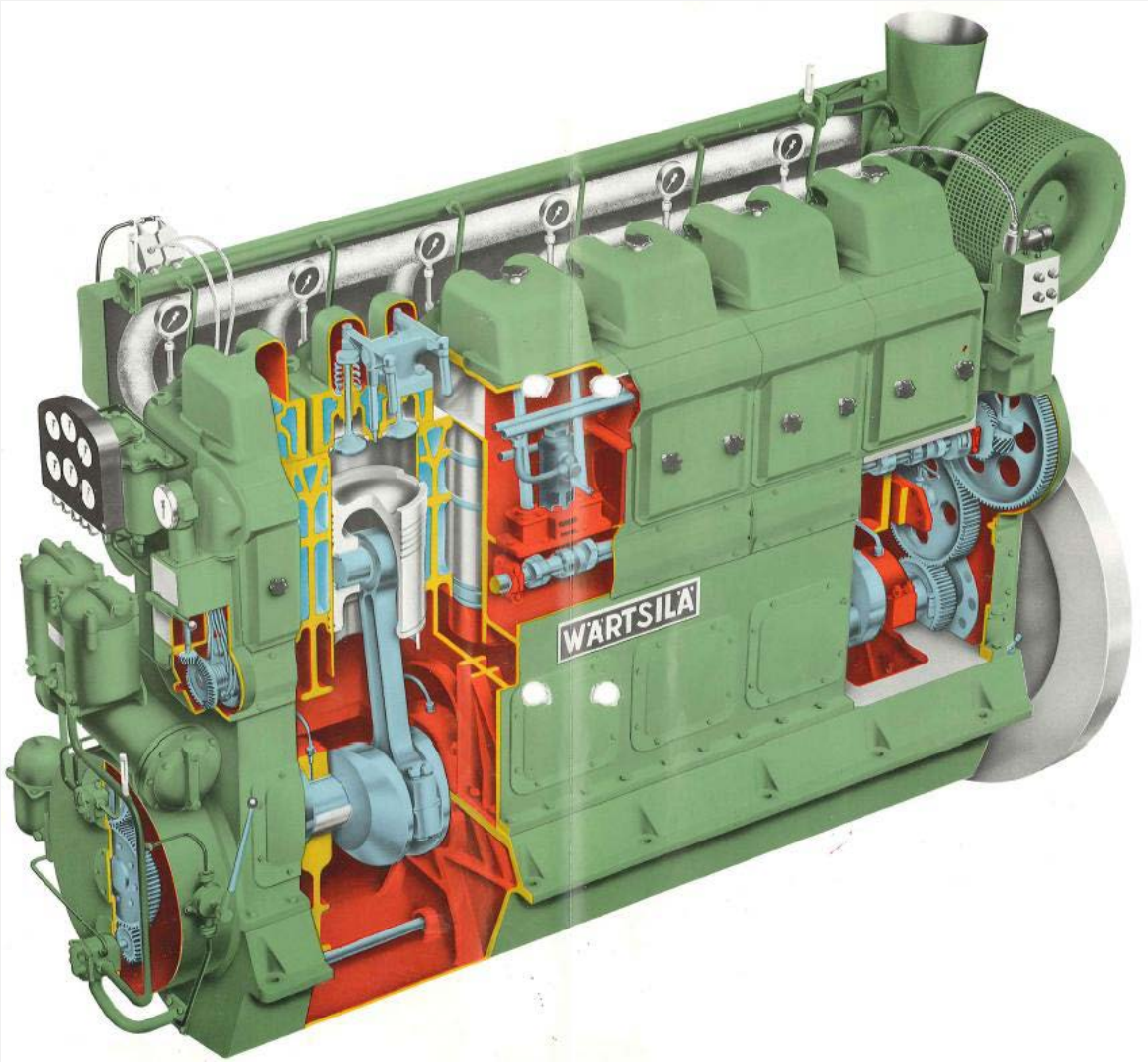
WÄRTSILÄ DIESEL
VASA 14/24

PRODUCT PRESENTATION

Lets keep them running

14 Engines

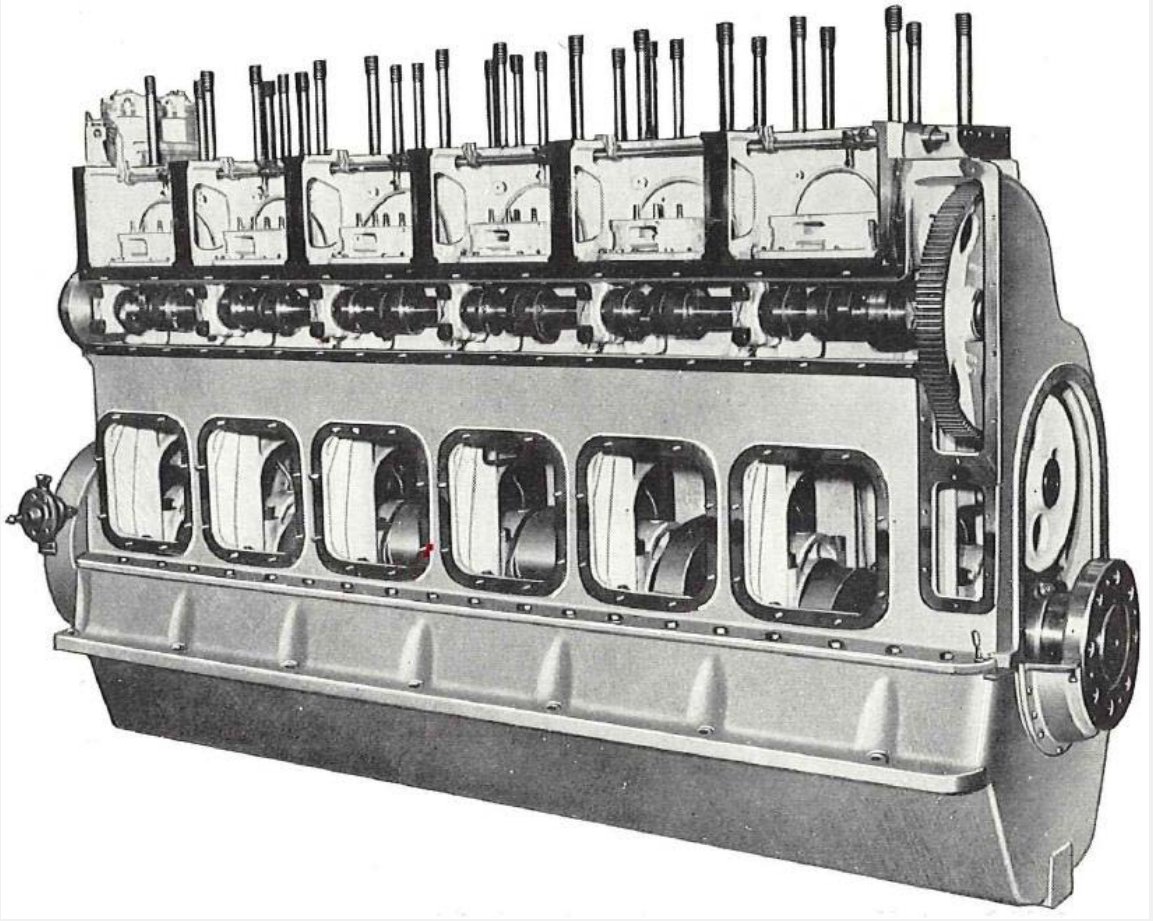


WÄRTSILÄ DIESEL
VASA 14/24

Technical features

- Bore 240 mm
- Stroke 310 mm
- Displacement 14 litres/cylinder
- Four stroke
- Numbers of cylinders 3, 4, 5, 6 and 8
- Water cooled
- Starting with compressed air 30 bar

Simple sturdy design
- Maximally enclosed, yet easy to service
- Automation and remote control possible
- Injection system, BOSCH
- Speed governor, Woodward
- Turbo-charger, ABB



