



# HiPace<sup>®</sup> 700 H with TCP 350, DN 160 ISO-F



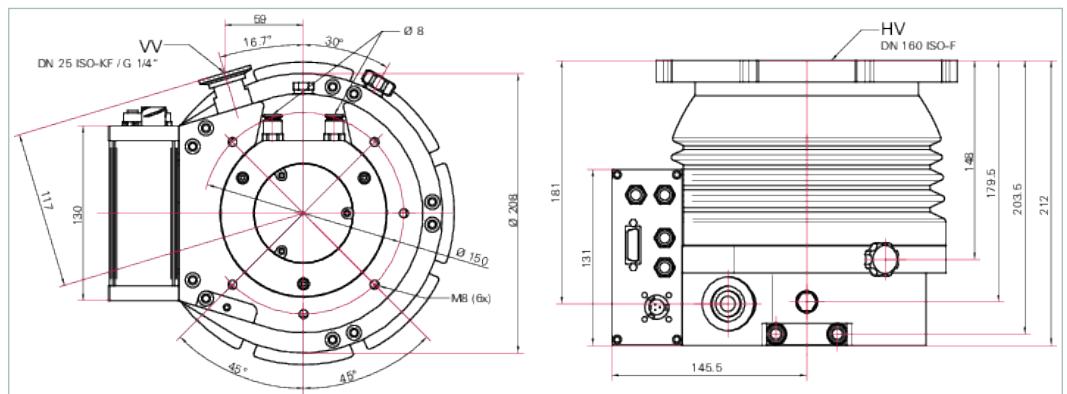


Similar Image

## HiPace® 700 H with TCP 350, DN 160 ISO-F

- Compact yet powerful turbopump with a pumping speed of up to 685 l/s for N<sub>2</sub>
- Maximum vacuum performance with minimum power consumption
- For installation in any orientation
- External TCP 350 drive electronics
- Integrated, powerful cooling system

### Dimensions



Technical Data	HiPace® 700 H with TCP 350, DN 160 ISO-F
Bearing	Hybrid
Compression ratio for Ar	$> 1 \cdot 10^{13}$
Compression ratio for H <sub>2</sub>	$2 \cdot 10^7$
Compression ratio for He	$1 \cdot 10^9$
Compression ratio for N <sub>2</sub>	$> 1 \cdot 10^{13}$
Cooling method, optional	Air
Cooling method, standard	Water
Cooling water flow	100 l/h
Cooling water flow, max	100 l/h
Cooling water flow, min	100 l/h
Cooling water temperature	15-35 °C   59-95 °F   288-308 K
Electronic drive unit	with TCP 350
Flange (in)	DN 160 ISO-F
Flange (out)	DN 25 ISO-KF
Fore-vacuum max. for N <sub>2</sub>	22 hPa   16.5 Torr   22 mbar
Gas throughput at full rotational speed for Ar	2 hPa·l/s
Gas throughput at full rotational speed for H <sub>2</sub>	14 hPa·l/s
Gas throughput at full rotational speed for He	18 hPa·l/s
Gas throughput at full rotational speed for N <sub>2</sub>	3.5 hPa·l/s
Mounting orientation	Any
Permissible magnetic field max.	6 mT
Protection category	IP54
Pumping speed for Ar	665 l/s
Pumping speed for H <sub>2</sub>	555 l/s
Pumping speed for He	655 l/s
Pumping speed for N <sub>2</sub>	685 l/s
Rotation speed $\pm 2\%$	49,200 rpm   49,200 min <sup>-1</sup>
Rotation speed variable	60 – 100 %
Run-up time	2 min
Separate electronic drive unit	Yes
Sound pressure level	$\leq 50$ dB(A)

Technical Data		HiPace® 700 H with TCP 350, DN 160 ISO-F
Ultimate pressure		1 · 10 <sup>-7</sup> hPa   7.5 · 10 <sup>-8</sup> Torr   1 · 10 <sup>-7</sup> mbar
Ultimate pressure according to PNEUROP		1 · 10 <sup>-7</sup> hPa   7.5 · 10 <sup>-8</sup> Torr   1 · 10 <sup>-7</sup> mbar
Venting connection		G 1/8"
Weight		11.5 kg   25.35 lb
Order number		
HiPace® 700 H		PM P05 755

