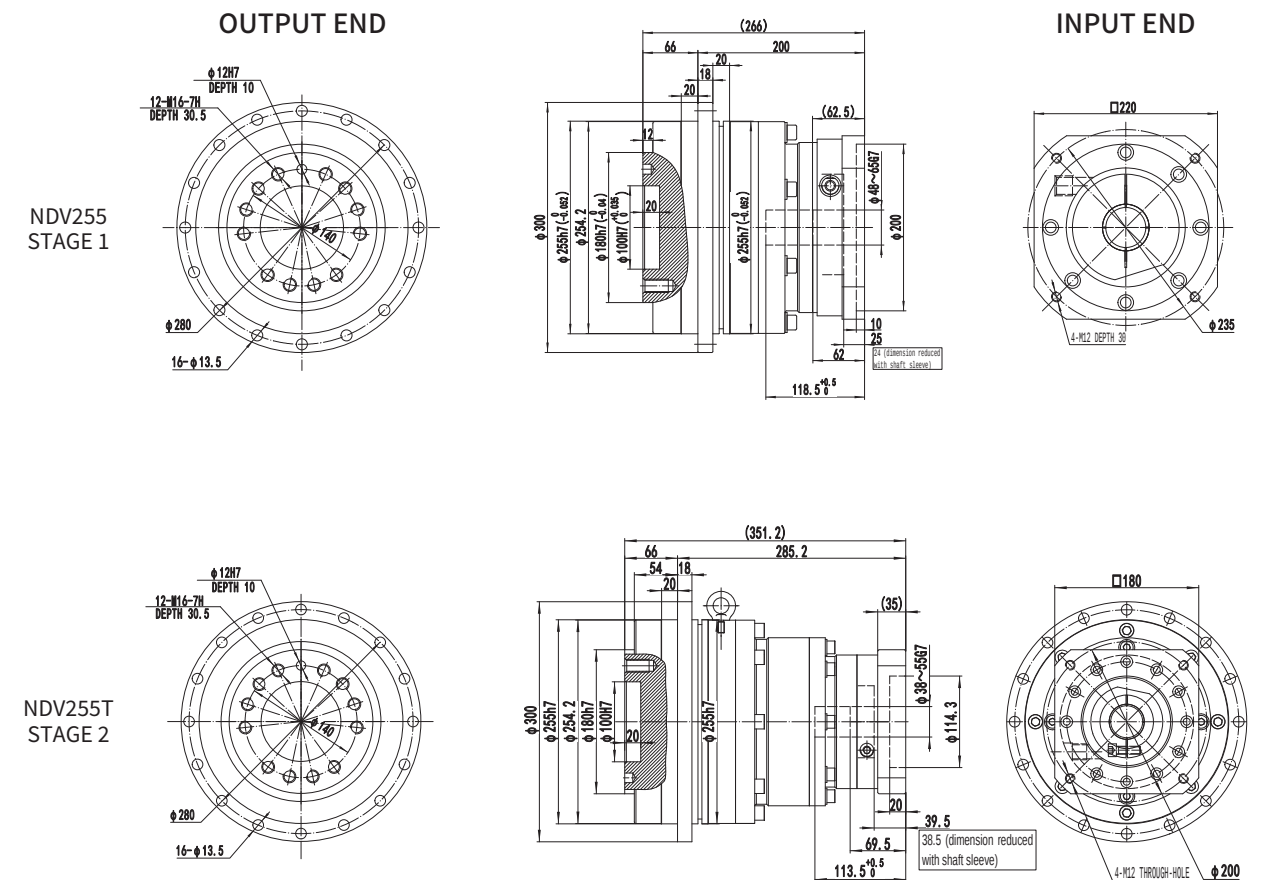


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

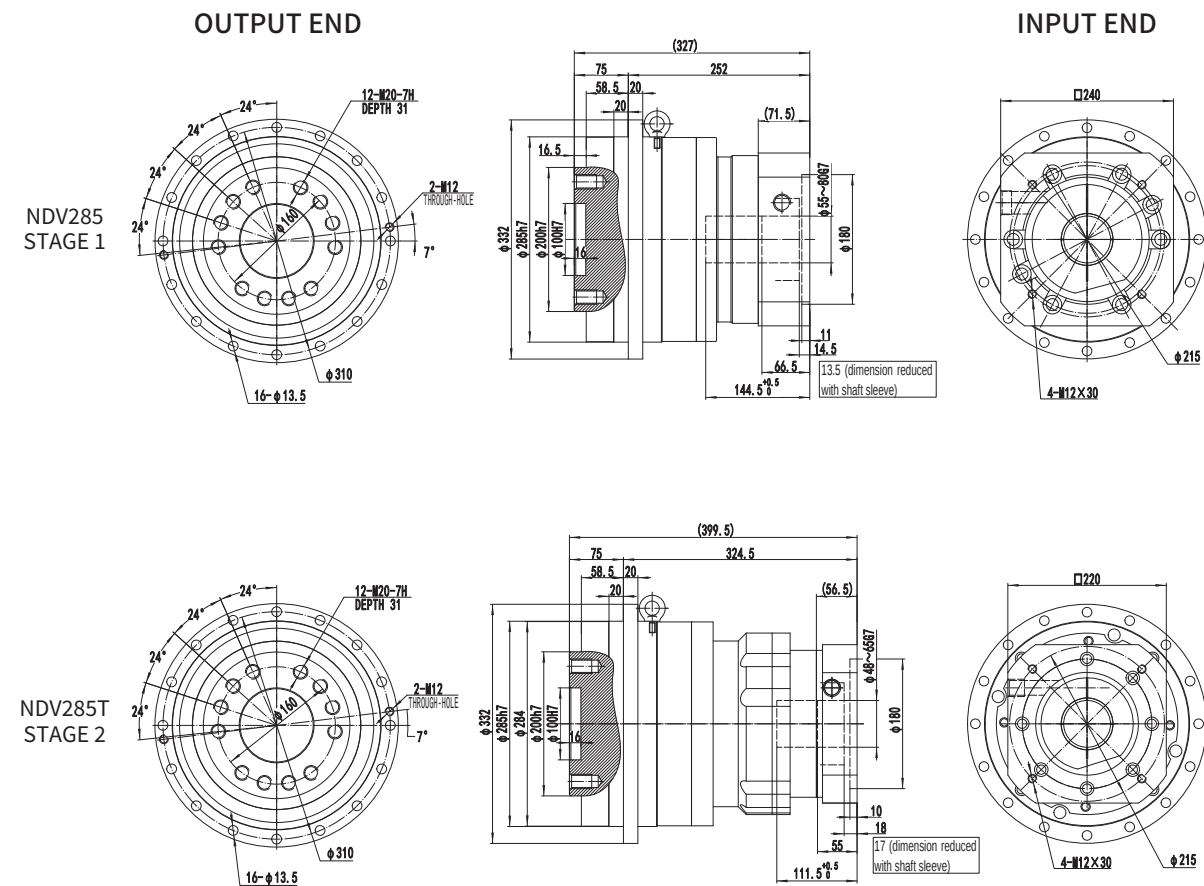




- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.



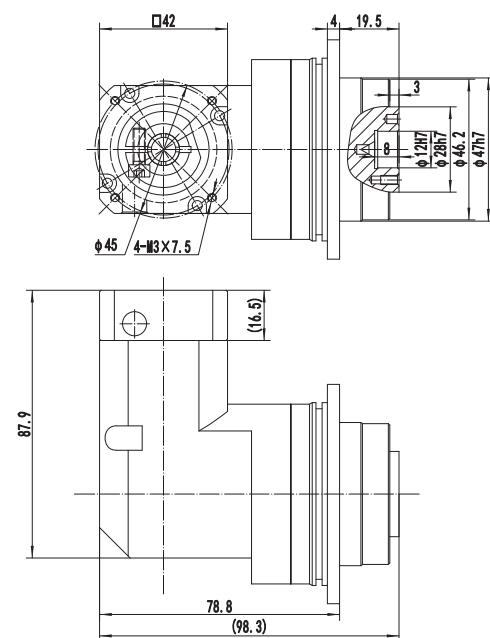
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.



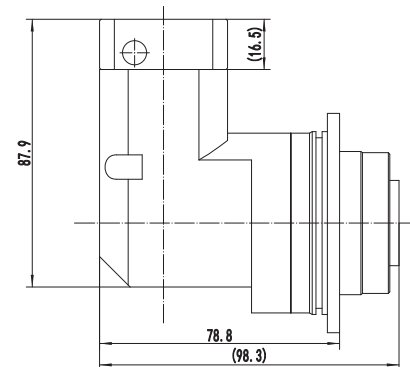
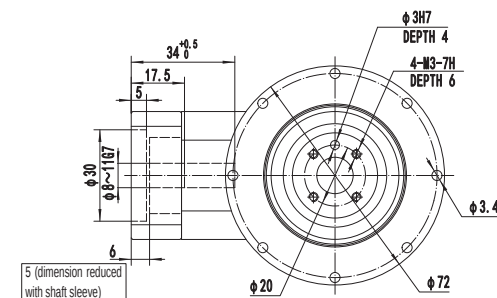
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

