



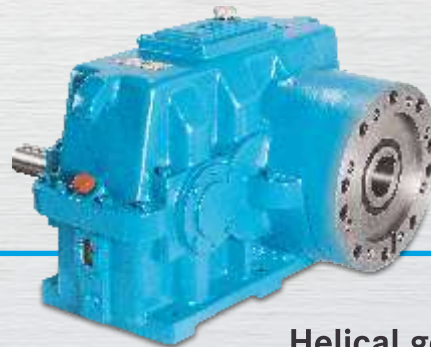
**GEARED** WITH  
PRECISE TECHNOLOGY



***Zeal*** Gears Pvt. Ltd.

(Formerly known as Super Glatt Machinery Pvt. Ltd.)

An ISO 9001:2015 Company



**Helical gear box  
for extruder**

Zeal bio

**KNOW US!**



## Passion, Enthusiasm, Dedication!

“A person can succeed at almost anything  
for which they have unlimited enthusiasm”

– Charles M Schwab  
American Steel Magnate



With this foundation we manufacture best in class gears. We are Zeal Gears Pvt Ltd., Gujarat based, an ISO 9001:2015 certified manufacturer of helical gear box for food, plastic and rubber extrusion machinery. Established in 1996 by an industry visionary, Mr. Nilesh Patel, the company has evolved under the proficient leadership of Mr. Patel. Today, it is the most sought after name in the field of gear box manufacturing.



## QUALITY

We are Manufacture Precision Helical Gear Box, using world's Best Manufacturing practice, according to **QMS, ISO 9001:2015 Registration No. QM 141271.**

Our Quality Assurance department is equipped with world best inspection instrument and equipment. Engineers take care of every component at each stage/operation. We have Trained and Experienced Work force. We are committed for our workmanship, standard Quality and uniformity.

## DESIGN

We have well experienced Design Engineers. We design our Gear Box for longer life, Best performance and output with silent running with the help of best designed software, as per requirement of our customer. Our well experienced Design Engineer follow complete product realization process starting from design input from our customer to product validation by customer.

## GEAR CASE

We are using graded gray cast iron for Gear Case, casted with best foundry practice using pattern designed for heat transfer technology. Our Gear Case are manufactured on modern CNC Machining Center under observation of Quality Assurance Department. Inside walls of Gear Case are coated with specially developed high performance heat resistance paints.

## INTERNAL PARTS

We are manufacture **Profile Ground** Internal Gears and Pinion within **DIN 6 Class** on well known German Machine. Our Gears are Case Carburized, Hardened and Tempered. Also we use Raw Material **EN 353 / 18CrNiMo 6-7** OR as per requirement of our valuable customer. Our internal parts are manufactured on CNC machines.

## BEARINGS

We are using Heavy duty best Quality Imported Bearings or as per demand of our customer in our product. All bearings are selected with precise calculation and recommendation of bearing experts for radial and axial thrust load of the Gear Box.

## LUBRICATION

In our Gear Boxes internal parts and bearings are automatically thoroughly lubricated through splash system. We are using force lubrication system in our large size Gear Boxes. Customer will take care to maintain oil level of sump.

## COOLING SYSTEM

We are using simplest and most economical cooling system to cool entire gear box. Our cooling coil are made from Good Quality copper pipe and properly fit inside of Gear Box.

# *Zeal Quality*

## **IF IT'S ZEAL, IT'S WORLD CLASS !**

Quality is never an accident. We strive to work with extreme quality and it is reflected in every product manufactured by us. Since we are an **ISO certified company**, our every process is attempted using the **ISO 9001:2015** framework of quality management.



