

Турбомолекулярные насосы STP MAGLEV

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

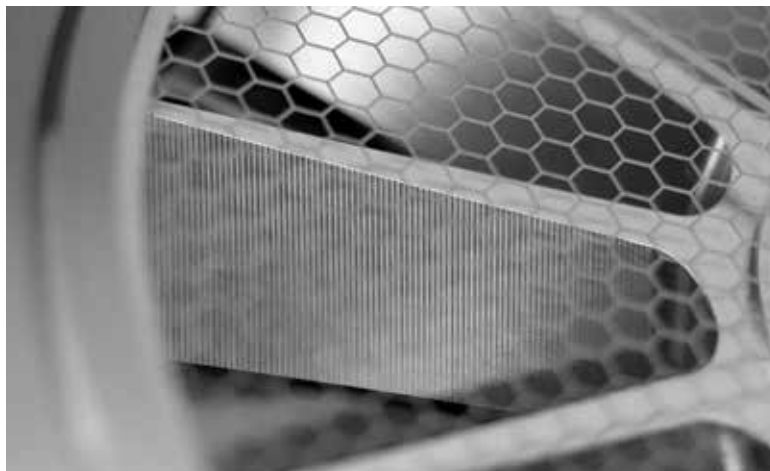
Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: ewc@nt-rt.ru || сайт: <https://edwards.nt-rt.ru/>

STP MAGLEV TURBOMOLECULAR PUMPS



STP maglev turbomolecular pumps are the first choice for applications demanding high up-time, hydrocarbon-free pumping, minimal maintenance and low vibration. The multi-axis magnetic bearing system is used to suspend the rotor during operation, ensuring there is no risk of contamination while minimising noise and vibration.

The STP maglev turbomolecular pump range has a market leading reputation for quality and reliability and are the preferred choice for many of the most challenging semiconductor applications. For laboratory applications this makes STP maglev turbomolecular pumps extremely reliable and normally maintenance free.



PRODUCT FEATURES

VIBRATION FREE

magnetic levitation means no friction and thus extremely low vibration, in addition this remains constant and does not change as parts wear.

OIL FREE

the use of magnetic bearings eliminates all hydrocarbon lubricants.

AUTOMATIC BALANCING SYSTEM

Edwards 5-axis pumps are able to adjust the magnetic field dynamically to take out rotor imbalances.

MAINTENANCE FREE

zero friction means no wear and thus no routine maintenance is required in normal operation.

CORROSION RESISTANCE

most models of Edwards STP maglev turbomolecular pumps are also available in a special corrosion resistant version with nickel coated rotors and a nitrogen purge facility, making them ideal for chemical laboratory applications.

Technical data

		Units	STP301 DN100	STPL301 DN100	STP451 DN160	STP451L DN160	STPiX455 DN100	STPiXU457 DN100	STPiX457 DN160	STPiXU457 DN160
Vacuum data										
Pumping speed	N ₂	ls ⁻¹	300	260	480	450	300		450	420
	H ₂		300	290	460	410	300		460	410
Compression ratio	N ₂		>10 ⁸							
	H ₂		2 x 10 ⁴				1 x 10 ⁴			
Ultimate vacuum (CF)		mbar	<1 x 10 ⁻¹⁰				<1 x 10 ⁻⁹			
Maximum flow rate	N ₂	sccm	-				120			
Maximum inlet pressure		mbar	6.7 x 10 ⁻⁴				3.2 x 10 ⁻³			
Maximum backing pressure		mbar	0.13				0.67			
Motor data										
Maximum power consumption		W	350				240			
Nominal rotational speed		rpm	48,000				55,000			
Physical data										
Weight		kg	11	13	12	14	16	19	16	19
Vibration		µm	<0.01		<0.01		<0.005	<0.0001	<0.005	<0.0001
Inlet connection			ISO100 or CF100		ISO160 or CF160		ISO100 or CF100		ISO160 or CF160	
Backing connection			NW25							
Run-up time		secs	180				480			
Magnetic field tolerance axial/radial		mT	15/3							
Orientation of installation							Any			
Cooling method			Ambient/Air/Water				Ambient/Air			
Maximum flange temperature during bakeout (CF only)		°C	120							
Bearing technology			3 axis magnetically levitated				5 axis magnetically levitated			
Controller type			External				Integrated			
Power supply type			External				External			
Interfaces			RS232, I/O							
Optional interfaces			Profibus				Profibus, EtherCAT			



