

HD series

More sophisticated

High rigidity



Nominal torque(Nm) diagram,for quick selection only.



Speed reducer performance data/

Parameters 参数	Stage 级数	Ratio 速比	Model 型号				
			HD255	HD285	HD360	HD420	HD470
Nominal output torque 额定承载扭矩	L1	4	4000	6500	12500	18000	
		5	2464	3687	6694	11400	
		6	2065	3034	5554	9371	
		7	1920	2782	5271	8850	
		8	1574	2238	4335	7000	
	L2	16	4000	6500	12500	18000	30000
		20	4000	6500	12500	18000	30000
		24	4000	6500	9492	18000	30000
		25	2464	3687	6694	11400	20700
		28	4000	6500	11120	18000	30000
		30	2464	3687	6694	11400	20700
		32	3950	6290	8950	17340	28000
		35	2464	3687	6694	11400	20700
		40	2464	3687	6694	11400	20000
	L3	64	4000	6500	12500	18000	30000
		80	4000	6500	12500	18000	30000
		100	4000	6500	12500	18000	30000
		120	4000	6500	12500	18000	30000
		140		6500	12500	18000	30000
		160	4000	6500	12500	18000	30000
		192	4000	6500	12500	18000	30000
		200	2464	3687	6694	11400	20700
	L4	256	4000	6500	12500	18000	30000
		320	4000	6500	12500	18000	30000
		400	4000	6500	12500	18000	30000
		500	4000	6500	12500	18000	30000
		560		6500	12500	18000	30000
		600		6500	12500	18000	30000
		640	4000	6500	12500	18000	30000
		700		6500	12500	18000	30000
		800	4000	6500	12500	18000	30000
		960		6500	12500	18000	30000
所列速比仅为部分型号，如需其它请联系工厂。							
Maximum output torque 最大承载扭矩	Nm		See the schedule of each model for details 详见各型号附表				
Maximum roll moment 容许最大侧倾力矩	Nm		6500	9500	22000	30000	64000
Maximum axial load 容许最大轴向负载	N		33000	50000	90000	100000	140000
Nominal input speed 额定输入转速	rpm		See the schedule of each model for details 详见各型号附表				
Maximum input speed 最大输入转速	rpm		See the schedule of each model for details 详见各型号附表				
Backlash 回程间隙	arcmin		See the schedule of each model for details 详见各型号附表				
Noise 噪音	dB（A）		See the schedule of each model for details 详见各型号附表				
Efficiency 效率	L1		See the schedule of each model for details 详见各型号附表				
Use of temperature 使用环境温度	℃		-15℃～40℃				
Service life 使用寿命	h		≥20000				
Lubrication 润滑			Grease or Lubricating oil 润滑脂或润滑油				



*Size, speed ratio and performance are recommended and customized.
尺寸、速比、性能皆为标准推荐，支持定制。



HD 255 L1 - 5 - P2 - B5 / FI-

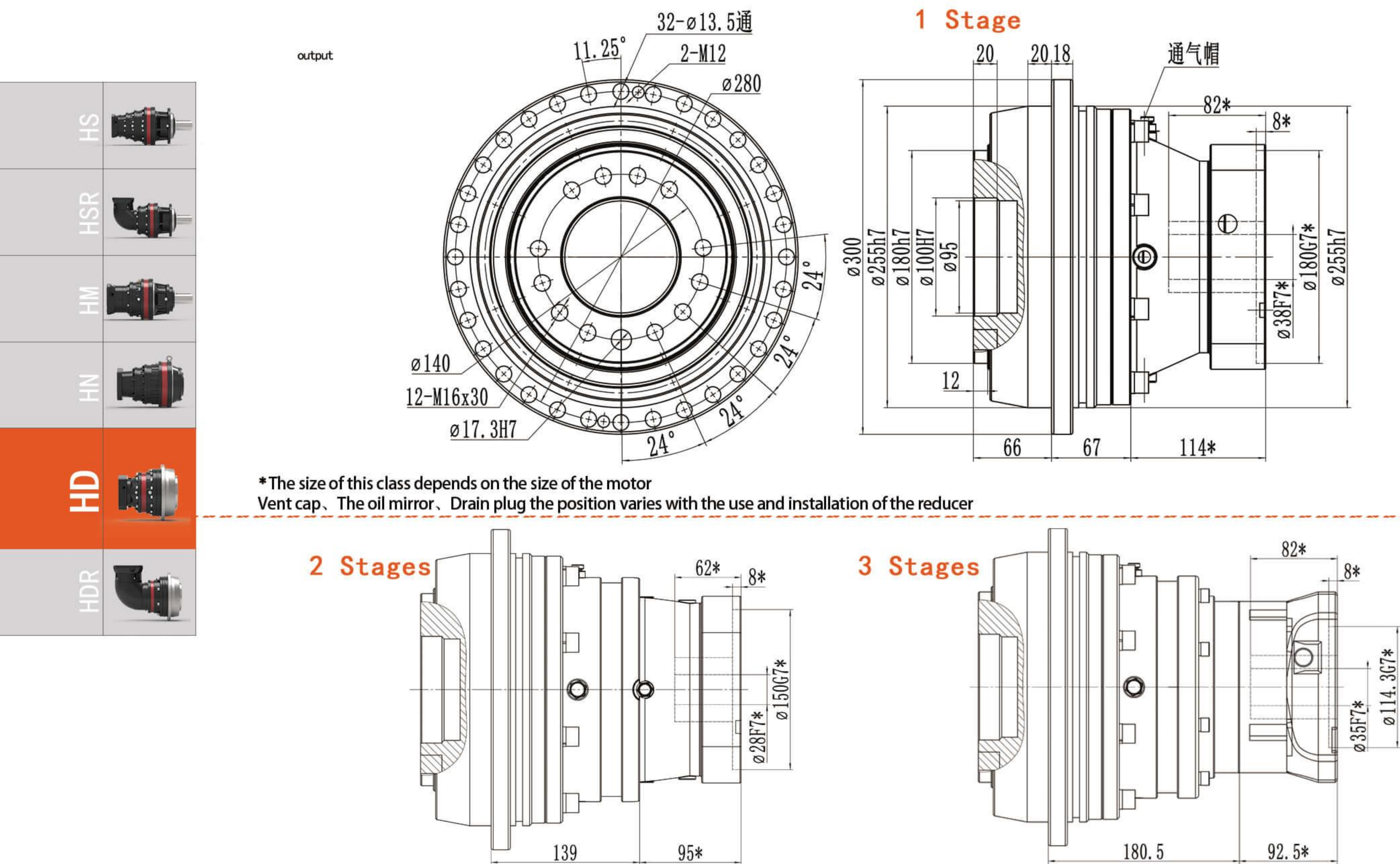
ModelSizeStageRatio iPrecisionInstallation modeInput mode

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MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

Outline dimension drawing of reducer/



Performance parameter/

Ratio 速比		L1					L2									L3							
	i	4	5	6	7	8	16	20	24	25	28	30	32	35	40	64	80	100	120	160	192	200	
Nominal output torque 额定承载扭矩	Nm	4000	2464	2065	1920	1574	4000	4000	4000	2464	4000	2464	3950	2464	2464	4000	4000	4000	4000	4000	4000	2464	
Maximum output torque 最大承载扭矩	Nm	8000	4928	4130	3840	3148	8000	8000	8000	4928	8000	4928	7900	4928	4928	8000	8000	8000	8000	8000	8000	4928	
Maximum roll moment 容许最大侧倾力矩	Nm	6500																					
Maximum axial load 容许最大轴向负载	N	33000																					
Nominal input speed 额定输入转速	rpm	1500					1500									1500							
Maximum input speed 最大输入转速	rpm	3000					3000									3000							
Backlash 回程间隙	P2	5					7									9							
	P1	3					5									7							
Noise 噪音	dB (A)	72					70									68							
Efficiency 效率	%	97%					94%									91%							
Rated thermal power 额定热功率	KW	22					12									8							
Use of temperature 使用环境温度	℃	-15℃~40℃																					
Service life 使用寿命	h	≥20000																					
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																					
Reference weight 参考重量	KG	57					60									65							

Size, speed ratio and performance are recommended and customized.



HD 285 L1 - 5 - P2 - B5 / FI-

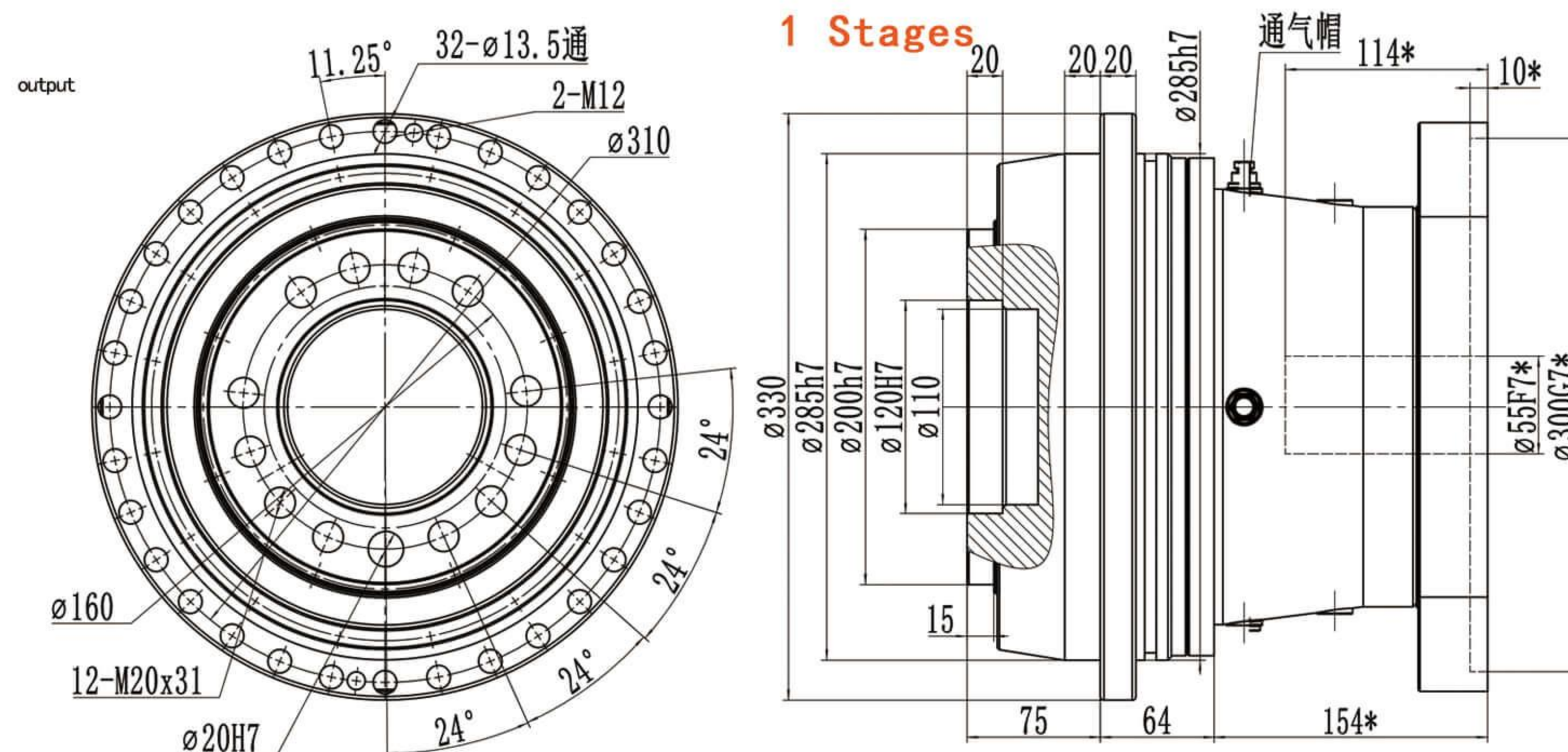
Model Size Stage Ratio i Precision Installation mode Input mode



