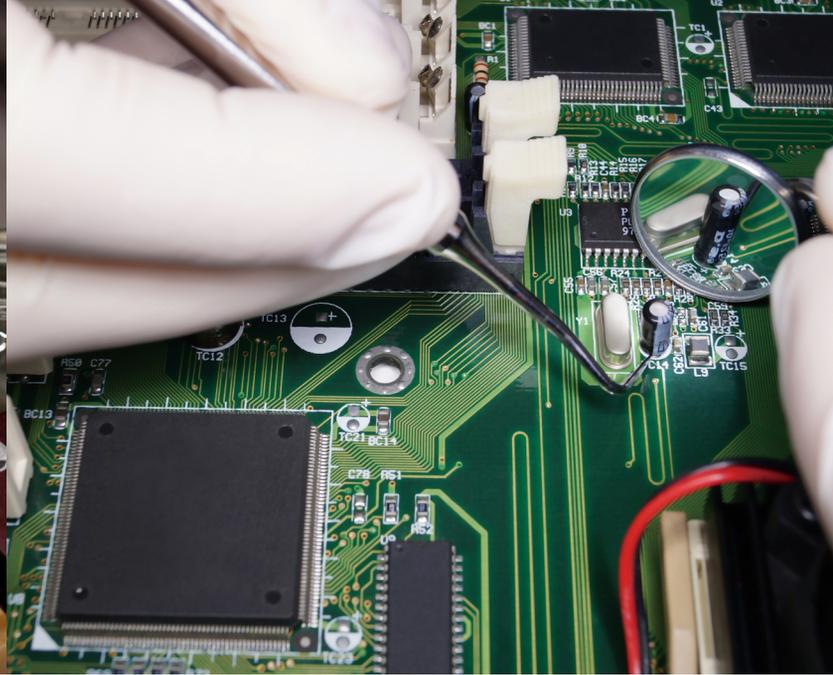


ATLAS COPCO OIL-FREE SCREW COMPRESSORS



ZT 55-90 & ZT 110-160 Classic
ZT 55-90 VSD & ZT 110-160 VSD Classic





OUTSTANDING PERFORMANCE, MAXIMUM BENEFITS

Atlas Copco ZT Classic Line compressors provide high-quality compressed air in the harshest environmental conditions. Incorporating the patented Atlas Copco's oil-free screw element and superior structure design, they provide a long and trouble-free life at the lowest possible operating cost.



Food and beverage industry

- Atlas Copco oil-free air compressors serve a multitude of applications in the Food and Beverage industry including: fermentation, packing, air-filling, transport, filling & capping, cleaning air, instrument air, etc.
- Atlas Copco Class 0 compressors deliver the highest level of air purity. Zero oil means there is no risk of contamination.

Electronic industry

- Provide high-quality oil-free clean air for the production of electronic products and guarantee the processing precision.
- Solve the issues of bad performance and short lifetime caused by impure air, and reduce production downtime.

Pharmaceutical industry

- Fully meet the strict requirement on compressed air by GMP certification.
- 100% oil-free air prevent any risk of contamination in such processes as fermentation, air-filling, tablet packaging, canning, automatic production, etc.
- CLASS 0 eliminates risks, keep high quality of products and protect your hard-won reputation.
- CLASS 0 helps you successfully obtain FDA certificate.

CLASS 0: THE INDUSTRY STANDARD

Oil-free air is used in all kinds of industries where air quality is paramount for the end product and production process. These applications include food and beverage, pharmaceutical, chemical and petrochemical, semiconductor and electronics, the medical sector, automotive paint spraying, textile and many more. In these critical environments, contamination by even the smallest quantities of oil can result in costly production downtime and product spoilage.

