

AUGUST

Compressors

XGT & XPT SERIES

Two - Stage Air Compressor





TWO-STAGE AIR COMPRESSOR XGT & XPT SERIES

Efficient Two-stage Air End

- The first stage compression unit and the second stage compression unit are integrated in one body, direct transmission through helical gear, each stage of the screw get the high quality linear speed.
- After the first stage compression, Isobaric compression by enhanced fuel injection cooling, reduces the two stage suction temperature, ensures that the two-stage compression unit is close to isothermal compression, reduces the compression work.
- Reasonable distribution of compression ratio, optimization of bearing design. Two-stage compression can produce 15% more air than single compressing, and energy saving by 15%.

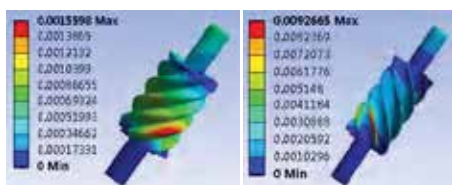


New generation of efficient XA series rotor profile

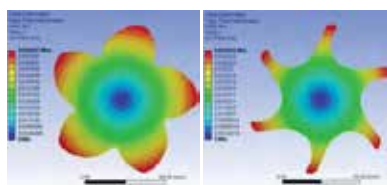
- The new generation XA series rotor type line, the male and female rotor 6:5 gear ratio design.
- Adopt SKF high-efficiency bearing, bearing design life $\geq 100,000$ hours.
- Large rotor, low speed, high precision, low noise, high reliability, long life design concept, adhering to the business tenet of "high efficiency, energy saving, reliability and durable", to provide high quality products.



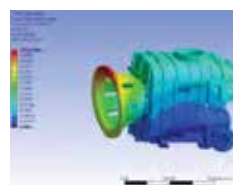
Finite Element Assisted Optimization Design



Rotor stress analysis



Rotor thermal deformation analysis



Modal fuselage analysis

High Quality Components



Professional efficacy permanent magnet motor

- Protection grade IP55, insulation class F, adapt to various harsh condition
- Select the special anti-corona enameled wire for permanent magnet frequency conversion, effectively prevent the damage of the high-order harmonics caused by the inverter drive to the enameled wire insulation layer, and prevent the "burning" caused by insulation damage.
- Independent cooling fan design, so that the heat dissipation of the motor is not affected by the frequency conversion speed regulation



High performance current vector inverter

- Choose domestic high-end brands, stable operation and long life
- Vector air supply, accurate calculation, to ensure that the air compressor production capacity is perfectly matched to the user system gas demand
- Accurate calculation of heat dissipation design, ambient temperature 50 °C can still work freely, prevent high temperature shutdown in summer



Energy efficient filtration system

- Air filter: independent air intake, directly sucking outside the unit's low temperature air to improve the efficiency of the whole machine
- Oil filter: AUGUST special 10μm precision oil filter to provide clean and clean lubricant for the main engine
- Oil and gas separation filter: imported polymer filter material, export gas oil content <3PPm, providing clean and reliable compressed air



Mixed-flow system temperature control valve

- In order to ensure that the injection temperature between the stages is always above the pressure dew point temperature, the XG(P)T two-stage compression series adopts the patented design mixed flow system temperature control valve to regulate the lubricating oil injection temperature, and the interstage cooling effect is achieved at the same time. The formation of condensed water avoids the corrosion of the two-stage compression mainframe and the emulsification of the system oil



High efficiency cooler

- Large amount of heat dissipation area design, strong heat dissipation effect, prevent high temperature shutdown
- Dual fan design, determine the number of starting
- fans based on exhaust temperature
Axial cooling fan, large air volume, suction structure, uniform heat dissipation



Intelligent microcomputer control system

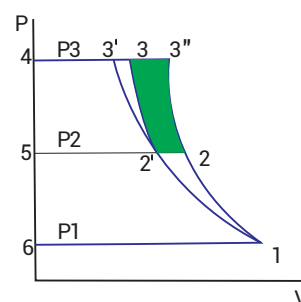
- Fully automatic operation, easy to get started, no special training required by operators
- Can realize calculation and remote monitoring, start and stop and multiple air compressor joint control
- Optional IoT module, external cloud intelligent management system, real-time master unit operation status

High Quality Components

According to the working principle of screw compressor, isothermal compression process is the most energy saving. The picture on the right shows the dynamometer of the overall compression process.