MOTOR SIZE

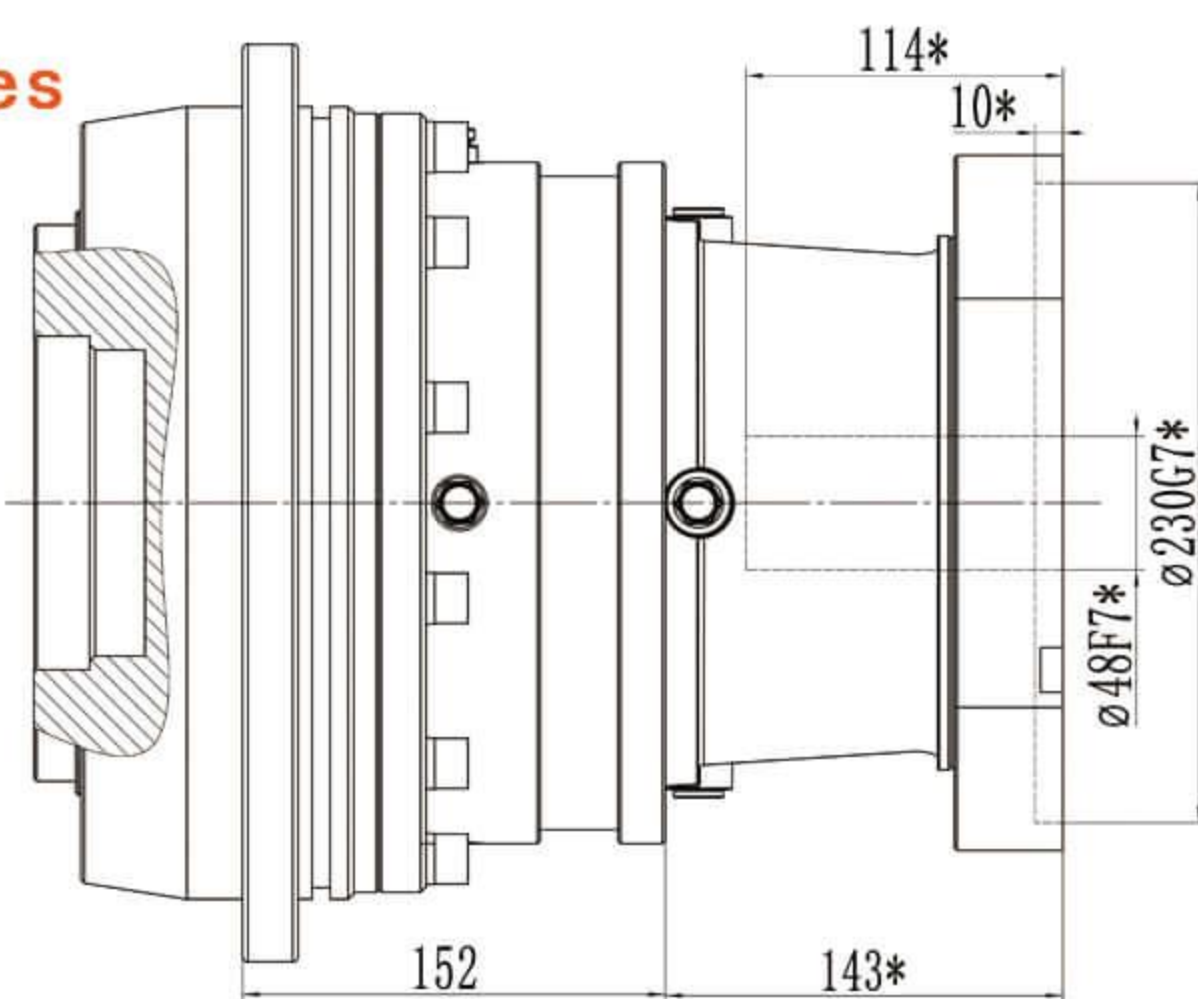
Servo motor, Stepper motor, Ac motor,
Dc motor, Hydraulic motor, Etc.

Outline dimension drawing of reducer/

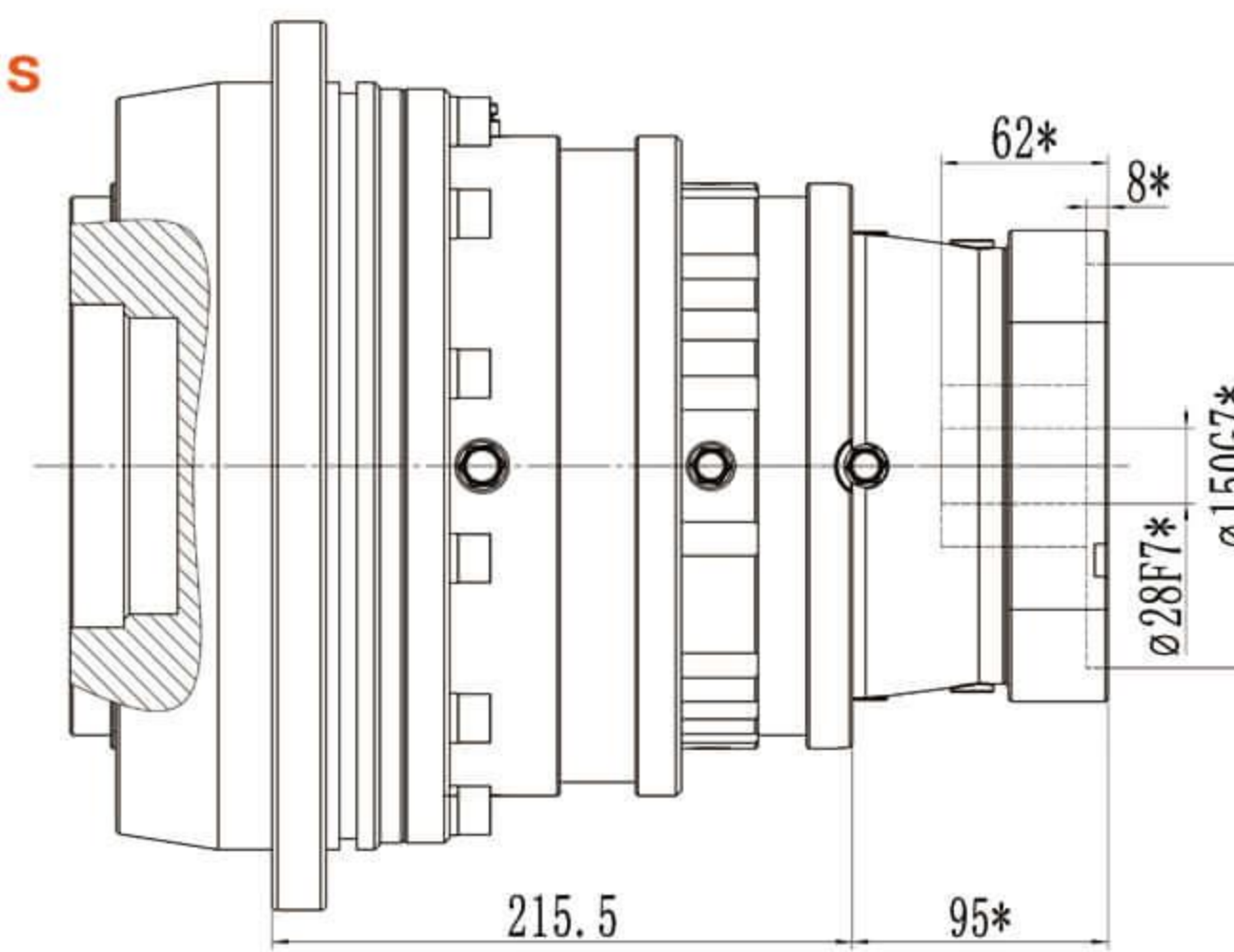


*The size of this class depends on the size of the motor
Vent cap, The oil mirror, Drain plug the position varies with the use and installation of the reducer

2 Stages



3 Stages



Performance parameter/

Ratio 速比		L1					L2									L3									
	i	4	5	6	7	8	16	20	24	25	28	30	32	35	40	64	80	100	120	140	160	192	200		
Nominal output torque 额定承载扭矩	Nm	6500	3687	3034	2782	2238	6500	6500	6500	3687	6500	3687	6290	3687	3687	6500	6500	6500	6500	6500	6500	6500	3687		
Maximum output torque 最大承载扭矩	Nm	13000	7374	6068	5564	4476	13000	13000	13000	7374	13000	7374	12580	7374	7374	13000	13000	13000	13000	13000	13000	13000	7374		
Maximum roll moment 容许最大侧倾力矩	Nm	9500																							
Maximum axial load 容许最大轴向负载	N	50000																							
Nominal input speed 额定输入转速	rpm	1500					1500									1500									
Maximum input speed 最大输入转速	rpm	2000					3000									3000									
Backlash 回程间隙	P2	5					7									9									
	P1	3					5									7									
Noise 噪音	dB (A)	72					70									68									
Efficiency 效率	%	97%					94%									91%									
Rated thermal power 额定热功率	KW	30					18									12									
Use of temperature 使用环境温度	℃	-15℃~40℃																							
Service life 使用寿命	h	≥20000																							
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																							
Reference weight 参考重量	KG	80					90									95									

Size, speed ratio and performance are recommended and customized.



HD 360 L1 - 5 - P2 - B5 / FI-

Model Size Stage Ratio i Precision Installation mode Input mode

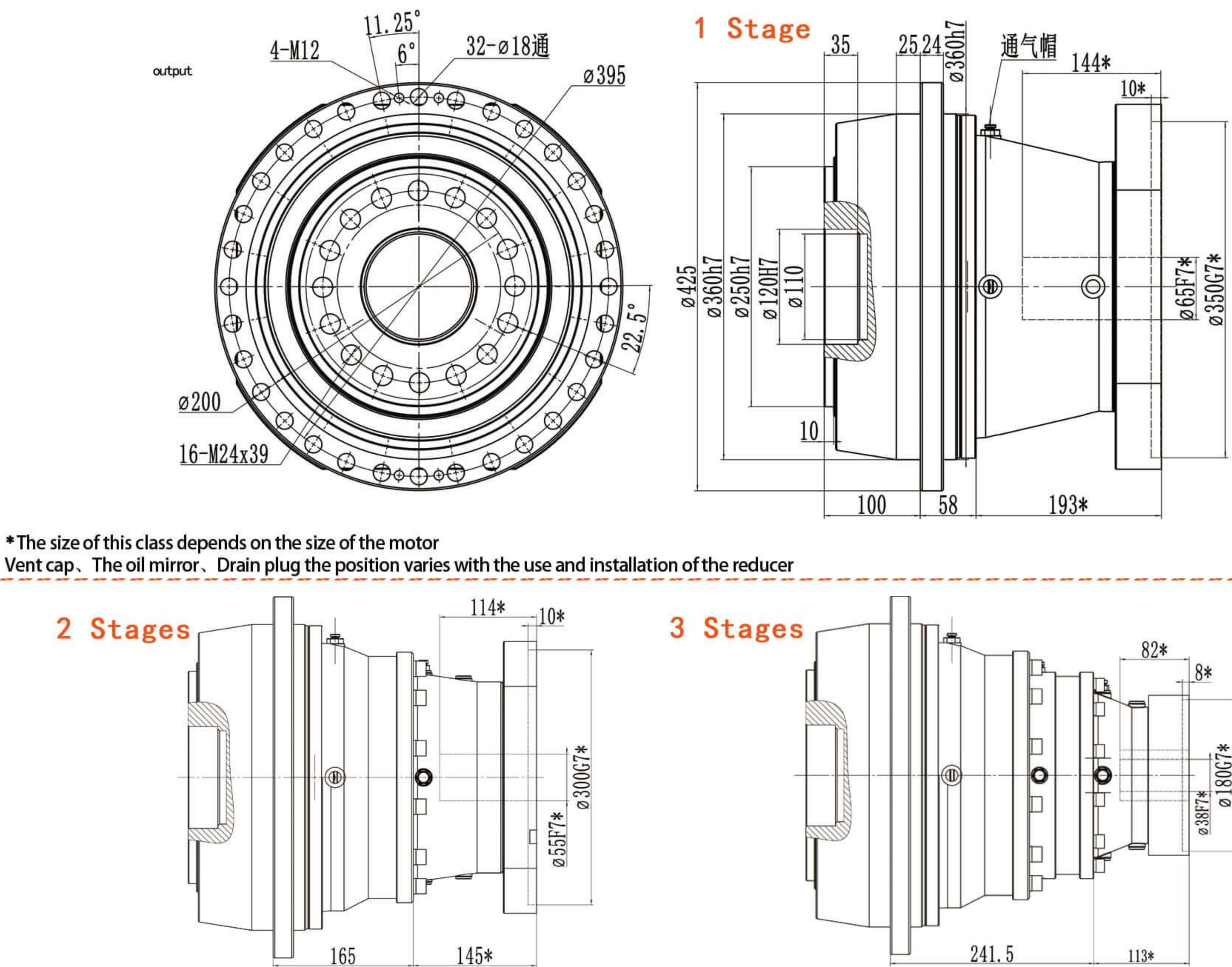
系列

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MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

Outline dimension drawing of reducer/



*The size of this class depends on the size of the motor
Vent cap、The oil mirror、Drain plug the position varies with the use and installation of the reducer

Performance parameter/

Ratio 速比		L1					L2								L3								
	i	4	5	6	7	8	16	20	24	25	28	30	32	35	40	64	80	100	120	140	160	192	200
Nominal output torque 额定承载扭矩	Nm	12500	6694	5554	5271	4335	12500	12500	9492	6694	11120	6694	8950	6694	6694	12500	12500	12500	12500	12500	12500	12500	6694
Maximum output torque 最大承载扭矩	Nm	25000	13388	11108	10542	8670	25000	25000	18984	13388	22240	13388	17900	13388	13388	25000	25000	25000	25000	25000	25000	25000	13388
Maximum roll moment 容许最大侧倾力矩	Nm	22000																					
Maximum axial load 容许最大轴向负载	N	90000																					
Nominal input speed 额定输入转速	rpm	1500					1500								1500								
Maximum input speed 最大输入转速	rpm	2000					2000								3000								
Backlash 回程间隙	P2	5					7								9								
	P1	3					5								7								
Noise 噪音	dB (A)	78					75								72								
Efficiency 效率	%	97%					94%								91%								
Rated thermal power 额定热功率	KW	40					23								15								
Use of temperature 使用环境温度	℃	-15℃~40℃																					
Service life 使用寿命	h	≥20000																					
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																					
Reference weight 参考重量	KG	140					160								170								

Size, speed ratio and performance are recommended and customized.