## *Zeal Range*

### **THERE IS ONE FOR EVERY NEED**

Our many years of investment in research and development has led us to design high tech gear boxes of varied types and sizes. Some of them include :-

- Helical Gear Boxes for Single & Twin Screw Extruder
- Parallel shaft Helical Gear Boxes
- Worm Gear Boxes
- Loose gears as per customer requirements

# Zeal Service



Zeal with it's team of experienced technicians aims to offer the optimum to its customers. We offer:

1. **Selection of Gear Box** : After a thorough understanding of our customer's requirements, our team analyzes and suggests customers to invest in gear boxes accordingly.
2. **Preventive Maintenance** : We regularly guide our customers to take preventive precautions of gear units so that there is zero break-down and an enhanced gear life.
3. **Repairing of Gear Boxes** : Zeal has a separate repairing department which takes care of repairing and rebuilding of old gear boxes. Our technicians use genuine spare parts and hence our every endeavour is authentically processed.



# *Zeal plant*

## **SUPER TECH, SUPREMEY POWERFUL**

We have a full fledged manufacturing plant equipped with modern German, Japanese and Indian technology. Our service include machining, gear grinding, drilling and assembling all under one roof to avoid any hassless arising from sub-contracting. To give you peace of mind, we follow niche tool room culture so that all parts are correctly handled at all manufacturing points. Thus, enabling efficient delivery of your replacement gear box.





- CNC turning center.
- CNC Horizontal machining-center-Makino A88 & MC65  
CNC Vertical machining-center-Mazak VCN 410 & Haas VF4
- Gear Profile Grinding Machine - CNC RZ 301 AS & NZA-Reishauer Make and  
CNC ZP08 & ZSTZ 06 -WMW Niles Make.
- Lead and profile tester - Klingelnberg make.



Apart of this, we have fully fledged CNC machine shop having facility of Hobbing, Bore and Face grinding, Cylindrical grinding, Drilling etc...

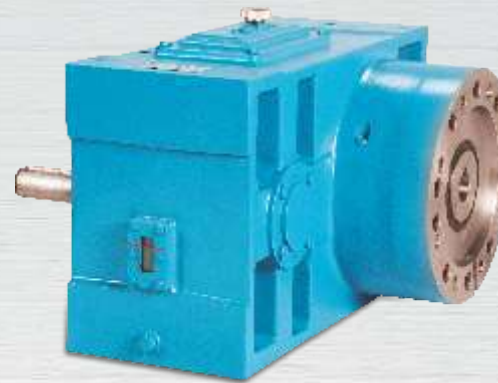




## *Zeal Aims*

**WE ACHIEVE WITH THESE ASPIRATIONS!**

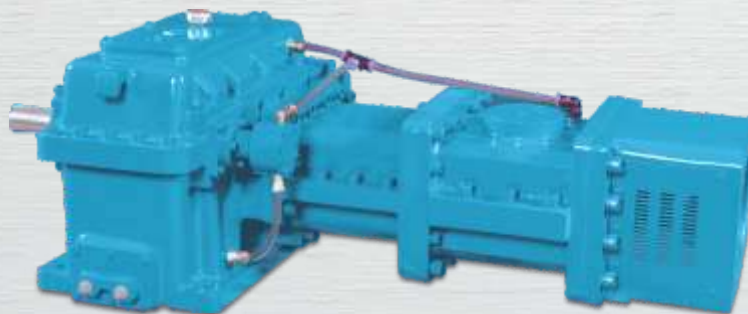
- We aim to be an industrial leader, globally.
- Our every service is quality oriented.
- Timely delivery is always a priority.
- Our every product is user friendly and easy to maintain.
- Our team works cohesively within and externally.
- Fostering innovation with technology.
- Use of minimal power thereby addressing Environmental issues.



