

SPIRIT-CI

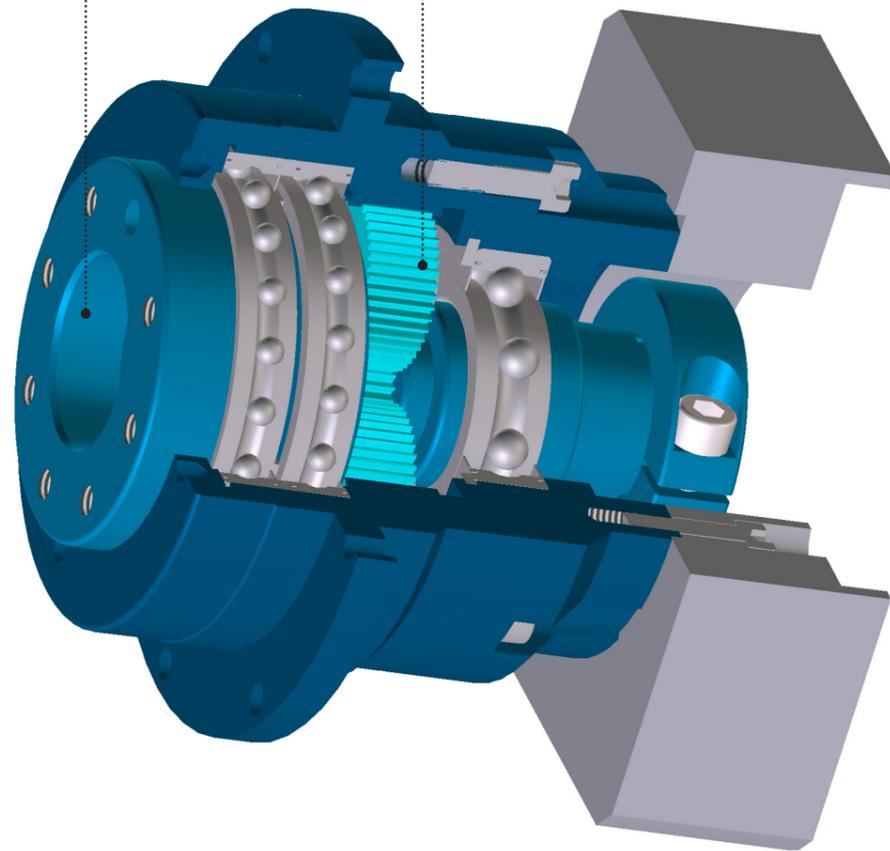


Acceleration capacity	++
Fast reversals	+
Radial load rating	++
Axial load rating	+
Stiffness	++
Precision	++
Economy	+++++

