SMD GEARBOX

SMD

BRILLIANTLY AGILE!















HIGH PRECISION SERVO GEARBOX

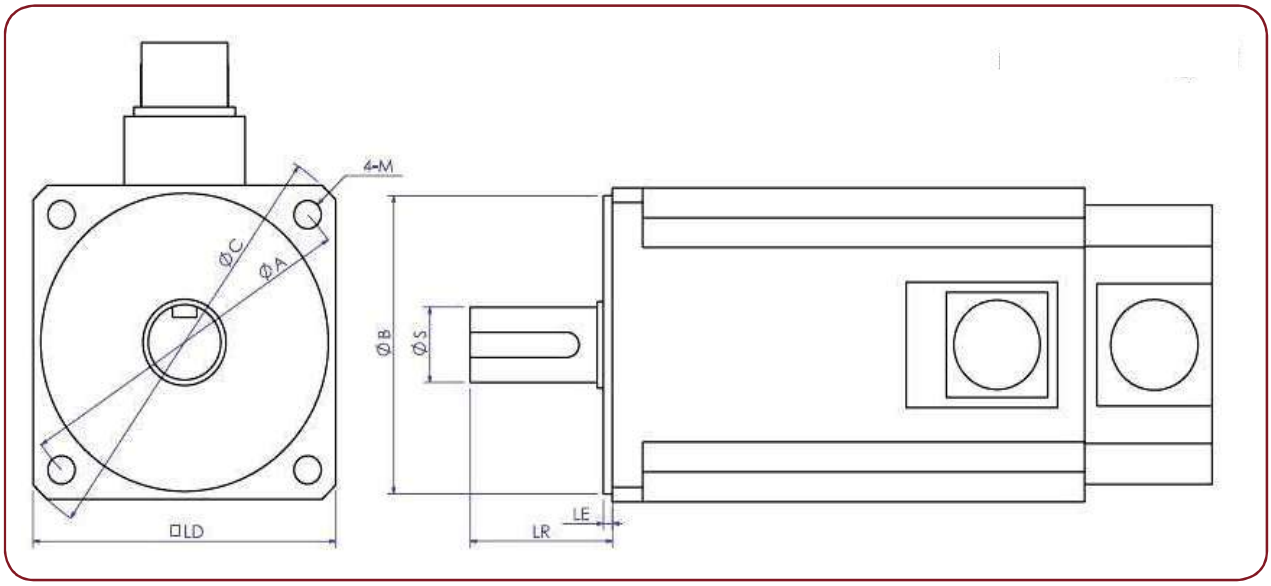
SRV-E Series





SRV	20E	80	S	B	A
Model Name	*Profile Type*	*Ratio 1:78 ~1.301*	*Refer Motor Drawing 1-1*		

SRV-6E	*SRV-40E*	*SRV-110E*	*SRV-320E*
SRV-20E	*SRV-80E*	*SRV-160E*	*SRV-450E*



Feature

» Diverse appearance; suitable for robot arm.

» Short axial dimension.

» High rigidity for stable precision work.

» More compact and higher accurate.