OUTPUT END

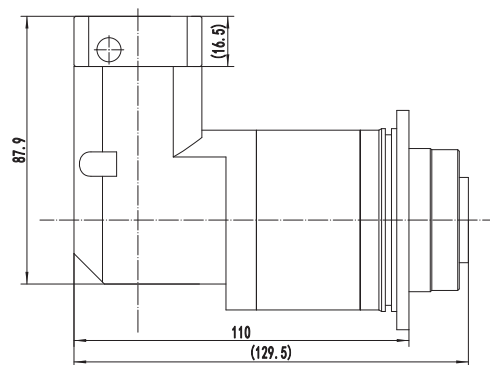
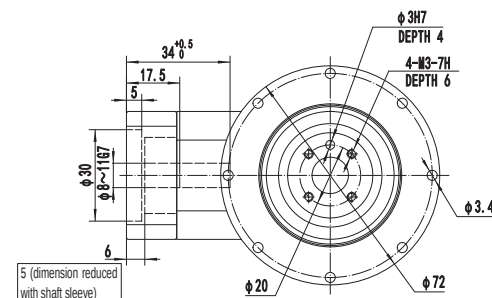
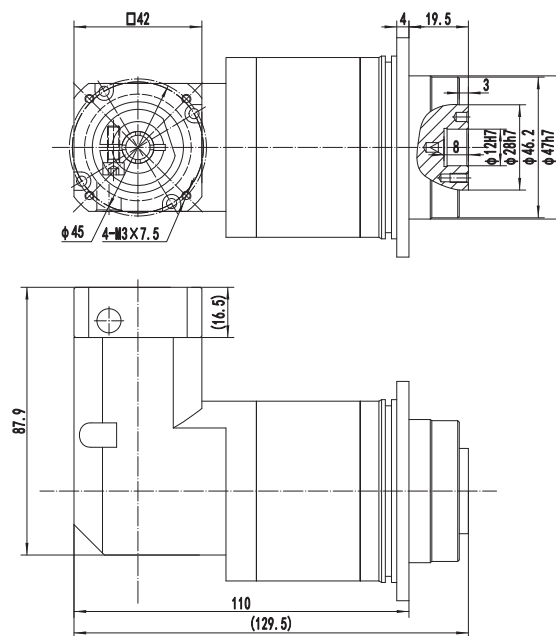
NDR047
STAGE 1



INPUT END



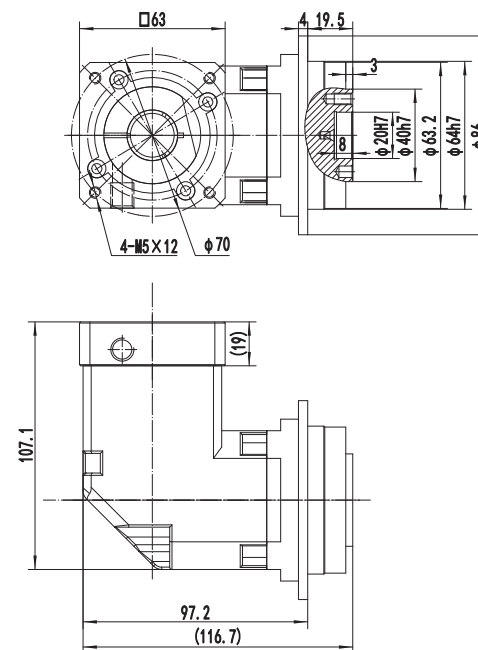
NDR047A
STAGE 2



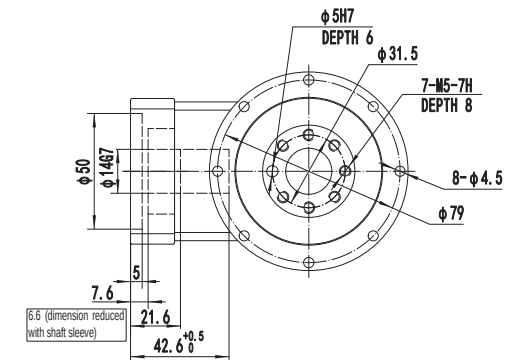
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

OUTPUT END

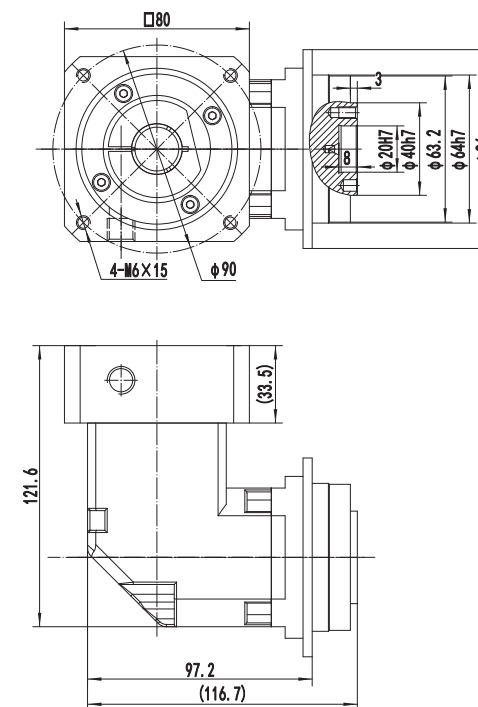
NDR064
STAGE 1



INPUT END

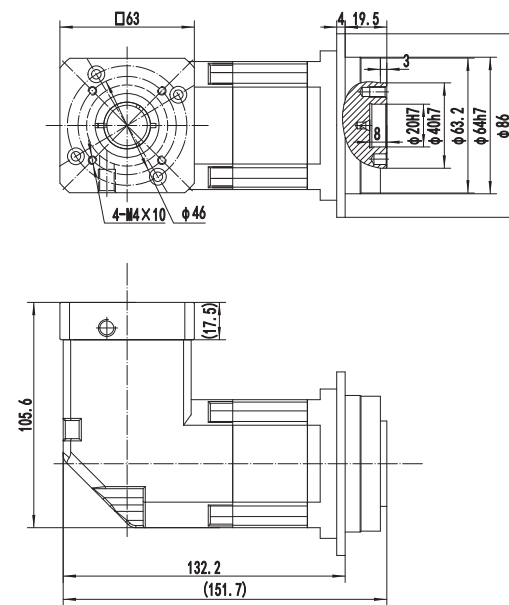


NDR064
STAGE 1

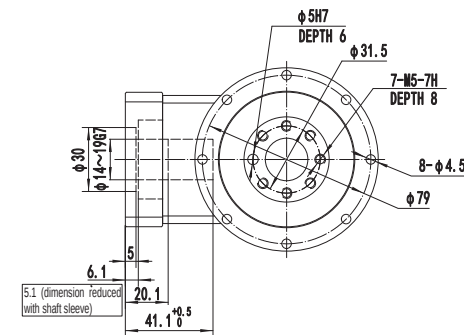


OUTPUT END

NDR064A
STAGE 2

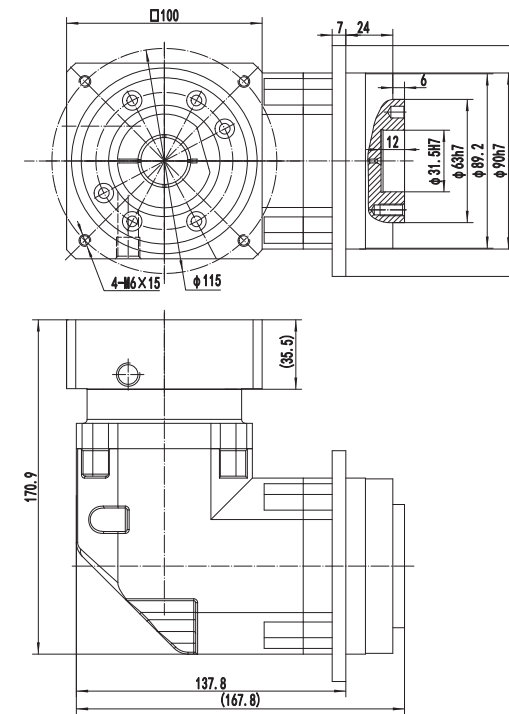


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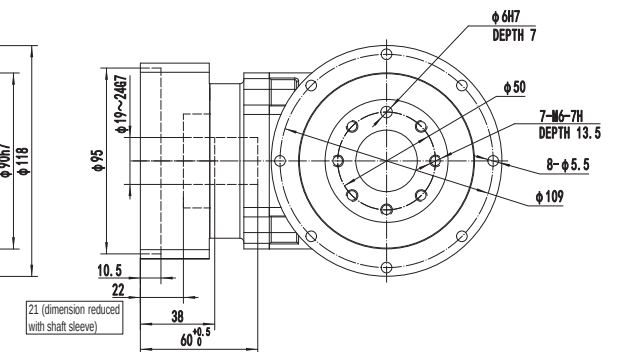