HD 420 L1 - 5 - P2 - B5 / FI-

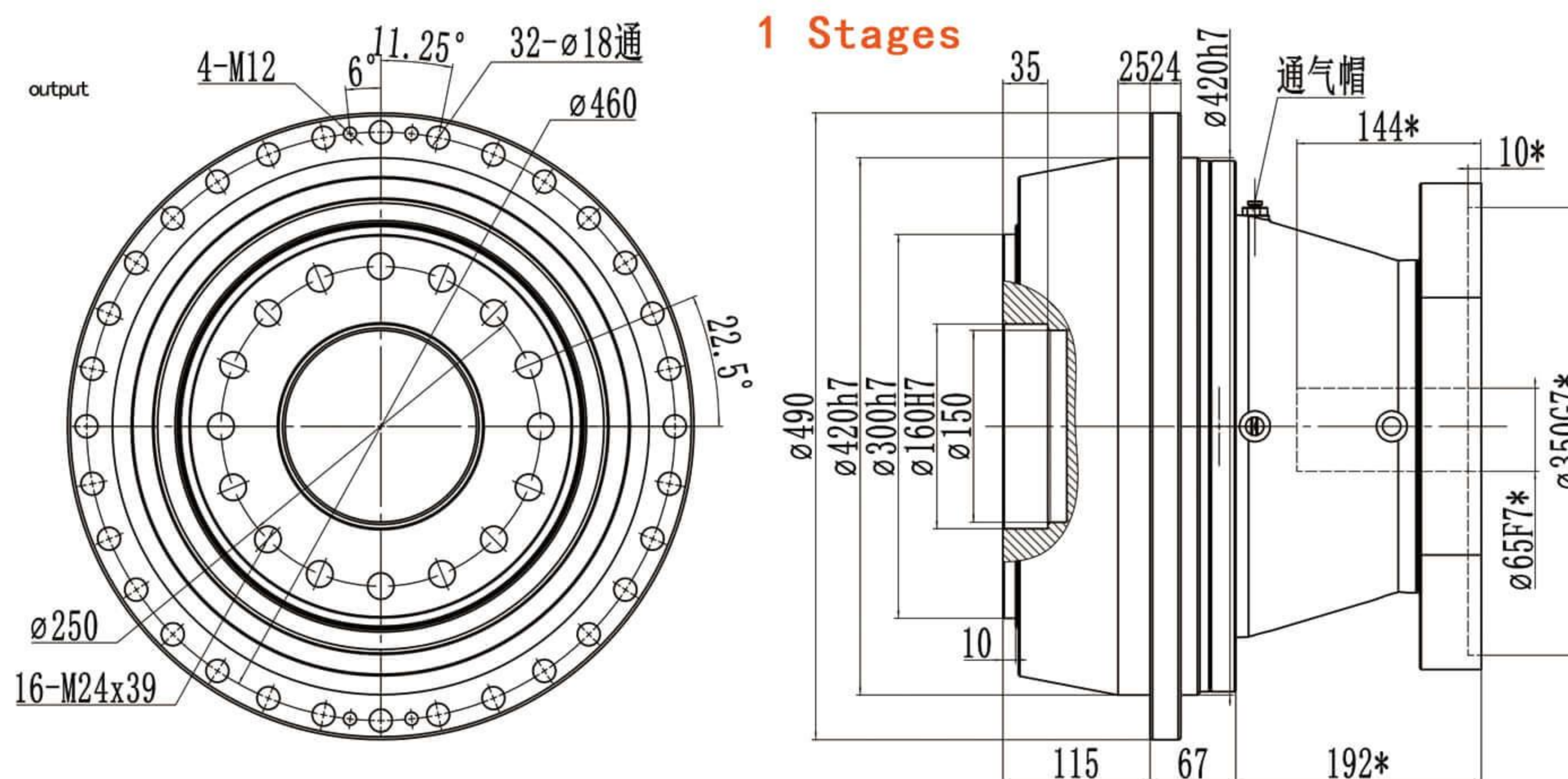
Model Size Stage Ratio i Precision Installation mode Input mode



MOTOR SIZE

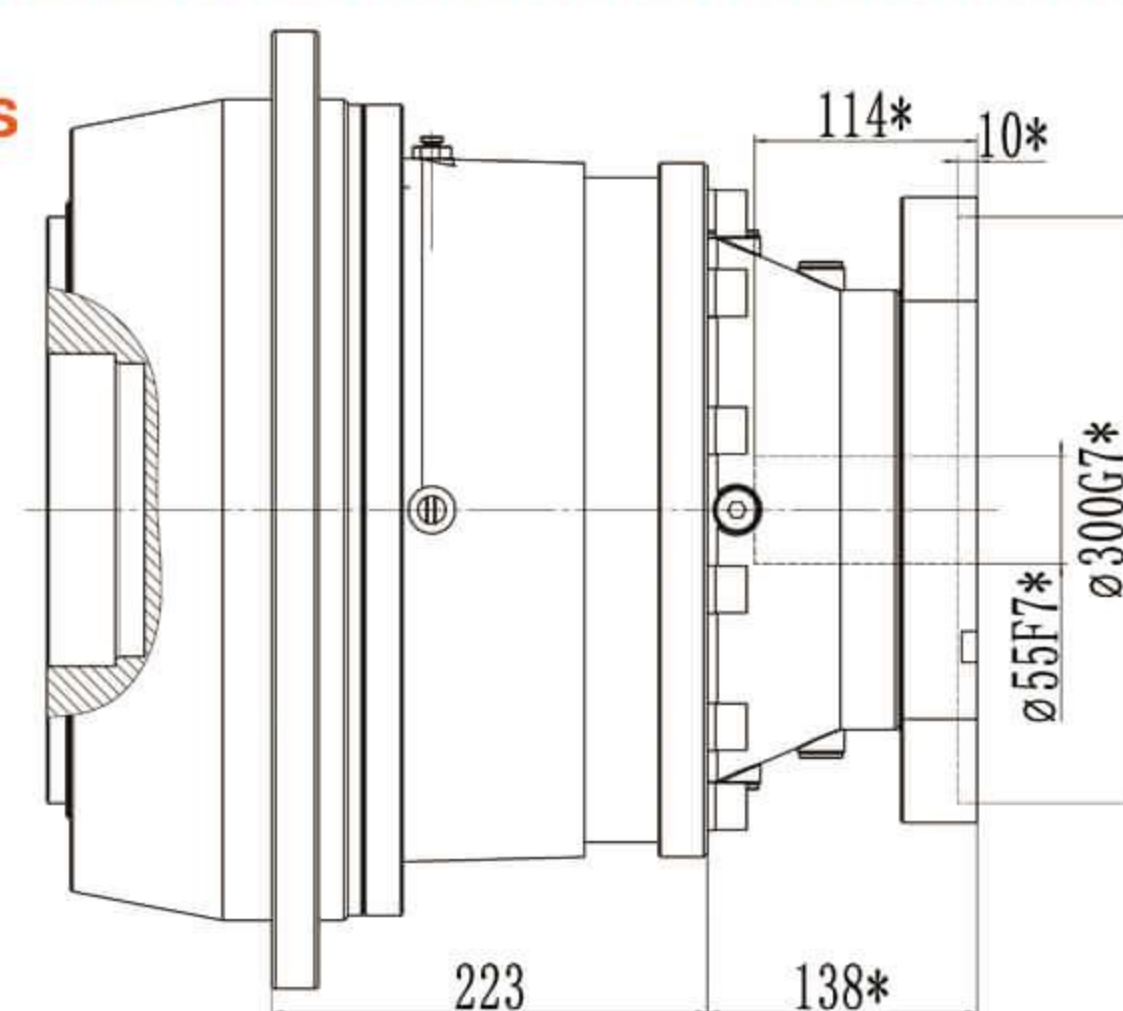
Servo motor, Stepper motor, Ac motor,
Dc motor, Hydraulic motor, Etc.

Outline dimension drawing of reducer/

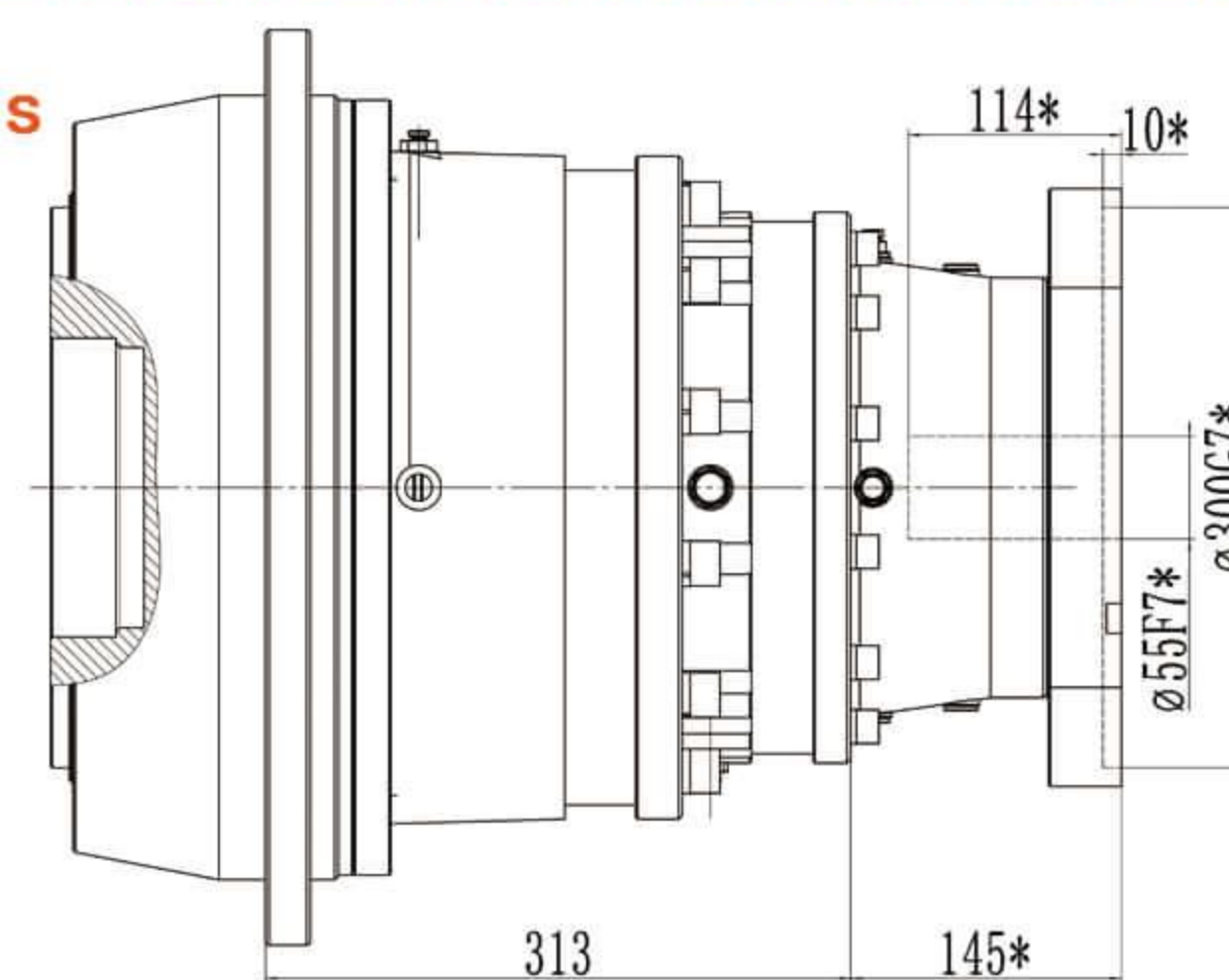


*The size of this class depends on the size of the motor
Vent cap, The oil mirror, Drain plug the position varies with the use and installation of the reducer

2 Stages



3 Stages



Performance parameter/

Ratio 速比		L1					L2						L3													
	i	4	5	6	7	8	16	20	24	25	28	30	32	35	40	64	80	100	120	140	160	192	200			
Nominal output torque 额定承载扭矩	Nm	18000	11400	9371	8850	7000	18000	18000	18000	11400	18000	11400	17340	11400	11400	18000	18000	18000	18000	18000	18000	18000	11400			
Maximum output torque 最大承载扭矩	Nm	36000	22800	18742	17700	14000	36000	36000	36000	22800	36000	22800	34680	22800	22800	36000	36000	36000	36000	36000	36000	36000	22800			
Maximum roll moment 容许最大侧倾力矩	Nm	30000																								
Maximum axial load 容许最大轴向负载	N	100000																								
Nominal input speed 额定输入转速	rpm	1500					1500										1500									
Maximum input speed 最大输入转速	rpm	2000					2000										2000									
Backlash 回程间隙	P2	5					7										9									
	P1	3					5										7									
Noise 噪音	dB (A)	78					75										72									
Efficiency 效率	%	97%					94%										91%									
Rated thermal power 额定热功率	KW	54					30										22									
Use of temperature 使用环境温度	℃	-15℃~40℃																								
Service life 使用寿命	h	≥20000																								
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																								
Reference weight 参考重量	KG	185					245										265									

Size, speed ratio and performance are recommended and customized.