Vasa 14 engines main data

Measures

Type	Turbo-charged					Turbo-charged, intercooled				
	314T	414T	514T	614T	814T	314TS	414TS	514TS	614TS	814TS
No of cyl.	3	4	5	6	8	3	4	5	6	8
L_1 mm	1810	2190	2570	2965	3725	1810	2190	2570	2965	3725
L_2 mm	2210	2590	3060	3455	4215	2220	2600	3070	3465	4225
L_3 mm *)	—	—	—	—	—	2110	2490	2890	3270	4030
B mm	725	530	545	540	540	690	690	710	710	710
H mm	1485	1485	1485	1485	1485	1570	1570	1750	1750	1750
Weight, kg	4100	5000	6000	7000	8900	4400	5500	6400	7600	9500

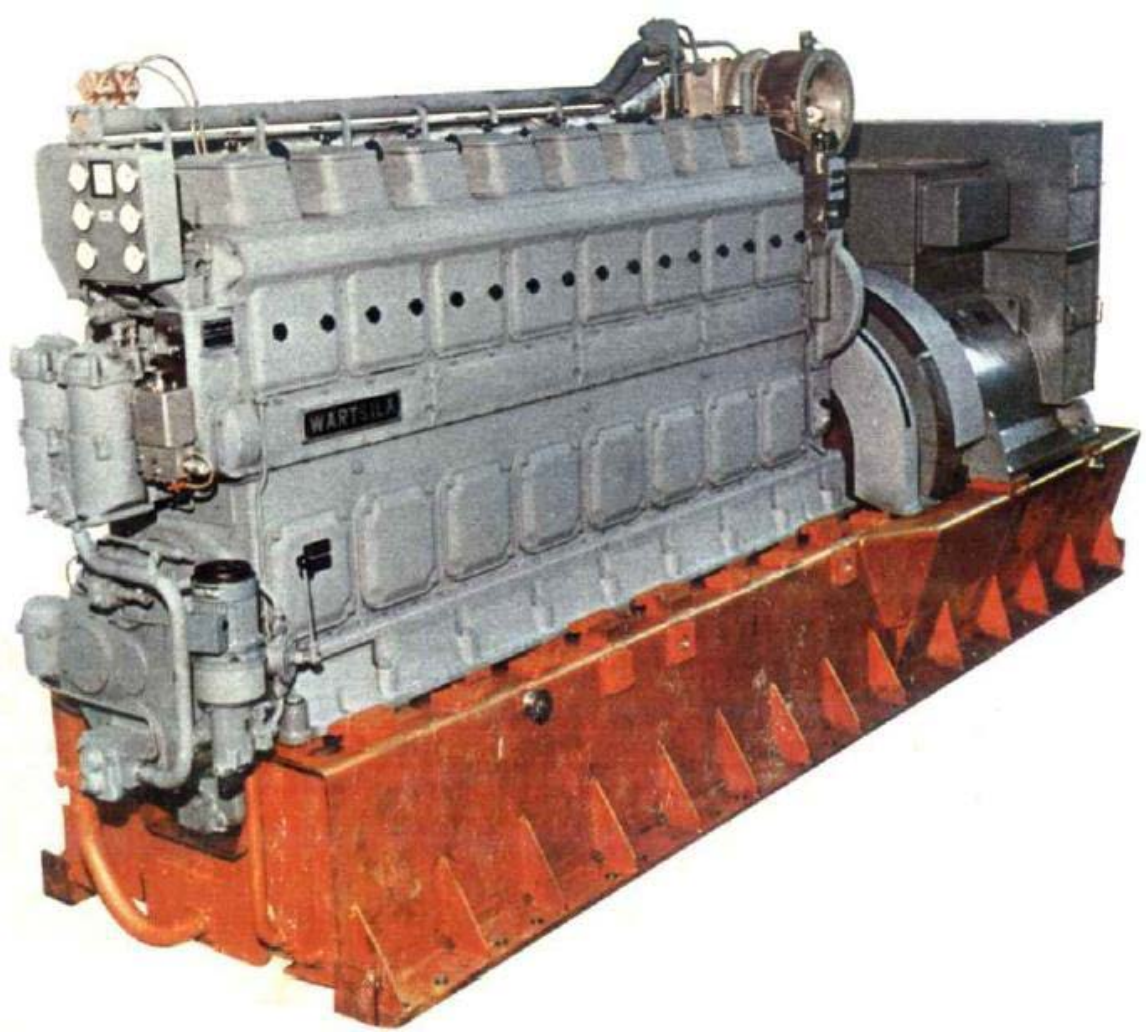
*) N.B. On special order only

Output table

Max. cont. output CIMAC, BHP

Engine speed	Piston speed	Turbo-charged					Turbo-charged, intercooled				
		Type					Type				
		314T	414T	514T	614T	814T	314TS	414TS	514TS	614TS	814TS