OUTPUT END

NDR090
STAGE 1



INPUT END



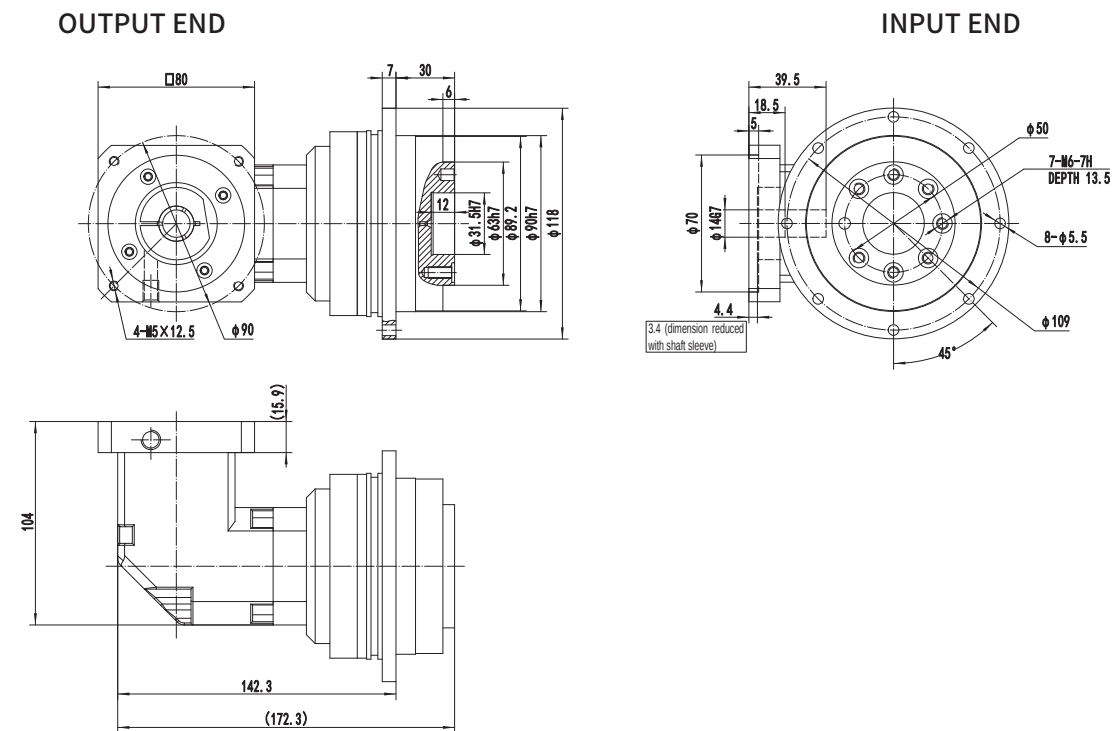
NDR

NDR

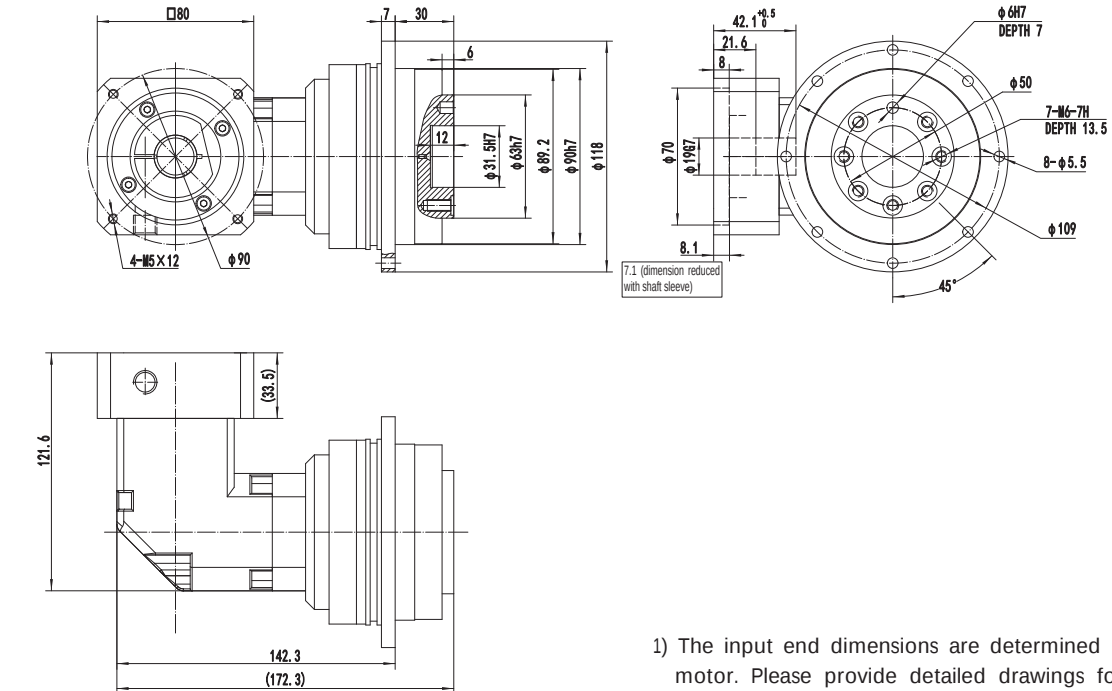
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

