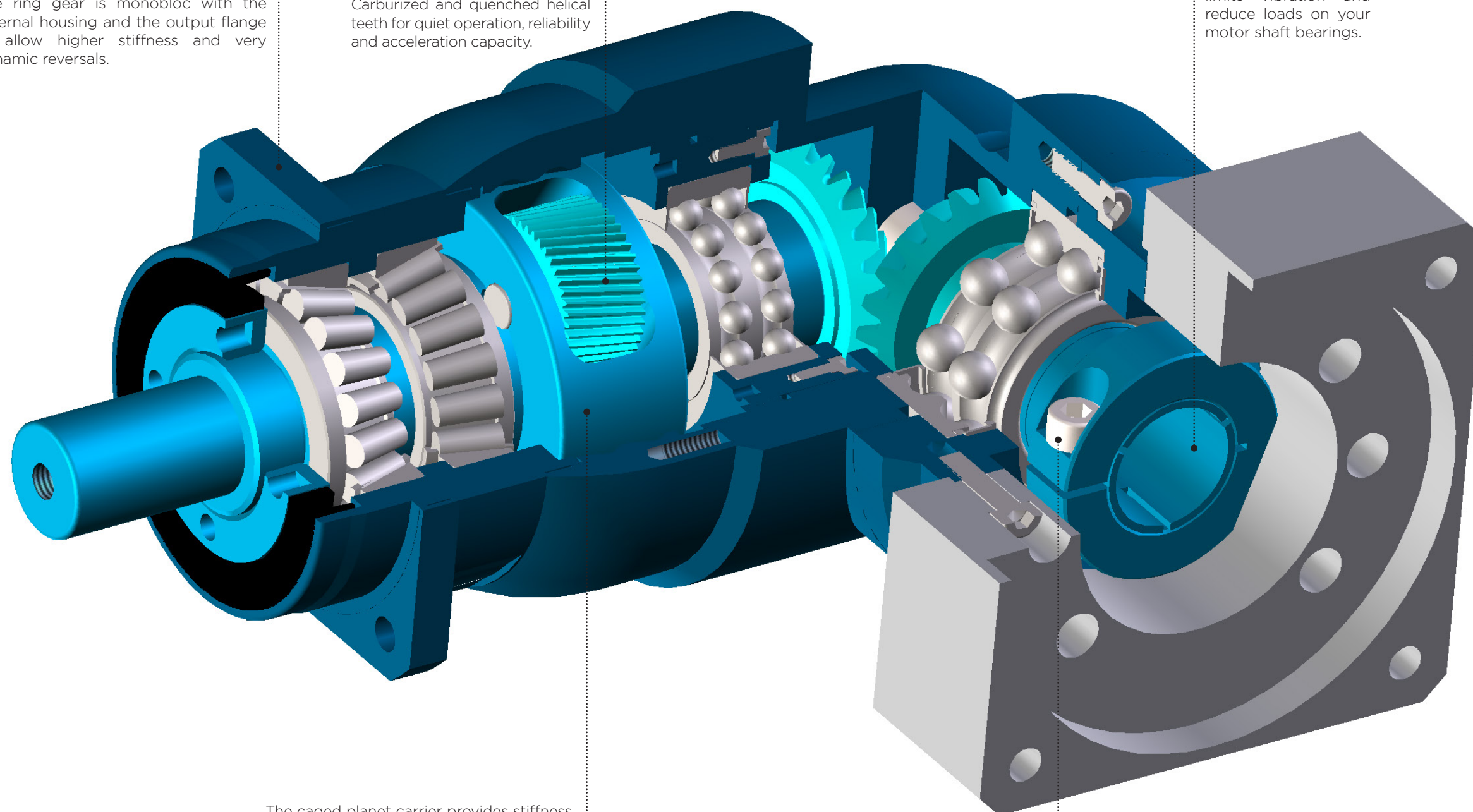


X-TREME-SQ-RA_ Internal construction

The ring gear is monobloc with the external housing and the output flange to allow higher stiffness and very dynamic reversals.

Carburized and quenched helical teeth for quiet operation, reliability and acceleration capacity.

The balanced coupling limits vibration and reduce loads on your motor shaft bearings.



The caged planet carrier provides stiffness, reliability and acceleration capacity to the gearbox.

The caged planet carrier prevents the planets from tilting.

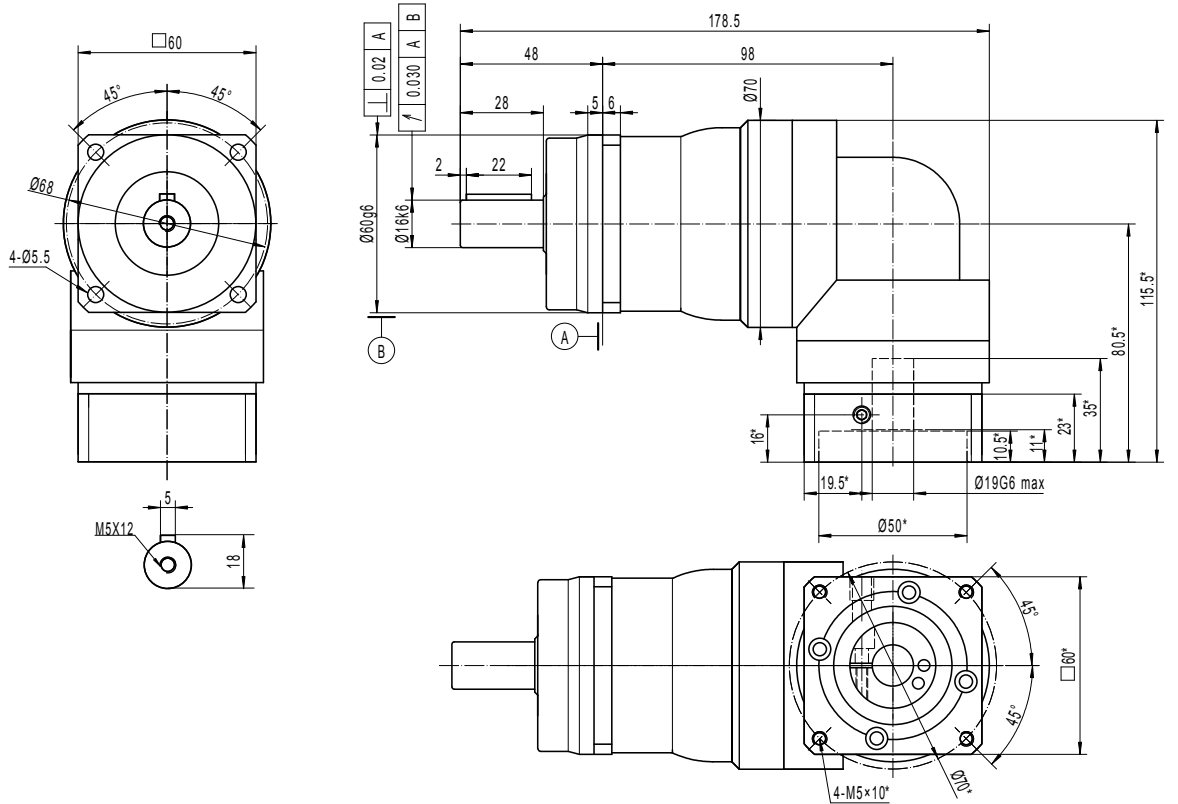
Easy and safe, 1-screw installation to your motor shaft.

