

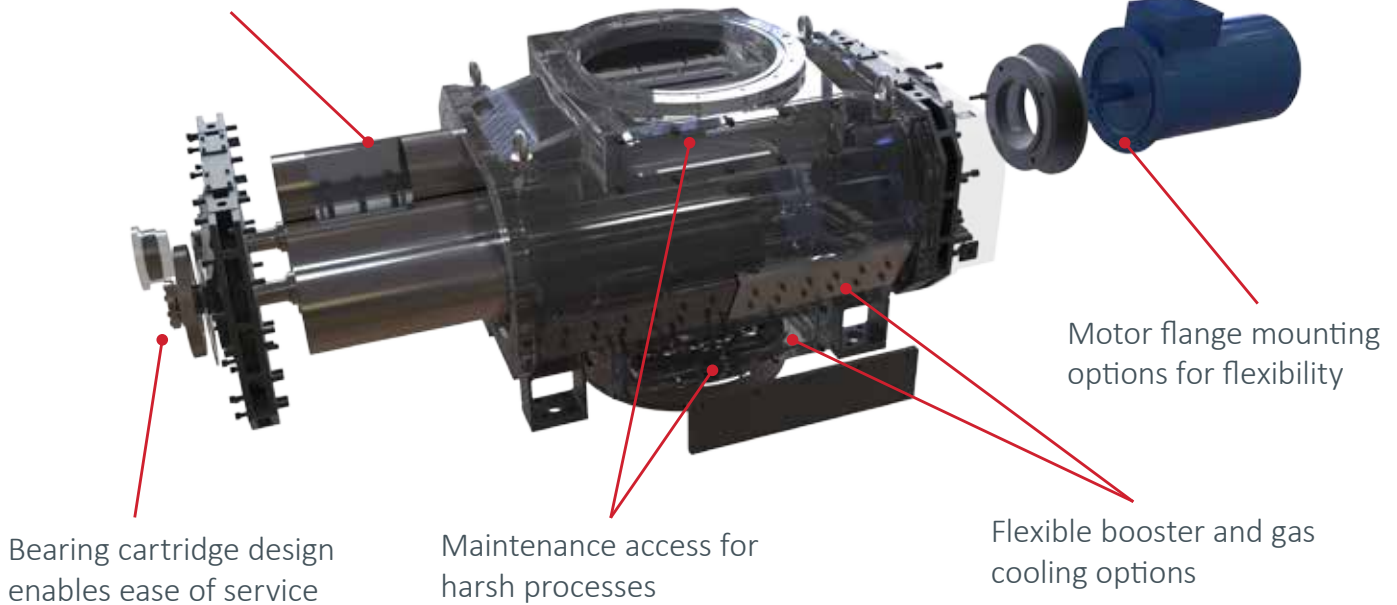
GMB40K

Boosting Innovation on a large scale



GMB40K HIGH CAPACITY ROOTS VACUUM BOOSTER

Modular rotor technology



The new Edwards GMB40K has an innovative modular rotor design of high strength alloy-steel shafts with lightweight rotor lobes which safely enable higher running speeds. This patented construction gives maximum displacement on an industry leading footprint.

ECONOMICAL – LOW COST OF OWNERSHIP

- Reduced Installation costs: Smallest footprint in class
- Increased efficiency: Lowest power consumption at vacuum
- Controllable vacuum: Ensures optimum process conditions

RELIABLE – PEACE OF MIND FOR YOUR PROCESS

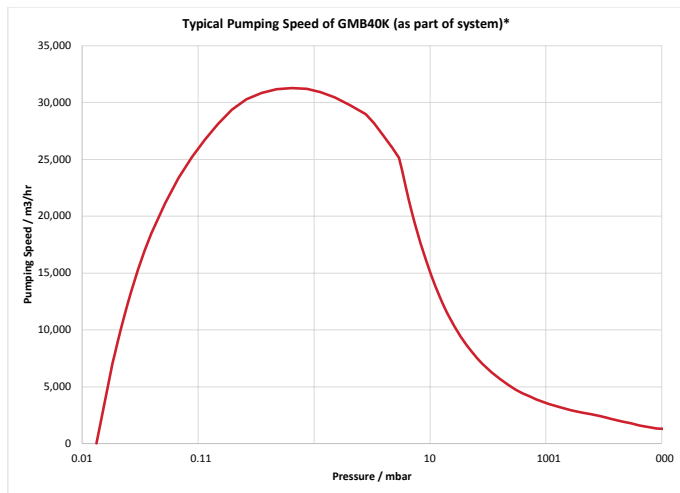
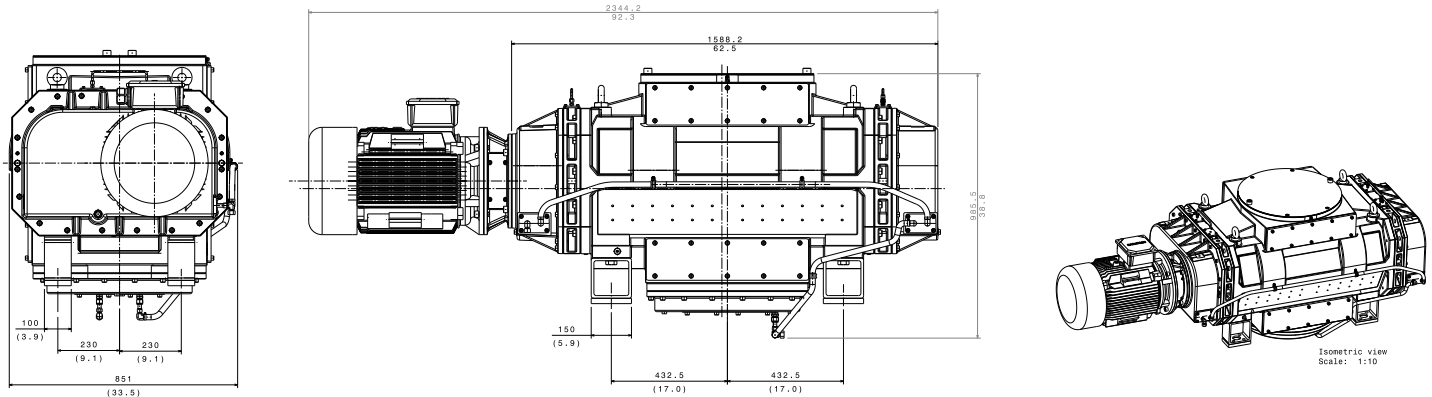
- Robust: Designed for harsh applications
- Service: Minimal in situ service to maximise process uptime
- Increased safety: Ensures mechanical integrity during process malfunctions