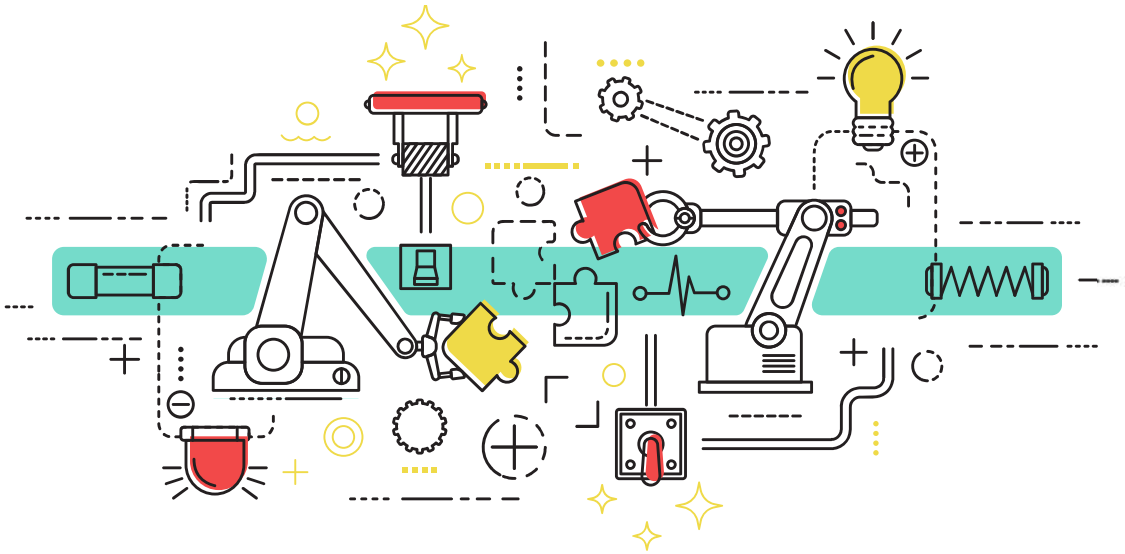
» Applied in robot industry, especially for multi-axis Robot joints

Specification Chart

Specifications		SRV-6E	SRV-20E	SRV-40E	SRV-80E	SRV-110E	SRV-160E	SRV-320E	SRV-450E
Shaft Rotation		Shaft Run	Shaft Run	Shaft Run	Shaft Run	Shaft Run	Shaft Run	Shaft Run	Shaft Run
Ratio		83	83	83	83	79	109	109	121
			103	103	103	109	124	124	181
			121	121	121	124	154	181	241
				161	161	154	181	241	301
						181	241	301	
Rated Output Torque	Kgf-m/Nm	8.34/72	17/167	42/412	80/784	110/1078	160/1568	320/3136	450/4410
Maximum Acceleration Torque	kgf-m/Nm	12/117	42/412	105/1029	200/1960	275/2695	400/3920	800/7840	1125/11025
Maximum Allowable Torque	kgf-m/Nm	30/294	85/833	210/2058	400/3920	550/5390	800/7840	1600/15680	2250/22050
Permissible Input Speed	rpm	2000	2000	2000	2000	2000	2000	1500	1500
Maximum Input Speed	rpm	3000	3000	2500	2500	2500	2000	2000	2000
Tilting Stiffness	kgf-m/arc.min N/arc.min	12/117	38/372	95/931	120/1176	150/1470	300/2940	500/4900	760/7448
Torsional Stiffness	kgf-m/arc.min N/arc.min	2.0/20.0	5.0/49	11/108	20/196	30/294	40/392	100/980	120/1176
Max. Lost Motion	arc.min	<2.0	<2.0	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0
Angular Transmission Error	arc.sec	80	40	40	40	40	40	40	40
Standard Backlash	arc.min	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Reduced Backlash	arc.min	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Maximum Tilting Moment	kgf.m/Nm	40/392	180/1764	340/3332	440/4312	600/5880	800/7840	1440/14112	1800/17640
Allowable moment	Nm	196	882	1666	2156	2940	3920	7056	8820
Max. Axial Force	N	1470	3920	5194	7840	10780	14700	19600	24500
Input Inertia I=GD/4	Kg-m	$1.08x10^{-6}$	$6.01x10^{-6}$	$2.10x10^{-5}$	$5.75x10^{-5}$	$1.03x10^{-4}$	$1.52x10^{-4}$	$3.88x10^{-4}$	$5.70x10^{-4}$
			$4.30x10^{-6}$	$1.65x10^{-5}$	$4.81x10^{-5}$	$7.02x10^{-4}$	$1.12x10^{-4}$	$3.08x10^{-4}$	$3.32x10^{-4}$
			$3.58x10^{-6}$	$1.38x10^{-5}$	$3.98x10^{-5}$	$6.85x10^{-4}$	$0.78x10^{-4}$	$1.83x10^{-4}$	$2.35x10^{-4}$
				$0.95x10^{-5}$	$2.58x10^{-5}$	$4.85x10^{-4}$	$0.70x10^{-4}$	$1.10x10^{-4}$	$1.45x10^{-4}$
						$4.01x10^{-4}$	$0.48x10^{-4}$	$0.70x10^{-4}$	
Weight	Kg	2.8	5	10	16	20	28.5	50	76