	Ratio**	X-TREME-SQ-RA									
		060-P*	075-R*	075-P*	100-R*	100-P*	140-R*	140-P*	180-R*		
Nominal torque ¹ T _{2N} (Nm)	3	29		102		231		384	1,370		
	4	42		154		244		407	1,888		
	5	33		120		190		438	1,475		
	5,5	44		164		260		590	2,005		
	6	27		81		179		440	1,480		
	7	30		108		203		465	1,570		
	8	18		55		164		408	1,468		
	9	16		47		137		353	1,280		
	10	18		66		147		308	1,140		
	12	29	65	102	203	231	283	384	573		
	15	29	68	102	210	231	295	384	822		
	16	42	86	154	244	244	377	407	764		
	20	42	90	154	244	244	393	407	1,096		
	21	29	51	102	137	231	269	384	720		
	22	44	118	164	260	260	518	590	1,051		
	25	33	113	120	190	190	438	438	1,370		
	27,5	44	124	164	260	260	540	590	1,507		
	28	42	68	154	183	244	359	407	960		
	30	27	81	81	179	179	440	440	1,480		
	35	33	85	120	190	190	438	438	1,200		
	38,5	44	94	164	252	260	494	590	1,320		
	40	39	40	113	113	218	218	407	577		
	42	27	81	81	179	179	440	440	1,440		
	49	30	108	108	203	203	465	465	1,570		
	50	33	49	120	141	190	273	438	721		
	55	44	54	164	156	260	300	590	794		
	60	27	59	81	170	179	327	440	866		
	70	30	69	108	198	203	382	465	1,010		
	80	18	55	55	164	164	408	408	1,154		
	90	16	47	47	137	137	353	353	1,280		
	100	18	66	66	147	147	308	308	1,140		
Peak torque ² T _{max} (Nm)	3	64		200		378		628	2,635		
	4	77		190		488		810	3,515		
	5	55		170		380		870	2,945		
	5,5	73		235		500		1,100	3,630		
	6	38		114		327		815	2,700		
	7	54		161		379		804	2,695		
	8	37		111		322		765	2,550		
	9	36		104		305		728	2,450		
	10	50		157		353		715	2,445		
	12	64	92	200	242	378	502	628	1,143		
	15	64	86	200	206	378	477	628	1,343		
	16	77	122	190	322	488	669	810	1,524		
	20	77	115	190	275	488	636	810	1,791		
	21	64	85	200	212	378	457	628	1,238		
	22	73	168	235	443	500	920	1,100	2,095		
	25	55	144	170	344	380	795	870	2,238		
	27,5	73	158	235	378	500	875	1,100	2,462		
	28	77	113	190	282	488	609	810	1,651		
	30	38	114	114	327	327	815	815	2,686		
	35	55	141	170	353	380	762	870	2,064		
	38,5	73	155	235	388	500	838	1,100	2,270		
	40	77	109	190	259	488	560	810	1,480		
	42	38	114	114	327	327	815	815	2,476		
	49	54	161	161	379	379	804	804	2,695		
	50	55	136	170	324	380	700	870	1,850		
	55	73	150	235	356	500	770	1,100	2,035		
	60	38	114	114	327	327	815	815	2,220		
	70	54	161	161	379	379	804	804	2,590		
	80	37	111	111	322	322	765	765	2,550		
	90	36	104	104	305	305	728	728	2,450		
	100	50	157	157	353	353	715	715	2,445		
Emergency stop torque ³ (Nm)		1,5 x T _{max}									
Max angular backlash (minutes)	1 stage	Standard : ≤8		Standard : ≤8 ; Option : ≤4							
	2 stages	Option : ≤6		Standard : ≤8 ; Option : ≤6							
Nominal input speed (rpm) ⁴		4,000		3,100		2,800		2,600		2,000	
Max input speed (rpm) ⁵		7,500		6,000		5,500		5,000		4,500	
Max radial load (N) ⁶		2,800		4,150		6,600		9,900		15,400	
Max axial load (N) ⁶		2,400		3,350		5,650		9,870		15,570	
Efficiency (%) ⁷	1 stage	≥94									
	2 stages	≥92									
Torsional stiffness (Nm/min)		4		13		34		54		210	
Life (h) ⁸		20,000									
Min / max ambient temperature ⁹		-15 / +45									
Max temperature of the body (°C)		90									
Protection class		IP 65									
Noise level (dB) ¹⁰		≤70		≤70		≤74		≤78		≤82	
Lubrication		Lifetime lubrication (grease)									
Coating color		Capri blue (RAL 5019)									
Input flange		Anodized aluminum									