Accessories	
<b>Adapters (electrical) Adapters and control cables</b>	
Adapter cable, TCP 350 - backing pump relay box, M8	PM 061 376 -T
Adapter cable, TCP 350 - backing pump relay box, M12	PM 061 377 -T
<b>Adapters (electrical) RS-232/485</b>	
Termination resistor for RS-485	PT 348 105 -T
Power separator for RS-485	PT 348 132 -T
<b>Cables Connection cables</b>	
Connection cable from TCP 350 to HiPace with 2 accessory ports M12, 3 m	PM 061 356 -T
<b>Cables Mains cables / Power cords</b>	
Mains cable 208 V AC, NEMA 6-15 to C13, 3 m	P 4564 309 ZF
<b>Control Devices Backing pump</b>	
Relay box for backing pumps, single phase 20 A for TC 400 and TCP 350, M12 plug	PM 061 375 -T
Relay box, shielded, for backing pumps, 1-phase 7 A for TC 400/1200, TM 700 and TCP 350, M12	PM 071 284 -X
<b>Control Devices External drive units</b>	
TCP 350, drive electronics	PM C01 740
TCP 350 PB, drive electronics, Profibus	PM C01 741
TCP 350 DN, drive electronics, DeviceNet	PM C01 742
<b>Cooling Air cooling</b>	
Air cooling for HiPace 400/700 and 800 with TC 400	PM Z01 303
<b>Mounting DN ISO-F, Mounting kits</b>	
Mounting kit for DN 160 ISO-F, including coated centering ring, hexagon screws	PM 016 460 -T
Mounting kit for HiPace 700, DN 160 ISO-F, including coated centering ring, splinter shield, hexagon screws	PM 016 461 -T
Mounting kit for DN 160 ISO-F, including coated centering ring, protective screen, hexagon screws	PM 016 462 -T
Mounting kit for DN 160 ISO-F, including coated centering ring, stud screws	PM 016 465 -T
Mounting kit for DN 160 ISO-F, including coated centering ring, splinter shield, stud screws	PM 016 466 -T
Mounting kit for DN 160 ISO-F, including coated centering ring, protection screen, stud screws	PM 016 467 T
<b>Mounting DN ISO-K-F, sealings</b>	
Centering ring with multifunction coating, DN 160 ISO-K-F	PM 016 216 -U
<b>Protection DN ISO-K-F, sealings, splinter shields, protection screens</b>	
Centering ring with multifunction coating and integrated splinter shield, DN 160 ISO-K-F	PM 016 217 -U
Centering ring with multifunction coating and integrated protection screen, DN 160 ISO-K-F	PM 016 218 -U
<b>Protection Sealing gas throttles</b>	
Sealing gas throttle for HiPace 300	PM Z01 317
<b>Turbopumps</b>	
Mains cable 230 V AC, CEE 7/7 to C13, 3 m	P 4564 309 ZA
Mains cable 115 V AC, NEMA 5-15 to C13, 3 m	P 4564 309 ZE
Y-Connector M12 to RS-485	P 4723 010
USB converter to RS-485 interface	PM 061 207 -T
<b>Turbopumps Measurement</b>	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T

<b>Accessories</b>	
<b>Valves Fore-vacuum safety valves</b>	
TVV 001, fore-vacuum safety valve, 230 V AC	<b>PM Z01 205</b>
TVV 001, fore-vacuum safety valve, 115 V AC	<b>PM Z01 206</b>
<b>Valves Sealing gas valves, shielded (normally closed)</b>	
Sealing gas valve, shielded for HiPace 300 with TC 400 and TM 700, TCP 350	<b>PM Z01 312</b>
<b>Venting Venting accessories</b>	
TTV 001, Drier for Venting Turbopumps	<b>PM Z00 121</b>
<b>Venting Venting valves (normally closed)</b>	
Venting valve, shielded, 24 V DC, G 1/8", for connection to TC 400/1200 and TM 700	<b>PM Z01 291</b>
<b>Vibration Reduction Vibration dampers</b>	
Vibration damper for HiPace with DN 160 ISO-K/F	<b>PM 006 492 -X</b>

# 上海伯东真空产品事业部

## 上海伯东--您理想的真空合作伙伴！

伯东公司成立于 1953 年，全球范围内有一千七百名员工。伯东企业(上海)有限公司(www.hakuto-vacuum.cn)主要从事半导体设备、电子零部件加工、销售及相关服务工作，集团年营业额约为 100 亿人民币。伯东公司在国内主要城市：北京、苏州、广州、深圳、成都及厦门设有营业据点。

上海伯东真空产品事业部秉承为广大中国客户提供世界一流的真空产品、推动中国真空工艺发展、承担企业社会责任为经营理念，已累计为超过 10,000 家企业提供真空服务，覆盖工业、半导体、镀膜、科研和分析行业。

上海伯东代理品牌包含：德国 Pfeiffer 全系列真空产品、美国 KRI 离子源、美国 Brooks Polycold 制冷机，美国 HVA 真空阀门，美国 inTEST (Temptronic) 高速温度循环测试机，离子蚀刻机，英国原子力显微镜, 真空镀膜系统及配套真空零配件等。

上海伯东作为国际知名真空品牌指定授权代理商，全权负责在中国地区的销售和维修服务，100% 使用原厂进口零部件以及国外受训维修工程师；拥有完全的拆解，维修，校正能力并提供 24 小时在线服务。

● 营业维修服务据点



伯东企业（上海）有限公司 HAKUTO ENTERPRISES (SHANGHAI) LTD.

TEL: (86) 21-5046-3511

FAX: (86) 21-5046-1490

MOL: 1391-883-7267

**伯东企业（上海）有限公司 销售及售后服务中心**

上海浦东新区新金桥路 1888 号 36 号楼 7 楼 702 室

电 话：+86-21-5046-3511

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

24 h 售后维修专线：1381-880-1372

**伯东企业（上海）有限公司 北京办事处 销售中心**

北京丰台区芳群园四区 22 号楼金城中心 705 室

电 话：+86-010-8768-4988

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

**伯东企业（上海）有限公司 深圳办事处 销售中心**

深圳市罗湖区宝安南路 1036 号鼎丰大厦 501

电 话：+86-0755-2547-3988.643

传 真：+86-21-5046-1490

官 网：<http://www.hakuto-vacuum.cn>

**伯东国际通商股份有限公司 销售及售后服务中心**

台北市中山区八德路二段 308 号 6 楼

电 话：+886-2-8772-8910

传 真：+886-2-8772-8918

新竹市埔顶路 25 号 8 楼之一

电 话：+886-3-5679508

传 真：+886-3-5670049

官 网：<http://www.hakuto-vacuum.com.tw>