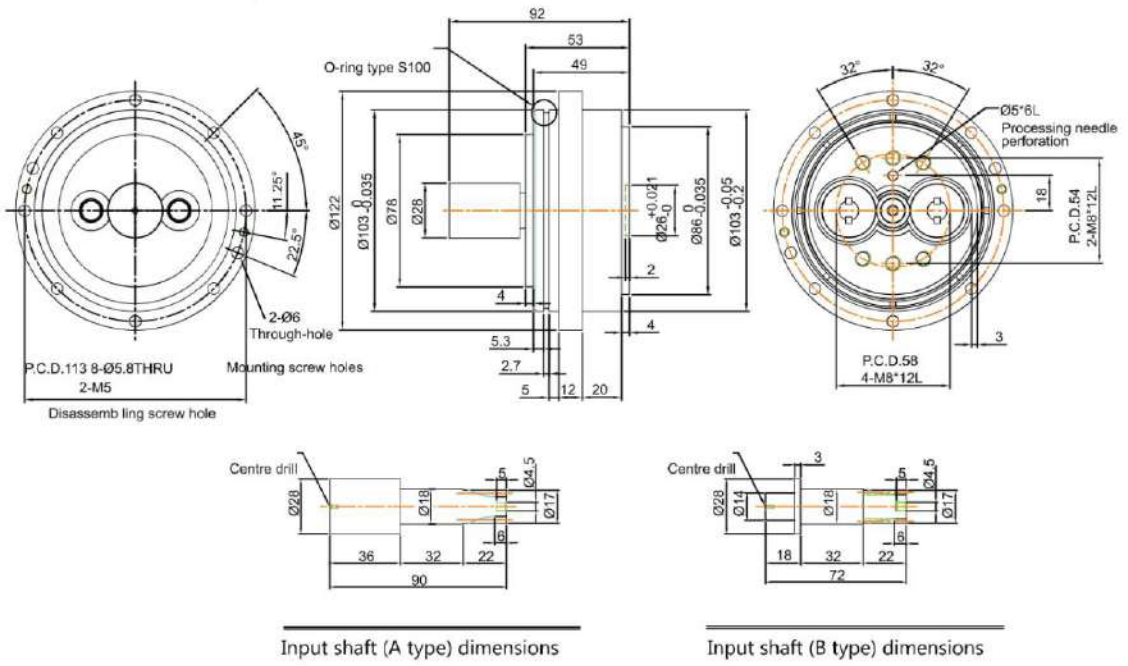
» Permissible axial load or permissible radial load is the value that satisfies the reducer life when either a pure radial load or an axial load is applied to the flange face. (When radial load is Lr+R=0mm, and axial load is La=0mm)

» We modify our standard gearboxes for customer requirements. Please inquire.



