

iXH dry pumps for harsh, high flow processes

The iXH family of dry pump products is an evolution of Edwards market-leading iH products and sets new standards for harsh process capability, reliability and low cost of ownership.

Edwards have the perfect range of high capacity dry pumps and boosters that can meet the ever increasing gas flow requirements encountered in the FPD, solar, semiconductor and LED manufacturing industries. As well as high peak pumping speed these pumps are equipped with features to ensure maximum reliability on harsh processes.



Features and benefits

- Greater pumping speed
 - Fewer pumps required per chamber
 - Leads to reduced footprint, weight, maintenance, installation and overall cost of ownership
- More process capability for longer service intervals
 - Greatly increased powder handling capability
 - Wide temperature range allows optimisation of pump to minimise by-product accumulation through condensation and plating
 - Optimised '5-in-1' purging distribution that protects O-rings from chemical attack, eliminates pump cold spots, keeps powder moving through the pump, reduces chance of deposition or corrosion and increases hydrogen pumping capability.
 - iXH500 series designed and field proven to provide longer service intervals on highly corrosive applications
 - Greatly increased hydrogen pumping speed capability
- Reduced cost of ownership
 - SEMI® E54 compatible and 'Green Mode' capable
 - Longer overhaul intervals and less unscheduled down time
- Standalone booster pumps can be located close to customer chamber to maximise gas throughput

- Complies with key international standards, including UL, CE and S2
- Multiple pumps can be integrated together as single point of connection systems allowing easy hook up and reduced installation times.

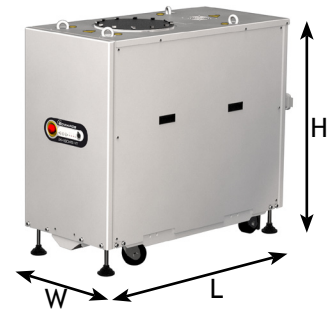
Application range

	Market								
	Solar		FPD	LED	Semiconductor				
	Thin film silicon PECVD	c-Si PECVD	PECVD	MOCVD	EUV	EPI	ALD High k	ALD SiN	Flowable Oxide
iXH3045H									
iXH645H									
iXH4545HT									
iXH6045HT									
iXH500H									
iXH3050H									
iXH6050H									
iXH4550HT									
iXH6050HT									

Technical data

Dimensions

(mm)	L	W	H
iXH450H, iXH500H	1000	517	650
iXH3045H, iXH3050H, iXH4545HT, iXH4550HT	1000	517	966
iXH6045HT, iXH6050HT	1080	517	966
iXH645H	922	517	795



Specifications

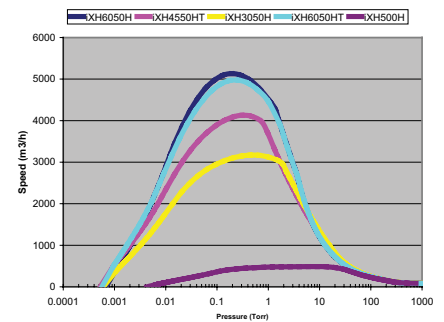
Product		iXH450H**	iXH3045H**	iXH4545HT**	iXH6045HT**	iXH645H**	iXH500H
Dry pump size	m ³ /h	450	450	450	450	450	500
Booster size	m ³ /h	-	3000	4500	6000	600	-
Peak speed	m ³ /h	475	3200	4200	5000	730	500
Ultimate vac. (typical)	Torr	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³
System power at ult.	kW	7.7	9.6	9.6	9.6	8.4	6.6
Inlet connection	ISO	63	160	200	250	100	63
Outlet connection	NW	40	40	40	40	40	40
Water flow at minimum pressure differential	l/m	6	12	12	12	10	6
Purge flow range	slm	96	96	96	96	60	96/133*
Mass	kg	455	776	814	864	550	490

(1) backed by an iXH1220HT pump

* factory default

** NOT for use on high flow corrosive processes

Speed curves



Product		iXH3050H	iXH4550HT	iXH6050HT	iXH6050H	pXH4500	pXH6000
Dry pump size	m ³ /h	500	500	500	500	-	-
Booster size	m ³ /h	3000	4500	6000	6000	4500	6000
Peak speed	m ³ /h	3200	4220	5000	5200	5200 ⁽¹⁾	6300 ⁽¹⁾
Ultimate vac. (typical)	Torr	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³	<5 x 10 ⁻³
System power at ult.	kW	8.5	8.5	8.5	8.5	1.9	1.9
Inlet connection	ISO	160	200	250	250	200	250
Outlet connection	NW	40	40	40	40	160	160
Water flow at minimum pressure differential	l/m	12	12	12	12	6	6
Purge flow range	slm	96/133*	96/133*	93/133*	96/133*	-	-
Mass	kg	811	849	899	899	400	435

(1) backed by an iXH1220HT pump

* factory default

** NOT for use on high flow corrosive processes

Example of single point of connection system

- Single point of connection for utilities hook up and control/monitor
- Greatly reduces installation time
- System behaves like a simple single pump



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