



# **WASTEX HIGH EFFICIENCY THREE-LOBE ROOTS GAS BLOWER**

**WASTEX**

# GTX

## GTX High efficiency three-lobe roots gas blower (DN65 – DN300)

GTX Series gas blower are heavy duty rotary blowers designed and developed base on roots blower which “Hel-wel” have gained manufactory experience over 20 years. GTX Series gas blower are completely sealed type blower for delivering clear, oil-free air of gas.

### Design and construction

#### features

##### Rotor

Three-lobe type, Milled from high tensile strength ductile iron, stress relieved and dynamically balanced, Solid and Teflon® outside surface coating to protect corrosion.

##### Casing

Rigid one piece, high strength casing resists deflection to retain accurate running tolerances between rotors. Teflon® inside surface coating to protect corrosion.

##### Air/Gas seal & oil seal

-In order to ensure gas un-leakage ; GTX provide out standing performance and high efficiency sealing system which consisted by piston ring labyrinth type shaft seals design with install 6 pieces isolator oil seals (4 units for both side of Rotors, filled in front of bearings and 2 units fitted with drive shaft.) 3.0 kg/cm2 high pressure design for oil seal

##### Bearing

-Heavy duty spherical roller bearing use on both driven end and gear end for all models to ensure high speed operate stability.

##### Timing Gear

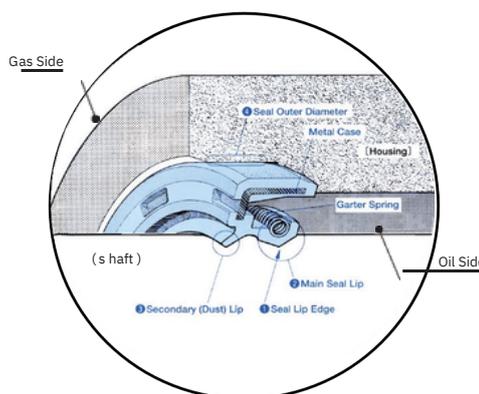
-Made by high grade alloy steel, precision machining process to provide quiet, accurate operation.

##### Lubrication

-Both bearing and gears are lubricated by oil splash system to ensure operate at high temp environment.

##### Accessories

- All accessories and coherent part are made by stainless steel.



### Type description

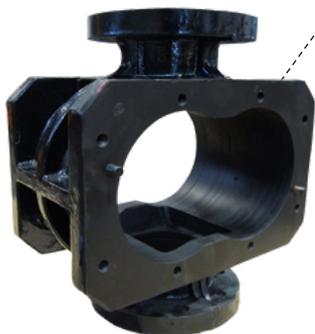
GTX -65

Discharge Dia. (mm) High efficiency

three-lobe roots gas blower

## Accessories

### + Casing



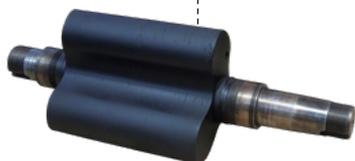
- Inside surface coating by Teflon®
- Rigid one piece

### + Inlet Silencer

- Made by stainless



### + Root



- Stuffed Ductile iron made - Dynamic balance
- Outside surface coating by Teflon®
- Solid

### + Bearing

- Heavy duty spherical roller bearing



### + Oil Lubricate

- Oil bath lubricate for both drive/driven side

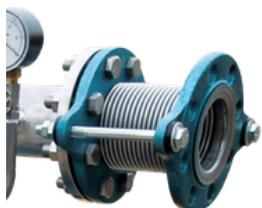


### + Outlet Silencer

- Made by stainless



less steel 304



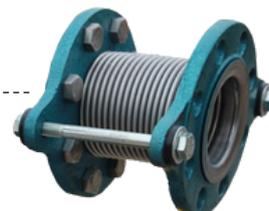
+ Vacuum gauge

- Indicator while inlet be blocked



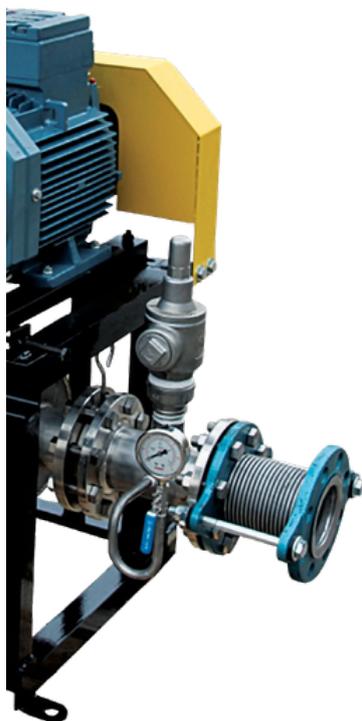
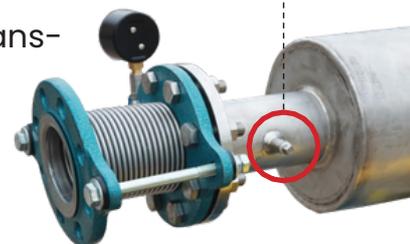
+ Flexible joint

- Made by stainless steel 304



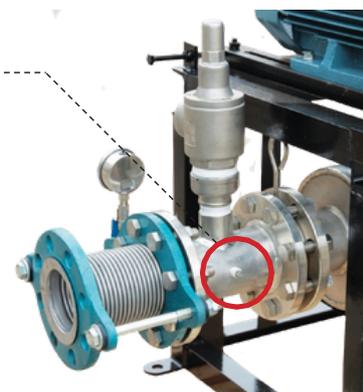
+ Reserve port at Inlet silencer

- For install sensor of thermometer/pressure transducer/etc.



+ Reserve port at Outlet silencer

- For install sensor of thermometer/pressure transducer/etc.