		Number of cylinders					Number of cylinders				
r/min	m/sec	3	4	5	6	8	3	4	5	6	8
600	6,20	250	330	415	500	665	360	480	600	720	960
720	7,44	298	395	495	595	790	430	575	720	860	1150
750	7,75	308	410	510	615	820	450	600	750	900	1200

Vasa 24TS engines



Application as :

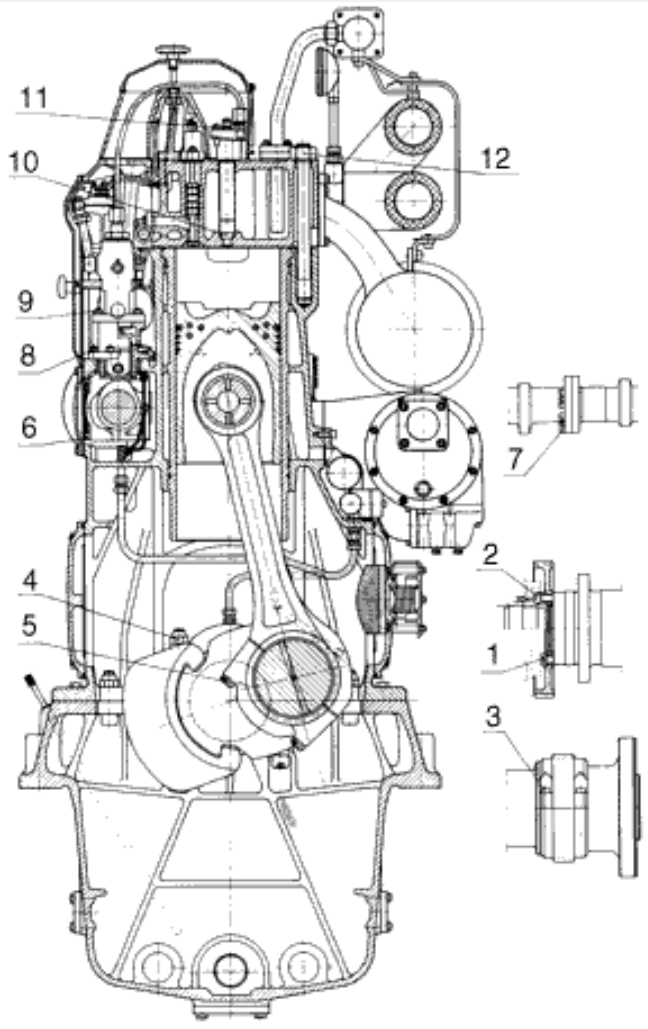
- Marine propulsion engines
- Marine auxiliary engines
- Stationary engines

Technical features

- Bore 240 mm
- Stroke 310 mm
- Displacement 14 litres/cylinder
- Compression ratio 12,4:1
- Maximum mean effective pressure 15,4 bar
- Maximum speed 750 rpm (12,5 r/s)

Has been manufactured in 3, 4, 5, 6 and 8 cylinder versions

- Four stroke
- Trunk piston
- Forced lubrication with pump
- Water cooled with pumps, two circuits