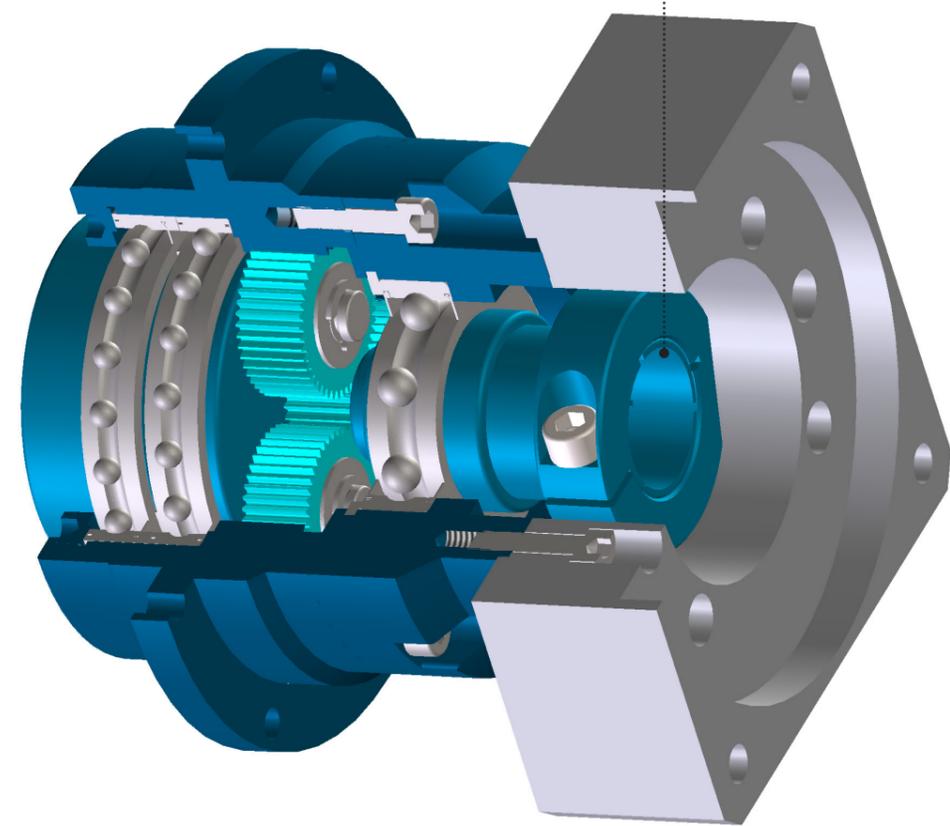
SPIRIT-CI_ST_ Internal construction

Easy installation on an AGV/AMR wheel, using standard ISO dimensions

Carburized and quenched helical teeth provides, reliability and acceleration capacity.