+ Pressure relief Valve

- Made by stainless steel 304  
 - Reserve by pass pipe connecting port while system pressure overload

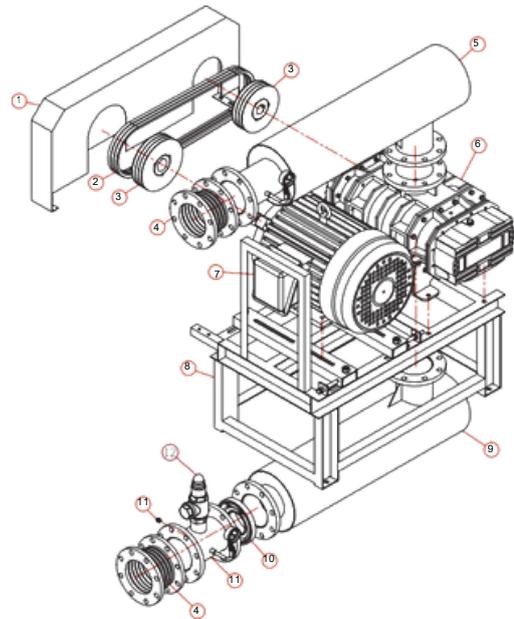


less steel 304

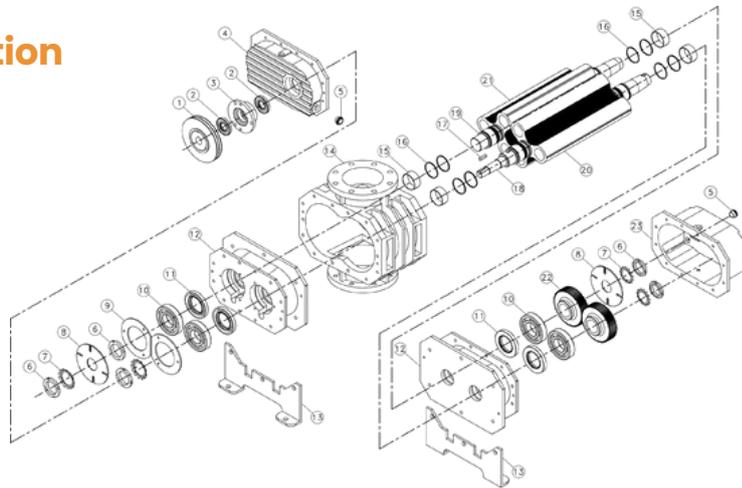


## Externality construction

No	Name	Material	QTY
01	Cover	SS400	1
02	Belt	Rubber	-
03	Pulley	FC250	2
04	Flexible Joint	SS400 + SUS304	2
05	Suction Silencer	SUS304	1
06	Roots Blower	Assembly	1
07	Motor	Explosion - Proof	1
08	Base	SS400	1
09	Discharge Silencer	SUS304	1
10	Check Valve T -	SUS304	1
11	Joint Pressure	SUS304	1
12	Relief Valve	SUS304	1



## Construction



No	Name	Material		QTY	No	Name	Material		QTY
		GB	JIS				GB	JIS	
1	Pulley	HT250	FC250	1	13	Support base	Q235	SS400	2
2	Oil Seal	Viton	Viton	2	14	Casing	HT250 + Taflon® coating	FC250 + Taflon® coating	1
3	Seal seat	HT250	FC250	1	15	Sleeve	GCr15	SUJ2	4
4	Oil box	HT250	FC250	1	16	Piston ring	HT250	FC250	8
5	Oil gauge	AL+Glass	AL+Glass	2	17	Key	45	S45C	1
6	Lock nut	45	S45C	5	18	Drive shaft	42CrMn	SCM440	1
7	Lock washer	Q235	SS400	4	19	Driven shaft	42CrMn	SCM440	1
8	Oil splash	Q235	SS400	2	20	Drive lobe	QT500 + Taflon® coating	FCD500 + Taflon® coating	1
9	Bearingwasher	Q235	SS400	2	21	Driven lobe	QT500+ Taflon® coating	FCD500 + Taflon® coating	1
10	Bearing	GCr15	SUJ2	4	22	Gear	42CrMnTi	SNCM220	2
11	Oil Seal	Viton	Viton	4	23	Gear box	HT250	FC250	1
12	Bearing housing	HT250 + Taflon® coating	FC250 + Taflon® coating	2					

## Performance parameters

QS = m3/min, Pressure(mmAq)