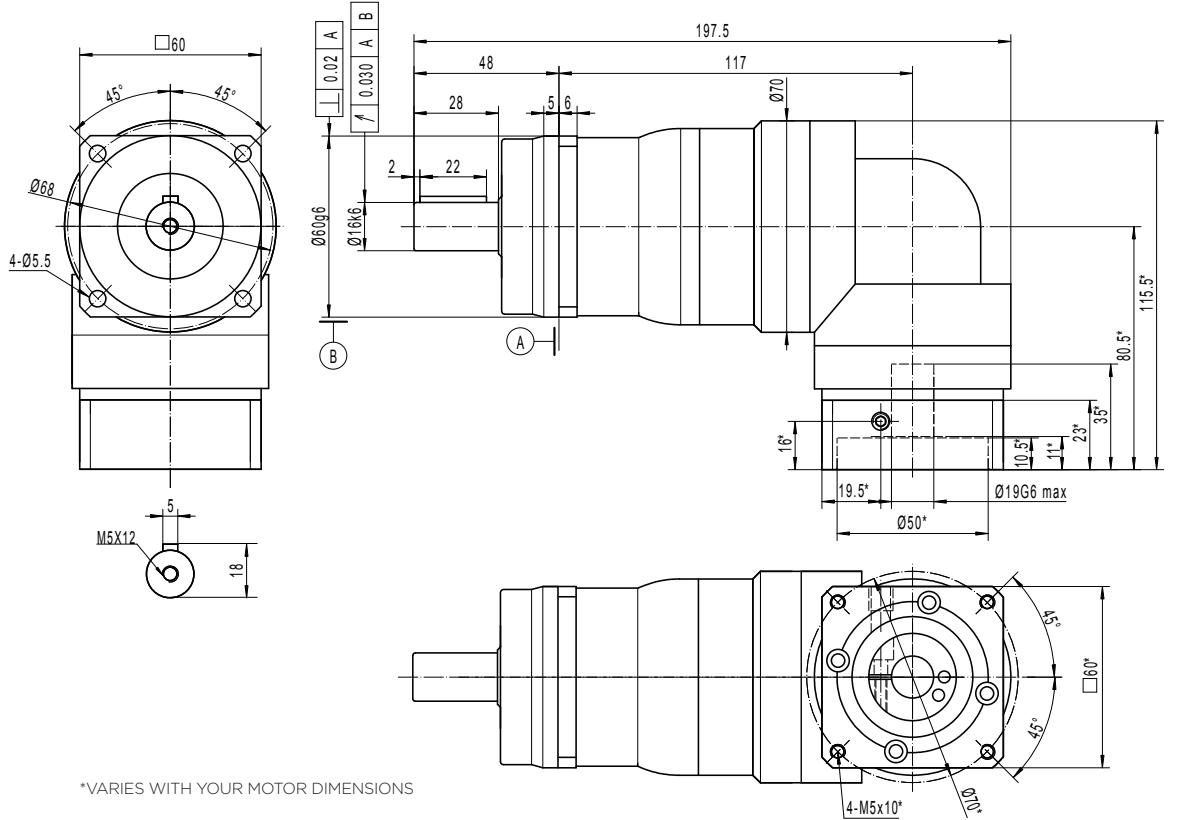
* 2 stage-gearboxes, can be equipped with a light, space-saving, low inertia input stage (R) or with a larger input stage (P), offering more power (as a paying option).
** Others ratios are available upon request.

1: Calculation based on the ISO 6336-2 standard (life = 20,000 h, speed = nominal speed, internal temperature = 60°C, Application Factor = 1,25).
Using max 10% of the max radial load. Torque capacity decreases when the radial load increases. Please refer to the website for more information
2: Calculation based on the ISO 6336-2 standard (life = 2,000 h, speed = nominal speed, internal temperature = 60°C, Safety Factor = 1,4).
This rating will not provide a 2 000 hours life if used at max speed. Contact us to get an estimation of the product lifetime in your application.
Using a torque higher than the rated torque may affect the gearbox precision.
3: 1 000 occurrences maximum.
4: Speed at which the nominal torque is applicable 20,000 hours.
5: Peak speed only.
6: Applied at the middle of the output shaft at 100 rpm.
7: Measured at full load and at 25°C
8: Lifetime at nominal torque and speed. Consult us to obtain a free estimation of lifetime in your working conditions
9: Room temperature. Refer to temperature factors in dedicated section.
10: Ratio 10 at nominal speed, measured at 1m.