Vasa 24TS engines

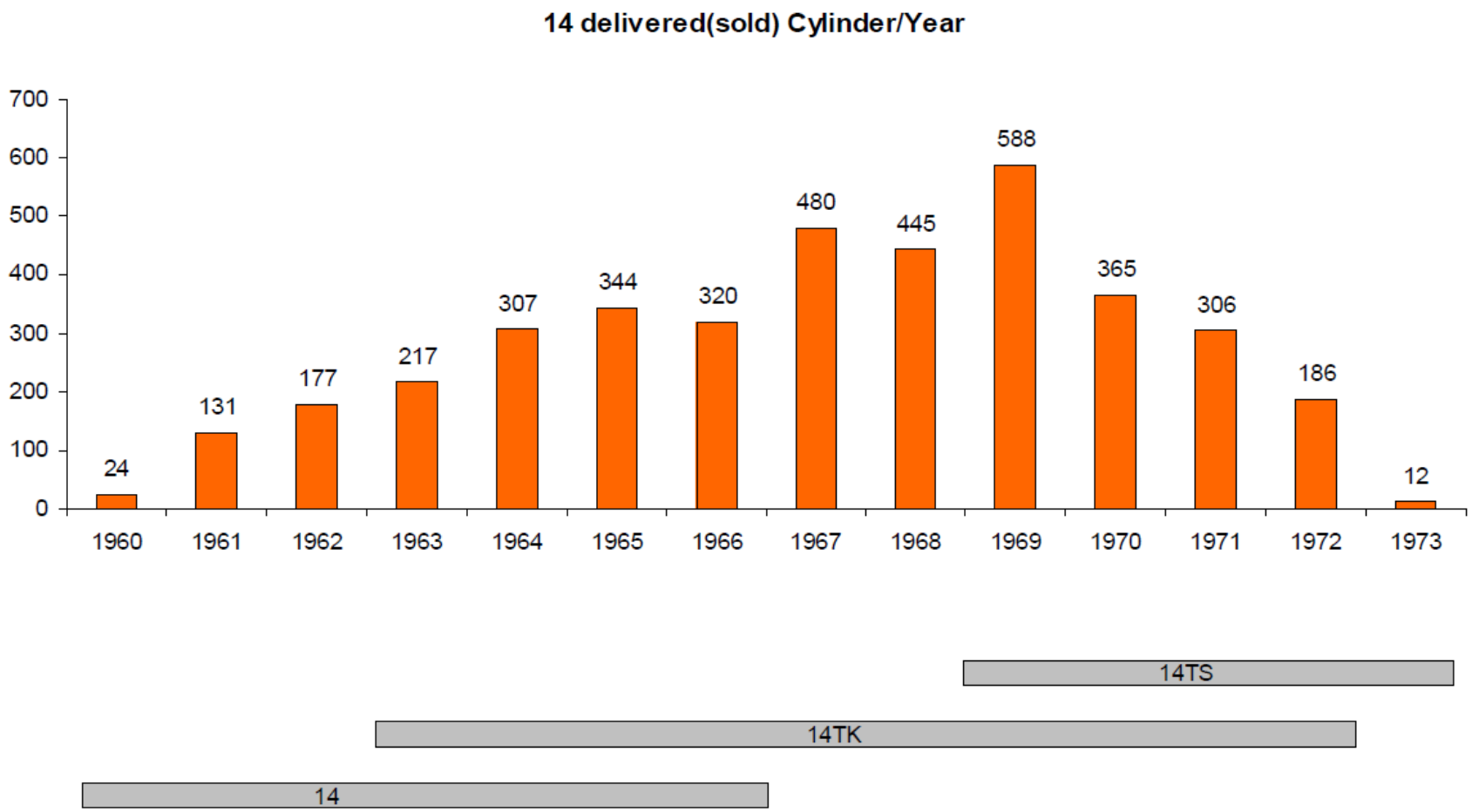
Output table

Engine type	No of cyl.	MARINE AUXILIARY ENGINES STATIONARY ENGINES								MARINE PROPULSION ENGINES	
		12 1/s 60 Hz (720 RPM)				12,5 1/s 50 Hz (750 RPM)				12,5 1/s (750 RPM)	
		Engine output		Alternator output		Engine output		Alternator output		Engine output	
		kW	(BHP)	kW	kVA	kW	(BHP)	kW	kVA	kW	(BHP)
424TS	4	515	700	485	600	535	730	500	630	490	665
524TS	5	580	790	545	680	605	825	570	710	605	825
624TS	6	770	1050	725	900	810	1100	760	940	735	1000
824TS	8	1080	1400	970	1200	1070	1460	1000	1250	980	1330