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	kw	Qs	kw																
GTX-65	1950	2.74	0.96	2.61	1.46	2.51	1.96	2.43	2.46	2.36	2.96	2.29	3.46	2.23	3.96	2.17	4.46	2.12	4.96	2.07	5.45
	2050	2.9	1.01	2.77	1.54	2.67	2.06	2.59	2.58	2.51	3.11	2.45	3.63	2.38	4.16	2.33	4.68	2.27	5.21	2.22	5.73
	2150	3.06	1.06	2.93	1.61	2.83	2.16	2.74	2.71	2.67	3.26	2.6	3.81	2.54	4.36	2.48	4.91	2.43	5.46	2.38	6.01
	2250	3.21	1.11	3.08	1.69	2.98	2.26	2.9	2.84	2.83	3.41	2.76	3.99	2.7	4.57	2.64	5.14	2.59	5.72	2.54	6.29
	2350	3.37	1.16	3.24	1.76	3.14	2.36	3.06	2.96	2.98	3.56	2.92	4.17	2.85	4.77	2.8	5.37	2.74	5.97	2.69	6.57
	2450	3.53	1.21	3.4	1.83	3.3	2.46	3.21	3.09	3.14	3.72	3.07	4.34	3.01	4.97	2.95	5.6	2.9	6.23	2.85	6.85
	2550	3.68	1.26	3.55	1.91	3.45	2.56	3.37	3.22	3.3	3.87	3.23	4.52	3.17	5.17	3.11	5.83	3.06	6.48	3.01	7.13
	2650	3.84	1.31	3.71	1.98	3.61	2.66	3.53	3.34	3.45	4.02	3.39	4.7	3.32	5.38	3.27	6.06	3.21	6.73	3.16	7.41
	2750	4	1.36	3.87	2.06	3.77	2.76	3.68	3.47	3.61	4.17	3.54	4.88	3.48	5.58	3.42	6.28	3.37	6.99	3.32	7.69
	2850	4.15	1.4	4.02	2.13	3.92	2.86	3.84	3.59	3.77	4.32	3.7	5.05	3.64	5.78	3.58	6.51	3.53	7.24	3.48	7.97
	2950	4.31	1.45	4.18	2.21	4.08	2.96	4	3.72	3.92	4.48	3.86	5.23	3.79	5.99	3.74	6.74	3.68	7.5	3.63	8.25
	3050	4.47	1.5	4.34	2.28	4.24	3.07	4.15	3.85	4.08	4.63	4.01	5.41	3.95	6.19	3.89	6.97	3.84	7.75	3.79	8.53
	3150	4.62	1.55	4.49	2.36	4.39	3.17	4.31	3.97	4.24	4.78	4.17	5.59	4.11	6.39	4.05	7.2	4	8.26	3.95	8.81
	3250	4.78	1.6	4.65	2.43	4.55	3.27	4.47	4.1	4.39	4.93	4.33	5.76	4.27	6.59	4.21	7.43	4.15	8.51	4.1	9.09
	3350	4.94	1.65	4.81	2.51	4.71	3.37	4.62	4.22	4.55	5.08	4.48	5.94	4.42	6.87	4.36	7.66	4.31	8.77	4.26	9.37
	3450	5.09	1.7	4.96	2.58	4.86	3.47	4.78	4.35	4.71	5.23	4.64	6.12	4.58	7.07	4.52	7.88	4.47	9.06	4.42	9.65
GTX-80	1950	4.69	1.4	4.52	2.23	4.39	3.06	4.28	3.89	4.18	4.73	4.1	5.56	4.02	6.39	3.94	7.22	3.87	8.47	3.81	8.89
	2050	4.95	1.47	4.78	2.35	4.65	3.22	4.54	4.09	4.44	4.97	4.36	5.84	4.28	6.72	4.2	7.59	4.13	8.88	4.07	9.34
	2150	5.21	1.54	5.04	2.46	4.91	3.38	4.8	4.29	4.71	5.21	4.62	6.13	4.54	7.05	4.46	7.96	4.39	9.29	4.33	9.8
	2250	5.47	1.61	5.3	2.57	5.17	3.53	5.06	4.49	4.97	5.45	4.88	6.41	4.8	7.37	4.73	8.33	4.66	9.71	4.59	10.25
	2350	5.73	1.69	5.56	2.69	5.43	3.69	5.32	4.69	5.23	5.7	5.14	6.7	5.06	7.7	4.99	8.7	4.92	10.12	4.85	10.71
	2450	5.99	1.76	5.82	2.8	5.7	3.85	5.59	4.89	5.49	5.94	5.4	6.98	5.32	8.03	5.25	9.08	5.18	10.53	5.11	11.17
	2550	6.25	1.83	6.09	2.92	5.96	4.01	5.85	5.09	5.75	6.18	5.66	7.27	5.58	8.36	5.51	9.45	5.44	10.95	5.37	11.62
	2650	6.52	1.9	6.35	3.03	6.22	4.16	6.11	5.29	6.01	6.42	5.93	7.55	5.85	8.69	5.77	9.82	5.7	11.36	5.64	12.08
	2750	6.78	1.97	6.61	3.15	6.48	4.32	6.37	5.49	6.27	6.67	6.19	7.84	6.11	9.01	6.03	10.19	5.96	11.77	5.9	12.53
	2850	7.04	2.04	6.87	3.26	6.74	4.48	6.63	5.69	6.53	6.91	6.45	8.12	6.37	9.34	6.29	10.56	6.22	12.19	6.16	12.99