- The curve 1-2n-3' is an isothermal compression process, the area formed with the y coordinate 6-1-3'-4, is isothermal compression indicated work
- The curve 1-2-3'' is a normal single-stage compression process, the area formed with the y coordinate 6-1-3''-4 is single-stage compression indicated work
- The curve 1-2-2'-3 is XINDA two stage compression process, the area formed with the y coordinate 6-1-2-2'-3-4, is XINDA stage compression indicated

From the diagram that the area (indicating work) of the isothermal compression process is the smallest, but the isothermal compression cannot be achieved in the actual compression process of the compressor. The single-stage compression process has a 1-3-'' area (indicating work) more than isothermal compression, while the two-stage compression of XINDA saves 2-2ng-3-3'' area (indicating work) compared with single-stage compression.



Note:

1-2n-3' is an isothermal compression process

1-2-3'' is a normal single-stage compression process

XG(P)T Normal Pressure Series

Model	Motor Power (KW /HP)	Discharge Pressure (MPa)	Free Air Delivery (m³/min)	W eight (kg)	Noise dB (A)±3	O verall Dimension (L×W×H mm)	Air Supply O ut
XG(P)T37/7	37/50	0.7	2.34-7.8	950(990)	72	1653 × 1003 × 1343	1-1/2"
XG(P)T37/8		0.8	2.28-7.6				
XG(P)T37/10		1.0	2.04-6.8				
XG(P)T37/13		1.3	1.62-5.4				
XG(P)T45/7	45/60	0.7	3.15-10.5	1860(1900)	74	2400 × 1500 × 1700	2"
XG(P)T45/8		0.8	2.85-9.5				
XG(P)T45/10		1.0	2.55-8.5				
XG(P)T45/13		1.3	2.25-7.5				
XG(P)T55/7	55/75	0.7	3.9-13.0	2220(2270)	75	2400 × 1500 × 1700	2"
XG(P)T55/8		0.8	3.6-12.0				
XG(P)T55/10		1.0	3.15-10.5				
XG(P)T55/13		1.3	2.85-9.5				
XG(P)T75/7	75/100	0.7	4.95-16.5	2220(2270)	75	2400 × 1500 × 1700	2"
XG(P)T75/8		0.8	4.56-15.2				
XG(P)T75/10		1.0	4.05-13.5				
XG(P)T75/13		1.3	3.6-12.0				
XG(P)T90/7	90/120	0.7	6.15-20.5	3770(3900)	80	3064(3464) × 1864 × 1870	DN65
XG(P)T90/8		0.8	5.7-19.0				
XG(P)T90/10		1.0	4.95-16.5				
XG(P)T90/13		1.3	4.35-14.5				
XG(P)T110/7	110/150	0.7	7.2-24.0	3850(3980)	80	3064(3464) × 1864 × 1870	DN65
XG(P)T110/8		0.8	6.75-22.5				
XG(P)T110/10		1.0	6.15-20.5				
XG(P)T110/13		1.3	5.25-17.5				
XG(P)T132/7	132/180	0.7	8.64-28.8	3900(4030)	81	3064(3464) × 1864 × 1870	DN65
XG(P)T132/8		0.8	7.98-26.6				
XG(P)T132/10		1.0	7.32-24.4				
XG(P)T132/13		1.3	6.3-21.0				
XG(P)T160/7	160/215	0.7	11.25-37.5	5750(5850)	82	3794 × 2114 × 2080	DN100
XG(P)T160/8		0.8	9.9-33.0				
XG(P)T160/10		1.0	9.0-30.0				
XG(P)T160/13		1.3	7.8-26.0				
XG(P)T185/7	185/250	0.7	12.75-42.5	5850(5950)	82	3794 × 2114 × 2080	DN100
XG(P)T185/8		0.8	11.7-39.0				
XG(P)T185/10		1.0	10.35-34.5				
XG(P)T185/13		1.3	9.15-30.5				