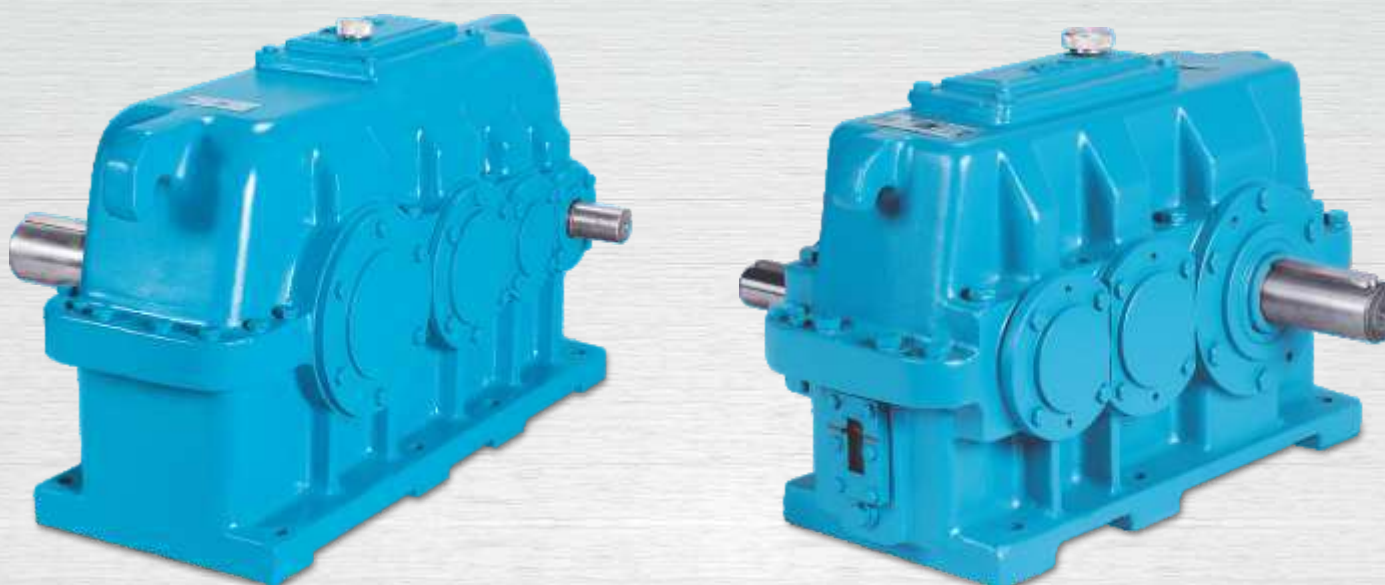
**Helical Gear Box for  
Universal Mounting**