	2950	7.3	2.12	7.13	3.37	7	4.63	6.89	5.89	6.8	7.15	6.71	8.41	6.63	9.67	6.55	10.93	6.48	12.6	6.42	13.45
	3050	7.56	2.19	7.39	3.49	7.26	4.79	7.15	6.09	7.06	7.39	6.97	8.69	6.89	10	6.82	11.3	6.75	12.6	6.68	13.9
	3150	7.82	2.26	7.65	3.6	7.52	4.95	7.41	6.29	7.32	7.64	7.23	8.98	7.15	10.32	7.08	11.67	7.01	13.01	6.94	14.36
	3250	8.08	2.33	7.91	3.72	7.79	5.1	7.68	6.49	7.58	7.88	7.49	9.27	7.41	10.65	7.34	12.04	7.27	13.43	7.2	14.81
	3350	8.34	2.4	8.18	3.83	8.05	5.26	7.94	6.69	7.84	8.12	7.75	9.55	7.67	10.98	7.6	12.41	7.53	13.84	7.46	15.27
	3450	8.61	2.47	8.44	3.95	8.31	5.42	8.2	6.89	8.1	8.36	8.02	9.84	7.94	11.31	7.86	12.78	7.79	14.25	7.73	15.72
3550	8.87	2.55	8.7	4.06	8.57	5.58	8.46	7.09	8.36	8.61	8.28	10.12	8.2	11.64	8.12	13.15	8.05	14.66	7.99	16.18	
3650	9.13	2.62	8.96	4.18	8.83	5.73	8.72	7.29	8.62	8.85	8.54	10.41	8.46	11.96	8.38	13.52	8.31	15.08	8.25	16.64	
3750	9.39	2.69	9.22	4.29	9.09	5.89	8.98	7.49	8.89	9.09	8.8	10.69	8.72	12.29	8.64	13.89	8.57	15.49	8.51	17.09	
3850	9.65	2.76	9.48	4.4	9.35	6.05	9.24	7.69	9.15	9.33	9.06	10.98	8.89	12.62	8.91	14.26	8.84	15.9	8.77	17.55	
3950	9.91	2.83	9.74	4.52	9.61	6.2	9.5	7.89	9.41	9.58	9.32	11.26	9.24	12.95	9.17	14.63	9.1	16.32	9.03	18	
GTX-100	2050	9.22	2.67	8.97	4.28	8.78	5.88	8.62	7.49	8.48	9.09	8.35	10.7	8.23	12.3	8.12	13.91	8.02	15.51	7.92	17.12
	2150	9.7	2.81	9.45	4.49	9.26	6.17	9.1	7.85	8.96	9.54	8.83	11.22	8.71	12.9	8.6	14.59	8.5	16.27	8.4	17.95
	2250	10.18	2.94	9.93	4.7	9.74	6.46	9.58	8.22	9.44	9.98	9.31	11.74	9.19	13.5	9.08	15.27	8.98	17.03	8.88	18.79
	2350	10.66	3.07	10.41	4.91	10.22	6.75	10.06	8.59	9.92	10.43	9.79	12.27	9.67	14.1	9.56	15.94	9.46	17.78	9.36	19.62
	2450	11.14	3.2	10.89	5.11	10.7	7.03	10.54	8.95	10.4	10.87	10.27	12.79	10.15	14.71	10.04	16.62	9.94	18.54	9.84	20.46
	2550	11.62	3.33	11.37	5.32	11.18	7.32	11.02	9.32	10.88	11.31	10.75	13.31	10.63	15.31	10.52	17.3	10.42	19.3	10.32	21.29
	2650	12.1	3.46	11.85	5.53	11.66	7.61	11.5	9.68	11.35	11.76	11.23	13.83	11.11	15.91	11	17.98	10.89	20.05	10.8	22.13
	2750	12.58	3.59	12.33	5.74	12.14	7.89	11.98	10.05	11.83	12.2	11.71	14.35	11.59	16.51	11.48	18.66	11.37	20.81	11.28	22.96
	2850	13.06	3.72	12.81	5.95	12.62	8.18	12.46	10.41	12.31	12.64	12.19	14.87	12.07	17.11	11.96	19.34	11.85	21.57	11.76	23.8
	2950	13.54	3.85	13.29	6.16	13.1	8.47	12.94	10.78	12.79	13.09	12.66	15.4	12.55	17.71	12.44	20.02	12.33	22.33	12.24	24.63
	3050	14.02	3.98	13.77	6.37	13.58	8.76	13.41	11.14	13.27	13.53	13.14	15.92	13.03	18.31	12.92	20.69	12.81	23.08	12.71	25.47
	3150	14.5	4.11	14.25	6.58	14.06	9.04	13.89	11.51	13.75	13.97	13.62	16.44	13.5	18.91	13.39	21.37	13.29	23.84	13.19	26.3
	3250	14.98	4.24	14.73	6.78	14.53	9.33	14.37	11.87	14.23	14.42	14.1	16.96	13.98	19.51	13.87	22.05	13.77	24.6	13.67	27.14
3350	15.45	4.37	15.21	6.99	15.01	9.62	14.85	12.24	14.71	14.86	14.58	17.48	14.46	20.11	14.35	22.73	14.25	25.35	14.15	27.97	