FLEXIBLE – MULTIPLE SYSTEMISATION OPTIONS

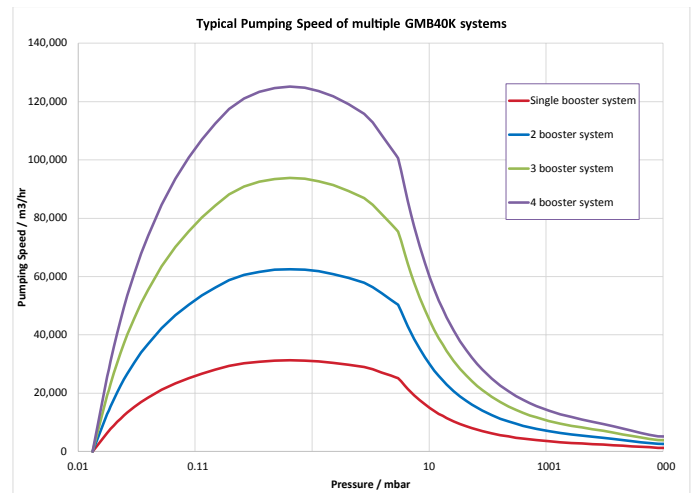
- Global standards: IEC and NEMA Motor options
- Hazardous area options: ATEX / Class 1 Div 1 ready.
- Systems Engineering: Scalable technology with multiple backing configurations

SMALL FOOTPRINT – HIGH CAPACITY

Edwards innovative modular rotor technology ensures high performance on the smallest footprint and weight. This ensures the highest degree of flexibility when designing large vacuum systems.



With a 6,700 m³/hr backing pump system*. This can be achieved by 3 Standard Edwards GXS vacuum pumps.



Scalable technology for simple design of large pumping systems or adding redundancy to valuable processes

EDWARDS THE PARTNER OF CHOICE

Edwards believes in delivering results that bring value to our customers by using our breadth of industry experience to identify and apply solutions to your problems. Using the most innovative and up-to-date modelling techniques, we can optimise the pumping configuration for customers to provide a system design giving the maximum performance in the most reliable and cost-effective way

GMB40K Technical data		Units
Pumping speed	31,000 * 18,250	m ³ /hr CFM
Minimum backing capacity (m ³ /hr)	6,500 3,825	m ³ /hr CFM
Max ΔPressure across booster	25 18.75	Mbar torr
Total input power at ultimate	<2.5 <3.35	KW hp
Ultimate pressure	<0.01* <0.008	Mbar torr
Rotational speed	540 min 3,960 max	rpm
Motor power	IEC - 30 NEMA - 40	KW hp
Noise	80	dB(A)
Vibration	<4 <0.16	mm s ⁻¹ inch s ⁻¹
Cooling water connections	1/2"	BSP (IEC variant) NPT (NEMA variant)
Cooling water temperature	5 - 40 41 - 104	°C °F
Minimum cooling water flow (@max temp)	10 2.6 US gal min ⁻¹	Litres min ⁻¹ US gal min ⁻¹
Cooling water ΔPressure	1.0 14.7	bar psi
Recommended lubrication type	Synthetic booster gear oil	
Lubricant quantity	7 1.85	Litres US gal
Connection flanges	Inlet DN500 Outlet ISO250	
Weight	2260 4980	Kg lbs
Dimensions	See drawing	
Ambient T	-20 – 40 -4 - 104	°C °F

* With typical Edwards GXS or IDX based backing pumps @6,700m³/hr

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