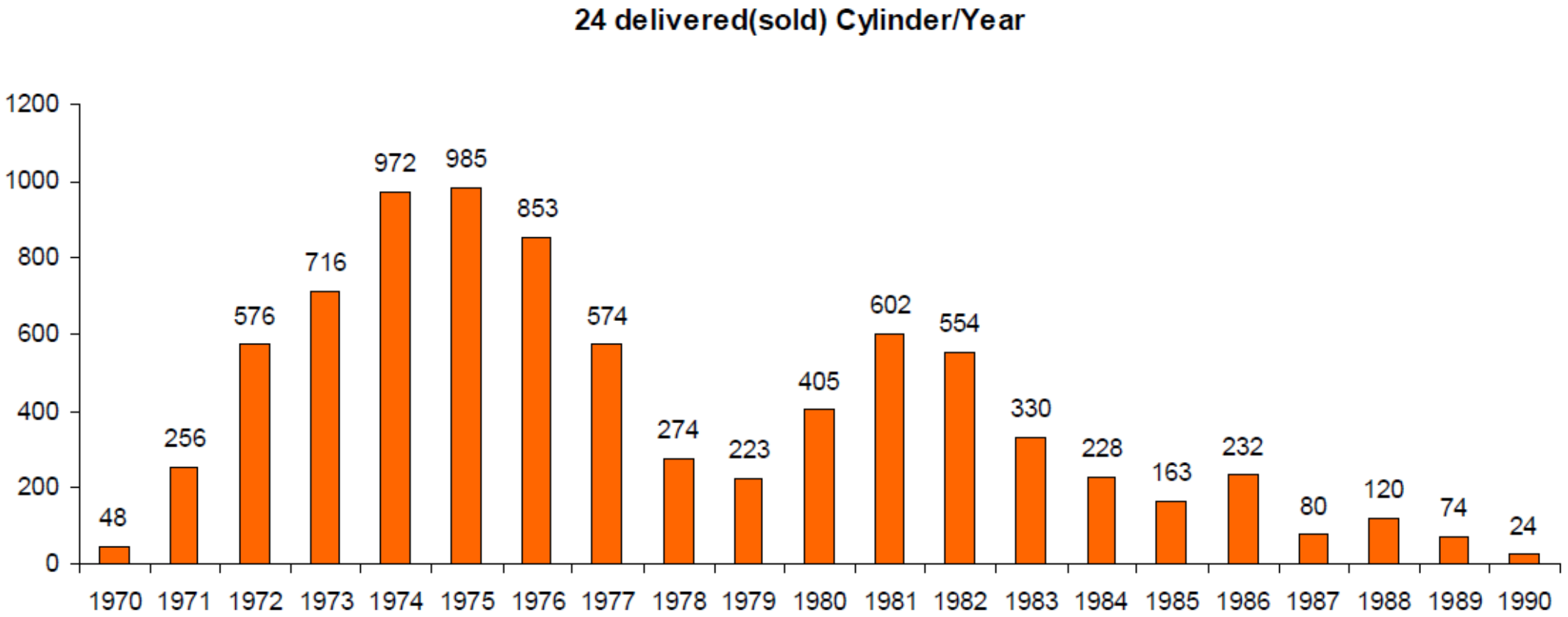
The evolution of Vasa 14 and 24TS engine

Engine type	Speed	Piston speed	Cylinder output	Mean effective pressure	Charging rate	Delivered
	n rpm	c_m m/s	Pe_1 kW	pe bar	%	Year
14	600	6,2	37	5,3	0	1960→1967
14T	600	6,2	61	8,7	66	1961→1973
14T	750	7,8	76	8,6	66	1962→1973
14TK	750	7,8	98	11,2	114	1964→1973
Vasa 24	750	7,8	110	12,7	142	1970→
Vasa 24	750	7,8	122	14	168	1973→
Vasa 24	750	7,8	134	15,4	194	1975→1990