NDR090T
STAGE 2

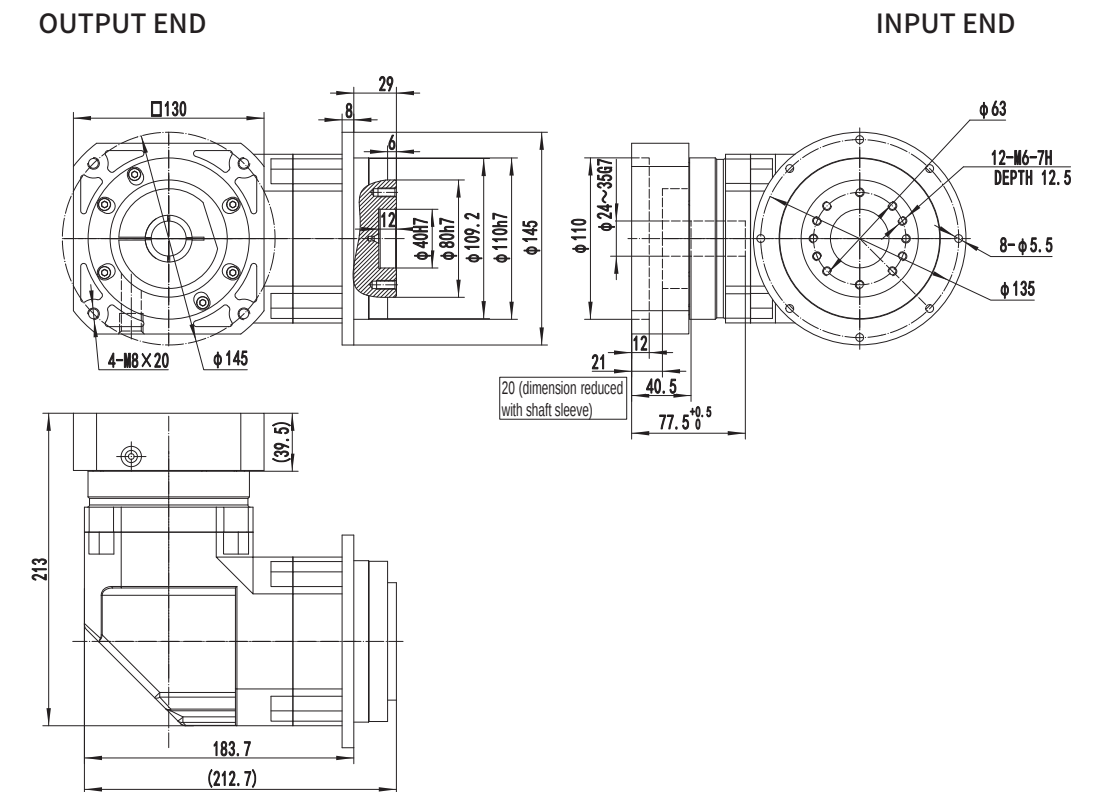


NDR090T
STAGE 2

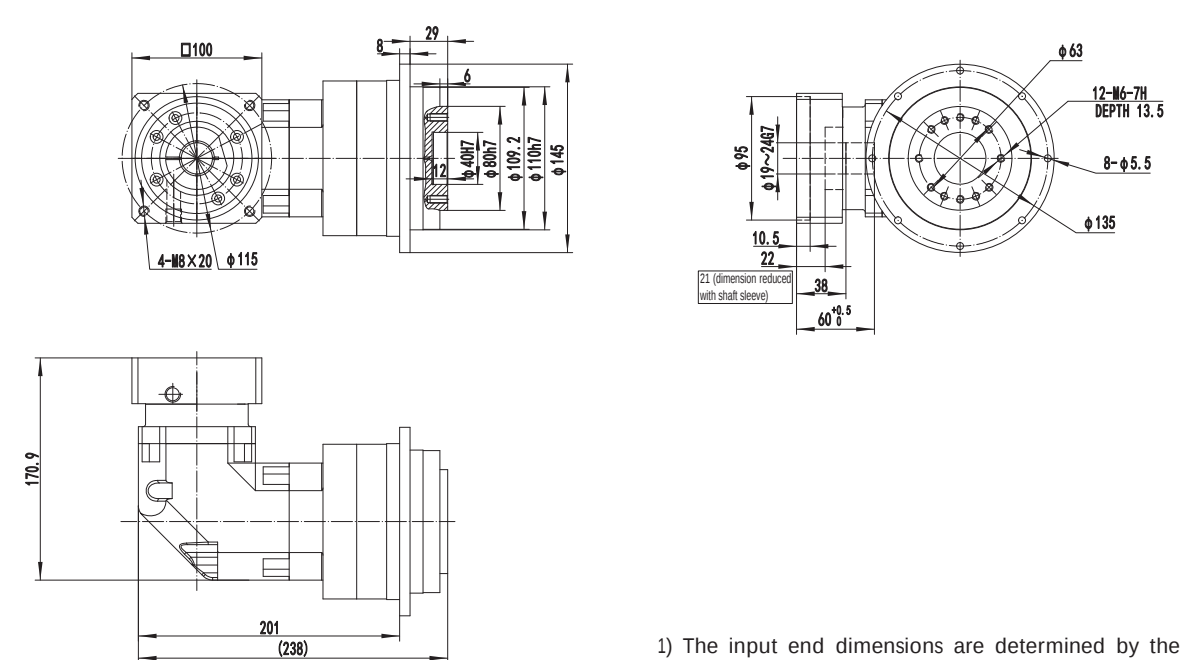


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

NDVR110
STAGE 1



NDVR110T
STAGE 2



- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

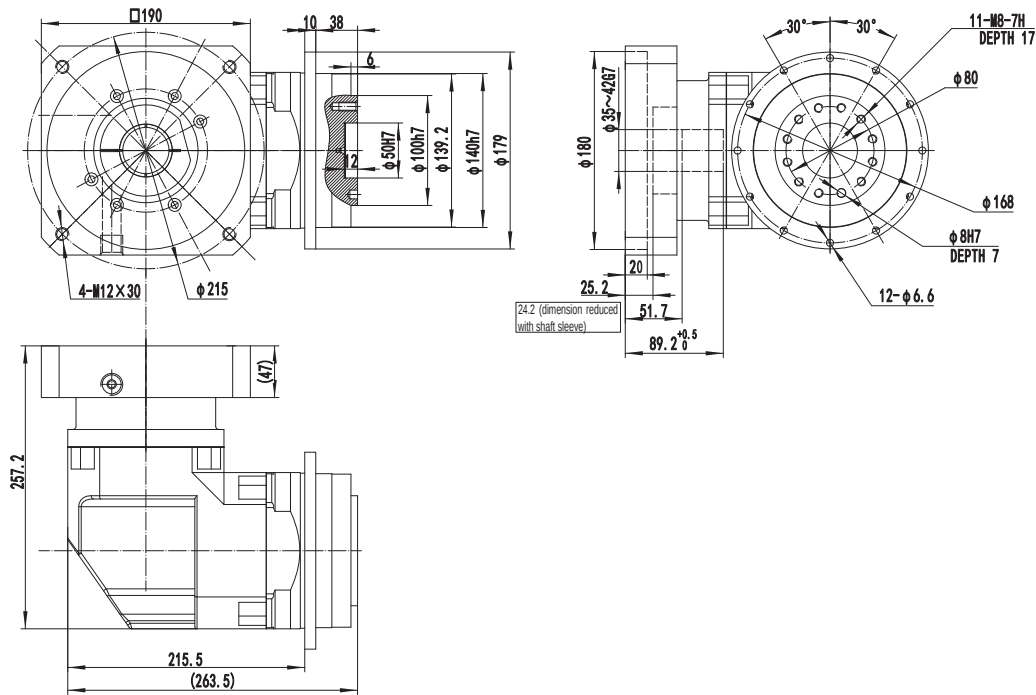
OUTPUT END

INPUT END

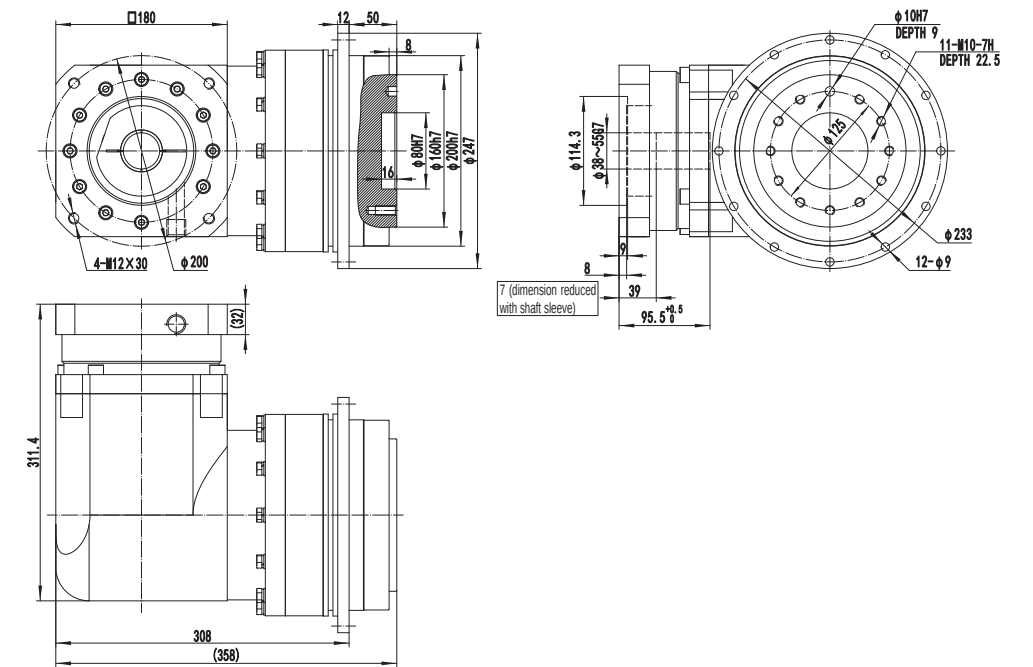
OUTPUT END

INPUT END

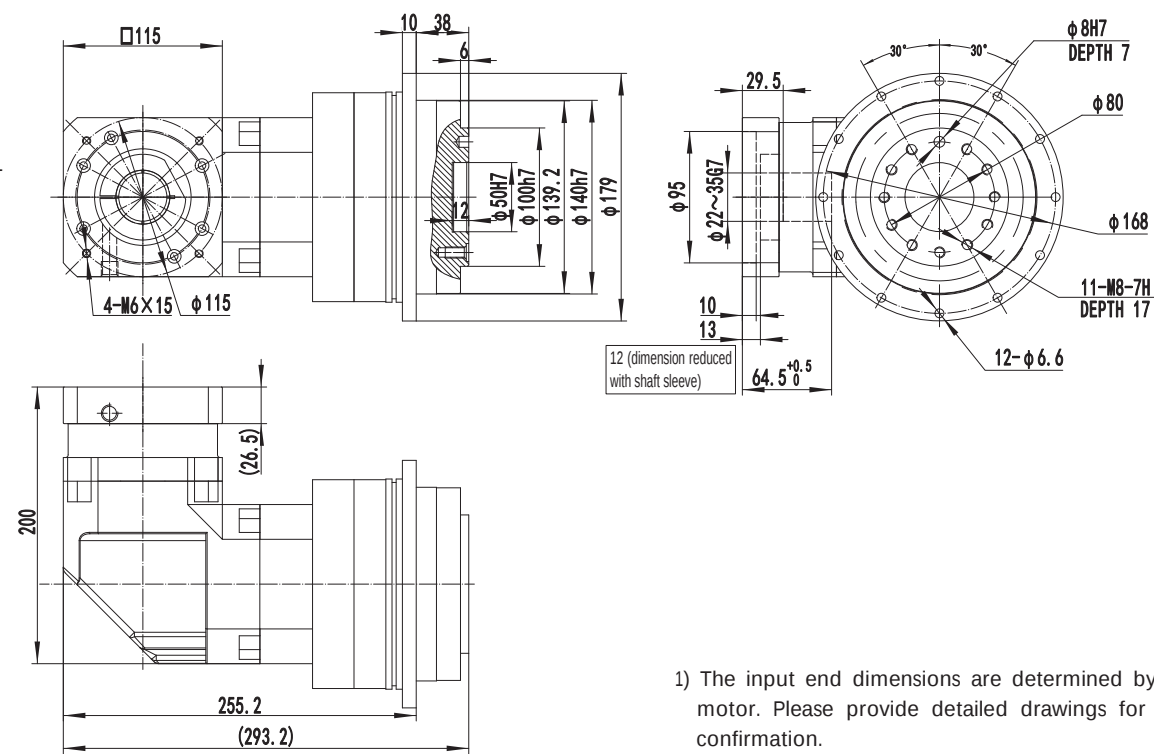
NDVR140
STAGE 1



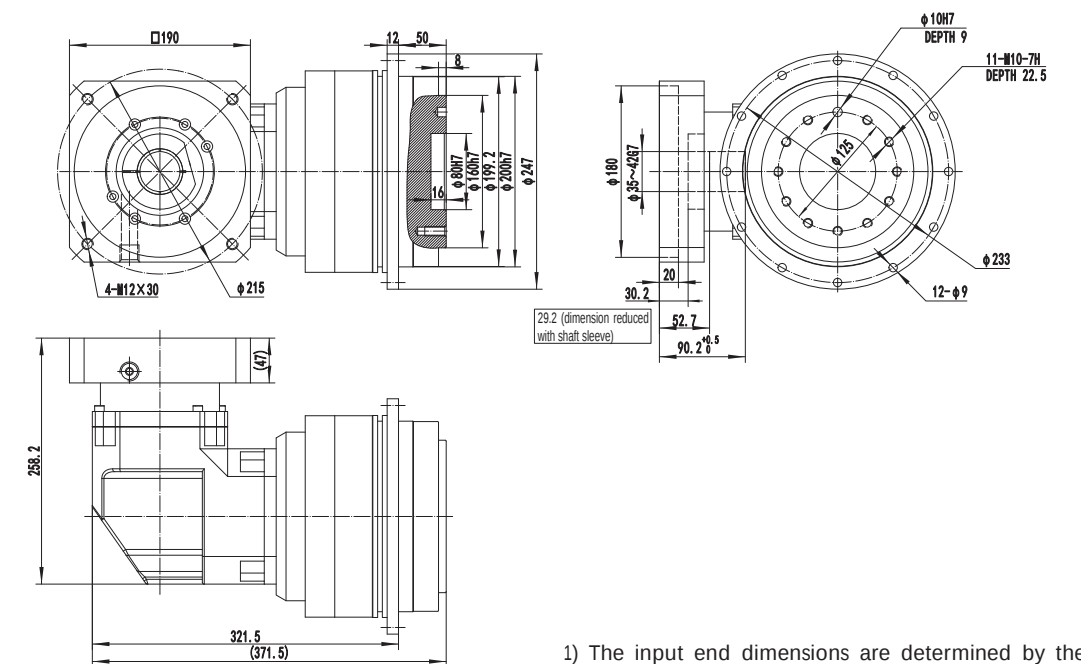
NDVR200
STAGE 1



NDVR140T
STAGE 2

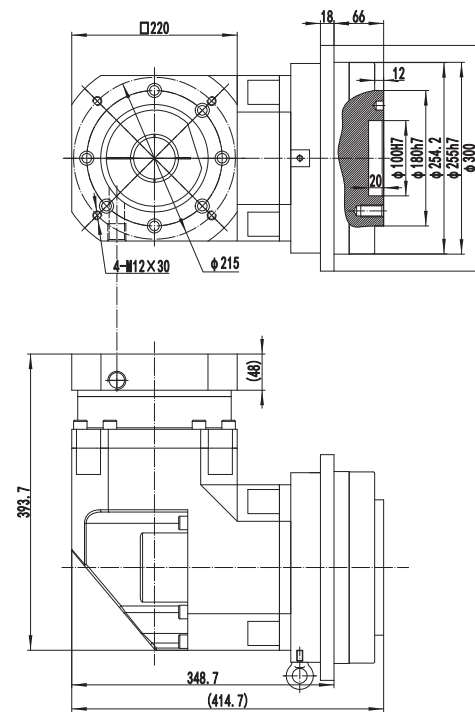


NDVR200T
STAGE 2

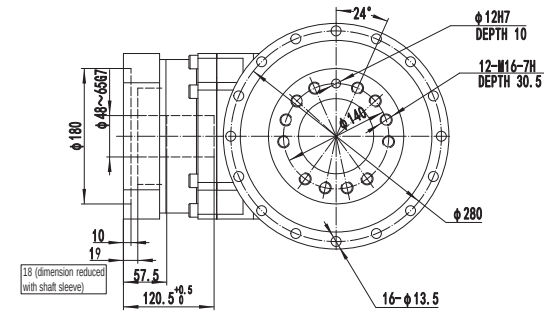


OUTPUT END

NDVR255
STAGE 1