**Twin Screw Extruder Gear Box**





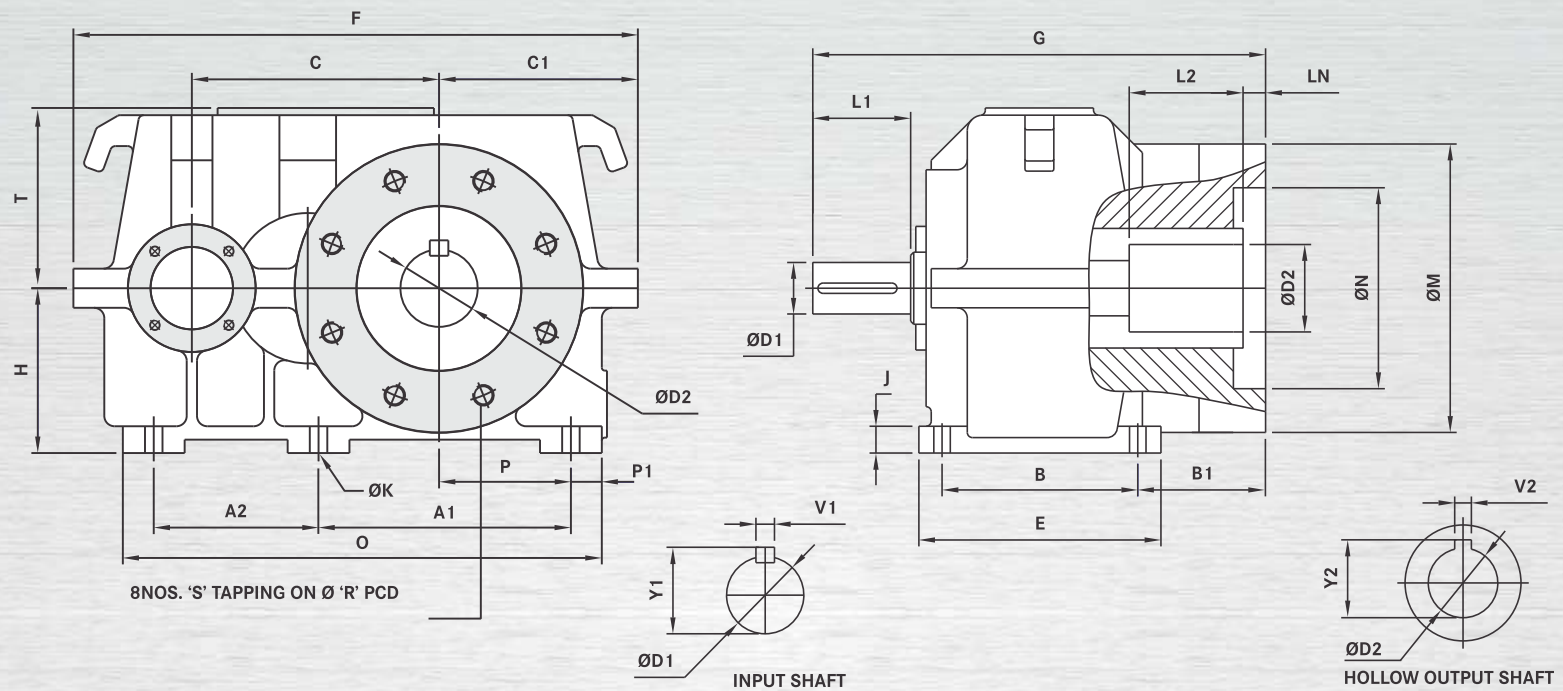


### Parallel Shaft Helical Gear Box

#### POWER RATINGS :

Nominal Ratio In	Input Speed RPM n1	Output Speed RPM n2	GEAR SIZE											
			110S	125S	140S	95D	110D	125D	140D	160D	180D	200D	225D	250D
			Nominal Power : Pn (kW)											
6.3	1500	240	19	36	50	-	-	-	-	-	-	-	-	-
	1000	160	12	24	34	-	-	-	-	-	-	-	-	-
10	1500	150	-	-	-	13	22	32	48	72	100	150	200	255
	1000	100	-	-	-	8	15	21	32	46	65	95	135	170
12.5	1500	120	-	-	-	11	19	26	38	52	80	110	155	205
	1000	80	-	-	-	7	12	17	25	35	52	75	108	145
16	1500	94	-	-	-	9	14	20	28	40	60	90	125	170
	1000	63	-	-	-	6	9	13	18	26	40	60	83	115
20	1500	75	-	-	-	-	-	-	23	33	48	73	102	125
	1000	50	-	-	-	-	-	-	15	21	32	49	68	84

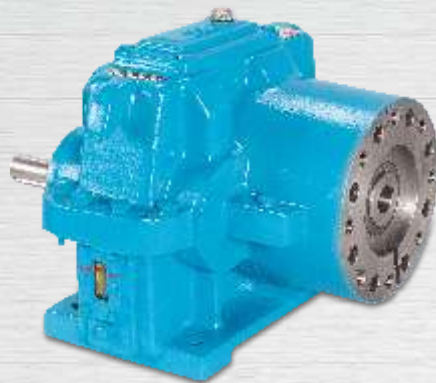
Note : Recommended Service (Application) Factor for Extruder Duty Between 1.75 and 2.0