Vasa 14 production volumes



Vasa 24 production volumes



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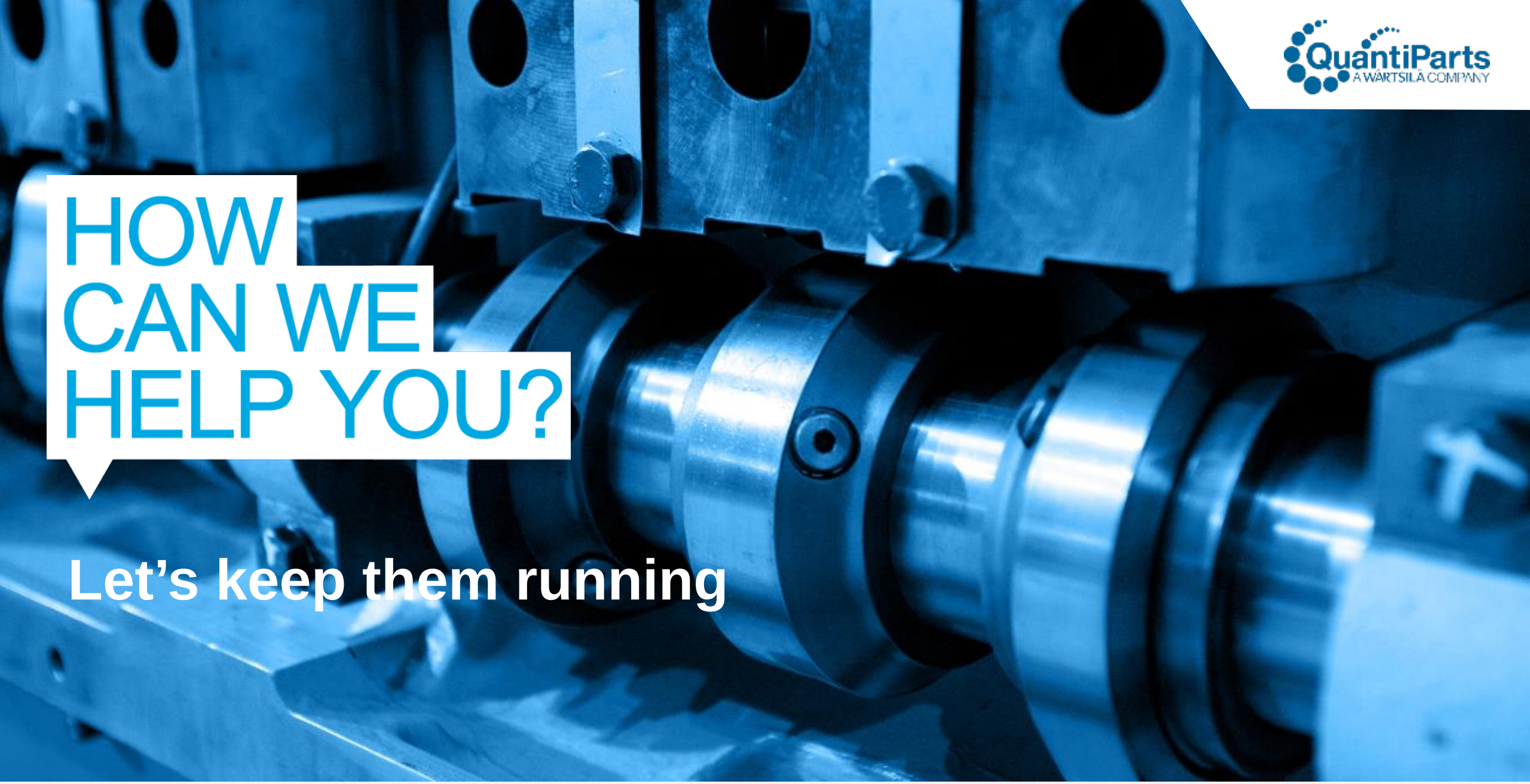
HOW
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HELP YOU?
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