## Performance parameters

QS = m3/min, Pressure(mmAq)

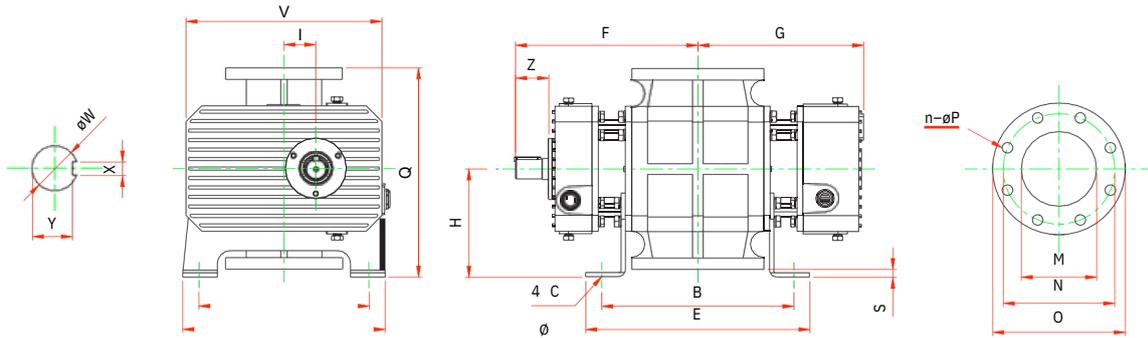
Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	kw	Qs	kw																
GTX-100	3450	15.93	4.5	15.68	7.2	15.49	9.9	15.33	12.6	15.19	15.31	15.06	18.01	14.94	20.71	14.83	23.41	14.73	26.11	14.63	28.81
	3550	16.41	4.63	16.16	7.41	15.97	0.19	15.81	12.97	15.67	15.75	15.54	18.53	15.42	21.31	15.31	24.09	15.21	26.87	15.11	29.64
	3650	16.89	4.76	16.64	7.62	16.45	10.48	16.29	13.33	16.15	16.19	16.02	19.05	15.9	21.91	15.79	24.76	15.69	27.62	15.59	30.48
	3750	17.37	4.89	17.12	7.83	16.93	10.76	16.77	13.7	16.63	16.64	16.5	19.57	16.38	22.51	16.27	25.44	16.17	28.38	16.07	31.32
	3850	17.85	5.02	17.6	8.04	17.41	11.05	17.25	14.07	17.11	17.08	16.98	20.09	16.86	23.11	16.75	26.12	16.65	29.14	16.55	32.15
GTX-125	2050	11.6	3.34	11.32	5.35	11.11	7.36	10.93	9.36	10.76	11.37	10.62	13.37	10.49	15.38	10.36	17.39	10.25	19.39	10.14	21.4
	2150	12.2	3.51	11.92	5.61	11.71	7.71	11.52	9.82	11.36	11.92	11.22	14.03	11.09	16.13	10.96	18.23	10.85	20.34	10.74	22.44
	2250	12.8	3.67	12.52	5.87	12.31	8.07	12.12	10.28	11.96	12.48	11.82	14.68	11.69	16.88	11.56	19.08	11.44	21.28	11.33	23.49
	2350	13.4	3.83	13.12	6.13	12.9	8.43	12.72	10.73	12.56	13.03	12.42	15.33	12.28	17.63	12.16	19.93	12.04	22.23	11.93	24.53
	2450	14	4	13.72	6.39	13.5	8.79	13.32	11.19	13.16	13.59	13.02	15.98	12.88	18.38	12.76	20.78	12.64	23.18	12.53	25.57
	2550	14.6	4.16	14.32	6.65	14.1	9.15	13.92	11.65	13.76	14.14	13.62	16.64	13.48	19.13	13.36	21.63	13.24	24.12	13.13	26.62
	2650	15.2	4.32	14.92	6.92	14.7	9.51	14.52	12.1	14.36	14.7	14.21	17.29	14.08	19.88	13.96	22.48	13.84	25.07	13.73	27.66
	2750	15.8	4.49	15.52	7.18	15.3	9.87	15.12	12.56	14.96	15.25	14.81	17.94	14.68	20.63	14.56	23.32	14.44	26.01	14.33	28.71
	2850	16.4	4.65	16.12	7.44	15.9	10.23	15.72	13.02	15.56	15.8	15.41	18.59	15.28	21.38	15.16	24.17	15.04	26.96	14.93	29.75
	2950	17	4.81	16.71	7.7	16.5	10.59	16.32	13.47	16.16	16.36	16.01	19.25	15.88	22.13	15.76	25.02	15.64	27.91	15.53	30.79
	3050	17.6	4.97	17.31	7.96	17.1	10.94	16.92	13.93	16.76	16.91	16.61	19.9	16.48	22.88	16.35	25.87	16.24	28.85	16.13	31.84
	3150	18.19	5.14	17.91	8.22	17.7	11.3	17.52	14.39	17.36	17.47	17.21	20.55	17.08	23.63	16.95	26.72	16.84	29.8	16.73	32.88
	3250	18.79	5.3	18.51	8.48	18.3	11.66	18.11	14.84	17.95	18.02	17.81	21.2	17.68	24.38	17.55	27.56	17.44	30.74	17.33	33.92
	3350	19.39	5.46	19.11	8.74	18.9	12.02	18.71	15.3	18.55	18.58	18.41	21.86	18.28	25.13	18.15	28.41	18.04	31.69	17.93	34.97
	3450	19.99	5.63	19.71	9	19.49	12.38	19.31	15.76	19.15	19.13	19.01	22.51	18.87	25.88	18.75	29.26	18.63	32.64	18.52	36.01
3550	20.59	5.79	20.31	9.26	20.09	12.74	19.91	16.21	19.75	16.69	19.61	23.16	19.47	26.63	19.35	30.11	19.23	33.58	19.12	37.06	
GTX-150A	1650	19.17	5.52	18.71	8.84	18.36	12.15	18.06	15.46	17.79	18.78	17.55	22.09	17.34	25.4	17.13	28.72	16.94	32.03	16.76	35.35
	1750	20.4	5.86	19.94	9.37	19.58	12.89	19.29	16.4	19.02	19.92	18.78	23.43	18.57	26.94	18.36	30.46	18.17	33.97	17.99	37.49
	1850	21.63	6.19	21.17	9.91	20.81	13.62	20.52	17.34	20.25	21.05	20.01	24.77	19.79	28.48	19.59	32.2	19.4	35.91	19.22	39.63
	1950	22.86	6.53	22.4	10.44	22.04	14.36	21.74	18.28	21.48	22.19	21.24	26.11	21.02	30.02	20.82	33.94	20.63	37.86	20.45	41.77