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

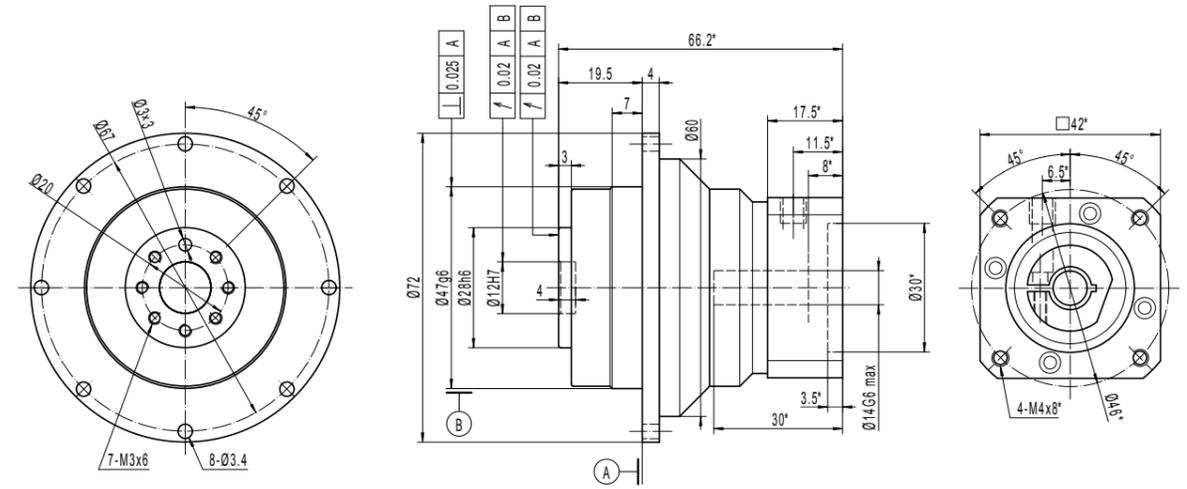


	Ratio**	SPIRIT-CI-ST			
		047-P*	064-P*	090-P*	110-P*
Nominal torque ¹ T _{2N} (Nm)	3	-	-	46	170
	4	11	30	105	205
	5	9	24	76	160
	7	7	18	51	126
	10	5	12	35	85
	12	-	-	46	170
	15	-	-	46	170
	16	11	30	105	205
	20	11	30	105	205
	21	-	29	46	170
	25	9	24	76	160
	28	11	30	105	205
	30	-	-	46	170
	35	9	24	76	160
	40	11	30	105	205
	49	7	18	51	126
	50	9	24	76	160
70	7	18	51	126	
100	5	12	35	85	
Peak torque ² T _{max} (Nm)	3	-	-	107	338
	4	19	54	148	361
	5	14	38	99	241
	7	13	35	94	230
	10	13	33	85	207
	12	-	-	107	338
	15	-	-	107	338
	16	19	54	148	361
	20	19	54	148	361
	21	-	-	107	338
	25	14	38	99	241
	28	19	54	148	361
	30	-	-	107	338
	35	14	38	99	241
	40	19	54	148	361
	49	13	35	94	230
	50	14	38	99	241
70	13	35	94	230	
100	13	33	85	207	
Emergency stop torque (Nm) ³		1,5 x T _{max}			
Max angular backlash (minutes)	1 stage	≤10	≤7	≤5	≤5
	2 stages	≤13	≤10	≤8	≤8
Nominal input speed (rpm) ⁴		4,000	3,700	3,500	2,700
Max input speed (rpm) ⁵		8,000	6,000	6,000	5,000
Tilting moment (Nm) ⁶		9	15	43	110
Max axial load (N) ⁶	1 stage	≥97			
	2 stages	≥94			
Efficiency (%) ⁷		≥94			
Torsional stiffness (Nm/min)		4	12	27	75
Life (h) ⁸		20,000			
Min / max ambient temperature ⁹		-15 / +45			
Max temperature of the body (°C)		90			
Protection class		IP 54			
Noise level (dB) ¹⁰		≤63	≤65	≤67	≤69
Lubrication		Lifetime lubrication (grease)			
Coating color		Capri blue (RAL 5019)			
Input flange		Anodized aluminum			

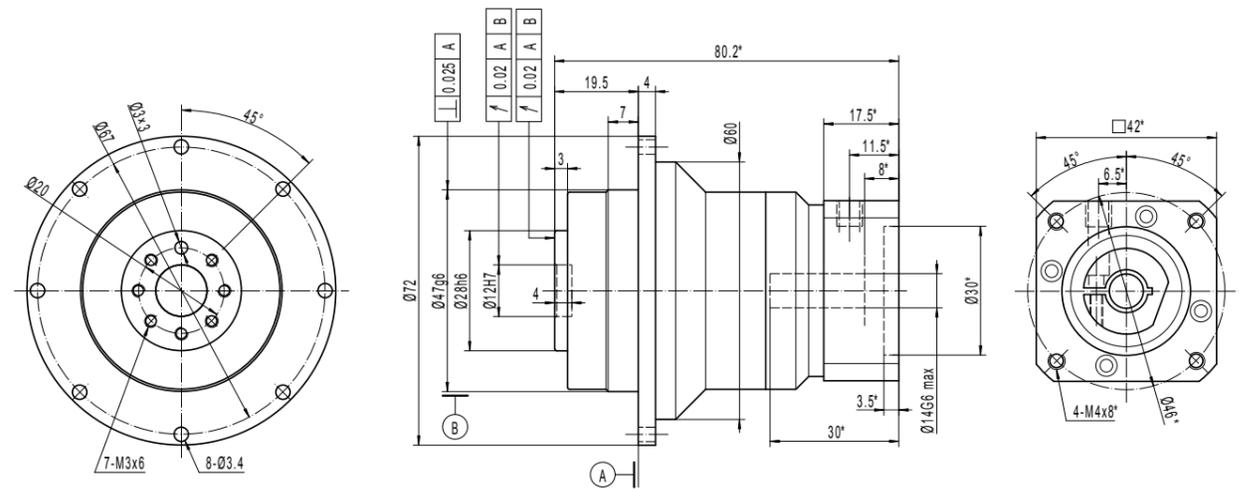
* Others ratios are available upon request.

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 tilting moment. 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 on the front face of the output shaft at 100rpm.
 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.