X-TREME-SQ-RA-060- 1 STAGE - RATIOS 3 TO 10 FOR MOTOR SHAFT ≤ Ø19

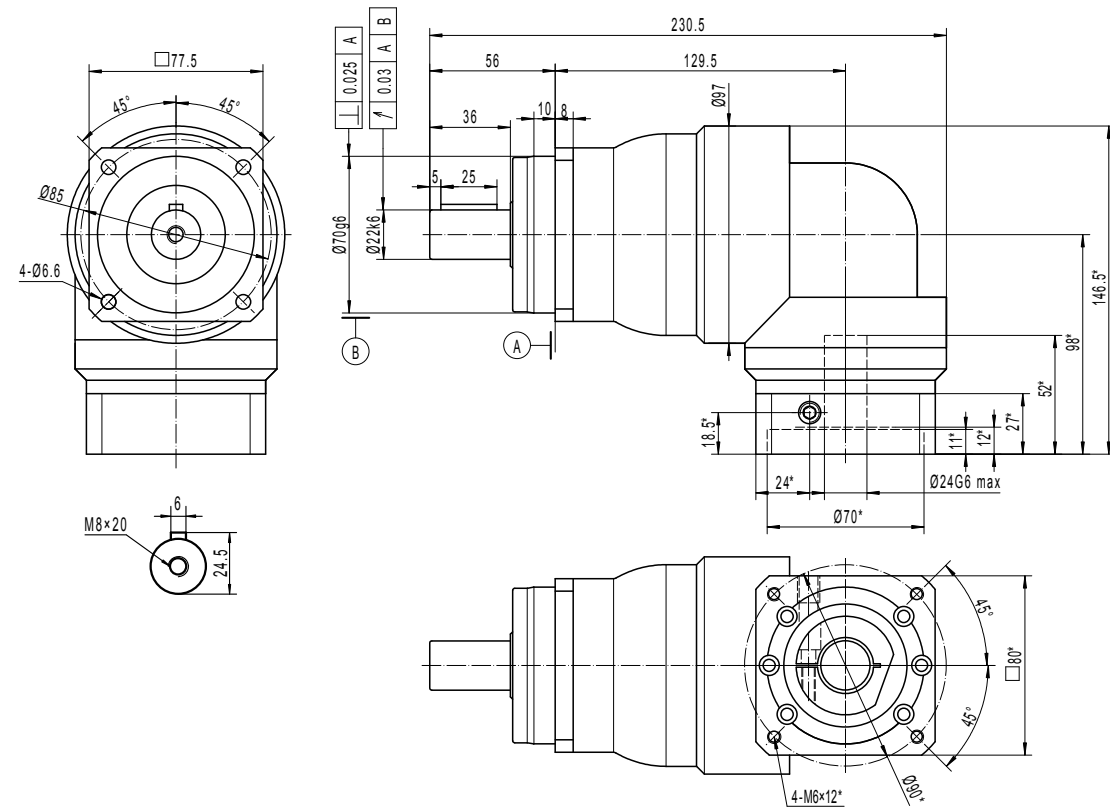


X-TREME-SQ-RA-060- 2 STAGES-P - RATIOS 12 TO 100 FOR MOTOR SHAFT ≤ Ø19

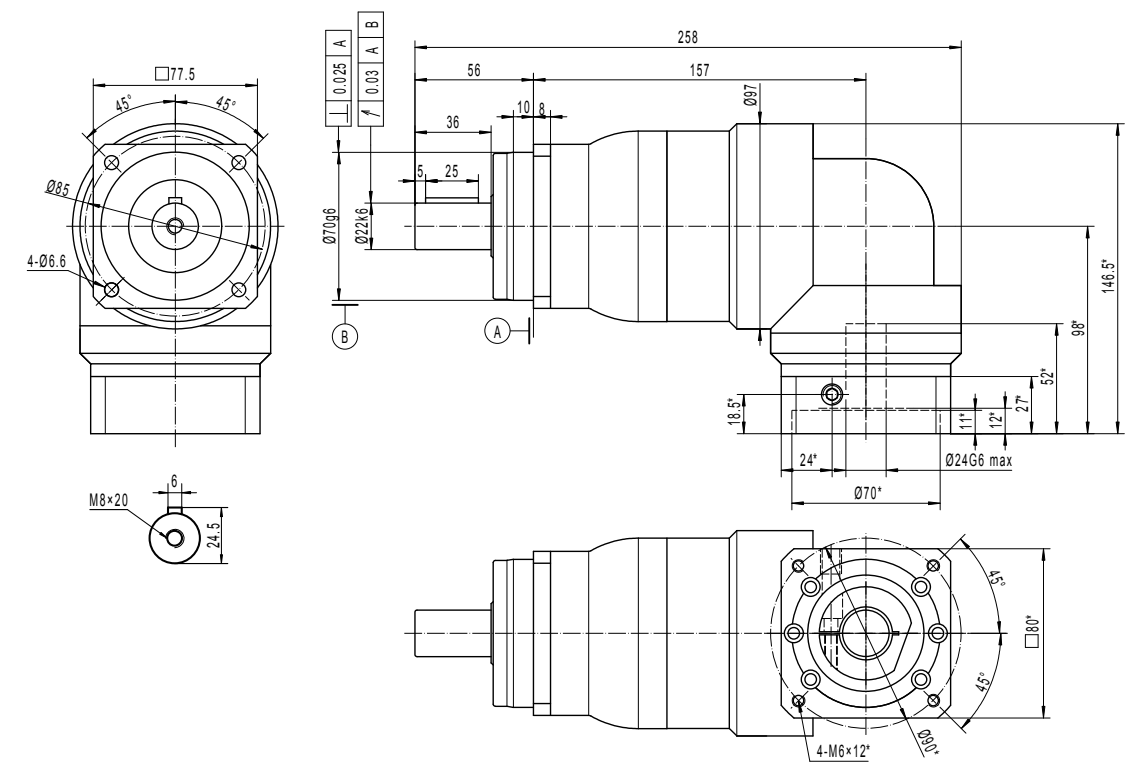


*VARIES WITH YOUR MOTOR DIMENSIONS

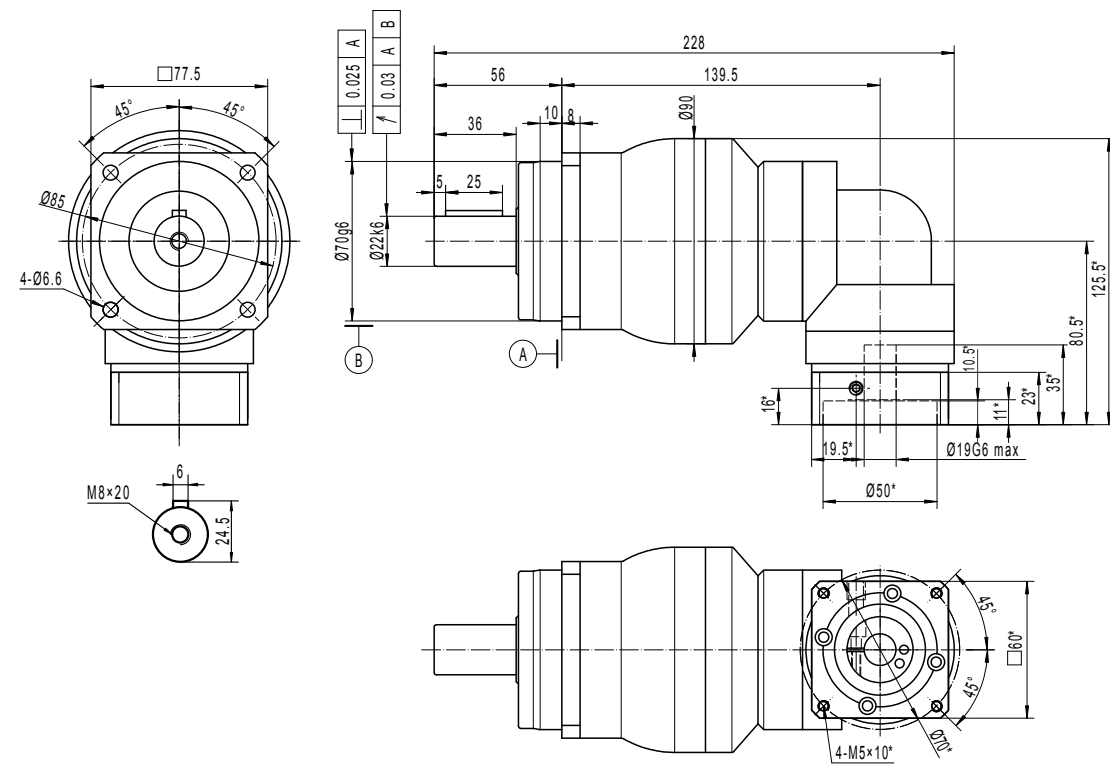
X-TREME-SQ-RA-075- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 24$