TYPE	GEAR BOX HOUSING DIMENSION															
MODEL	C	C1	A1	A2	B	B1	P	P1	O	E	H	T	F	G	ØK	J
SG-110S	110	152	250	-	120	91	110	25	300	144	135	129	354	302	Ø14	20
SG-125S	125	175	290	-	155	140	120	23	340	210	160	190	420	416	Ø16	30
SG-140S	140	200	340	-	160	135	135	35	410	210	180	195	470	403	Ø18	35
SG-95D	160	120	160	125	150	84	80	17	320	185	110	125	365	307	Ø15	20
SG-110D	190	140	175	145	150	147	90	23	365	180	135	150	430	395	Ø15	25
SG-125D	215	158	170	185	170	140	95	23	400	204	140	165	478	425	Ø16	23
SG-140D	240	180	255	145	185	145	125	30	460	230	160	190	542	458	Ø17	30
SG-160D	270	200	250	190	225	158	130	30	500	280	180	210	598	514	Ø20	30
SG-180D	305	220	270	235	230	166	135	35	570	280	200	235	665	555	Ø20	35
SG-200D	340	246	305	265	290	183	155	35	630	350	225	250	757	614	Ø22	40
SG-225D	385	266	364	305	320	209	182	40	750	380	250	290	837	714	Ø22	40
SG-250D	430	292	416	345	350	205	208	40	840	430	280	295	930	745	Ø27	50



**Helical Gear Box Single Stage**



**Size : 110 S, 125 S, 140 S**  
**Std. Ratio 6.3 : 1**

**Helical Gear Box Two Stage**



**Size : 95 D to 200 D**  
**Std. Ratio 12.5 : 1, 16 : 1, 20 : 1**

**Helical Gear Box with Oil Pump**



**Size : 225 D, 250 D**  
**Std. Ratio 12.5 : 1, 16 : 1, 20 : 1**

TYPE	INPUT SHAFT				OUTPUT SHAFT				MOUNTING FLANGE					WEIGHT	OIL CAP.	
MODEL	ØD1	L1	V1	Y1	ØD2	L2	V2	Y2	ØM	ØN	ØR	S	LN	BRG.	(Approx.)	
SG-110S	Ø25	60	8	28.5	Ø25	100	6	28	Ø210	Ø130	Ø155	M12	10	29413	70 kg	1.200 Ltr.
SG-125S	Ø30	80	8	33	Ø32	125	10	35.5	Ø222	Ø130	Ø175	M16	8	29414	113 kg	2.500 Ltr.
SG-140S	Ø35	80	10	38	Ø40	130	12	43.5	Ø238	Ø140	Ø180	M16	8	29416	128 kg	4.000 Ltr.
SG-95D	Ø22	55	6	25	Ø30	125	8	33.5	Ø190	Ø120	Ø160	M12	8	29412	67 kg	1.500 Ltr.
SG-110D	Ø25	60	8	28	Ø35	125	10	38.5	Ø222	Ø140	Ø180	M16	8	29414	103 kg	2.500 Ltr.
SG-125D	Ø30	80	8	33	Ø40	130	12	43.5	Ø232	Ø140	Ø180	M16	8	29416	125 kg	3.500 Ltr.
SG-140D	Ø35	80	10	38	Ø50	135	14	54.0	Ø275	Ø180	Ø220	M16	9	29418	173 kg	4.500 Ltr.
SG-160D	Ø40	100	12	43	Ø60	150	18	64.6	Ø300	Ø210	Ø255	M 20	9	29420	236 kg	7.500 Ltr.
SG-180D	Ø50	110	14	53.5	Ø70	170	20	75.1	Ø320	Ø220	Ø260	M 20	9	29422	282 kg	11.000 Ltr.
SG-200D	Ø55	110	16	59	Ø85	180	22	90.9	Ø380	Ø270	Ø325	M 20	11	29426	460 kg	18.000 Ltr.
SG-225D	Ø60	140	18	64	Ø110	180	28	116.5	Ø430	Ø300	Ø375	M 20	12	29430	665 kg	35.000 Ltr.
SG-250D	Ø70	140	20	75	Ø120	190	32	127.4	Ø475	Ø340	Ø410	M 24	12	29434	870 kg	37.000 Ltr.

All Dimension are in mm. | Note : Dimension - D2, N, R, S Standard or as per requirements of customers.



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Manufactured by :

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