**SPIRIT-CI-ST-047- 1 STAGE - RATIOS 4 TO 10
FOR MOTOR SHAFT ≤ Ø14**

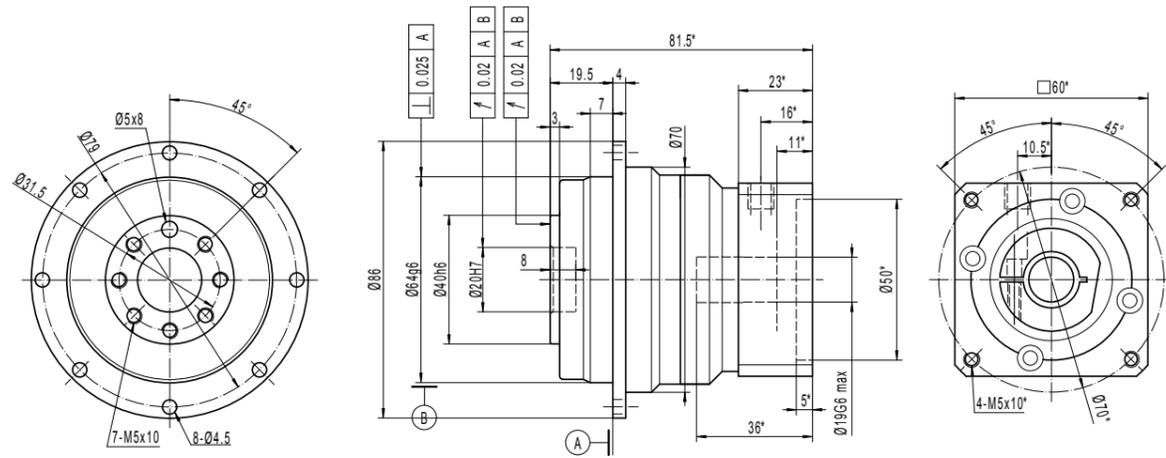


**SPIRIT-CI-ST-047- 2 STAGES-P - RATIOS 16 TO 100
FOR MOTOR SHAFT ≤ Ø14**

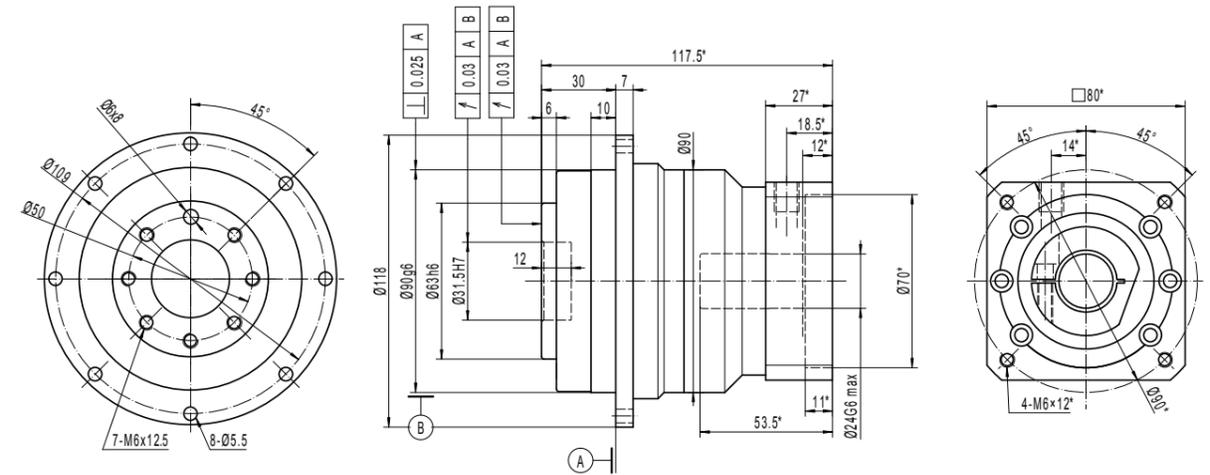


*VARIES WITH YOUR MOTOR DIMENSIONS

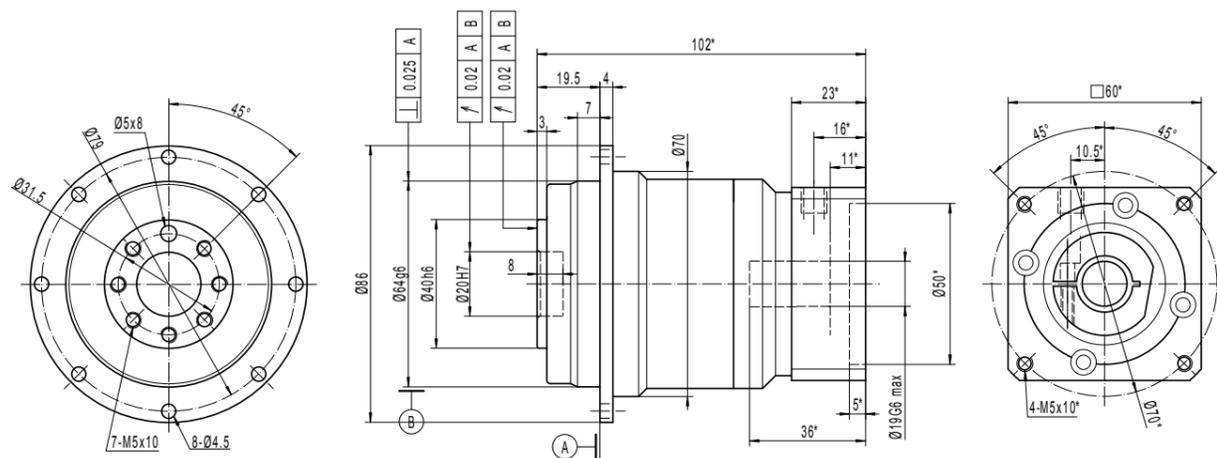