HD 470 L2 - 20 - P2 - B5 / FI-

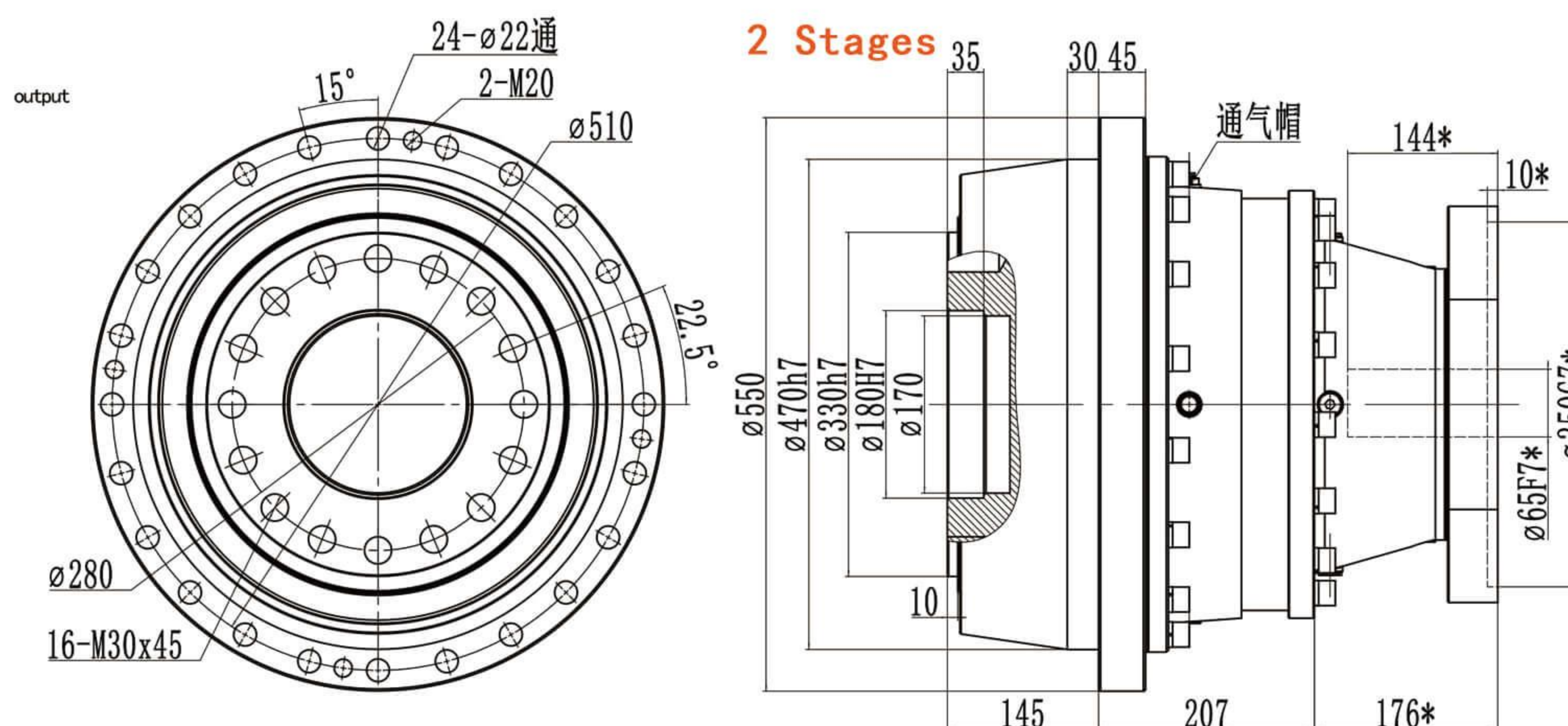
Model	Size	Stage	Ratio i	Precision	Installation mode	Input mode
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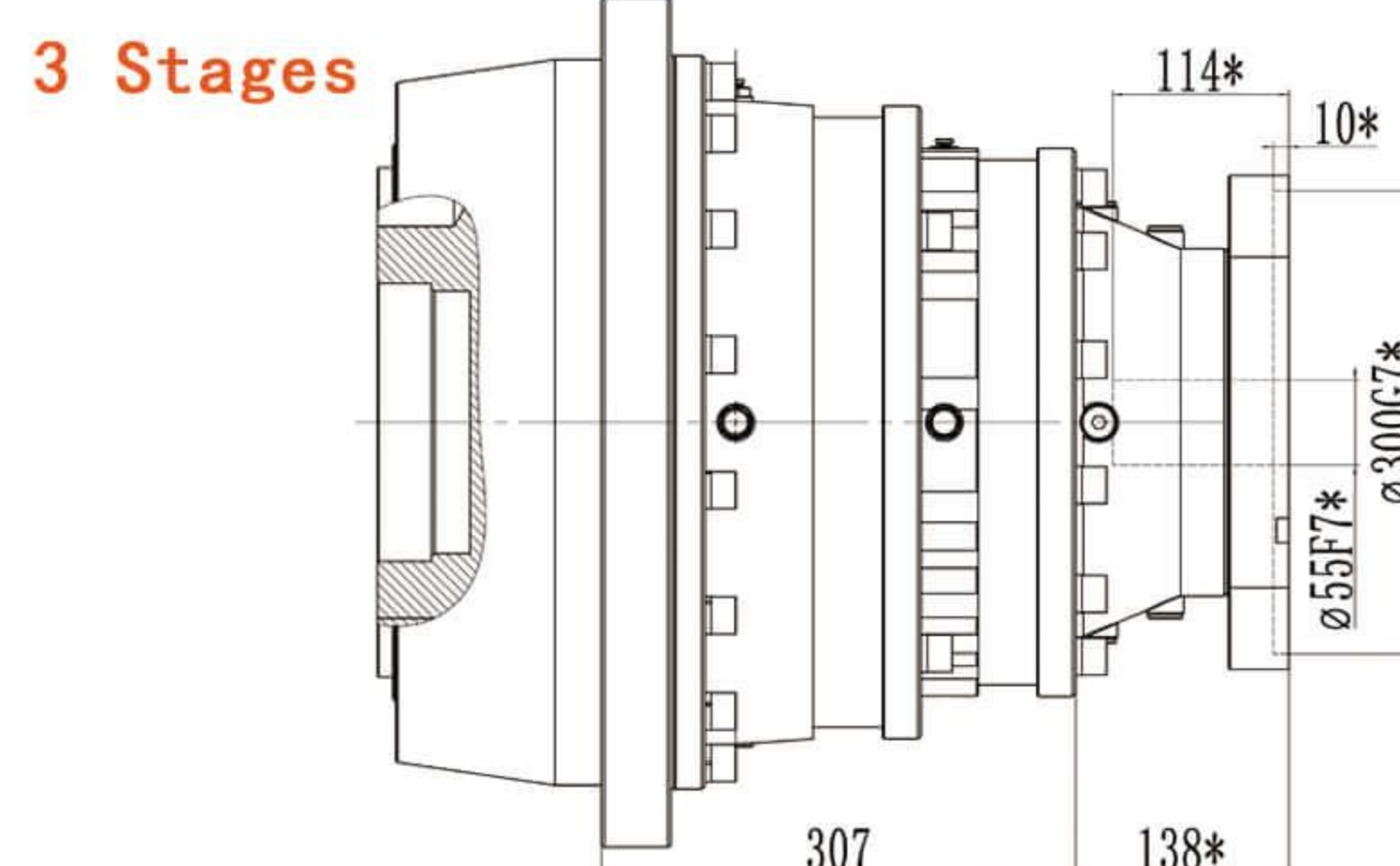
MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

Outline dimension drawing of reducer/



* The size of this class depends on the size of the motor
Vent cap, The oil mirror, Drain plug the position varies with the use and installation of the reducer



Performance parameter/

Ratio 速比		L2										L3								L4				
	i	16	20	24	25	28	30	32	35	40	64	80	100	120	140	160	192	200	256	320	400	500	560	
Nominal output torque 额定承载扭矩	Nm	30000	30000	30000	20700	30000	20700	28000	20700	20000	30000	30000	30000	30000	30000	30000	30000	20700	30000	30000	30000	30000	30000	
Maximum output torque 最大承载扭矩	Nm	60000	60000	60000	41400	60000	41400	56000	41400	40000	60000	60000	60000	60000	60000	60000	60000	41400	60000	60000	60000	60000	60000	
Maximum roll moment 容许最大侧倾力矩	Nm	64000																						
Maximum axial load 容许最大轴向负载	N	140000																						
Nominal input speed 额定输入转速	rpm	1500									1500									1500				
Maximum input speed 最大输入转速	rpm	2000									2000									2000				
Backlash 回程间隙	P2	7									9									11				
	P1	5									7									9				
Noise 噪音	dB (A)	78									75									72				
Efficiency 效率	%	94%									91%									88%				
Rated thermal power 额定热功率	KW	38									25									20				
Use of temperature 使用环境温度	℃	-15℃~40℃																						
Service life 使用寿命	h	≥20000																						
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																						
Reference weight 参考重量	KG	345									390									420				

Size, speed ratio and performance are recommended and customized.

HDR series

More sophisticated

High rigidity



Nominal torque(Nm) diagram,for quick selection only.