First in oil-free air technology

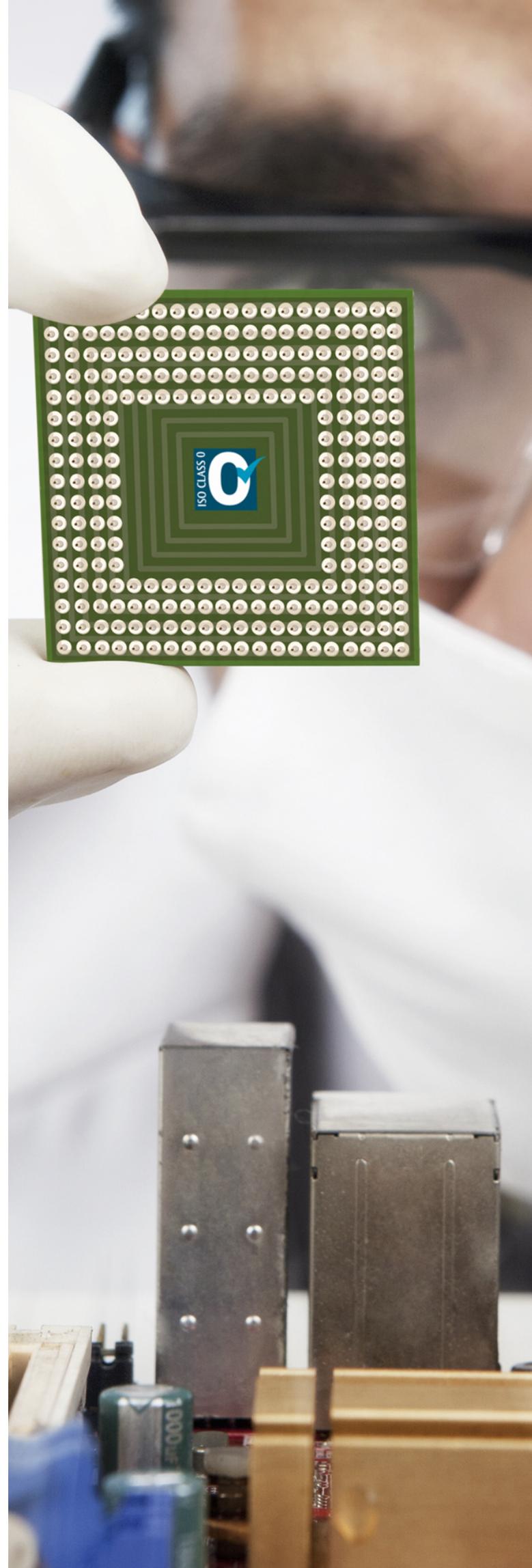
Over the past sixty years Atlas Copco has pioneered the development of oil-free air technology, resulting in a range of air compressors and blowers that provide 100% pure, clean air. Through continuous research and development, Atlas Copco achieved a new milestone, setting the standard for air purity as the first manufacturer to be awarded CLASS 0 certification.

Eliminating any risk

As the industry leader committed to meeting the needs of the most demanding customers, Atlas Copco requested the renowned TÜV institute to type-test its range of oil-free compressors and blowers. Using the most rigorous testing methodologies available, all possible oil forms were measured across a range of temperatures and pressures. The TÜV found no traces of oil at all in the output air stream.

CLASS	Concentration total oil (aerosol, liquid, vapor) mg/m ³
0	As specified by the equipment user or supplier and more stringent than class 1
1	< 0.01
2	< 0.1
3	< 1
4	< 5

Current ISO 8573-1 (2010) classes (the five main classes and the associated maximum concentration in total oil content).



SETTING A NEW STANDARD IN THE INDUSTRY

Atlas Copco's ZT Classic Line compressors bring you outstanding sustainability, reliability and performance, while minimizing the total cost of ownership. Built to perform even in the harshest environments, these compressors keep your production running efficiently.



1 Highly efficient inlet filter

- Machine mounted, easy to maintain
- Minimum intake losses



3 High precision gears AGMA A5

- Long lifetime
- Low transmission losses
- Low noise level and vibration



2 Advanced Elektronikon® control and monitoring system

- Overall system performance status with pro-active service indications, alarms for malfunctions and safety shutdowns multi-language selectable display
- All monitoring and control functions via one interface wide communication possibilities
- Integration possible in many process control systems (field bus system)



4 Superior element bearings

- High stability under varying load conditions
- Adjust to change load
- No need for pre-lubrication/stabilisation time
- Joint development with world top-ranked SKF bearing supplier



5 Water separator

- The labyrinth design efficiently separates the condensate from the compressed air
- Low moisture carry-over protects downstream equipment
- Long High Pressure element lifetime
- Better dryer performance



9 Highly efficient integrated fan

- Integrated assembly
- Efficient cooling
- Low energy consumption





6
**World class oil-free
compression element**

- 100 % oil-free air compression
- Speed far below critical speed
- High overall efficiency, thanks to:
 - Superior rotor coating
 - Element cooling jackets
- Excellent process and assembly precision



