

iXH MK2 SERIES ULTRA HARSH DUTY DRY PUMP

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The iXH dry pump range sets new standards for harsh process capability, reliability and lower cost of ownership.

Wide temperature range allows optimisation of pump to minimise by-product accumulation from condensation and plating.

Launching in 2018, the new iXH Mk2 dry pumps provide even longer service life on the harshest of processes. In addition, certain iXH Mk2 versions provide significantly increased power efficiency.

Summary by process

With a modular design, iXH pumps meet today's process requirements and have road-mapped responses to emerging application challenges in PECVD dielectrics, ALD high-k, PECVD low-k, SACVD, Silicon nitride, TiN, Epitaxy, GaN.

Processes and their challenges

Process	Corrosion	Powder	Film Growth	Condensation	Recommendation
ALD/CVD TiN (TiCl4)				•	iXH MK2
ALD Si ₃ N ₄ using DCS or HCD				•	iXH MK2
ALD SiBCN & ALD SiOCN			•	•	iXH MK2
ALD SiO ₂ (HCD based)			•	•	iXH MK2
LPCVD Si using Si ₂ H ₆		•		•	iXH MK2
LPCVD Silicon nitride				•	iXH MK2

iXH IS THE FUTURE, THE FUTURE IS NOW.



Point 1
Class leading power consumption for ultra harsh duty

Point 2
Increased Lifespan

Point 3
Reduced Environmental Impact

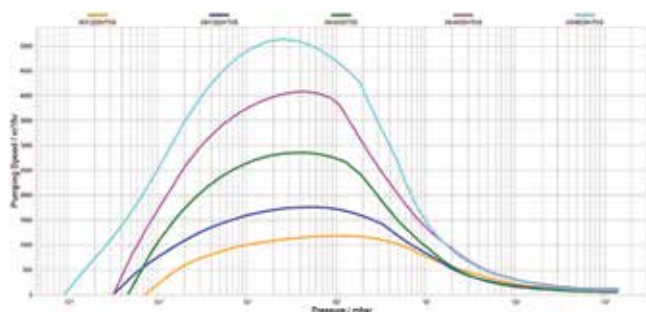
Features and benefits

- Innovative pump seal technology to lengthen process life and reduce leakage risks.
- Available with Xcede technology for enhanced corrosion resistance.
- Greatly increased powder handling capability and innovative Gas Buster™ technology.
- New Varimode gas module for optimized purge gas delivery.

Technical data and dimensions

		iXH1220HTXS	iXH1820HTXS	iXH3030HTXS	iXH4550HTXS	iXH6050HTXS
Ultimate pressure	mbar / Torr / Pa	0.005 / 0.00375 / 0.5	0.005 / 0.00375 / 0.5	0.005 / 0.00375 / 0.5	0.005 / 0.00375 / 0.5	0.005 / 0.00375 / 0.5
Peak speed	m ³ /h / cfm / l/m	1200 / 706 / 20000	1800 / 1060 / 30000	2900 / 1700 / 48333	4200 / 2470 / 70000	5200 / 3060 / 86666
Power at ultimate	kW	4.9	4.9	4.1	8.5	8.5
Power in Green Modes	kW	0.05	0.05	0.05	0.05	0.05
Inlet connection		ISO100	ISO160	ISO200	ISO200	ISO250
Outlet connection		NW40	NW40	NW40	NW40	NW40
Nitrogen connection		¼" tube fitting	¼" tube fitting	¼" tube fitting	¼" tube fitting	¼" tube fitting
Water connection		¾" Quick Conn.	¾" Quick Conn.	¾" Quick Conn.	¾" Quick Conn.	¾" Quick Conn.
Water flow	l/m	8	9	9	9	9
Typical purge flow	slm	17-96	17-96	17-96	17-96	17-96
Noise	dB(A)	<70	<70	<70	<70	<70
Weight	kg	467	497	689	879	930

Performance curve



Dimensions

Characteristics	Units	iXH1220 HTXS	iXH1820 HTXS	iXH3030 TXS	iXH4550 HTXS	iXH6050 HTXS
Dimensions- length x width x height (excludes exhaust enclosure)*	mm	901 x	901 x	1000 x	1000 x	1080 x
		390 x 780	390 x 780	517 x 966	517 x 966	517 x 966

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Edwards Ltd, registered in England and Wales No. 6124750, registered office: Innovation Drive, Burgess Hill, West Sussex, RH15 9TW, UK.

GLOBAL CONTACTS

EMEA

UK +44 (0) 1444 253 000
(local rate) 0845 921 2223

Belgium +32 2 300 0730

France +33 1 4121 1256

Germany 0800 000 1456

Italy + 39 02 48 4471

Israel + 972 8 681 0633

ASIA PACIFIC

China +86 400 111 9618

India +91 20 4075 2222

Japan +81 47 458 8836

Korea +82 31 716 7070

Singapore +65 6546 8408

Taiwan +886 3758 1000

AMERICAS

USA +1 800 848 9800

Brazil +55 11 3952 5000