Mechanical Dimensions

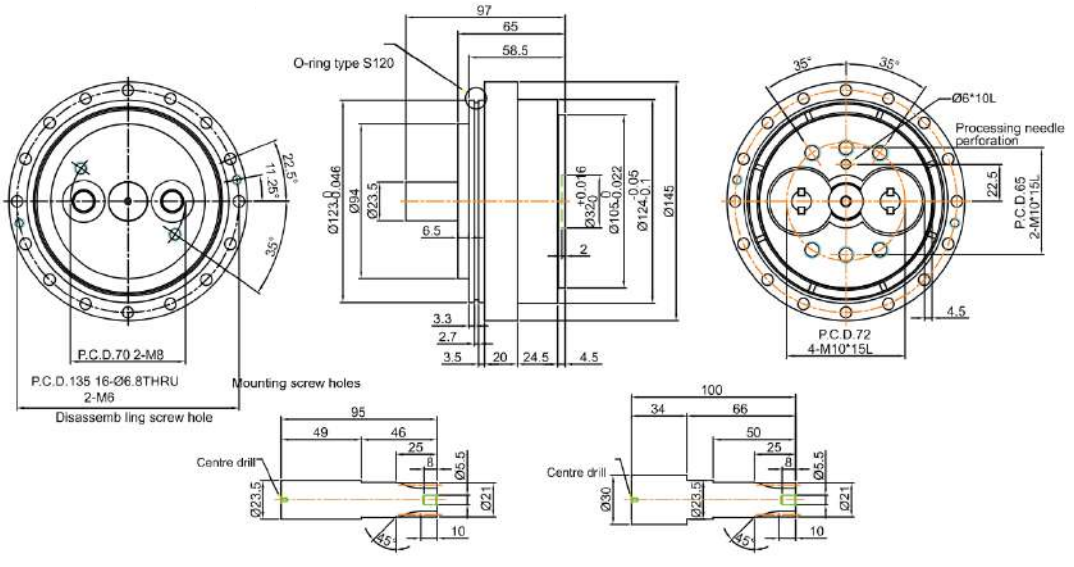
SRV-6E



Input shaft (A type) dimensions

Input shaft (B type) dimensions

SRV-20E

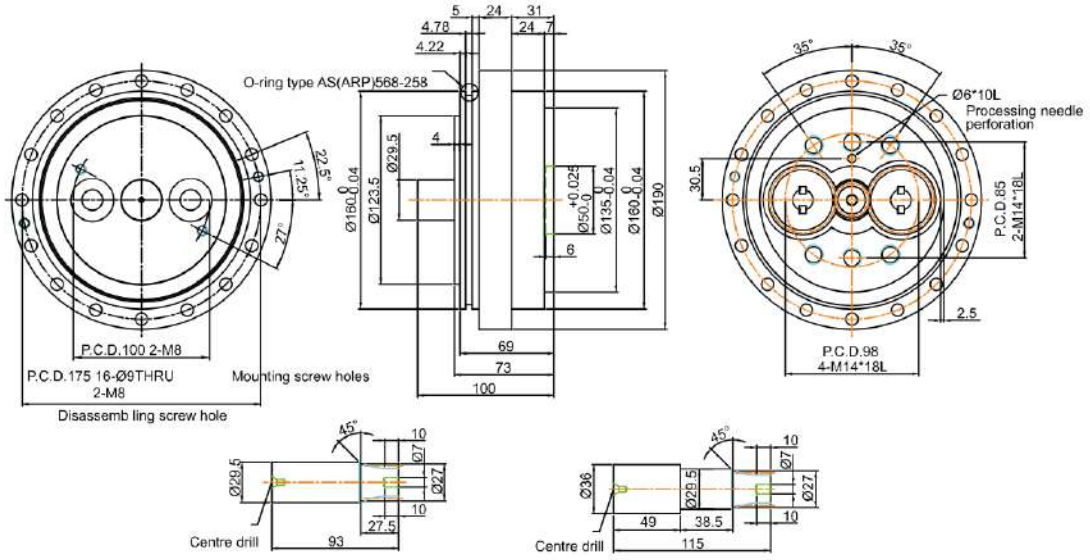


Input shaft (A type) dimensions

Input shaft (B type) dimensions

Mechanical Dimensions

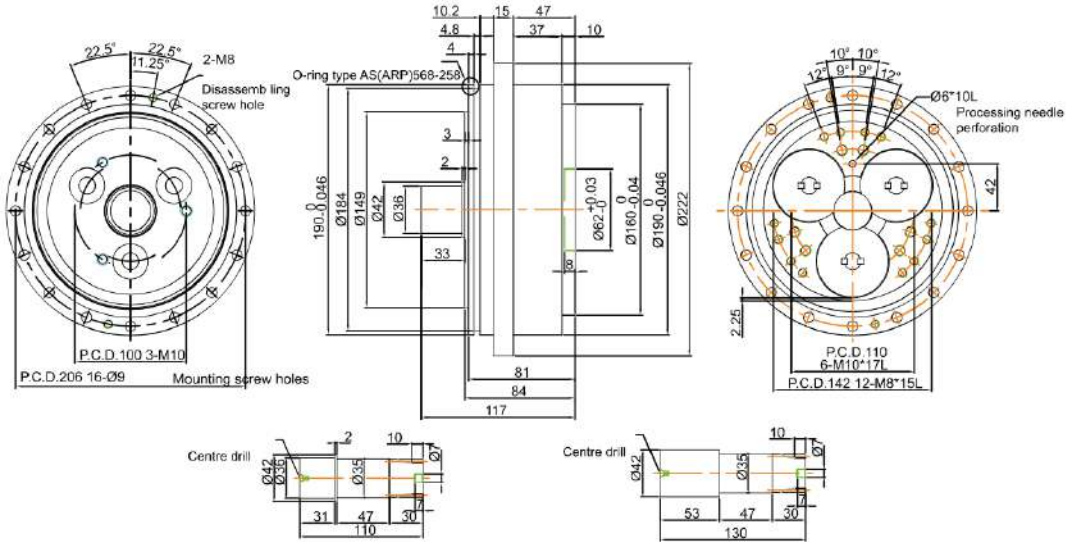