SPiRiT-CI-ST-064- 1 STAGE - RATIOS 4 TO 10
FOR MOTOR SHAFT $\leq \varnothing 19$



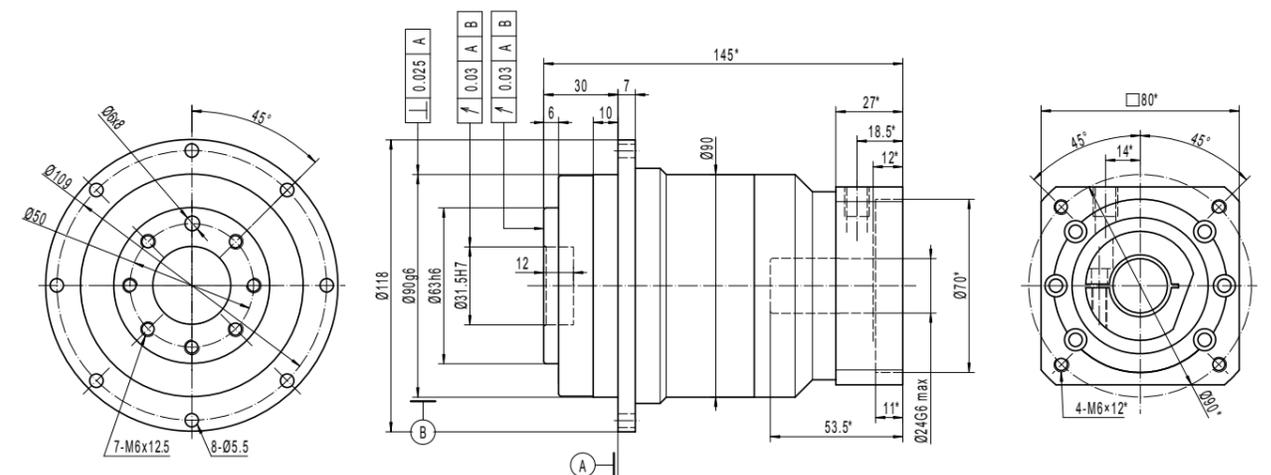
SPiRiT-CI-ST-090- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 24$



SPiRiT-CI-ST-064- 2 STAGES-P - RATIOS 16 TO 100
FOR MOTOR SHAFT $\leq \varnothing 19$