X-TREME-SQ-RA-075- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 24$

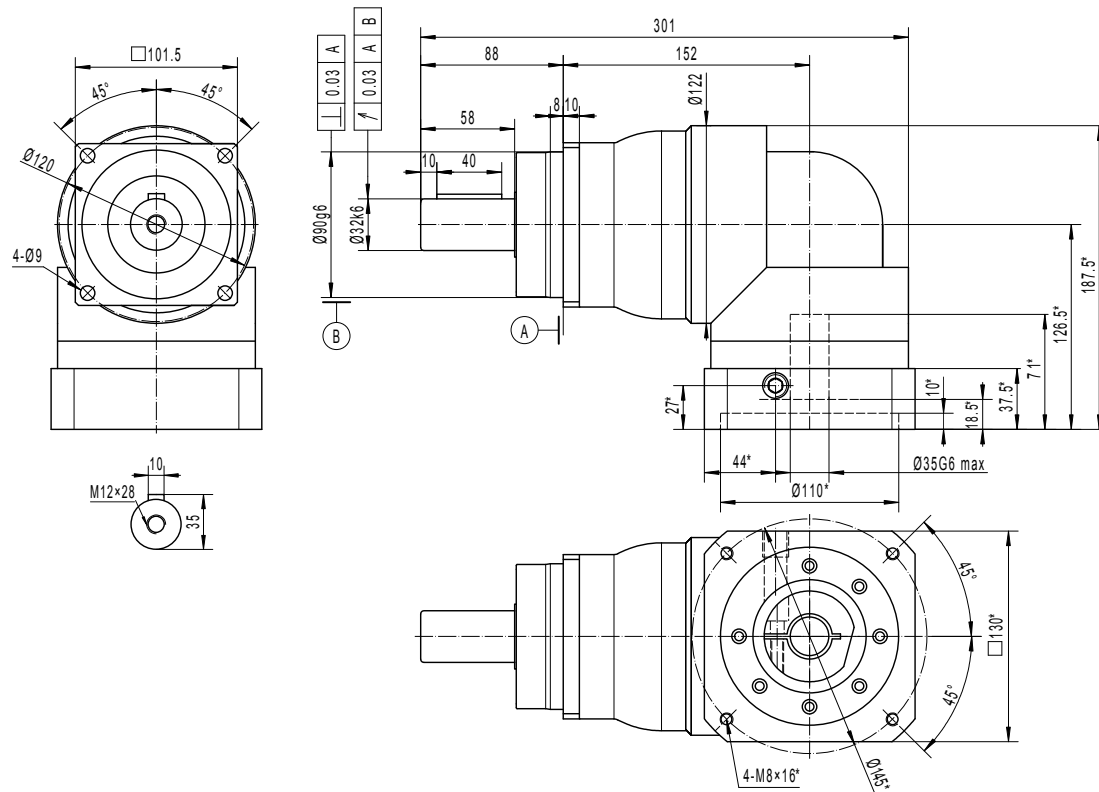


X-TREME-SQ-RA-075- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 19$

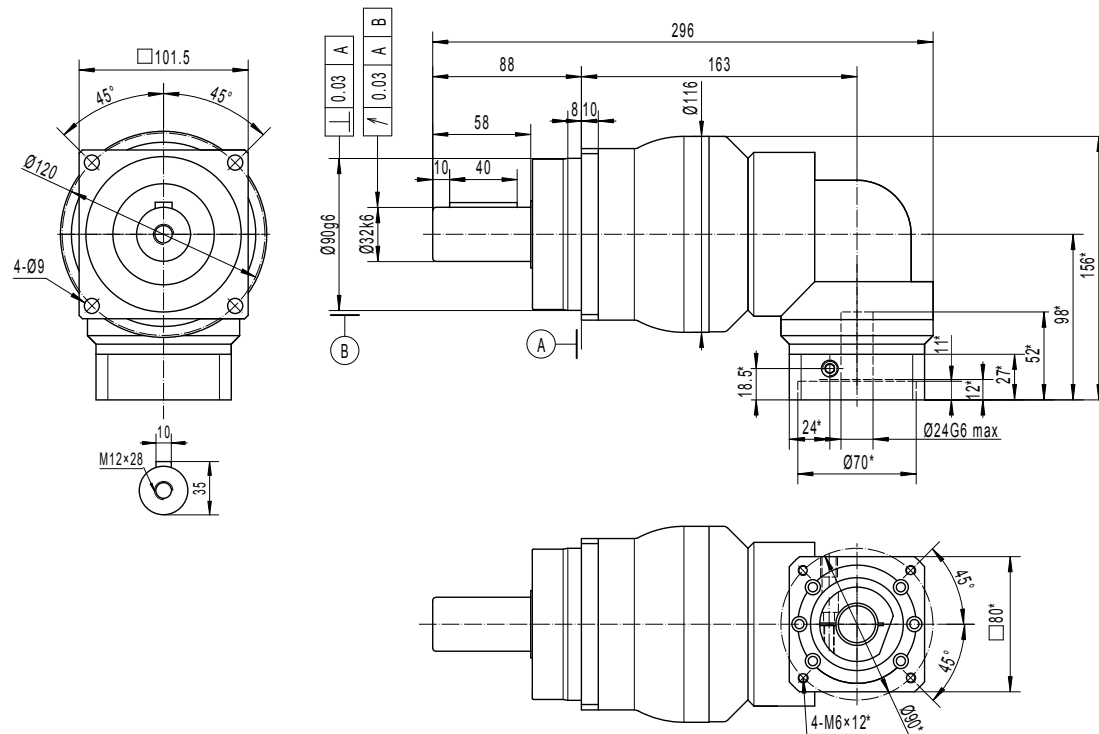


*VARIES WITH YOUR MOTOR DIMENSIONS