Speed reducer performance data/

Parameters 参数	Stage 级数	Ratio 速比	Model 型号				
			HDR255	HDR285	HDR360	HDR420	HDR470
Nominal output torque 额定承载扭矩	L2	4	4000	6500			
		5	2464	3687			
		7	1920	2782			
		8	4000	6500	9028	15600	
		10	2464	3687	6694	11400	
		12	2063	3034	5554	9371	
		14	1920	2782	5271	8850	
		16	1574	2238	4335	7000	
	L3	20	4000	6500	12500	18000	30000
		25	2464	3687	6694	11400	20700
		28	4000	6500	11120	18000	30000
		32	4000	6500	12500	18000	30000
		40	4000	6500	12500	18000	30000
		48	4000	6500	12500	18000	30000
		50	2464	3687	6694	11400	20700
		56	3668	5812	11120	18000	30000
		64	2636	4080	8950	17340	28000
		80	2464	3687	6694	11400	20000
	L4	100	4000	6500	12500	18000	30000
		128	4000	6500	12500	18000	30000
		160	4000	6500	12500	18000	30000
		200	2464	6500	12500	18000	30000
		240		6500	12500	18000	30000
		280		6500	12500	18000	30000
		320		6500	12500	18000	30000
		384		6500	12500	18000	30000
	L5	512		6500	12500	18000	30000
		640		6500	12500	18000	30000
		800		6500	12500	18000	30000
		1000		6500	12500	18000	30000
		1120		6500	12500	18000	30000
		1200		6500	12500	18000	30000
		1280		6500	12500	18000	30000
所列速比仅为部分型号，如需其它请联系工厂。							
Maximum output torque 最大承载扭矩	Nm		See the schedule of each model for details 详见各型号附表				
Maximum roll moment 容许最大侧倾力矩	Nm		6500	9500	22000	30000	64000
Maximum axial load 容许最大轴向负载	N		33000	50000	90000	100000	140000
Nominal input speed 额定输入转速	rpm		See the schedule of each model for details 详见各型号附表				
Maximum input speed 最大输入转速	rpm		See the schedule of each model for details 详见各型号附表				
Backlash 回程间隙	arcmin		See the schedule of each model for details 详见各型号附表				
Noise 噪音	dB (A)		See the schedule of each model for details 详见各型号附表				
Efficiency 效率	L2		See the schedule of each model for details 详见各型号附表				
Use of temperature 使用环境温度	℃		-15℃~40℃				
Service life 使用寿命	h		≥20000				
Lubrication 润滑			Grease or Lubricating oil 润滑脂或润滑油				
*Size, speed ratioand performance are recommended and customized. 尺寸、速比、性能皆为标准推荐，支持定制。							

*Size, speed ratio and performance are recommended and customized.
尺寸、速比、性能皆为标准推荐，支持定制。





HDR 255 L2 -10 - P2 - B5 / FI-

Model Size Stage Ratio i Precision Installation mode Input mode

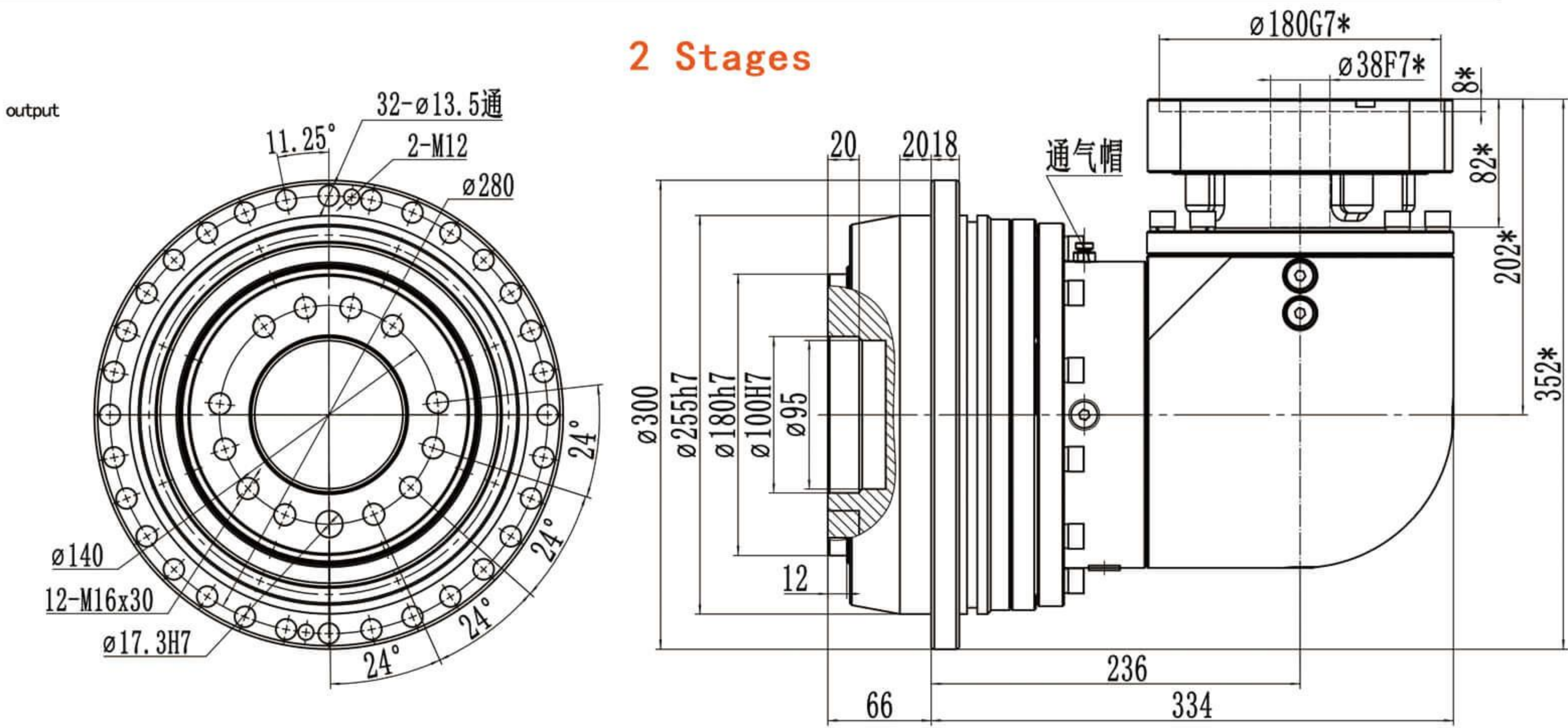


MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

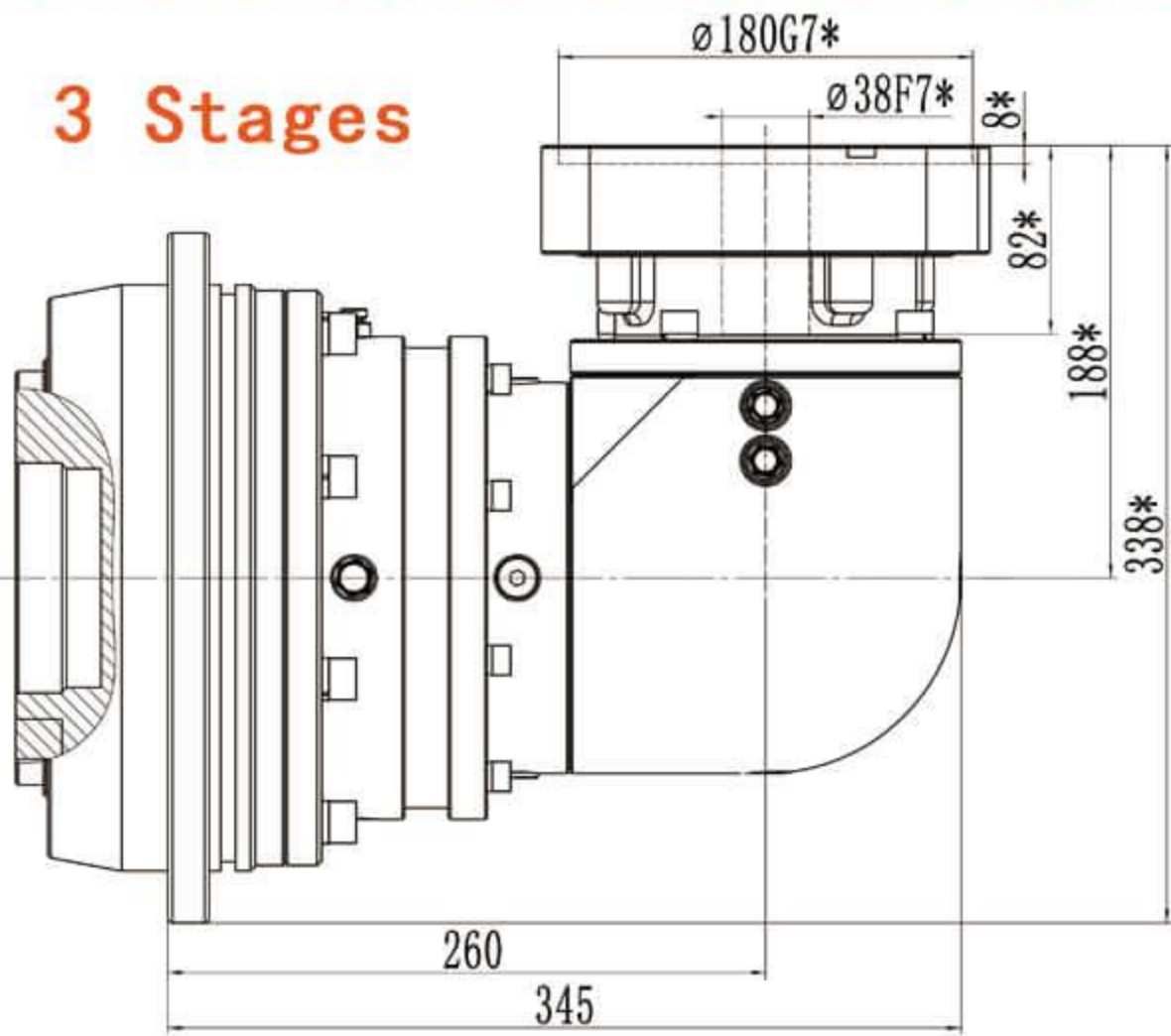
Outline dimension drawing of reducer/

2 Stages

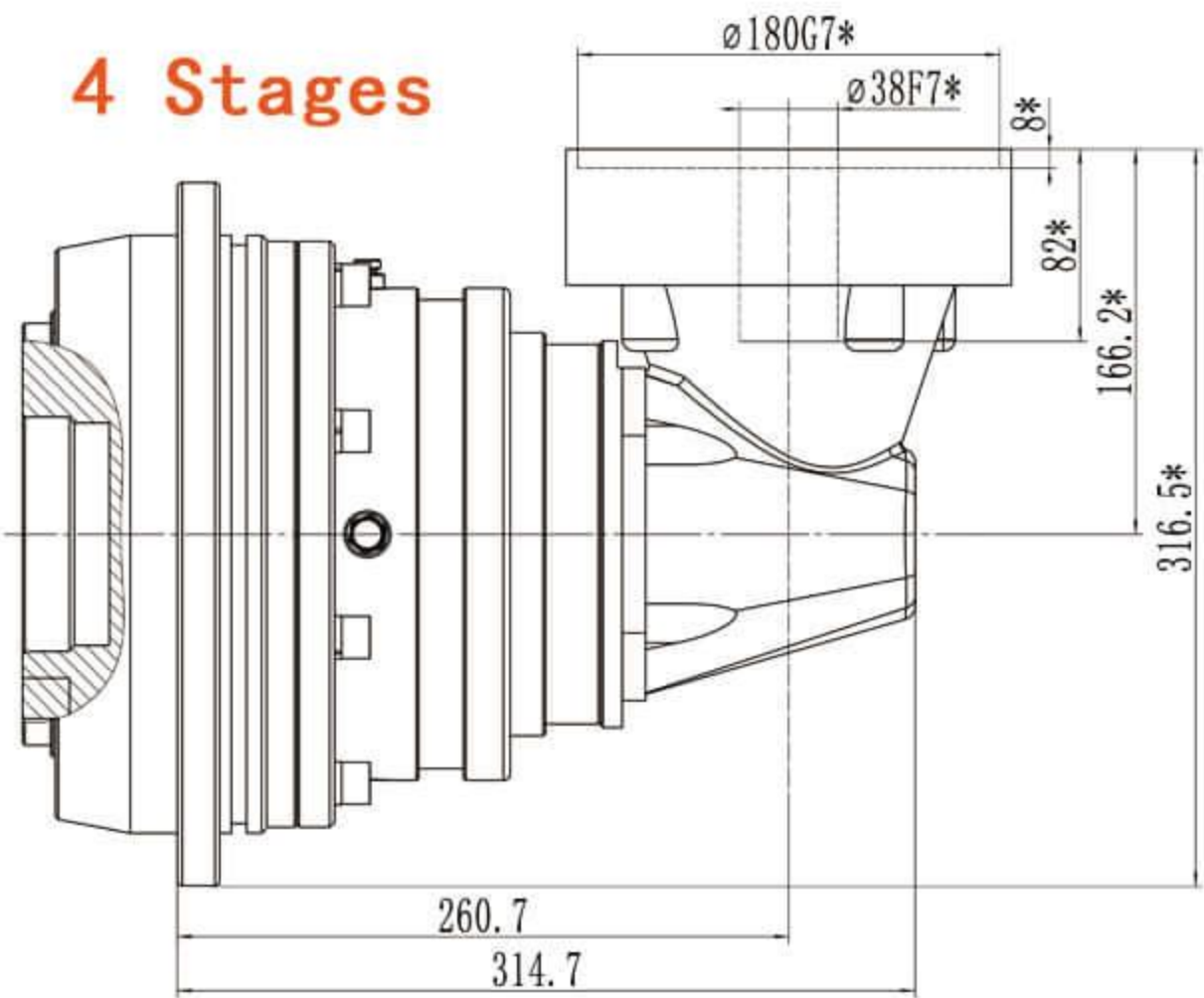


*The size of this class depends on the size of the motor
Vent cap、The oil mirror、Drain plug the position varies with the use and installation of the reducer

3 Stages



4 Stages



Performance parameter/

Ratio 速比		L2								L3										L4			
	i	4	5	7	8	10	12	14	16	20	25	28	32	40	48	50	56	64	80	100	128	160	200
Nominal output torque 额定承载扭矩	Nm	4000	2464	1920	4000	2464	2063	1920	1574	4000	2464	4000	4000	4000	4000	2464	3668	2636	2464	4000	4000	4000	2464
Maximum output torque 最大承载扭矩	Nm	8000	4928	3840	8000	4928	4126	3840	3148	8000	4928	8000	8000	8000	8000	4928	7336	5272	4928	8000	8000	8000	4928
Maximum roll moment 容许最大侧倾力矩	Nm	6500																					
Maximum axial load 容许最大轴向负载	N	33000																					
Nominal input speed 额定输入转速	rpm	1500								1500										1500			
Maximum input speed 最大输入转速	rpm	3000								3000										3000			
Backlash 回程间隙	P2	8								10										12			
	P1	6								8										10			
Noise 噪音	dB (A)	72								70										68			
Efficiency 效率	%	94%								91%										88%			
Rated thermal power 额定热功率	KW	12								8										4			
Use of temperature 使用环境温度	℃	-15℃~40℃																					
Service life 使用寿命	h	≥20000																					
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																					
Reference weight 参考重量	KG	90								83										88			

Size, speed ratio and performance are recommended and customized.