	2050	24.09	6.86	23.63	10.98	23.27	15.1	22.97	19.21	22.71	23.33	22.47	27.45	22.25	31.56	22.05	35.68	21.86	39.8	21.68	43.91
	2150	25.32	7.2	24.86	11.51	24.5	15.83	24.2	20.15	23.94	24.47	23.7	28.79	23.48	33.1	23.28	37.42	23.09	41.74	22.91	46.06
	2250	26.55	7.53	26.09	12.05	25.73	16.57	25.43	21.09	25.17	25.61	24.93	30.12	24.71	34.64	24.51	39.16	24.32	43.68	24.14	48.2
	2350	27.78	7.87	27.32	12.59	26.96	17.3	26.66	22.02	26.4	26.74	26.16	31.46	25.94	36.18	25.74	40.9	25.55	45.62	25.37	50.34
	2450	29.01	8.2	28.55	13.12	28.19	18.04	27.89	22.96	27.63	27.88	27.39	32.8	27.17	37.72	26.97	42.64	26.78	47.56	26.6	52.48
	2550	30.24	8.54	29.78	13.66	29.42	18.78	29.12	23.9	28.86	29.02	28.62	34.14	28.4	39.26	28.2	44.38	28.01	49.5	27.83	54.63
	2650	31.47	8.87	31.01	14.19	30.65	19.51	30.35	24.84	30.09	30.16	29.85	35.48	29.63	40.8	29.43	46.12	29.24	51.45	29.06	56.77
	2750	32.7	9.2	32.23	14.73	31.88	20.25	31.58	25.77	31.32	31.3	31.08	36.82	30.86	42.34	30.66	47.86	30.47	53.39	30.28	58.91
	2850	33.93	9.54	33.46	15.26	33.11	20.99	32.81	26.71	32.55	32.43	32.31	38.16	32.09	43.88	31.89	49.6	31.7	55.33	31.51	61.05
	2950	35.16	9.87	34.69	15.8	34.34	21.72	34.04	27.65	33.78	33.57	33.54	39.5	33.32	45.42	33.12	51.34	32.92	57.27	32.74	63.19
	3050	36.39	10.21	35.92	16.33	35.57	22.46	35.27	28.58	35.01	34.71	34.77	40.83	34.55	46.96	34.35	53.09	34.15	59.21	33.97	65.34
3150	37.62	10.54	37.15	16.87	36.8	23.2	36.5	29.52	36.24	35.85	36	42.17	35.78	48.5	35.58	54.83	35.38	61.15	35.2	67.48	
3250	38.84	10.88	38.38	17.41	38.03	23.93	37.73	30.46	37.47	36.99	37.23	43.51	37.01	50.04	36.8	56.57	36.61	63.09	36.43	69.62	
3350	40.07	11.21	39.61	17.94	39.26	24.67	38.96	31.4	38.7	38.12	38.46	44.85	38.24	51.58	38.03	58.31	37.84	65.03	37.66	71.76	
3450	41.3	11.55	40.84	18.48	40.29	25.4	40.19	32.33	39.92	39.26	39.69	46.19	39.47	53.12	39.26	60.05	39.07	66.98	38.89	73.9	
3550	42.53	11.88	42.07	19.01	41.72	26.14	41.42	33.27	41.15	40.4	40.92	47.53	40.7	54.66	40.49	61.79	40.3	68.92	40.12	76.05	
GTX-150	1650	28.4	8.07	27.88	12.91	27.48	17.76	27.15	22.6	26.85	27.44	26.58	32.29	26.34	37.13	26.11	41.97	25.89	46.82	25.69	51.66
	1750	30.2	8.56	29.68	13.7	29.28	18.83	28.94	23.97	28.65	29.11	28.38	34.24	28.13	39.38	27.9	44.52	27.69	49.65	27.49	54.79
	1850	31.99	9.05	31.47	14.48	31.08	19.91	30.74	25.34	30.44	30.77	30.18	36.2	29.93	41.63	29.7	47.06	29.49	52.49	29.28	57.92
	1950	33.79	9.54	33.27	15.26	32.87	20.99	32.54	26.71	32.24	32.43	31.97	38.16	31.73	43.88	31.5	49.6	31.28	55.33	31.08	61.05
	2050	35.59	10.03	35.07	16.05	34.67	22.06	34.33	28.08	34.04	34.1	33.77	40.11	33.52	46.13	33.3	52.15	33.08	58.17	32.88	64.18
	2150	37.38	10.52	36.86	16.83	36.47	23.14	36.13	29.45	35.83	35.76	35.57	42.07	35.32	48.38	35.09	54.69	34.88	61	34.67	67.31
	2250	39.18	11.01	38.66	17.61	38.26	24.22	37.93	30.82	37.63	37.42	37.36	44.03	37.12	50.63	36.89	57.24	36.67	63.84	36.47	70.44
	2350	40.98	11.5	40.46	18.39	40.06	25.29	39.72	32.19	39.43	39.09	39.16	45.98	38.92	52.88	38.69	59.78	38.47	66.68	38.27	73.57
	2450	42.77	11.99	42.26	19.18	41.86	26.37	41.52	33.56	41.23	40.75	40.96	47.94	40.71	55.13	40.48	62.32	40.27	69.51	40.07	76.71
	2550	44.57	12.47	44.05	19.96	43.65	27.44	43.32	34.93	43.02	42.41	42.76	49.9	42.51	57.38	42.28	64.87	42.07	72.35	41.86	79.84