SRV-40E



Input shaft (A type) dimensions

Input shaft (B type) dimensions

SRV-80E

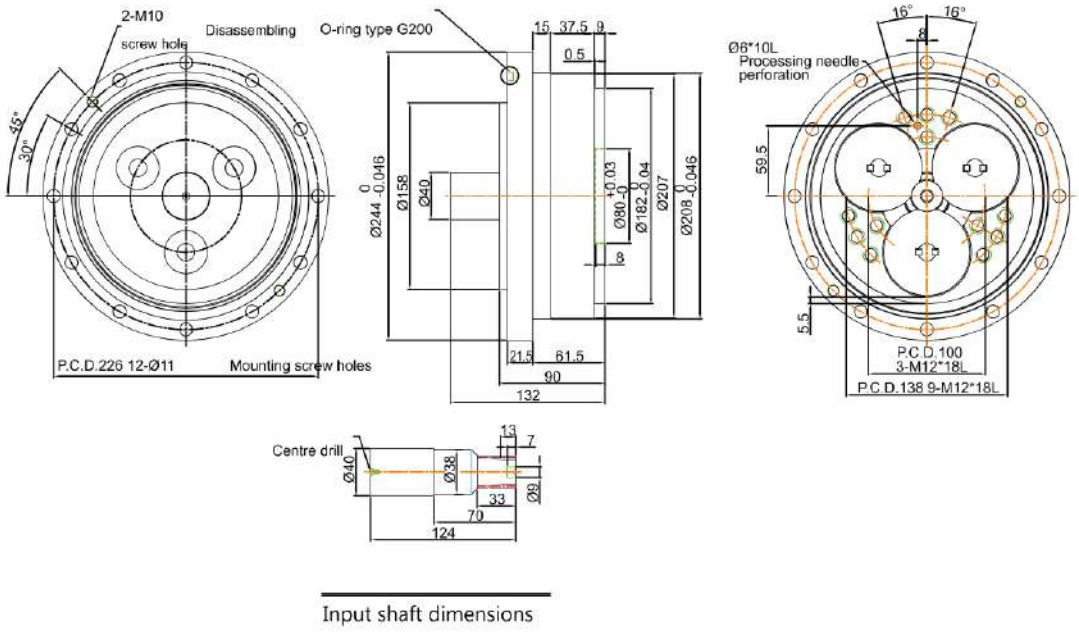


Input shaft (A type) dimensions

Input shaft (B type) dimensions

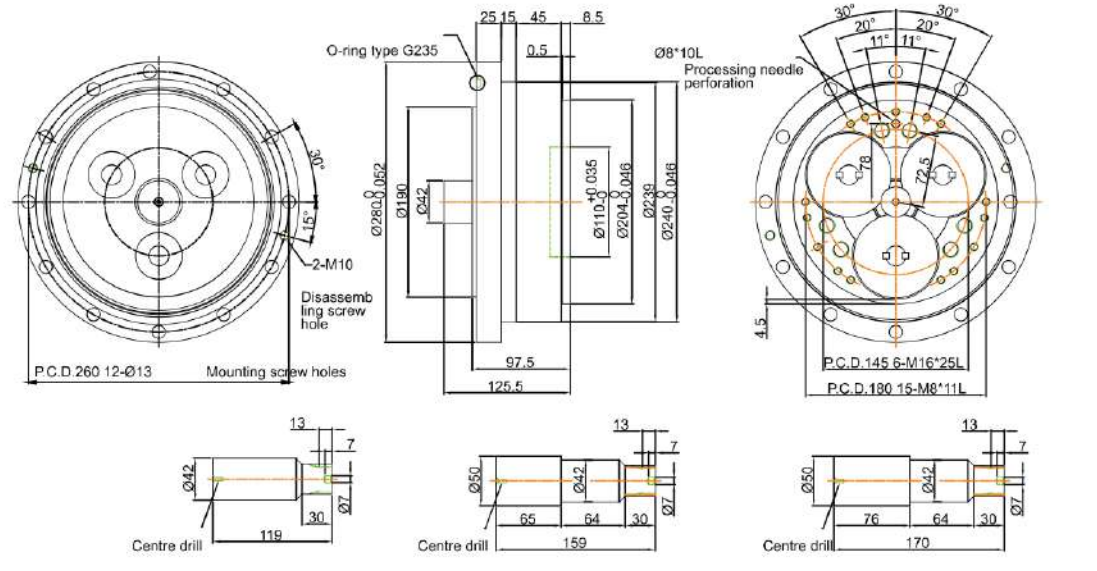
Mechanical Dimensions

SRV-110E



Input shaft dimensions

SRV-160E