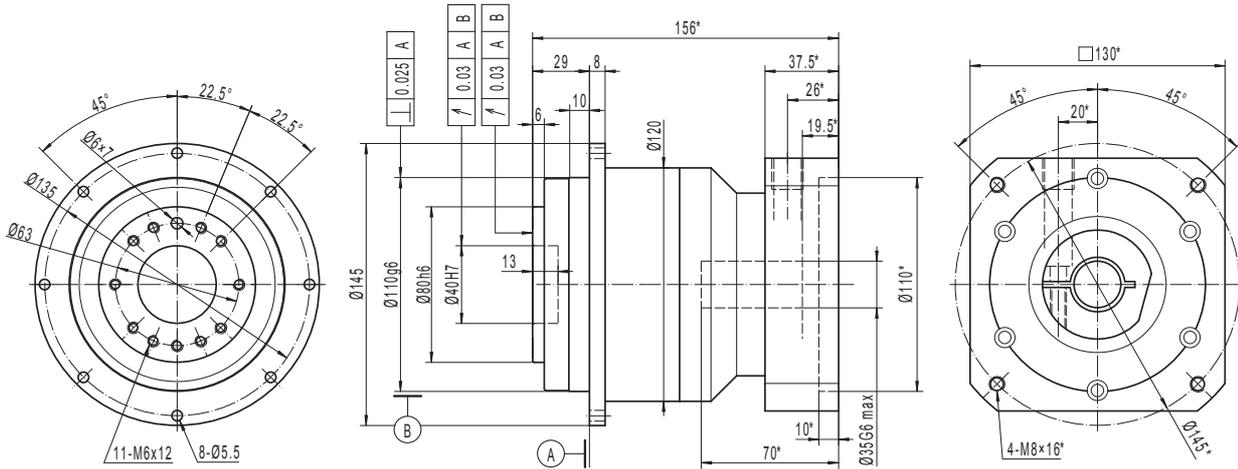
SPiRiT-CI-ST-090- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 24$



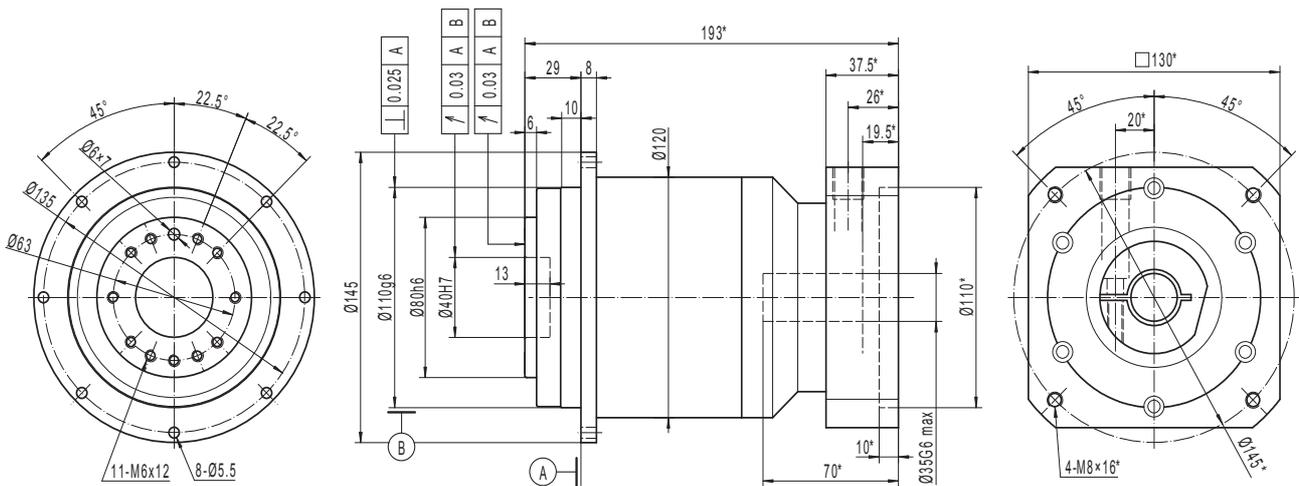
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SPIRIT-CI-ST-110- 1 STAGE - RATIOS 3 TO 10
FOR MOTOR SHAFT $\leq \varnothing 35$



SPIRIT-CI-ST-110- 2 STAGES-P - RATIOS 12 TO 100
FOR MOTOR SHAFT $\leq \varnothing 35$



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