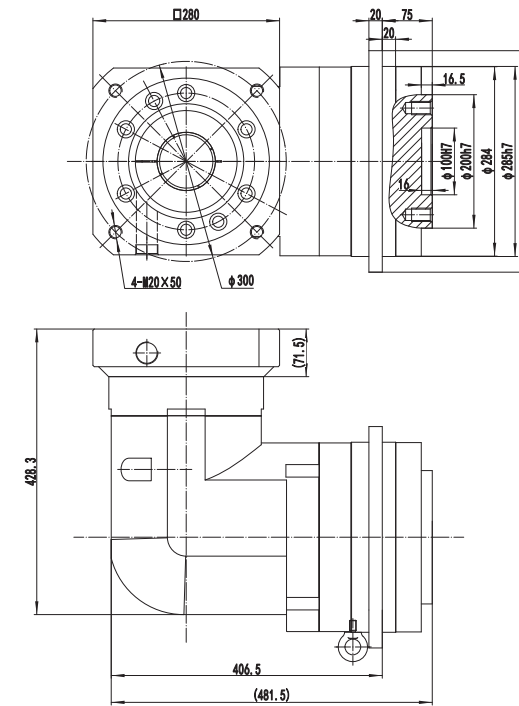


INPUT END

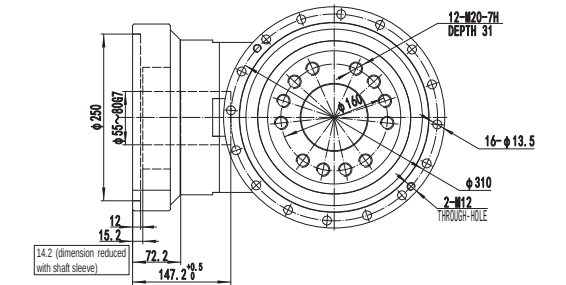


OUTPUT END

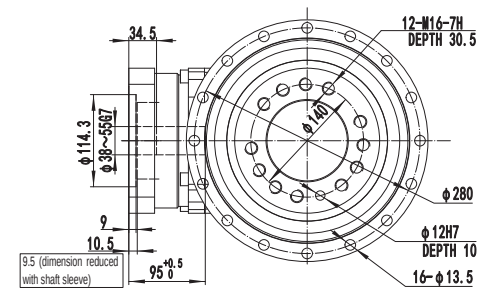
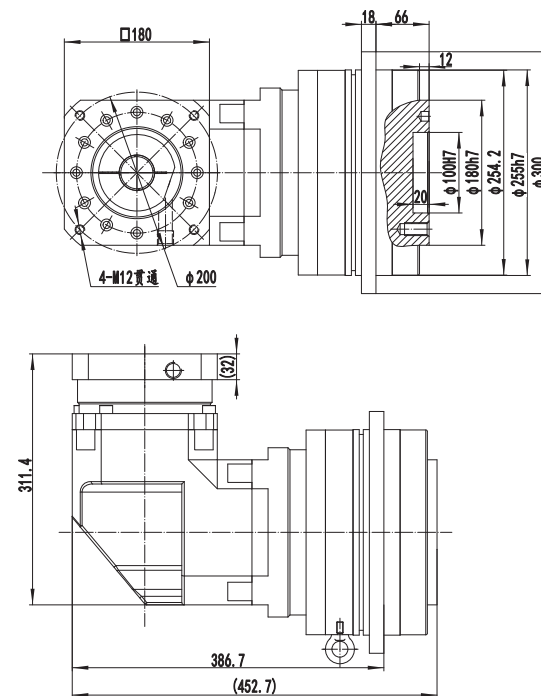
NDVR285
STAGE 1



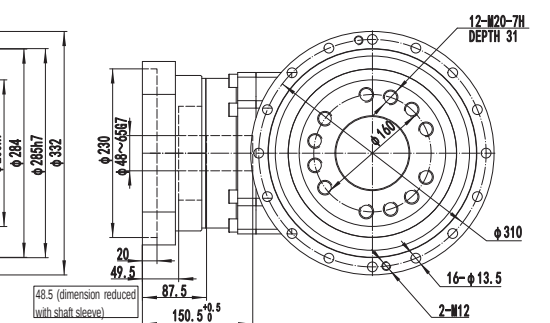
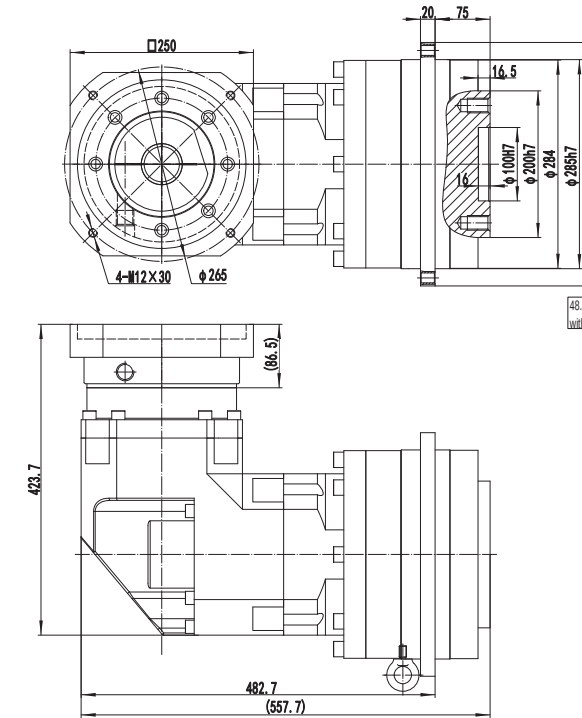
INPUT END



NDVR255T
STAGE 2

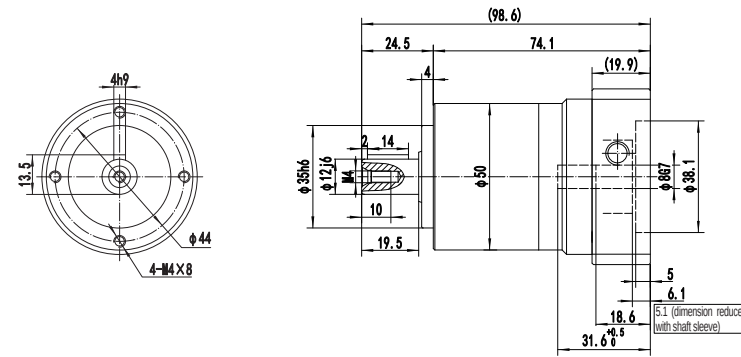


NDVR285T
STAGE 2

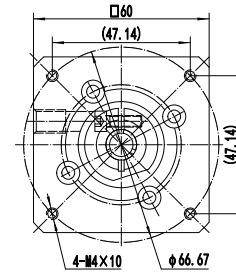


OUTPUT END

NE050
STAGE 1

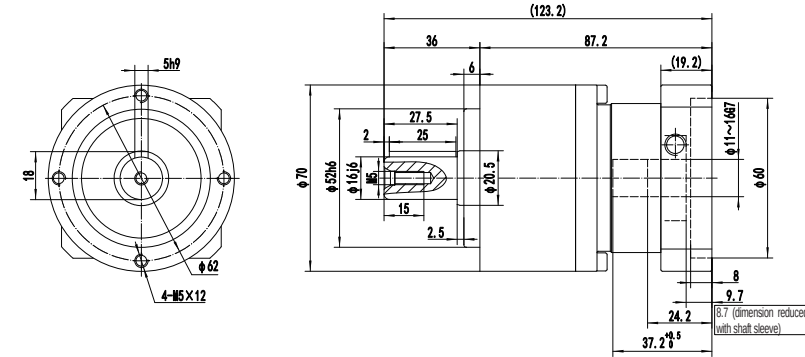


INPUT END

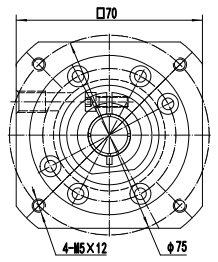


OUTPUT END

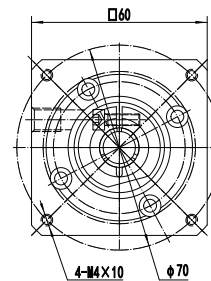
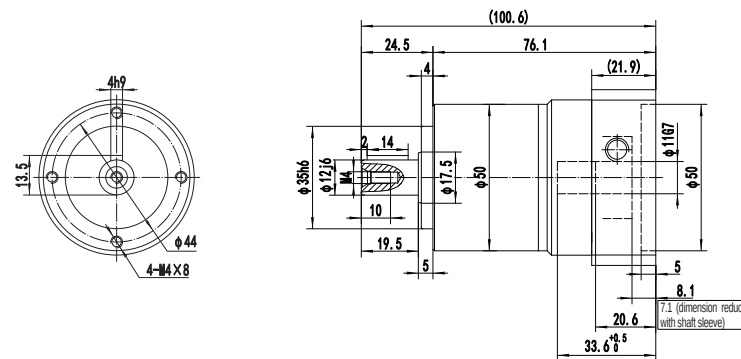
NE070
STAGE 1