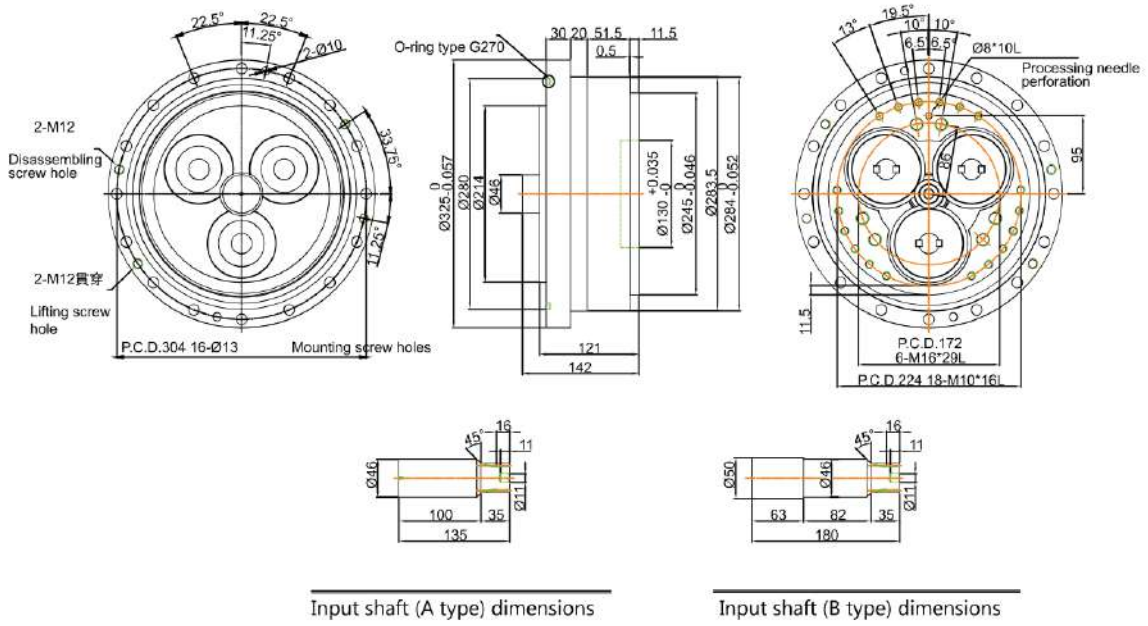
Input shaft (A type) dimensions

Input shaft (B type) dimensions

Input shaft (C type) dimensions

Mechanical Dimensions

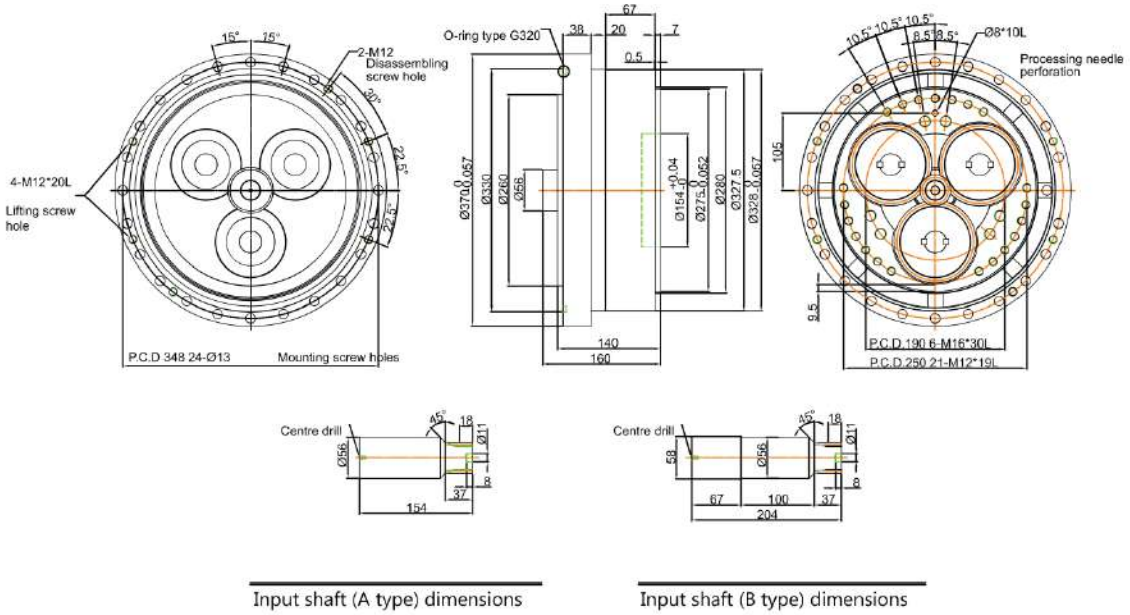
SRV-320E



Input shaft (A type) dimensions

Input shaft (B type) dimensions

SRV-450E



Input shaft (A type) dimensions

Input shaft (B type) dimensions

SMD Right Angle Gearbox

4 Reasons to Increase 50% Production



1. EXCLUSIVE PRODUCT, BACKLASH 1 ACR-MIN
2. INCREASES MACHINE WORKING SPEED & STABILITY
3. LOW VIBRATION
4. INCREASE PRODUCTION EFFICIENCY & QUANTITY

GET IN TOUCH!

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