XGT & XPT SERIES

Model	Motor Power (KW /HP)	Discharge Pressure (MPa)	Free Air Delivery (m³/min)	Weight (kg)	Noise dB(A)±3	Overall Dimension (L×W×H mm)	Air Supply Out
XG(P)T200/7	200/270	0.7	13.5-45.0	5950(6050)	83	3794×2114×2080	DN100
XG(P)T200/8		0.8	12.75-42.5				
XG(P)T200/10		1.0	11.4-38.0				
XG(P)T200/13		1.3	9.9-33.0				
XG(P)T220/7	220/295	0.7	14.4-48.0	7000(7150)	85	4066×2116×2080	DN125
XG(P)T220/8		0.8	13.5-45.0				
XG(P)T220/10		1.0	12.0-40.0				
XG(P)T220/13		1.3	10.5-35.0				
XG(P)T250/7	250/335	0.7	16.8-56.0	7770(7900)	85	4066×2116×2080	DN125
XG(P)T250/8		0.8	15.06-50.2				
XG(P)T250/10		1.0	13.5-45.0				
XG(P)T250/13		1.3	12.0-40.0				
XG(P)T280/7	280/375	0.7	18.3-61.0	8630(8800)	86	4466×2366×2198	DN125
XG(P)T280/8		0.8	17.1-57.0				
XG(P)T280/10		1.0	15.0-50.0				
XG(P)T280/13		1.3	13.5-45.0				
XG(P)T315/7	315/430	0.7	19.5-65.0	8780(8950)	87	4466×2366×2198	DN125
XG(P)T315/8		0.8	18.6-62.0				
XG(P)T315/10		1.0	16.8-56.0				
XG(P)T315/13		1.3	15.0-50.0				
XG(P)T355/7	355/475	0.7	22.8-76.0	9830(9980)	90	5343×2723×2700	DN125
XG(P)T355/8		0.8	21.6-72.0				
XG(P)T355/10		1.0	19.5-65.0				
XG(P)T355/13		1.3	18.3-61.0				
XG(P)T400/7W	400/535	0.7	27.9-93.0	9080(9200)	92	5343×2723×2700	DN150
XG(P)T400/8W		0.8	24.6-82.0				
XG(P)T400/10W		1.0	22.8-76.0				
XG(P)T400/13W		1.3	21.0-70.0				
XG(P)T450/7W	450/605	0.7	30.0-100.0	9230(9350)	93	5343×2723×2700	DN150
XG(P)T450/8W		0.8	27.9-93.0				
XG(P)T450/10W		1.0	24.6-82.0				
XG(P)T450/13W		1.3	22.8-76.0				

Note: 1. XGT is fixed speed type ,XPT is VSD type
2. Outlet size ≤2" is nipple, > 2" is flange

AJ AUGUST

INDONESIA JAYA

Jakarta

Komplek Gading Bukit Indah Blok V No. 23
Kelapa Gading - Jakarta Utara 14240
Indonesia
Telp : +62 21 2938 2790

Bandung

Taman Holis Indah Blok E4 No. 21
Kel. Cigondewah Kidul Kec. Bandung Kulon
Bandung, Jawa Barat 40214
Indonesia
Telp : +62 22 2057 3429

Solo

Jl. Raya Solo Sragen KM.15 Dukuh Nglarangan RT.03/RW.01
Kel.Kebak, Kec. Kebakramat, Kab.Karanganyar,
Jawa Tengah 57762
Indonesia
Telp : +62 271 601 2023

Workshop

Pergudangan Central Cakung Business Park
Blok D No. 11 Jl. Cakung Cilincing Timur KM 3
Jakarta Utara 14140
Indonesia