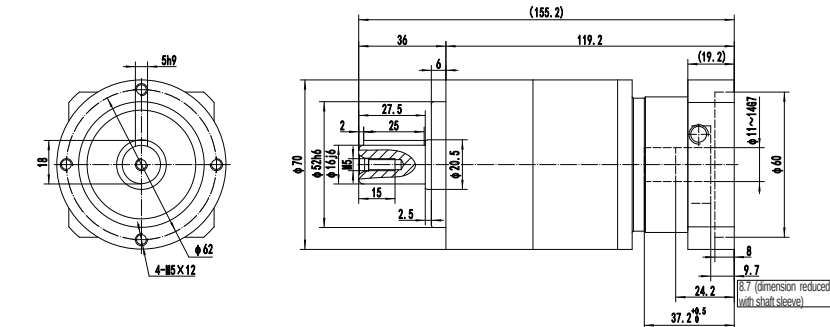
INPUT END



NE050
STAGE 1

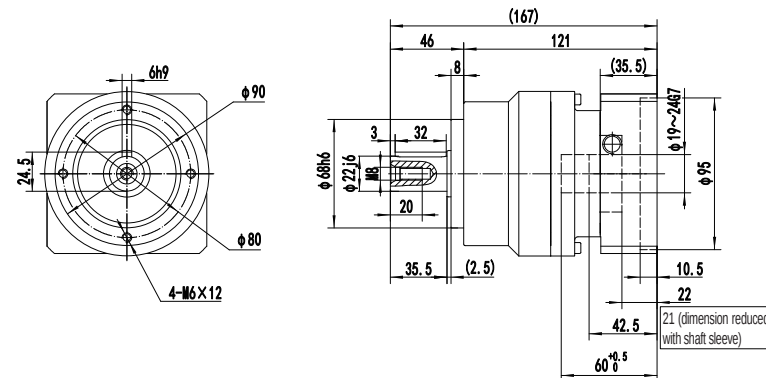


NE070A
STAGE 2



OUTPUT END

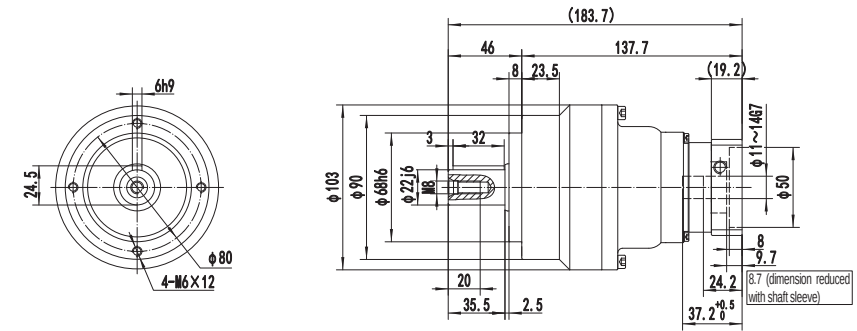
NE090
STAGE 1



INPUT END

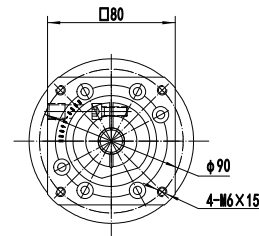
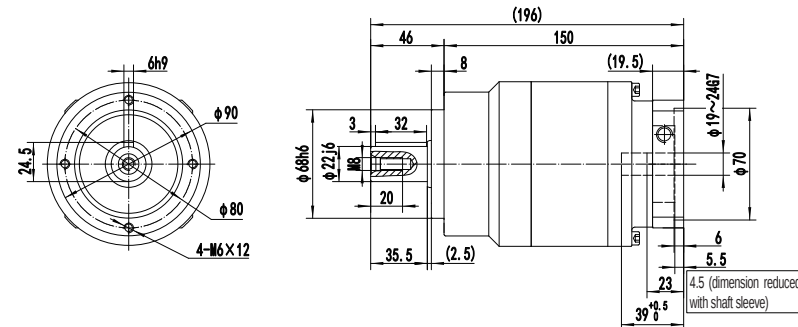
OUTPUT END

NE090T
STAGE 2

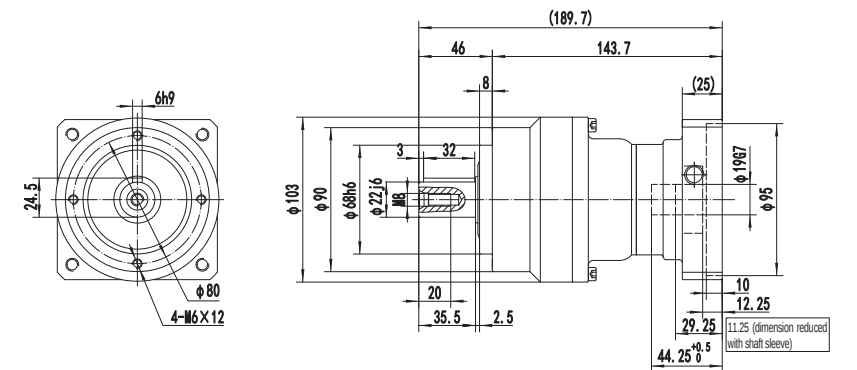


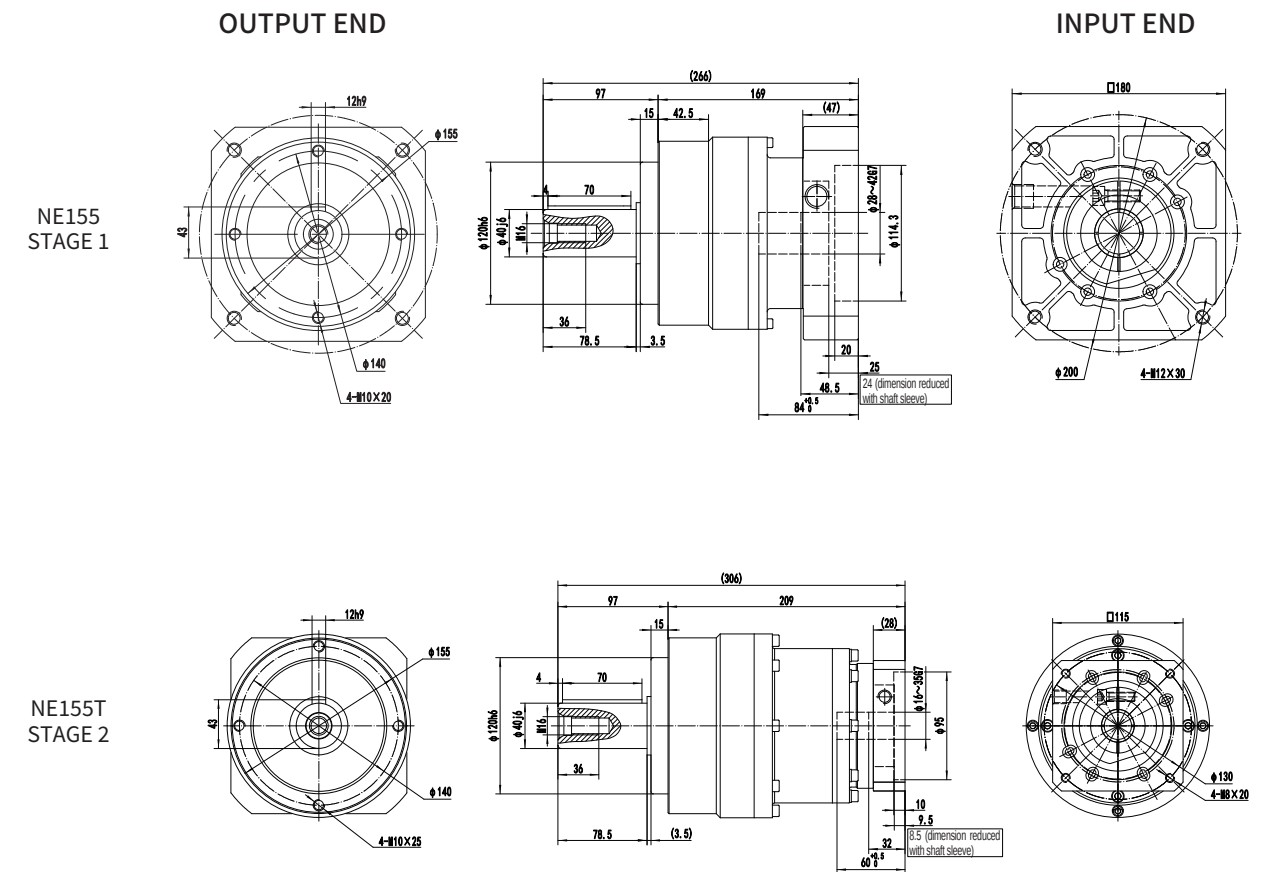
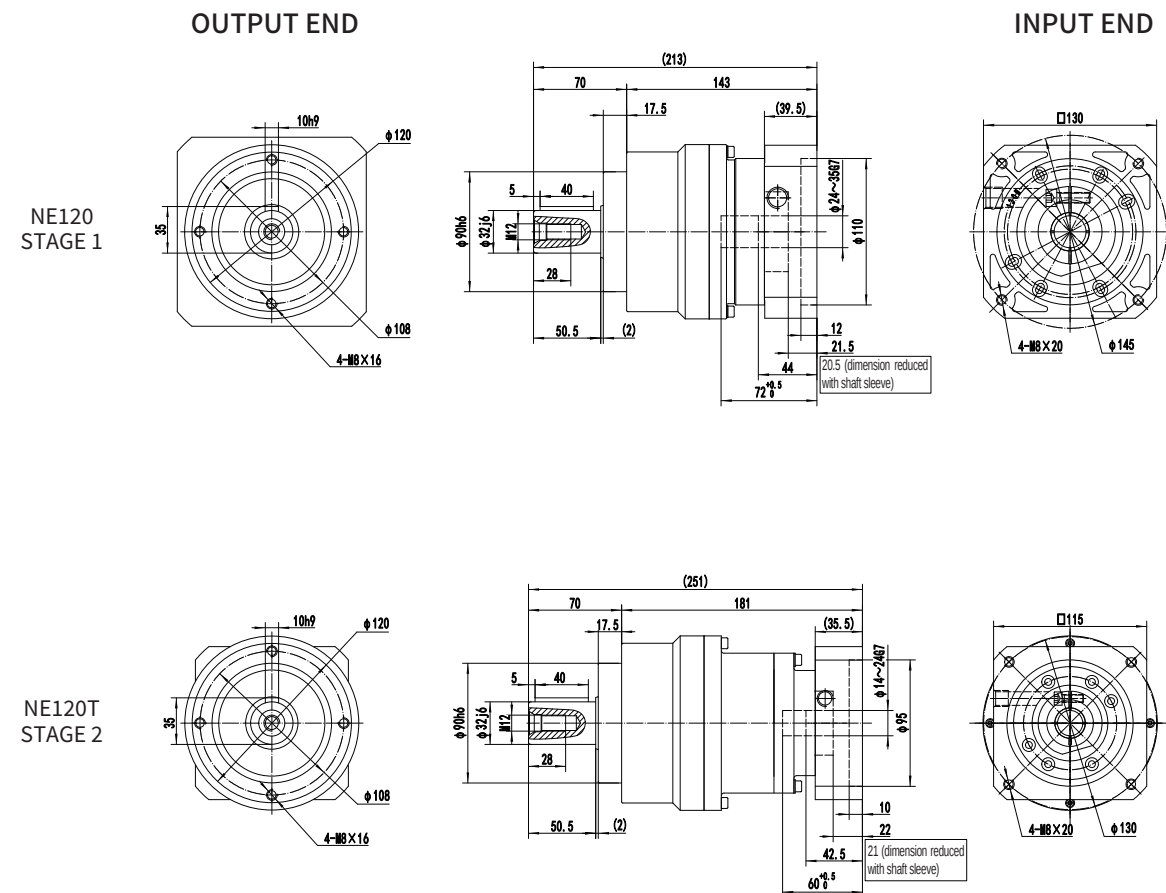
INPUT END