7
Cooler

- Aluminum alloy fin cooler
 - Reduce dust accumulation and filth blockage

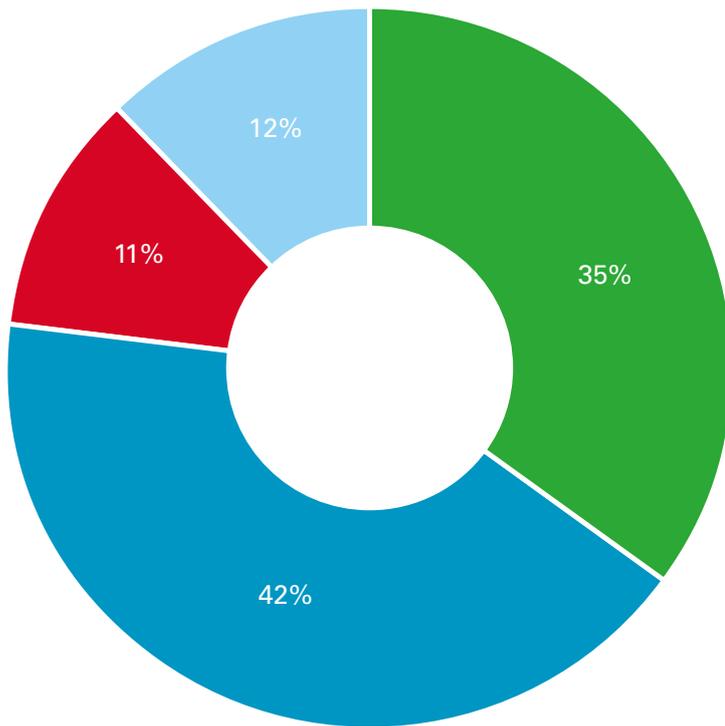


8
Totally enclosed motor

- IE3 high efficiency motor
- IP55 TEFC protection
- Class F insulation

VSD: DRIVING DOWN ENERGY COSTS

Over 80% of a compressor's lifecycle cost is taken up by the energy it consumes. Moreover, the generation of compressed air can account for more than 40% of a plant's total electricity bill. To cut your energy costs, Atlas Copco pioneered Variable Speed Drive (VSD) technology in the compressed air industry. VSD leads to major energy savings, while protecting the environment for future generations. Thanks to continual investments in this technology, Atlas Copco offers the widest range of integrated VSD compressors on the market.



Energy savings of up to 35%

Atlas Copco's VSD technology closely follows the air demand by automatically adjusting the motor speed. This results in large energy savings of up to 35%. The Life Cycle Cost of a compressor can be cut by an average of 22%. In addition, lowered system pressure with VSD minimizes energy use across your production dramatically.

Total compressor lifecycle cost



What is unique about the integrated Atlas Copco VSD?

- 1 The Elektronikon® controls both the compressor and the integrated converter, ensuring maximum machine safety within parameters.
- 2 Flexible pressure selection from 4 to 10.4 bar with VSD reduces electricity costs.
- 3 Specific converter and motor design (with protected bearings) for the highest efficiency across the speed range.
- 4 Electric motor specifically designed for low operating speeds with clear attention to motor cooling and compressor cooling requirements.
- 5 All Atlas Copco VSD compressors are EMC tested and certified. Compressor operation does not influence external sources and vice versa.
- 6 Mechanical enhancements ensure that all components operate below critical vibration levels throughout the entire compressor speed range.
- 7 A highly efficient frequency converter in a cubicle ensures stable operation in high ambient temperatures up to 50°C/122°F (standard up to 40°C/104°F).
- 8 No 'speed windows' that can jeopardize the energy savings and the stable net pressure. Turndown capability of the compressor is maximized to 70-75%.
- 9 Net pressure band is maintained within 0.10 bar, 1.5 psi.

A STEP AHEAD IN MONITORING AND CONTROLS

The Elektronikon® operating system offers a wide variety of control and monitoring features that allow you to increase your compressor's efficiency and reliability. To maximize energy efficiency, the Elektronikon® controls the main drive motor and regulates system pressure within a predefined and narrow pressure band.

Built-in intelligence

- Improved user-friendliness: 3.5" color display with clear pictograms for easy readout.
- Monitoring of running conditions and graphical indication of the service plan.
- Regulates system pressure within a predefined narrow pressure band.
- Integrated energy savings functions like dual pressure set point, 4 different programmable week schedules.
- Comprehensive icon indications and intuitive navigation.
- 31 different languages including character-based languages.
- Durable keyboard to resist tough treatment in demanding environments.
- Internet-based compressor visualization using a simple Ethernet connection.
- Remote control and advanced connectivity functions.