HDR 285 L2 - 10 - P2 - B5 / FI-

Model Size Stage Ratio i Precision Installation mode Input mode

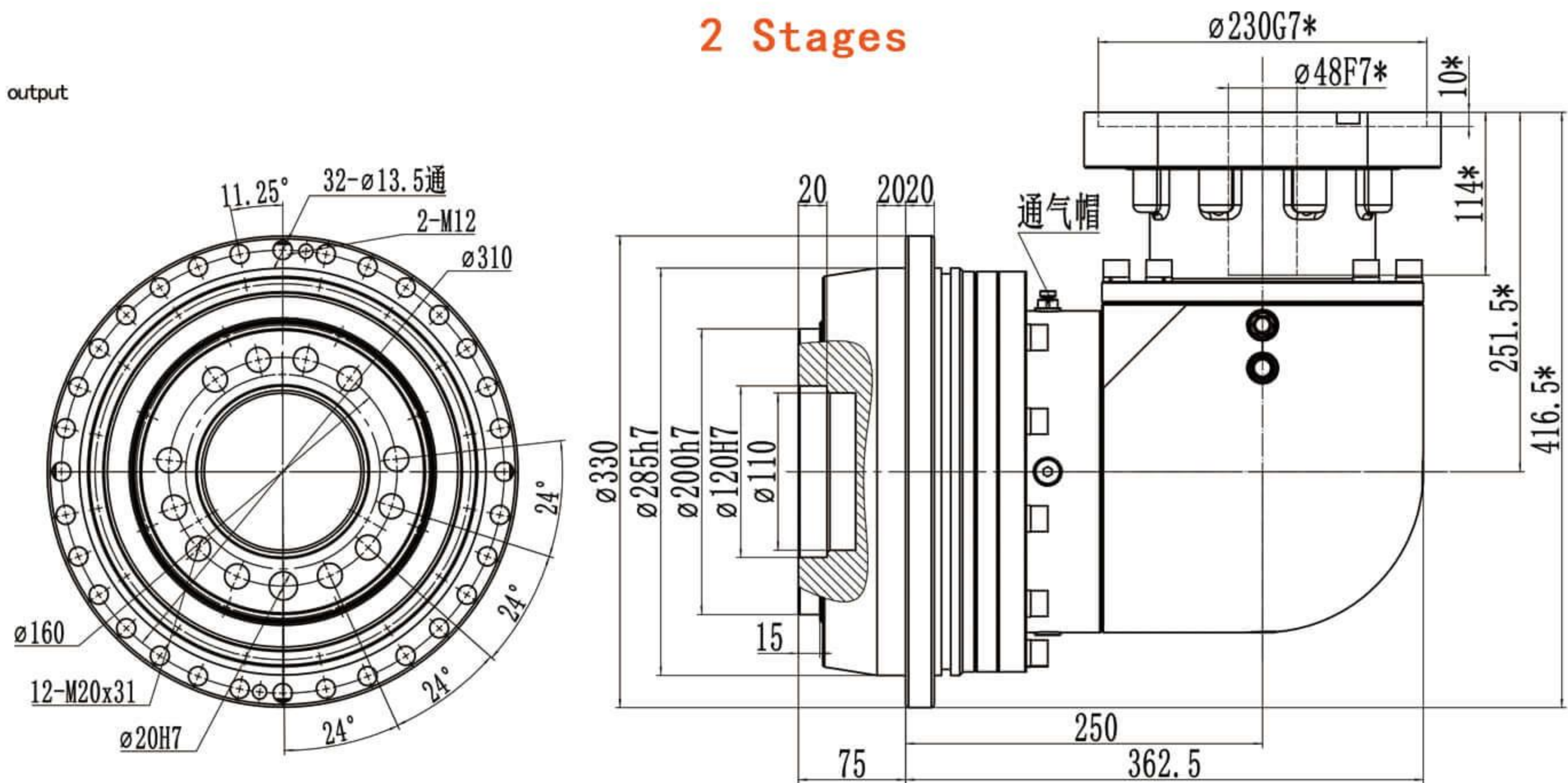


MOTOR SIZE

Servo motor, Stepper motor, Ac motor,
Dc motor, Hydraulic motor, Etc.

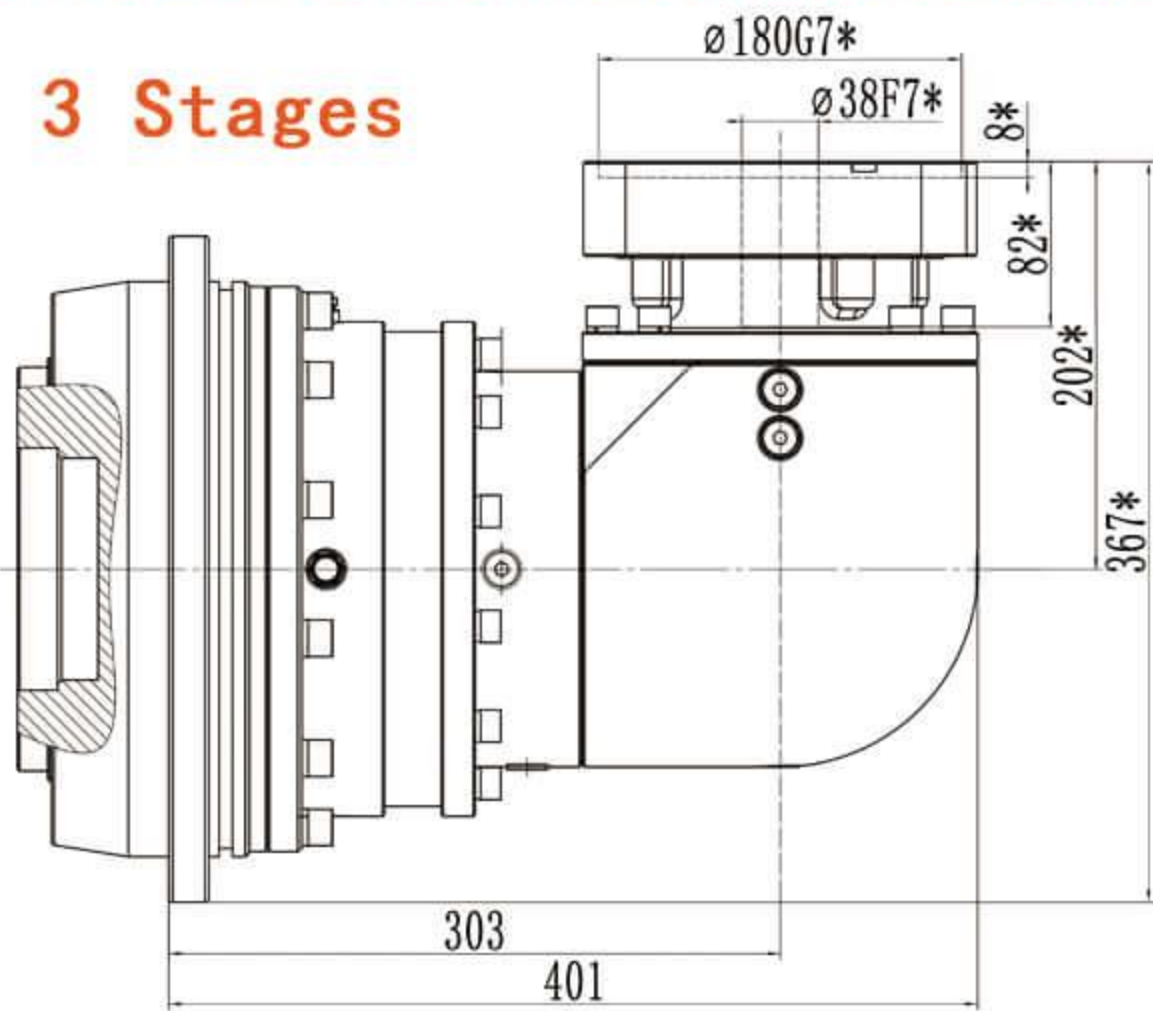
Outline dimension drawing of reducer/

2 Stages

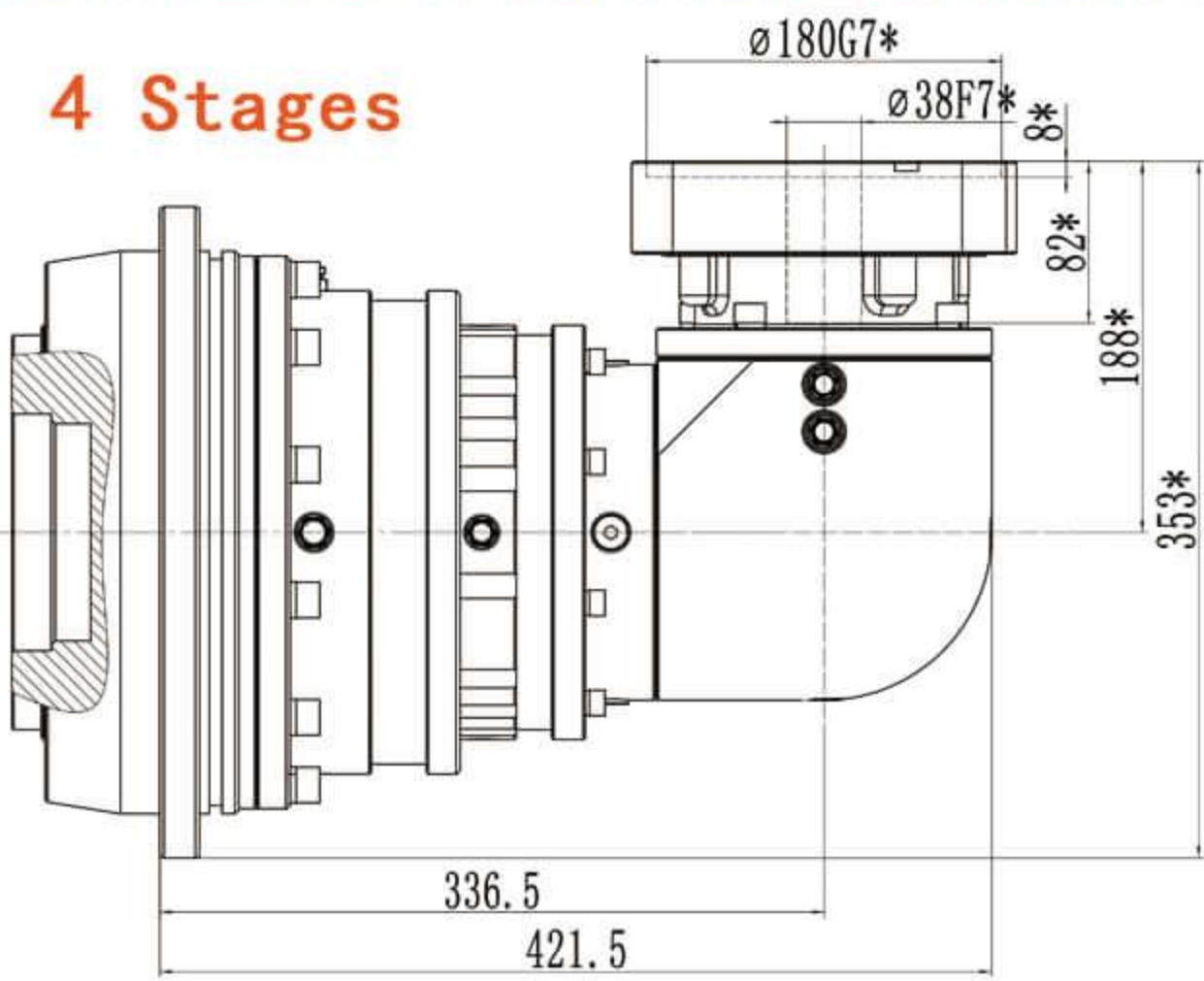


*The size of this class depends on the size of the motor
Vent cap, The oil mirror, Drain plug the position varies with the use and installation of the reducer