X-TREME-SQ-RA-100- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 35$

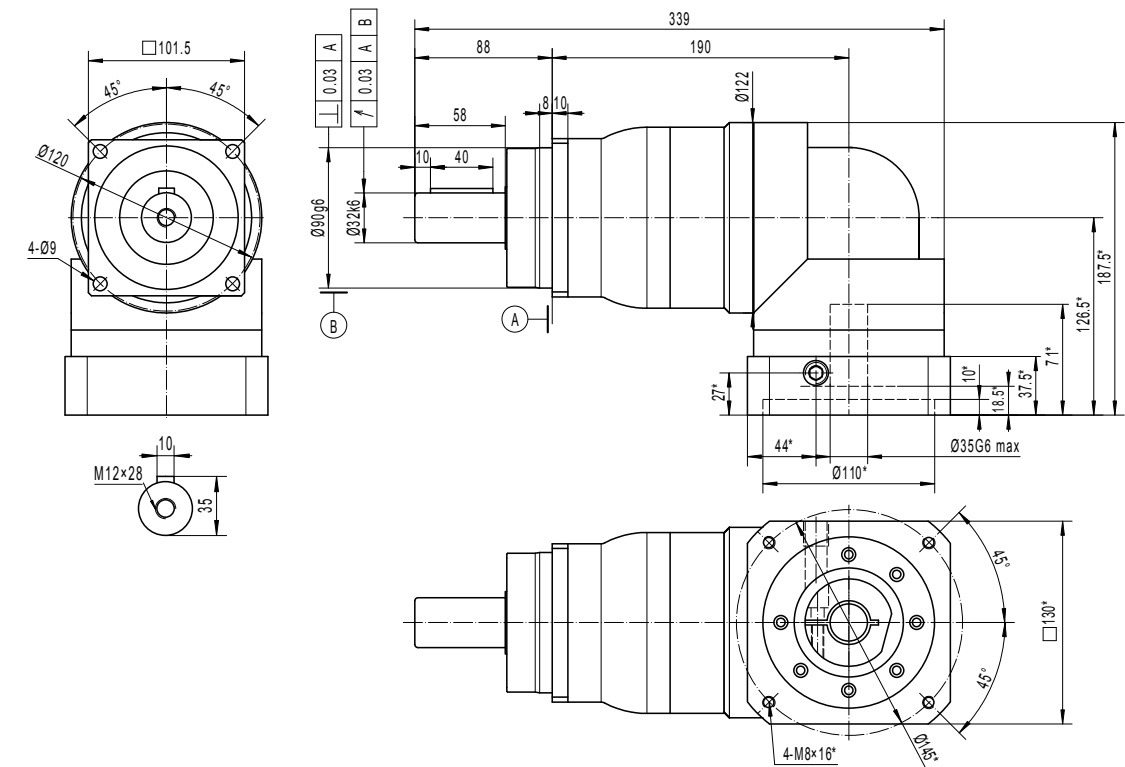


X-TREME-SQ-RA-100- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 24$



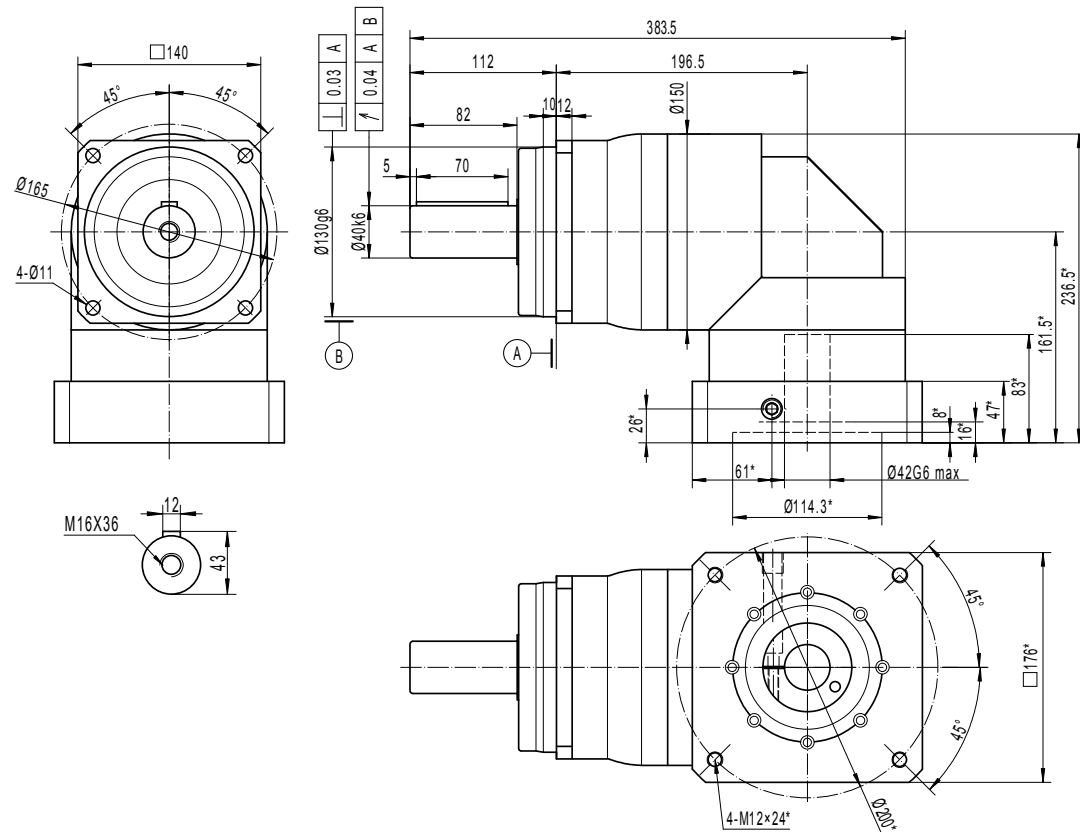
*VARIES WITH YOUR MOTOR DIMENSIONS

X-TREME-SQ-RA-100- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 35$