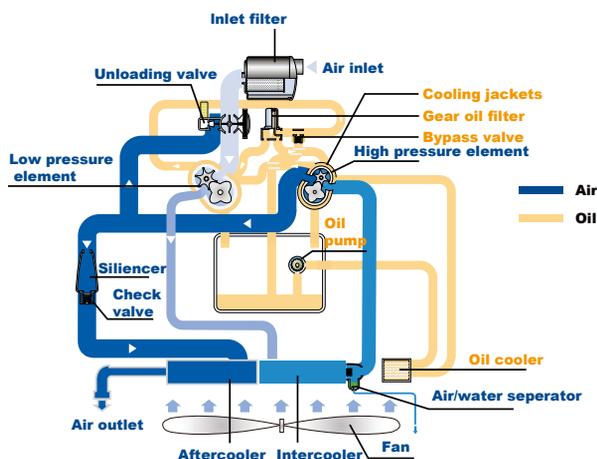


Online & mobile monitoring

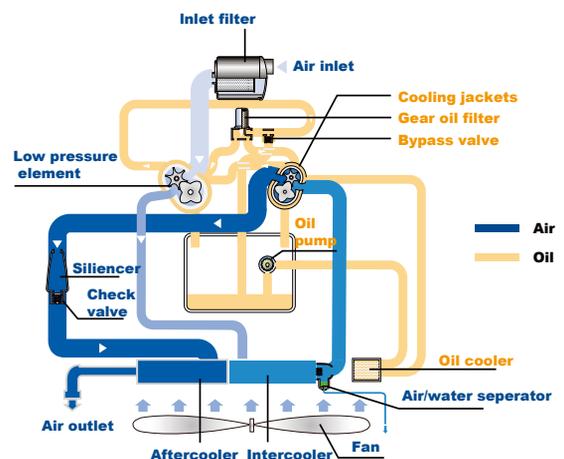
Monitor your compressors over the Ethernet with the new Elektronikon® controller. Monitoring features include warning indications, compressor shut-down and maintenance scheduling. An Atlas Copco App is available for iPhone/Android phones as well as iPad and Android tablets. It allows fingertip monitoring of your compressed air system through your own secured network.

FLOW CHARTS

Fixed speed: ZT



Variable speed drive: ZT



TECHNICAL SPECIFICATIONS

ZT 55-90 / VSD CLASSIC

Type	Maximum working pressure		Capacity FAD			Installed motor		Noise level dB(A)	Weight		Outlet size
	bar	psi	l/s	m ³ /min	cfm	kW	hp		Standard		
									kg	lb	
50 Hz											
ZT55-7 Classic	7	102	139.1	8.3	295	55	-	79	1940	4277	G2 1/2
ZT55-8 Classic	8	116	137.0	8.2	290	55	-		1940	4277	
ZT75-7 Classic	7	102	200.7	12.0	425	75	-		2100	4630	
ZT75-8 Classic	8	116	181.8	10.9	385	75	-		2100	4630	
ZT75-10 Classic	10	145	164.7	9.9	349	75	-		2100	4630	
ZT90-7 Classic	7	102	237.3	14.2	503	90	-		2150	4740	
ZT90-8 Classic	8	116	223.9	13.4	474	90	-	2150	4740		
ZT90-10 Classic	10	145	211.1	12.7	447	90	-	2150	4740		
ZT75VSD -75 Classic	7.5	109	210	12.6	445	75	-	80	2108	4647	
ZT75VSD -8.6 Classic	8.6	125	210	12.6	445	75	-	80	2108	4647	
ZT90VSD -75 Classic	7.5	109	259	15.5	549	90	-	80	2108	4647	
ZT90VSD -8.6 Classic	8.6	125	259	15.5	549	90	-	80	2108	4647	
60 Hz											
ZT55-7 Classic	7	102	145.3	8.7	308	55	75	79	1940	4277	G2 1/2
ZT75-7 Classic	7	102	200.7	12.0	425	75	101		2100	4630	
ZT75-9 Classic	9	131	188.2	11.3	399	75	101		2100	4630	
ZT90-7 Classic	7	102	229.7	15.2	535	90	121		2150	4740	
ZT90-9 Classic	9	131	229.7	13.8	535	90	121		2150	4740	
ZT75VSD -75 Classic	7.5	109	210	12.6	445	75	101		80	2108	
ZT75VSD -8.6 Classic	8.6	125	210	12.6	445	75	101	80	2108	4647	
ZT90VSD -75 Classic	7.5	109	259	15.5	549	90	121	80	2108	4647	
ZT90VSD -8.6 Classic	8.6	125	259	15.5	549	90	121	80	2108	4647	