3 Stages



4 Stages



Performance parameter/

Ratio 速比		L2								L3								L4					
	i	4	5	7	8	10	12	14	16	20	25	28	32	40	48	50	56	64	80	100	128	160	200
Nominal output torque 额定承载扭矩	Nm	6500	3687	2782	6500	3687	3034	2782	2238	6500	3687	6500	6500	6500	6500	3687	5812	4080	3687	6500	6500	6500	6500
Maximum output torque 最大承载扭矩	Nm	13000	7374	5564	13000	7374	6068	5564	4476	13000	7374	13000	13000	13000	13000	7374	11624	8160	7374	13000	13000	13000	13000
Maximum roll moment 容许最大侧倾力矩	Nm	9500																					
Maximum axial load 容许最大轴向负载	N	50000																					
Nominal input speed 额定输入转速	rpm	1500								1500								1500					
Maximum input speed 最大输入转速	rpm	2000								3000								3000					
Backlash 回程间隙	P2	8								10								12					
	P1	6								8								10					
Noise 噪音	dB (A)	72								70								68					
Efficiency 效率	%	94%								91%								88%					
Rated thermal power 额定热功率	KW	18								12								8					
Use of temperature 使用环境温度	℃	-15℃~40℃																					
Service life 使用寿命	h	≥20000																					
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																					
Reference weight 参考重量	KG	120								115								120					

Size, speed ratio and performance are recommended and customized.



HDR 360 L3 -40 - P2 - B5 / FI-

Model Size Stage Ratio i Precision Installation mode Input mode

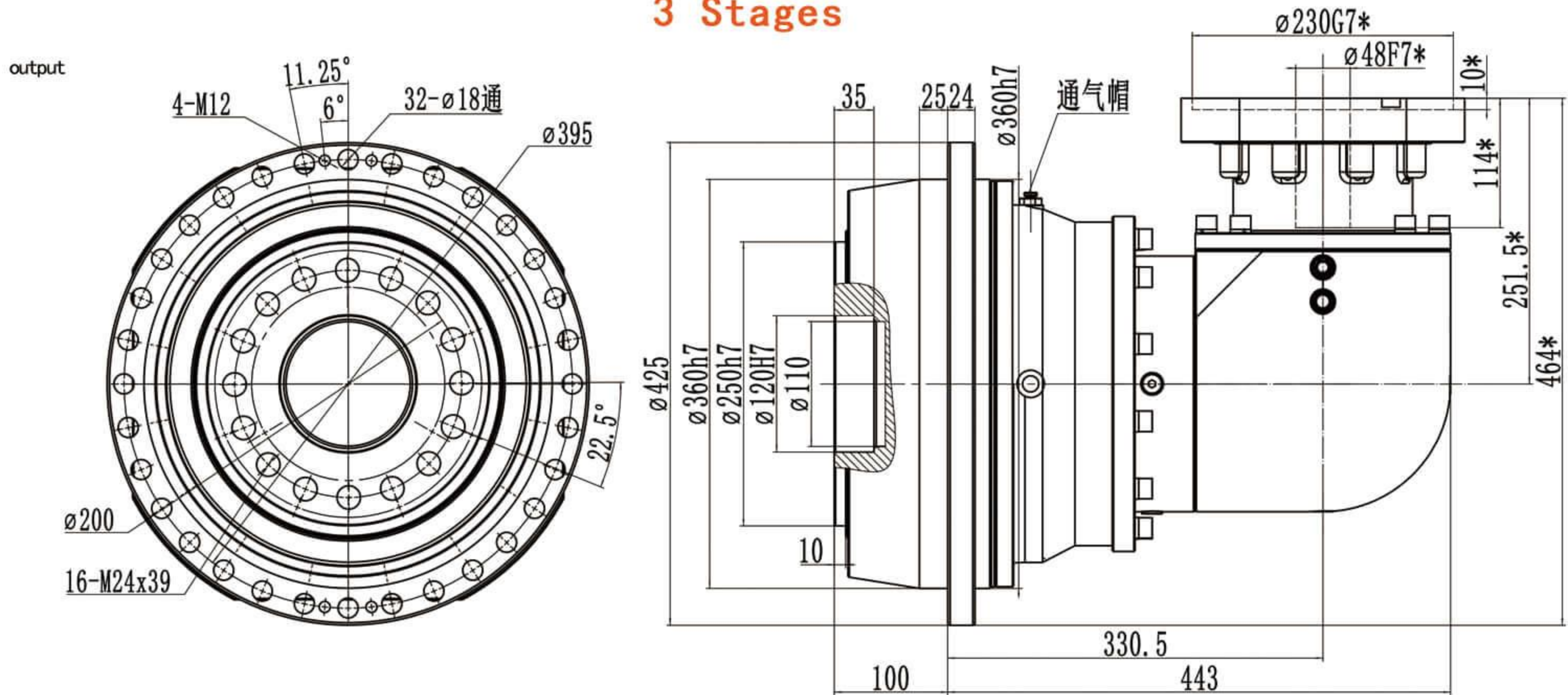


MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

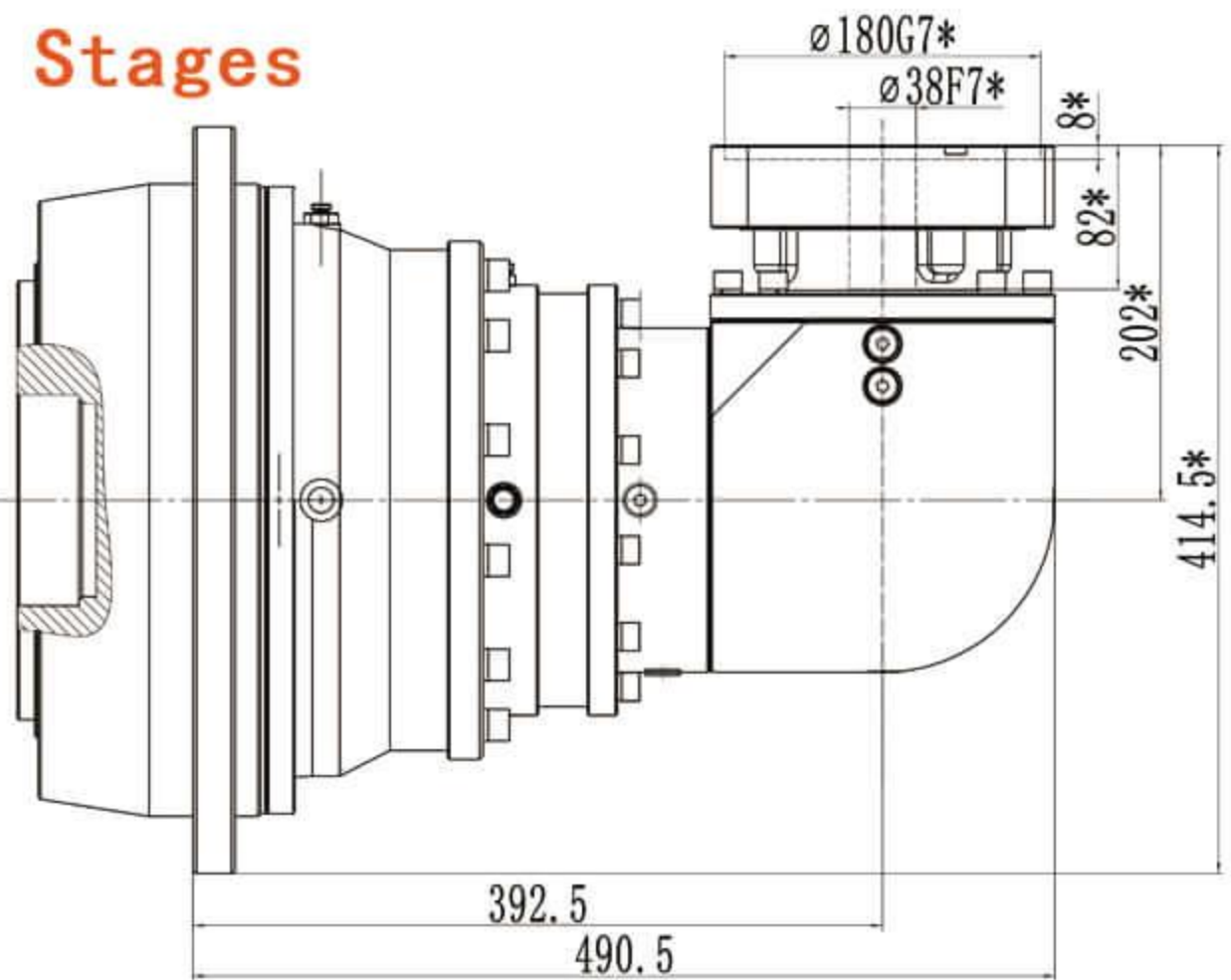
Outline dimension drawing of reducer/

3 Stages



* The size of this class depends on the size of the motor
Vent cap、The oil mirror、Drain plug the position varies with the use and installation of the reducer

4 Stages



Performance parameter/

Ratio 速比		L2					L3										L4							
	i	8	10	12	14	16	20	25	28	32	40	48	50	56	64	80	100	128	160	200	240	280	320	
Nominal output torque 额定承载扭矩	Nm	9028	6694	5554	5271	4335	12500	6694	12500	12500	12500	12500	6694	11120	8950	6694	12500	12500	12500	12500	12500	12500	12500	
Maximum output torque 最大承载扭矩	Nm	18056	13388	11108	10542	8670	25000	13388	25000	25000	25000	25000	13388	22240	17900	13388	25000	25000	25000	25000	25000	25000	25000	
Maximum roll moment 容许最大侧倾力矩	Nm	22000																						
Maximum axial load 容许最大轴向负载	N	90000																						
Nominal input speed 额定输入转速	rpm	1500					1500										1500							
Maximum input speed 最大输入转速	rpm	2000					2000										2000							
Backlash 回程间隙	P2	10					12										14							
	P1	8					10										12							
Noise 噪音	dB (A)	75					72										70							
Efficiency 效率	%	94%					91%										88%							
Rated thermal power 额定热功率	KW	23					15										10							
Use of temperature 使用环境温度	℃	-15℃~40℃																						
Service life 使用寿命	h	≥20000																						
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																						
Reference weight 参考重量	KG	200					200										220							

Size, speed ratio and performance are recommended and customized.