NE090A
STAGE 2



NE090T
STAGE 2

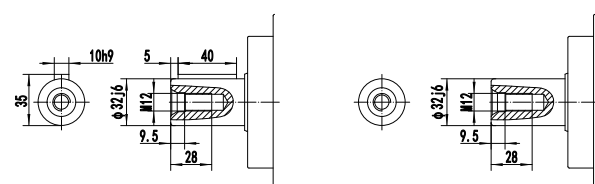




Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

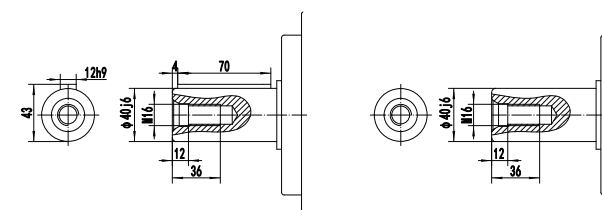


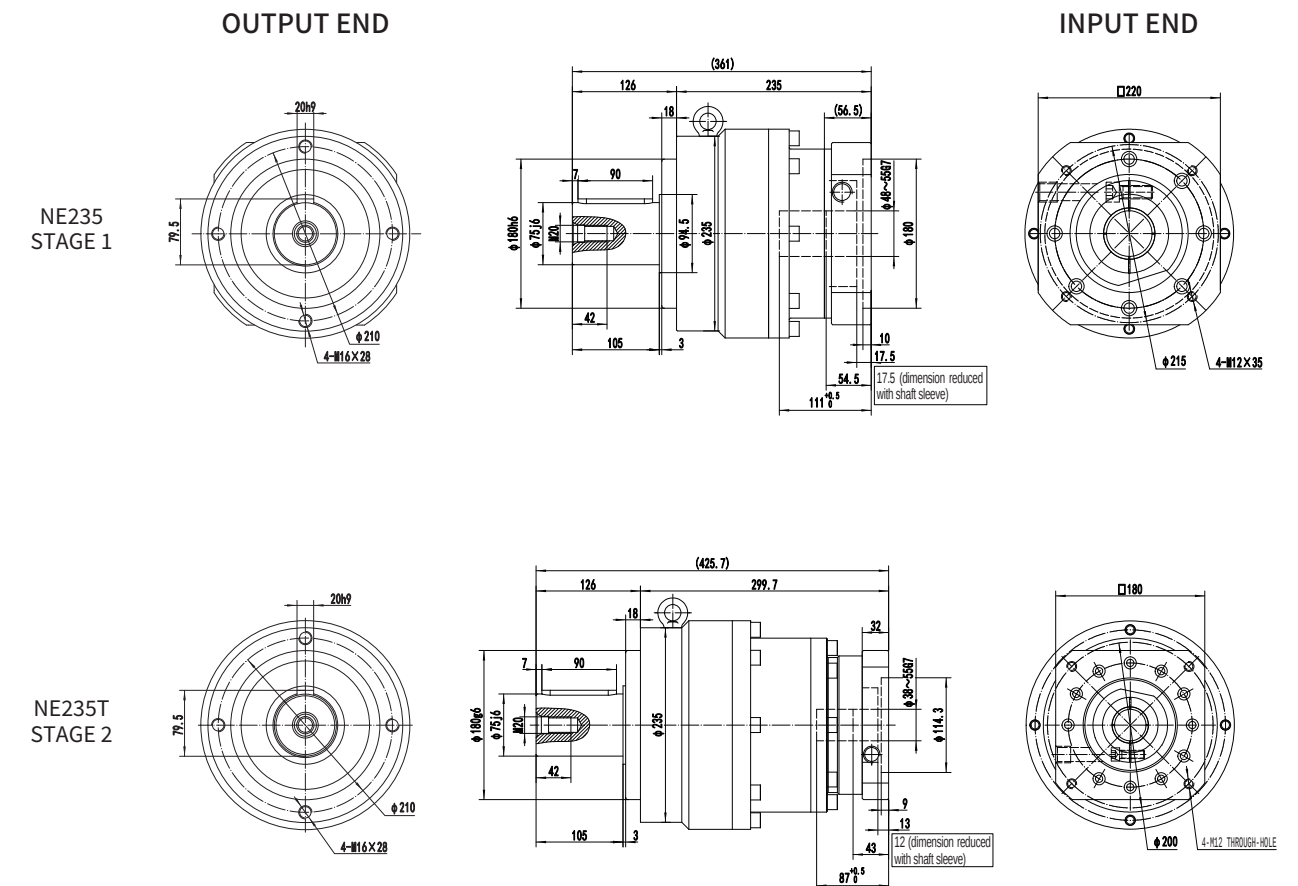
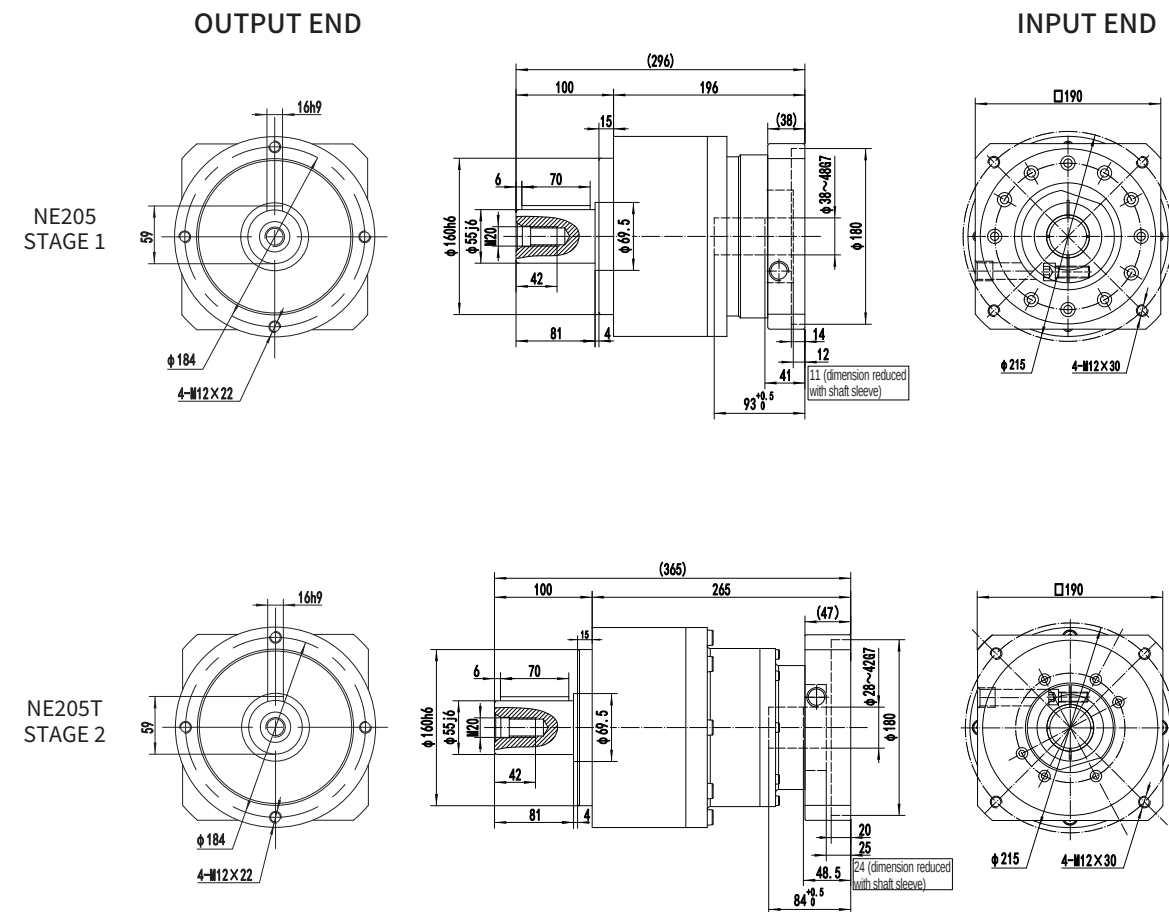
- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

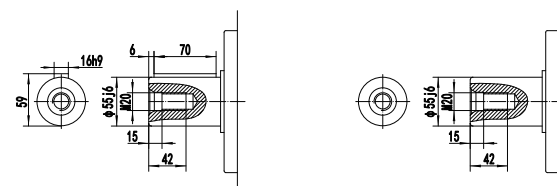




Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

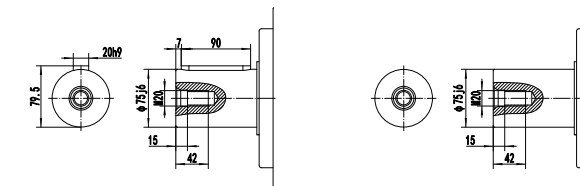


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- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