STP301



STP451



STPL301



STPL451

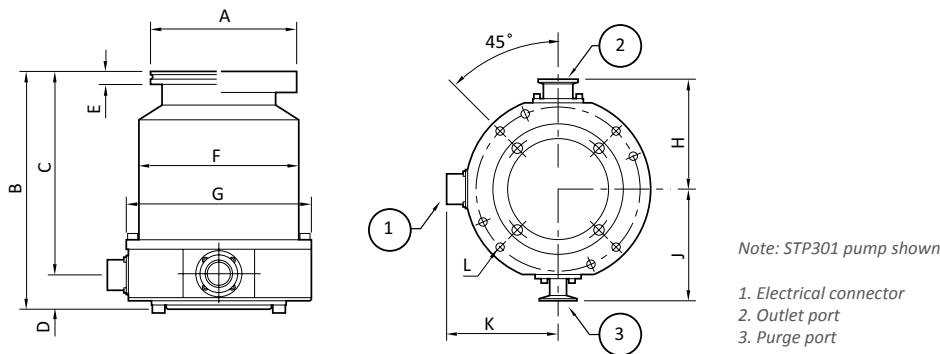


STPiX457



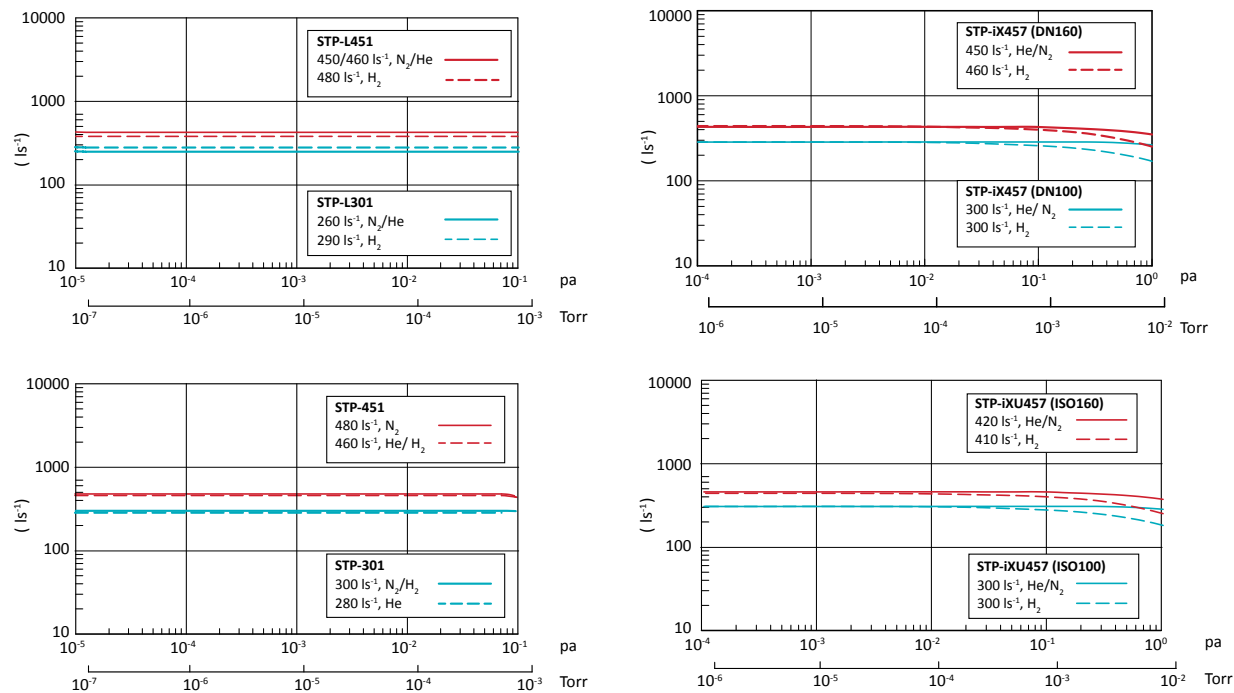
STPiXU457

Dimensions



	A	B	C	D	E	F	G	H	J	K	L
STP301	Ø130 ISO100	230	197	33	12	Ø156	Ø180	108	110	100	8 x M8 x 16
	Ø152 DN100CF				22						
STP451	Ø180 ISO160	200	167		12						
	Ø203 DN160CF				22						
STPL301	Ø130 ISO100	240	207		12	Ø180	Ø180	108	110	100	8 x M8 x 16
	Ø152 DN100CF	260	227		22						
STPL451	Ø180 ISO160	250	217		12	Ø214					
	Ø203 DN160CF	270	237		22						
STPiX457	Ø130 ISO100	286	264	22	12	Ø152	Ø180	108	124	101	4 x M10 x 18
	Ø152 DN100CF				22						
	Ø180 ISO160	256	234		12						
	Ø203 DN160CF				22						
STPiXU457	Ø130 ISO100	321	299		12	Ø180	Ø180	108	124	101	4 x M10 x 18

Performance



Ordering information

Pumps:

Product description	Order number
STP301	
STP301 ISO100	YT21B0350
STP301 CF100	YT21B0010
STPL301 ISO100	YT47B0030
STPL301 CF100	YT470Z000
STP451	
STP451 ISO160	YT21B0460
STP451 CF160	YT21B0080
STPL451 ISO160	YT47B0150
STPL451 CF160	YT74B0010
STPiX457	
STPiX457 ISO100	YT860Z120
STPiX457 CF100	YT860Z150
STPiX457 ISO160	YT860Z130
STPiX457 CF160	YT860Z160
STPiXU457	
STPiXU457 ISO100	YT862Z160
STPiXU457 CF100	YT862Z120
STPiXU457 ISO160	YT862Z140
STPiXU457 CF160	YT862Z150

Accessories and spares:

Pump		Product description	Order number