## Performance parameters

QS = m3/min, Pressure(mmAq)

Type	RPM	1000mmAq		2000mmAq		3000mmAq		4000mmAq		5000mmAq		6000mmAq		7000mmAq		8000mmAq		9000mmAq		10000mmAq	
		Qs	kw	Qs	kw																
GTX-150	2650	46.37	12.96	45.85	20.74	45.45	28.52	45.12	36.3	44.82	44.08	44.55	51.85	44.31	59.63	44.08	67.41	43.86	75.19	43.66	82.97
	2750	48.17	13.45	47.65	21.52	47.25	29.6	46.91	37.67	46.62	45.74	46.35	53.81	46.1	61.88	45.87	69.95	45.66	78.03	45.46	86.1
GTX-200	1470	33.69	9.71	32.88	15.53	32.26	21.35	31.74	27.17	31.27	33	30.86	38.82	30.47	44.64	30.12	50.74	29.78	56.29	29.46	62.11
	1560	35.88	10.3	35.07	16.48	34.44	22.66	33.92	28.84	33.46	35.02	33.04	41.2	32.66	47.38	32.3	53.56	31.96	59.74	31.64	65.92
	1650	38.06	10.89	37.25	17.43	36.63	23.97	36.1	30.5	35.64	37.04	35.22	43.57	34.84	50.11	34.48	56.65	34.15	63.18	33.83	69.72
	1750	40.49	11.55	39.67	18.49	39.05	25.42	38.53	32.35	38.07	39.28	37.65	46.22	37.26	53.15	36.91	60.08	36.57	67.01	36.25	73.94
	1850	42.91	12.21	42.1	19.54	41.48	26.87	40.95	34.2	40.49	41.53	40.07	48.86	39.69	56.18	39.33	63.51	39	70.84	38.68	78.17
	1950	45.34	12.87	44.52	20.6	43.9	28.32	43.38	36.05	42.92	43.77	42.5	51.5	42.11	59.22	41.76	66.95	41.42	74.67	41.1	82.39
	2050	47.76	13.53	46.95	21.66	46.33	29.78	45.8	37.9	45.34	46.02	44.92	54.14	44.54	62.26	44.18	70.38	43.85	78.5	43.53	86.62
	2150	50.19	14.19	49.38	22.71	48.75	31.23	48.23	39.74	47.77	48.26	47.35	56.78	46.96	65.3	46.61	73.81	46.27	82.33	45.95	90.85
	2250	52.61	14.85	51.8	23.77	51.18	32.68	50.65	41.59	50.19	50.51	49.77	59.42	49.39	68.33	49.03	77.25	48.7	86.16	48.38	95.07
	2350	55.04	15.52	54.23	24.82	53.6	34.13	53.08	43.44	52.62	52.75	52.2	62.06	51.82	71.37	51.46	80.68	51.12	89.99	50.8	99.3
	2450	57.46	16.18	56.65	25.88	56.03	35.59	55.5	45.29	55.04	55	54.62	64.7	54.24	74.41	53.88	84.11	53.55	93.82	53.23	103.5
	2550	59.89	16.84	59.08	26.94	58.45	37.04	57.93	47.14	57.47	57.24	57.05	67.34	56.67	77.44	56.31	87.54	55.97	97.65	55.65	107.8
2650	62.31	17.5	61.5	27.99	60.88	38.49	60.36	48.99	59.89	59.49	59.48	69.98	59.09	80.48	58.73	90.98	58.4	101.5	58.08	112	
GTX-250	1320	60.63	17.17	59.62	27.48	58.84	37.78	58.18	48.08	57.61	58.38	57.08	68.69	56.6	78.99	56.16	89.29	55.74	99.6	55.34	109.9
	1390	63.98	18.08	62.96	28.93	62.19	39.78	61.53	50.63	60.95	61.48	60.43	72.33	59.95	83.18	59.5	94.03	59.08	104.9	58.68	115.7
	1480	68.28	19.25	67.26	30.81	66.49	42.36	65.83	53.91	65.25	65.46	64.73	77.01	64.25	88.57	63.8	100.1	63.38	111.7	62.99	123.2
	1560	72.1	20.29	71.09	32.47	70.31	44.65	69.65	56.82	69.08	69	68.55	81.18	68.07	93.35	67.63	105.5	67.21	117.7	66.81	129.9
	1650	76.4	21.46	75.39	34.34	74.61	47.22	73.95	60.1	73.38	72.98	72.85	85.86	72.37	98.74	71.93	111.6	71.51	124.5	71.11	137.4
	1750	81.18	22.77	80.17	36.43	79.39	50.08	78.73	63.74	78.16	77.4	77.63	91.06	77.15	104.7	76.71	118.4	76.29	132	75.89	145.7
	1850	85.96	24.07	84.95	38.51	84.17	52.95	83.51	67.39	82.93	81.83	82.41	96.27	81.93	110.7	81.48	125.2	81.06	139.6	80.67	154
	1950	90.74	25.37	89.73	40.59	88.95	55.81	88.29	71.03	87.71	86.25	87.19	101.5	86.71	116.7	86.26	131.9	85.84	147.1	85.45	162.4
	2050	95.52	26.67	94.5	42.67	93.73	58.67	93.07	74.67	92.49	90.67	91.97	106.7	91.49	122.7	91.04	138.7	90.62	154.7	90.23	170.7
	2150	100.3	27.97	99.28	44.75	98.51	61.53	97.85	78.31	97.27	95.1	96.75	111.9	96.27	128.7	95.82	145.4	95.4	162.2	95	179
GTX-300A	1050	64.04	18.21	62.85	29.14	61.94	40.07	61.17	51	60.5	61.92	59.88	72.85	59.32	83.78	58.8	94.71	58.31	105.6	57.84	116.6
	1110	67.86	19.25	66.67	30.81	65.76	42.36	64.99	53.91	64.32	65.46	63.71	77.01	63.14	88.57	62.62	100.1	62.13	111.7	61.66	123.2
	1180	72.32	20.47	71.13	32.75	70.22	45.03	69.46	57.31	68.78	69.59	68.17	81.87	67.6	94.15	67.08	106.4	66.59	118.7	66.12	131
	1250	76.78	21.68	75.59	34.69	74.68	47.7	73.92	60.71	73.24	73.72	72.63	86.73	72.06	99.74	71.54	112.8	71.05	125.8	70.58	138.8
	1320	81.24	22.9	80.05	36.63	79.14	50.37	78.38	64.11	77.7	77.85	77.09	91.58	76.53	105.3	76	119.1	75.51	132.8	75.04	146.5
	1390	85.7	24.11	84.51	38.58	83.6	53.04	82.84	67.51	82.16	81.97	81.55	96.44	80.99	110.9	80.46	125.4	79.97	139.8	79.5	154.3
	1480	91.44	25.67	90.25	41.07	89.34	56.48	88.57	71.88	87.89	87.28	87.28	102.7	86.72	118.1	86.2	133.5	85.7	148.9	85.24	164.3
	1560	96.53	27.06	95.35	43.29	94.44	59.53	93.67	75.76	92.99	92	92.38	108.2	91.82	124.5	91.29	140.7	90.8	156.9	90.34	173.2
	1650	102.3	28.62	101.1	45.79	100.2	62.96	99.4	80.14	98.73	97.31	98.11	114.5	97.55	131.7	97.03	148.8	96.54	166	96.07	183.2
	1750	108.6	30.35	107.5	48.57	106.5	66.78	105.8	84.99	105.1	103.2	104.5	121.4	103.9	139.6	103.4	157.8	102.9	176.1	102.4	194.3
1850	115	32.09	113.8	51.34	112.9	70.6	112.2	89.85	111.5	109.1	110.9	128.4	110.3	147.6	109.8	166.9	109.3	186.1	108.8	205.4	
GTX-300	1050	91.19	25.88	89.58	41.4	88.35	56.93	87.31	72.46	86.4	87.98	85.57	103.5	84.81	119	84.1	134.6	83.44	150.1	82.81	165.6
	1110	96.62	27.36	95.01	43.77	93.78	60.18	92.74	76.6	91.83	93.01	91	109.4	90.24	125.8	89.53	142.3	88.87	158.7	88.24	175.1
	1180	103	29.08	101.4	46.53	100.1	63.98	99.08	81.43	98.17	98.88	97.34	116.3	96.58	133.8	95.87	151.2	95.21	168.7	94.58	186.1
	1250	109.3	30.81	107.7	49.29	106.5	67.77	105.4	86.26	104.5	104.7	103.7	123.2	102.9	141.7	102.2	160.2	101.5	178.7	100.9	197.2
	1320	115.6	32.53	114	52.05	112.8	71.57	111.8	91.09	110.8	110.6	110	130.1	109.3	149.7	108.6	169.2	107.9	188.7	107.3	208.2
	1390	122	34.26	120.4	54.81	119.1	75.36	118.1	95.92	117.2	116.5	116.4	137	115.6	157.6	114.9	178.1	114.2	198.7	113.6	219.2
	1480	130.1	36.47	128.5	58.36	127.4	80.24	124.2	102.1	125.3	124	124.5	145.9	123.7	167.8	123	189.7	122.4	211.6	121.7	233.4
	1560	137.4	38.45	135.8	61.51	134.5	84.58	133.5	107.7	132.6	130.7	131.7	153.8	131	176.9	130.3	199.9	129.6	223	129	246.1
	1650	145.5	40.66	143.9	65.06	142.7	89.46	141.6	113.9	140.7	138.3	139.9	162.7	139.1	187.1	138.4	211.5	137.8	235.9	137.1	260.3
	1750	154.6	43.13	153	69.01	151.7	94.88	150.7	120.8	149.8	146.6	148.9	172.5	148.2	198.4	147.5	224.3	146.8	250.2	146.2	276
1850	163.6	45.59	162	72.95	160.8	100.3	159.7	127.7	158.8	155	158	182.4	157.2	209.7	156.5	237.1	155.9	264.4	155.2	291.8	