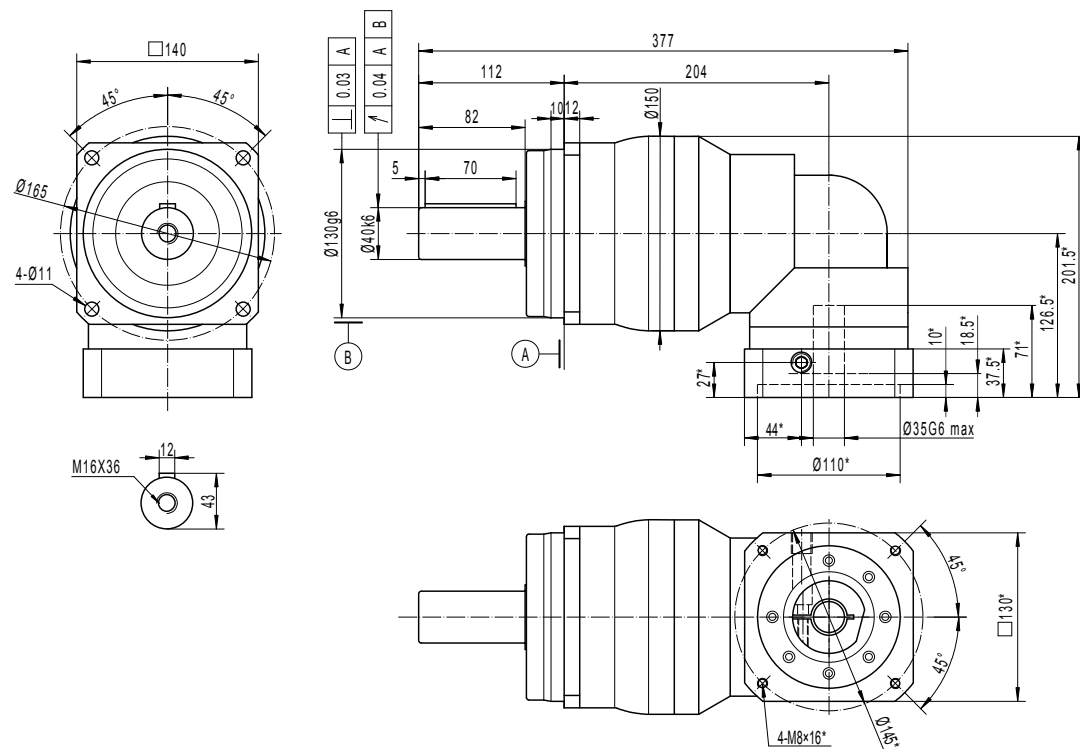


*VARIES WITH YOUR MOTOR DIMENSIONS

X-TREME-SQ-RA-140- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 42$

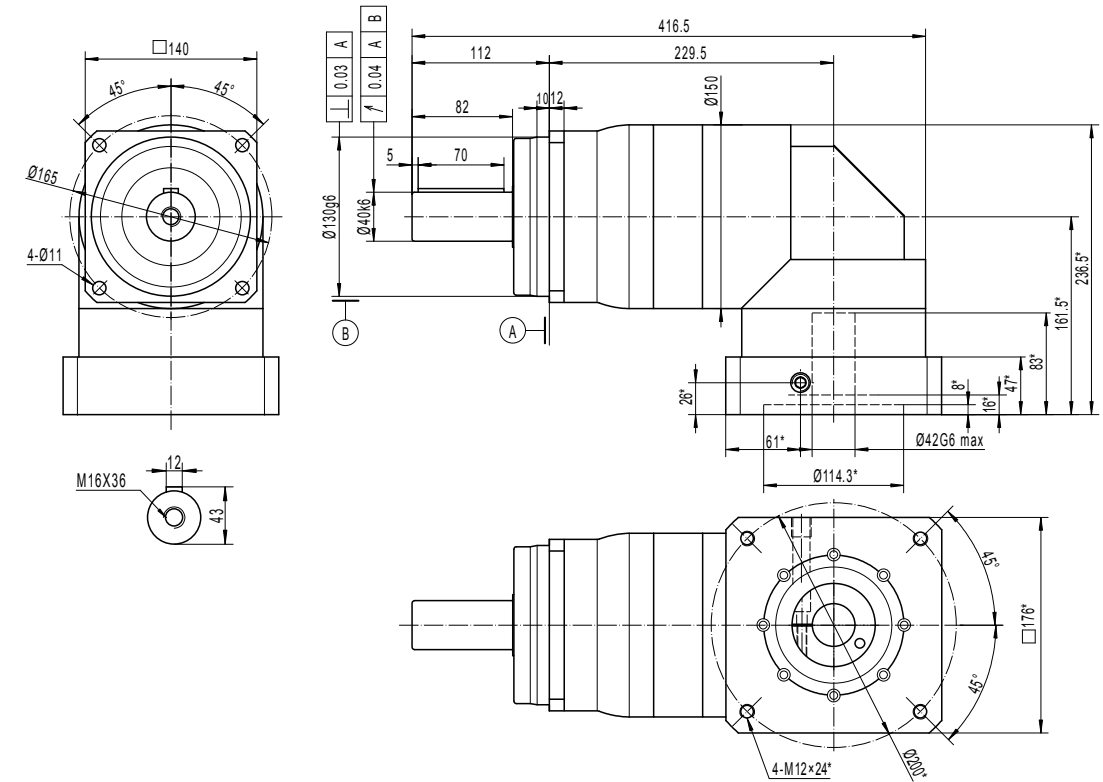


X-TREME-SQ-RA-140- 2 STAGES-R - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 35$