HDR 420 L3 - 40 - P2 - B5 / FI-

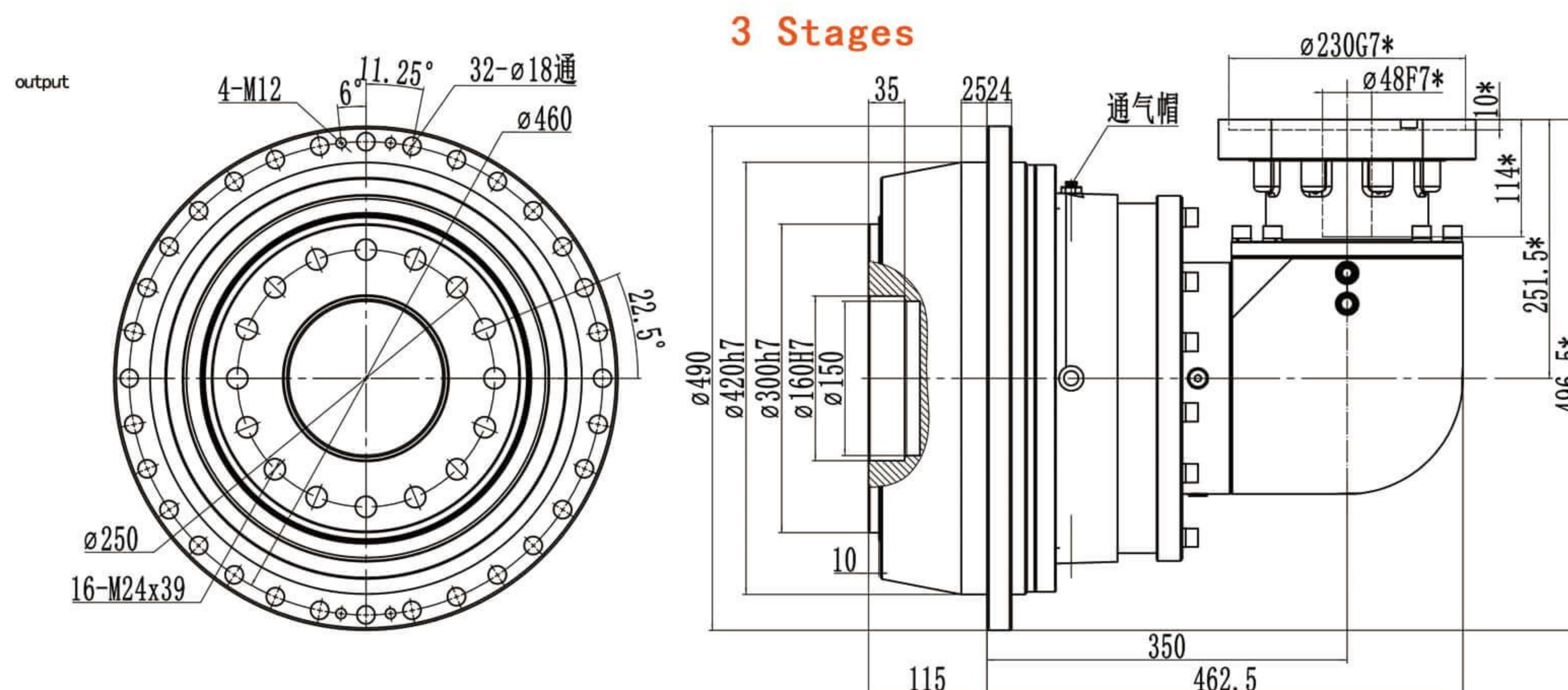
Model Size Stage Ratio i Precision Installation mode Input mode



MOTOR SIZE

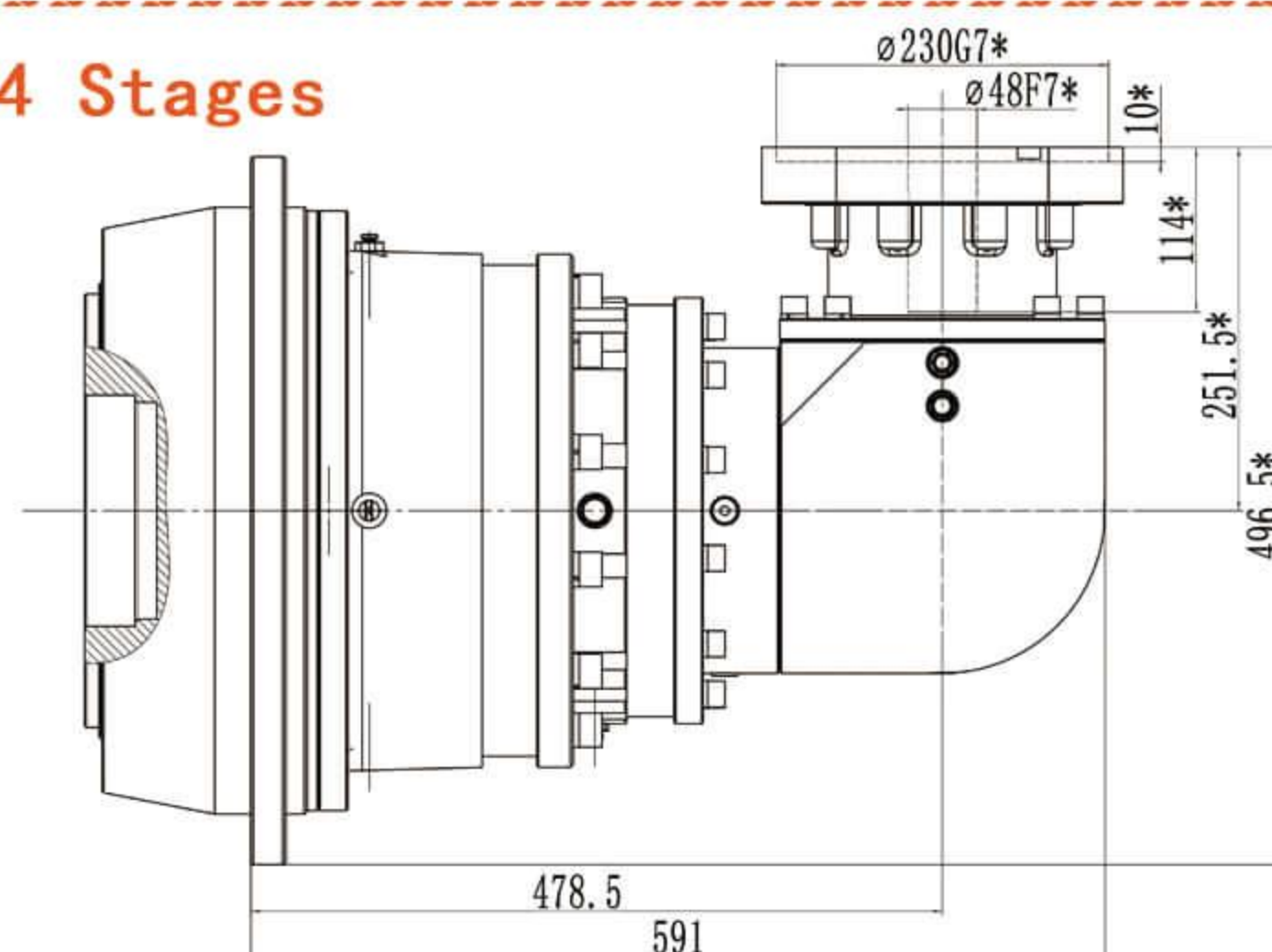
Servo motor, Stepper motor, Ac motor,
Dc motor, Hydraulic motor, Etc.

Outline dimension drawing of reducer/



*The size of this class depends on the size of the motor
Vent cap, The oil mirror, Drain plug the position varies with the use and installation of the reducer

4 Stages



Performance parameter/

Ratio 速比		L2					L3										L4							
	i	8	10	12	14	16	20	25	28	32	40	48	50	56	64	80	100	128	160	200	240	280	320	
Nominal output torque 额定承载扭矩	Nm	15600	11400	9371	8850	7000	18000	11400	18000	18000	18000	18000	11400	18000	17340	11400	18000	18000	18000	18000	18000	18000	18000	
Maximum output torque 最大承载扭矩	Nm	31200	22800	18742	17700	14000	36000	22800	36000	36000	36000	36000	22800	36000	34680	22800	36000	36000	36000	36000	36000	36000	36000	
Maximum roll moment 容许最大侧倾力矩	Nm	30000																						
Maximum axial load 容许最大轴向负载	N	100000																						
Nominal input speed 额定输入转速	rpm	1500					1500										1500							
Maximum input speed 最大输入转速	rpm	2000					2000										2000							
Backlash 回程间隙	P2	10					12										14							
	P1	8					10										12							
Noise 噪音	dB (A)	75					72										70							
Efficiency 效率	%	94%					91%										88%							
Rated thermal power 额定热功率	KW	30					22										15							
Use of temperature 使用环境温度	℃	-15℃~40℃																						
Service life 使用寿命	h	≥20000																						
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																						
Reference weight 参考重量	KG	270					300										330							

Size, speed ratio and performance are recommended and customized.



HDR 470 L4 -200 - P2 - B5 / FI-

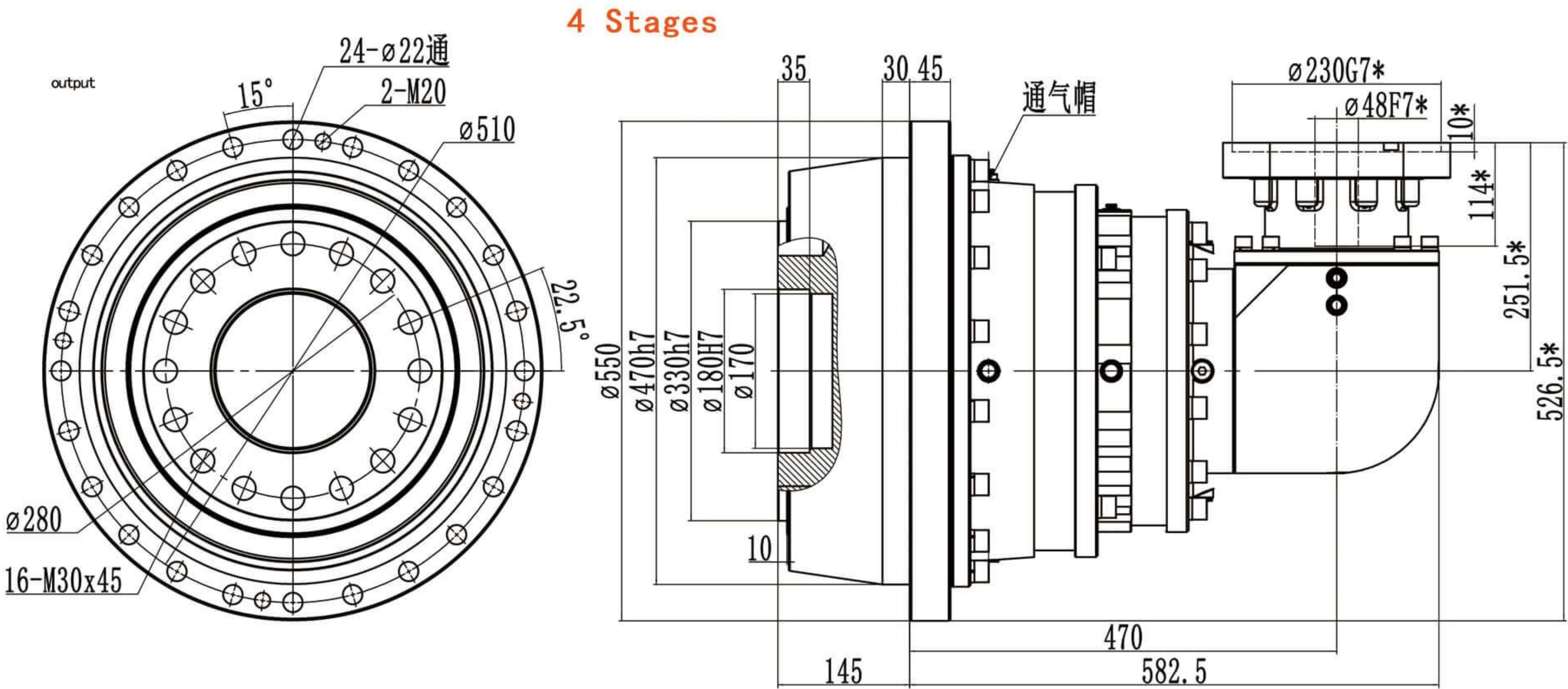
Model Size Stage Ratio i Precision Installation mode Input mode



MOTOR SIZE

Servo motor,Stepper motor,Ac motor,
Dc motor,Hydraulic motor,Etc.

Outline dimension drawing of reducer/



* The size of this class depends on the size of the motor
Vent cap、The oil mirror、Drain plug the position varies with the use and installation of the reducer

Performance parameter/

Ratio 速比		L3										L4								L5			
	i	20	25	28	32	40	48	50	56	64	80	100	128	160	200	240	280	320	384	512	640	800	1000
Nominal output torque 额定承载扭矩	Nm	30000	20700	30000	30000	20000	30000	20700	30000	28000	20000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000
Maximum output torque 最大承载扭矩	Nm	60000	41400	60000	60000	40000	60000	41400	60000	56000	40000	60000	60000	60000	60000	60000	60000	60000	60000	60000	60000	60000	60000
Maximum roll moment 容许最大侧倾力矩	Nm	64000																					
Maximum axial load 容许最大轴向负载	N	140000																					
Nominal input speed 额定输入转速	rpm	1500										1500								1500			
Maximum input speed 最大输入转速	rpm	2000										2000								2000			
Backlash 回程间隙	P2	10										12								14			
	P1	8										10								12			
Noise 噪音	dB (A)	75										72								72			
Efficiency 效率	%	91%										88%								85%			
Rated thermal power 额定热功率	KW	25										20								15			
Use of temperature 使用环境温度	℃	-15℃~40℃																					
Service life 使用寿命	h	≥20000																					
Lubrication 润滑		Grease or Lubricating oil 润滑脂或润滑油																					
Reference weight 参考重量	KG	390										430								460			

Size, speed ratio and performance are recommended and customized.