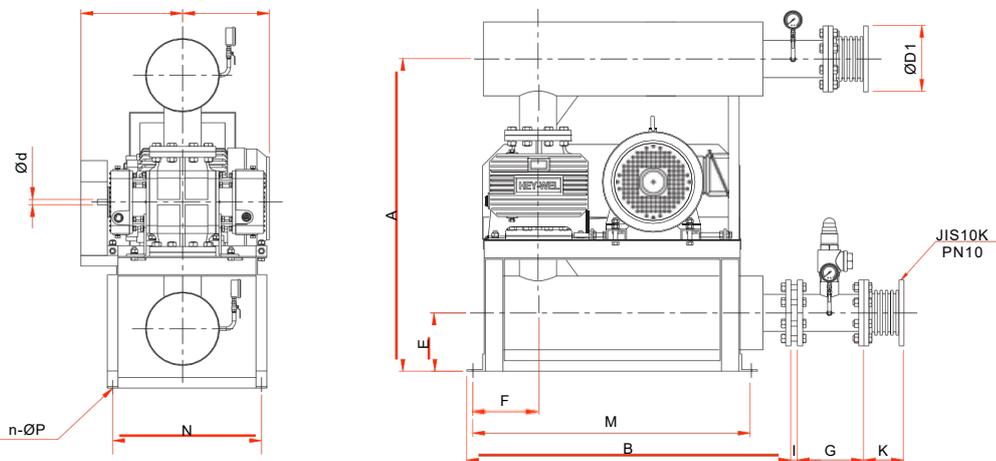
## Main-body dimension



Unit : mm

Model	A	B	ØC	D	E	F	G	H	I	Q	S	V	ØW	X	Y	Y2	M	N	O	n-ØP
GTX 65	240	254	14	290	294	220	242	171	45	315.5	26.5	274	28	8	24	24	75	145	185	4-M16
GTX 80	240	334	14	290	374	260	282	171	45	315.5	26.5	274	28	8	24	24	75	160	200	8-M16
GTX-100	320	314	14	380	374	320	289	206	60	397	15	370	38	10	33	33	116	180	220	8-M16
GTX-150	320	364	14	380	424	345	314	206	60	397	15	370	38	10	33	33	142	210	250	8-M20
GTX-200	350	406	19	430	446	400	380	248.5	80	481	16	474	48	14	42.5	42.5	167	240	285	8-M20
GTX-250	350	526	19	430	566	460	440	248.5	80	481	16	474	48	14	42.5	42.5	167	240	285	8-M20
GTX-300M	475	530	19	540	586	476	440	290	100	495	85	590	55	16	49	49	200	295	340	8-M20
GTX-125	510	636	22	620	686	545	592	313	120	620	6	680	70	18	58	58	200	350	395	12-M20
GTX-150M	655	535	24	720	660	514	667	315	120	630		680	65	20	62.5	62.5	300	350	445	12-M20

## Installation dimension



Unit : mm

Model	A	B	C	D	ØD1	E	F	G	I	K	M	N	Ød	n-ØP
GTX-65	825.5	790	262	242	160	181.5	187	150	24	115	714	370	28	4-Ø19
GTX-80	1050.5	874	295	282	220	291.5	257	180	24	110	934	450	28	4-Ø19
GTX-100	1127	990	358	289	233	285	247	180	22	136	1044	560	38	4-Ø19
GTX-125	1187	1220	383	314	250	225	247	250	24	174	1044	560	38	4-Ø19
GTX-150A	1321	1246	445	380	330	211	205	250	26	185	1020	630	48	4-Ø19
GTX-150	1276	1246	512	460	330	208.5	205	250	26	185	1020	630	48	4-Ø19
GTX-200	1660	1487.5	545	440	370	320	255	250	27	205	1245	660	60	4-Ø22
GTX-250	1800	1652.5	603	592.5	400	325	365	250	28	240	1510	735	65	4-Ø24
GTX-300A	1880	1902.5	685.5	667.5	500	350	445	300	32	260	1775	845	90	4-Ø24
GTX-300	2030	1950	785	590	500	380	492.5	300	32	260	1825	925	90	4-Ø24



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