STP301/451	Controller ⁽¹⁾	SCU350 100-240V	YT21Z0Z01
		SCU350 100-240V with RS232	YT21ZEZ20
	Pump to controller cables ⁽¹⁾	3m cable	B70700010
		5m cable	B70700000
		10m cable	B70700130
		20m cable	B70700150
		30m cable	PT21Y0B00
	Mains cables ⁽¹⁾	3m	B70700090
		5m	B70700040
		10m	PT21Y0A00
	Cooling	115V air cooler	YT011A003
		220-240V air cooler	YT011A005
		Water cooling kit	YT21CA001
STPiX457	Power supply with display ⁽¹⁾	iPD240 AC power supply 240V	YT86W0Z00
	Pump to power supply cables ⁽¹⁾	2.5m cable	YT86Y0B15
		5m cable	YT86Y0B20
		10m cable	YT86Y0B30
		15m cable	YT86Y0B40
		20m cable	YT86Y0B50
	Mains cables ⁽¹⁾	3m	PT64Y1A10
		5m	PT64Y1A20
		10m	PT64Y1A30
	Cooling*	24Vdc air cooler	YT860U201
		100-240V air cooler	YT860U301
	Vent valve*	Vent valve	YT860T211
All	Bakeout	CF100 100-120 V flange heater	B58052773
		CF100 200-240 V flange heater	B58052774
		CF160 100-120 V flange heater	B58052775
		CF160 200-240 V flange heater	B58052776

* Only 1 accessory can be controlled by the pump, so if fitting both air cooler and vent valve we recommend fitting vent valve to pump and using a mains air cooler

(1) denotes required accessory, others are optional depending on application



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: ewc@nt-rt.ru || сайт: <https://edwards.nt-rt.ru/>