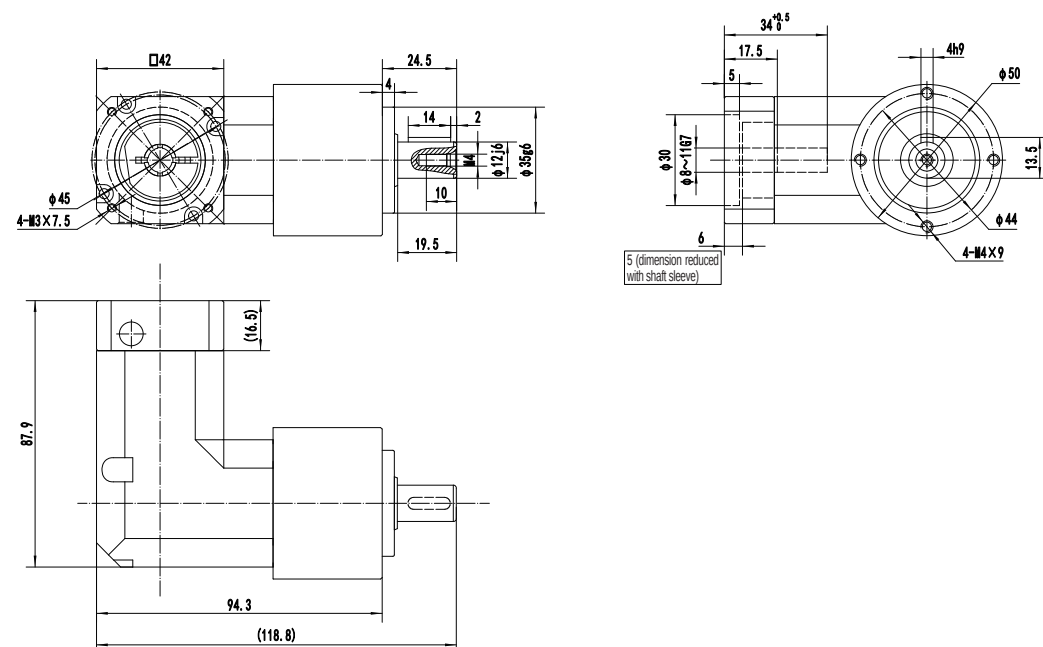


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

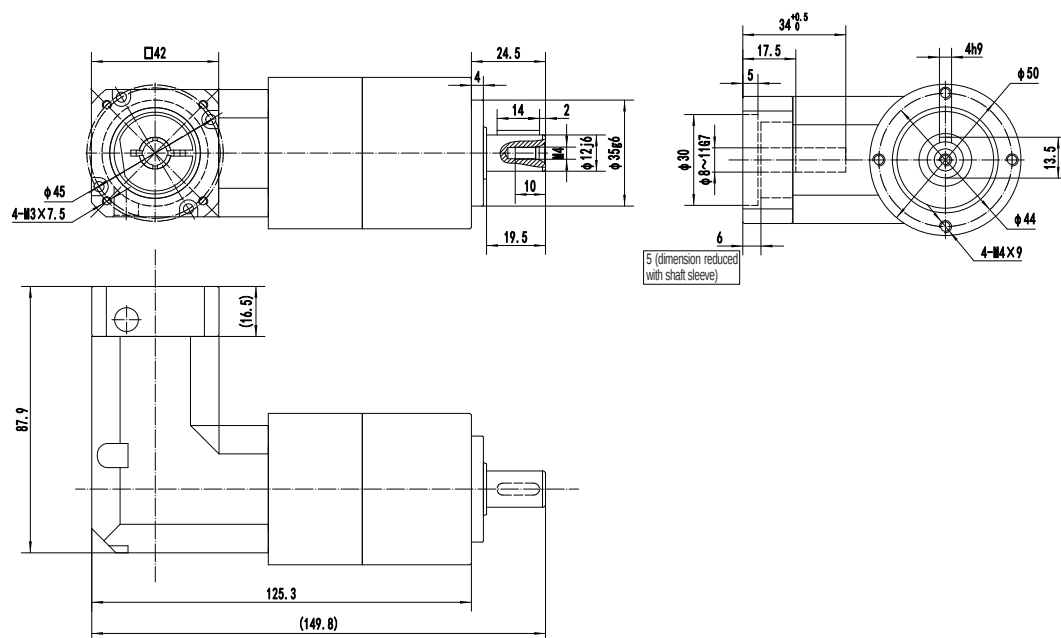
OUTPUT END

INPUT END

NER050
STAGE 1



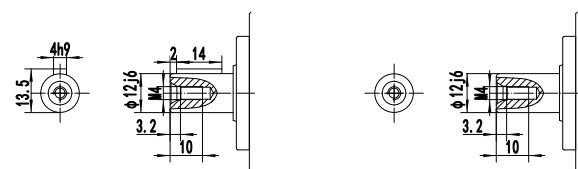
NER050A
STAGE 2



Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)

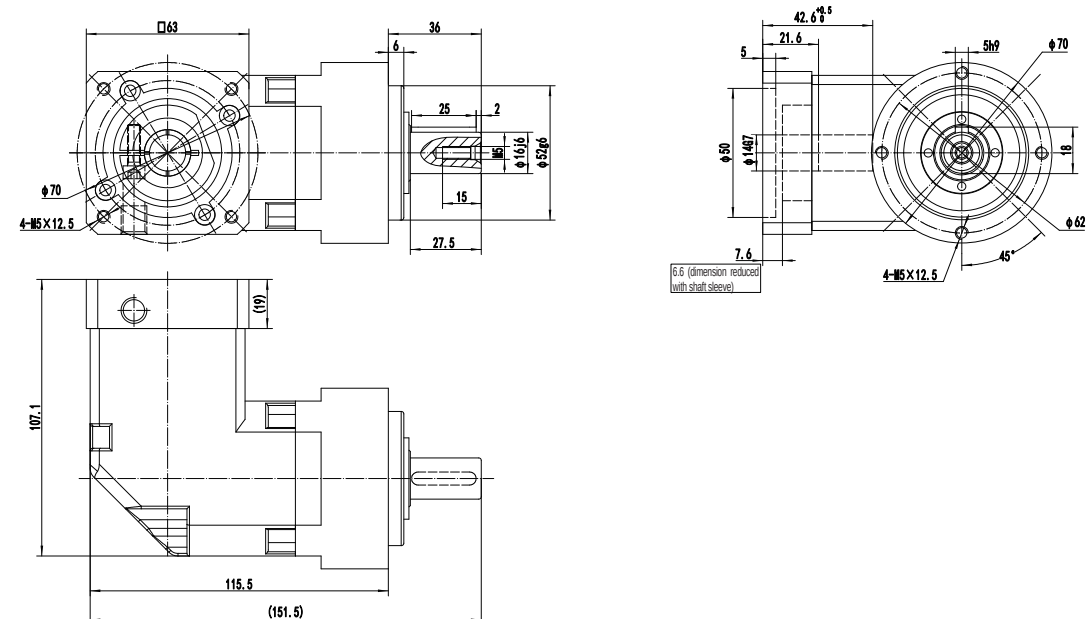


- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

OUTPUT END

INPUT END

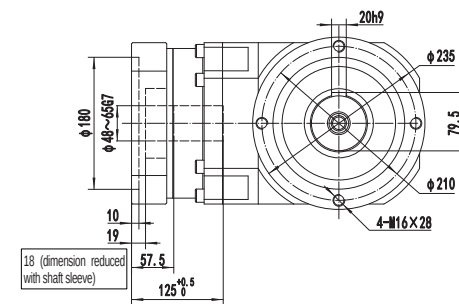
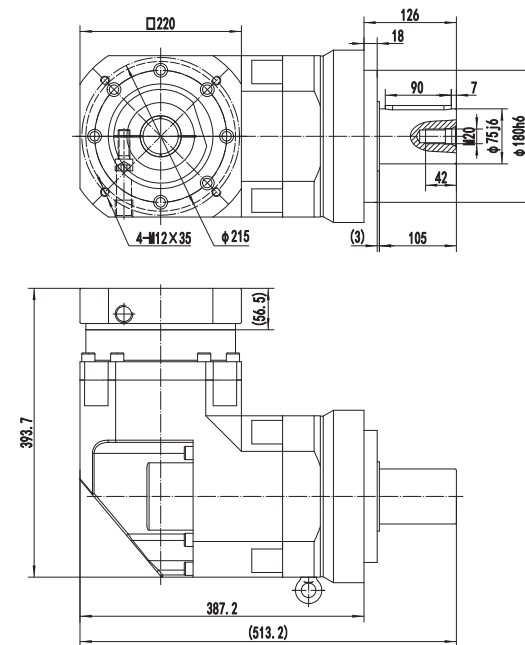
NER070
STAGE 1



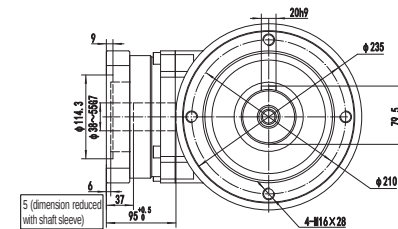
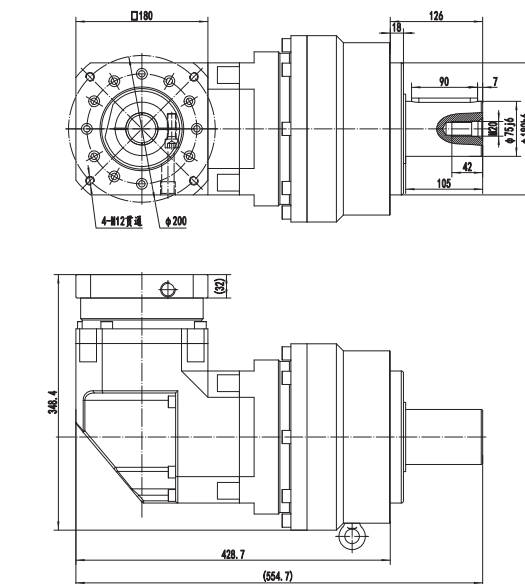
OUTPUT END

INPUT END

NER235
STAGE 1



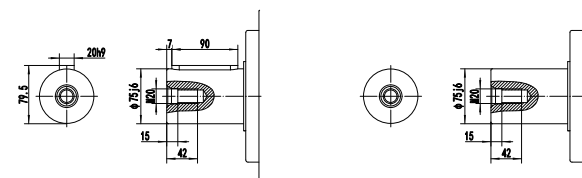
NER235T
STAGE 2



Output shaft options:

S2 keyed shaft output (mm)

S1 smooth shaft output (mm)



- 1) The input end dimensions are determined by the motor. Please provide detailed drawings for final confirmation.
- 2) When the motor shaft diameter is relatively small, a shaft sleeve needs to be used and a dimension reduction should be taken into consideration as indicated in the above boxed area.