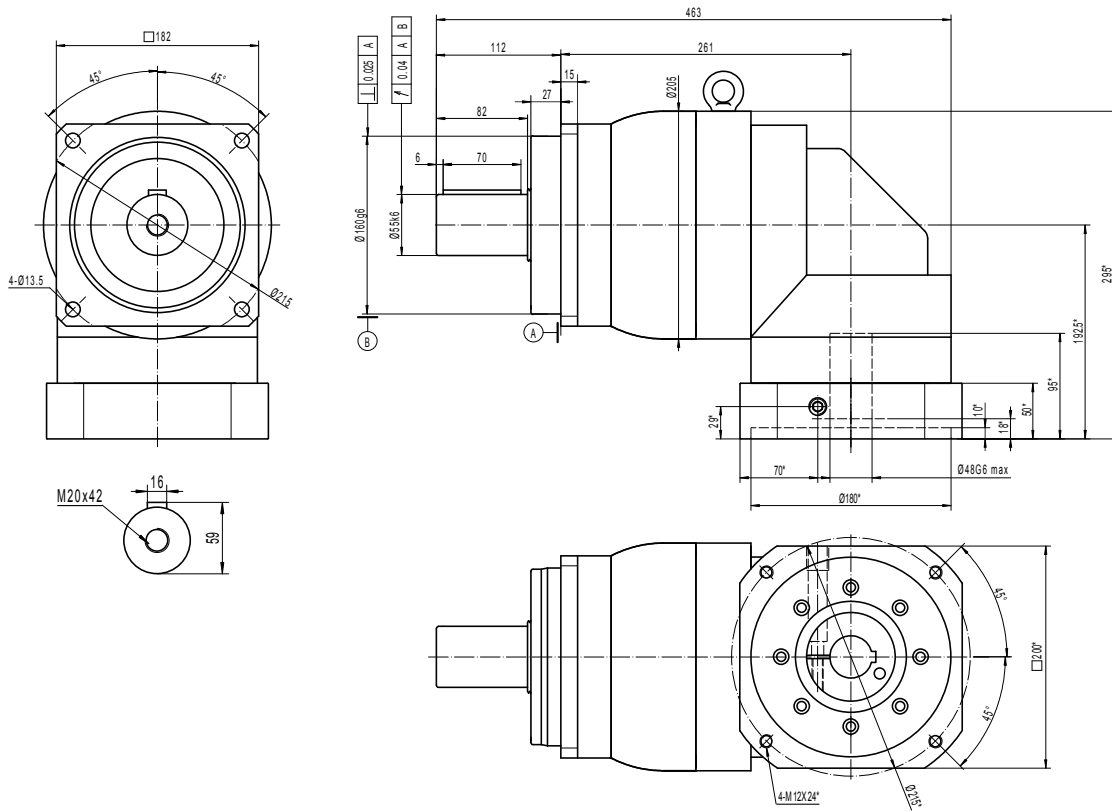
*VARIES WITH YOUR MOTOR DIMENSIONS

X-TREME-SQ-RA-140- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 42$

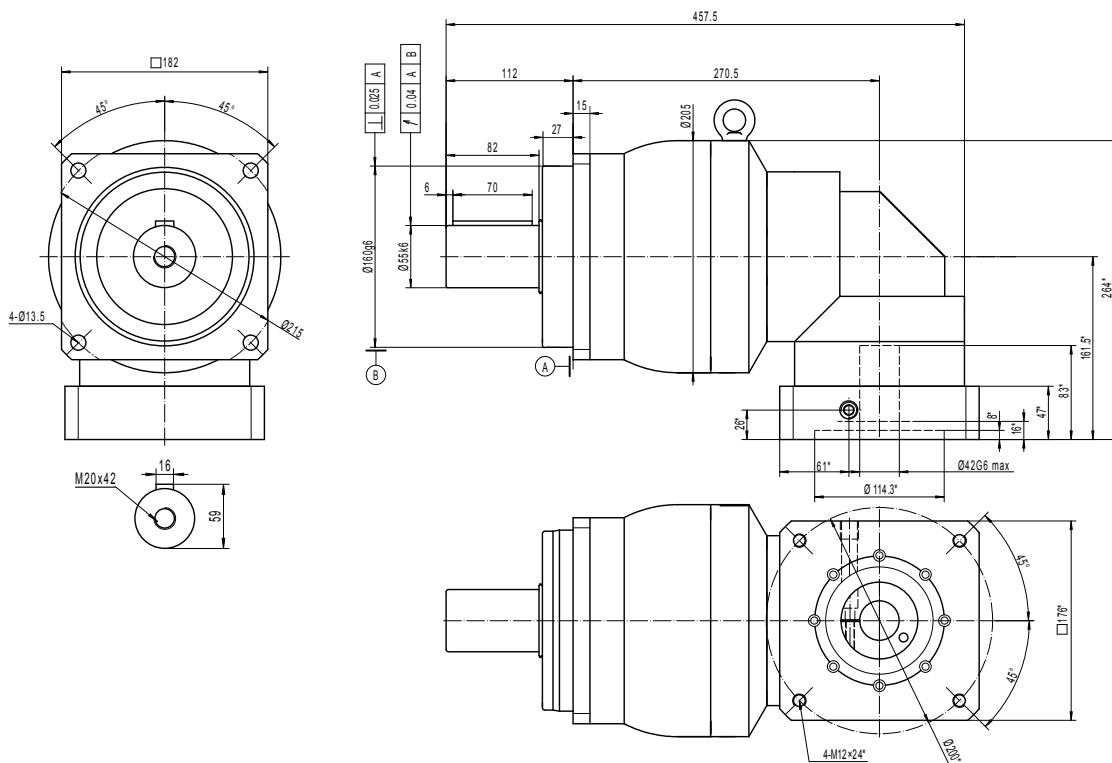


*VARIES WITH YOUR MOTOR DIMENSIONS

X-TREME-SQ-RA-180- 1 STAGE - RATIOS 3 TO 10 FOR MOTOR SHAFT $\leq \varnothing 48$



X-TREME-SQ-RA-180- 2 STAGES-R - RATIOS 12 TO 100 FOR MOTOR SHAFT $\leq \varnothing 42$



*VARIES WITH YOUR MOTOR DIMENSIONS