(1) Reference conditions:

- dry air
- absolute inlet pressure 1 bar(a)
- cooling and air intake temperature 20°C
- nominal working pressure
- performance of the compressor package measured according to ISO 1217, Third Edition, Annex C

(2) Cooling water temperature rise of 15°C

(3) Max. capacity is at reference pressure and not at max.

pressure

(4) Pressure dewpoint is specified for

- 20°C cooling air/water temperature
- relative humidity of 60%
- nominal working pressure
- load level of minimum 50%
- For VSD: at reference speed
- With ER please consult Atlas Copco

(5) ±3dB(A) measured at a distance of 1m and according

to ISO 2151:2004 and using ISO 9614-2

(6) Maximum intake / cooling air temperature is 50°C for HAT versions

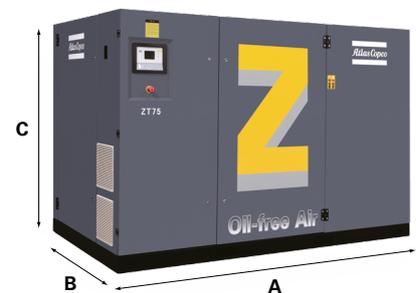
(7) Dependent on ambient conditions

Conversions

- 1kg = 2.2 lbs
- 1mm = 0.039 inch
- °F = °C x 9 / 5 + 32

Dimensions

Type	Standard		
	A	B	C
	Length (mm)	Width (mm)	Height (mm)
ZT 55-90 / VSD Classic	2700	1600	1800



TECHNICAL SPECIFICATIONS

ZT 110-160 / VSD CLASSIC

Type	Maximum working pressure		Capacity FAD			Installed motor		Noise level dB(A)	Weight		Outlet size
	bar	psi	l/s	m ³ /min	cfm	kW	hp		Standard		
									kg	lb	
50 Hz											
ZT110-75 Classic	7.5	109	306.9	18.4	650	110	-	79	2887	6365	G3
ZT110-8.6 Classic	8.6	125	286.2	17.2	606	110	-		2887	6365	
ZT132-75 Classic	7.5	109	363.1	21.8	769	132	-		3078	6786	
ZT132-8.6 Classic	8.6	125	325.2	19.5	689	132	-		3078	6786	
ZT145-75 Classic	7.5	109	387.3	23.2	820	145	-		3078	6786	
ZT145-8.6 Classic	8.6	125	358.4	21.5	759	145	-		3078	6786	
ZT132VSD-8.6 Classic	8.6	125	369.2	22.2	782	132	-		2870	6327	
ZT160VSD-8.6 Classic	8.6	125	388.6	23.3	823	160	-		2870	6327	
60 Hz											
ZT110-8.6 Classic	8.6	125	317.7	19.1	673	110	150	79	2887	6365	G3
ZT145-8.6 Classic	8.6	125	391.2	23.5	829	145	200		3078	6786	
ZT132VSD-8.6 Classic	8.6	125	369.2	22.2	782	132	175		2870	6327	
ZT160VSD-8.6 Classic	8.6	125	388.6	23.3	823	160	215		2870	6327	

(1) Reference conditions:

- dry air
- absolute inlet pressure 1 bar(a)
- cooling and air intake temperature 20°C
- nominal working pressure
- performance of the compressor package measured according to ISO 1217, Third Edition, Annex C

(2) Cooling water temperature rise of 15°C

(3) Max. capacity is at reference pressure and not at max.

pressure

(4) Pressure dewpoint is specified for

- 20°C cooling air/water temperature
- relative humidity of 60%
- nominal working pressure
- load level of minimum 50%
- For VSD: at reference speed
- With ER please consult Atlas Copco

(5) ±3dB(A) measured at a distance of 1m and according

to ISO 2151:2004 and using ISO 9614-2

(6) Maximum intake / cooling air temperature is 50°C for HAT versions

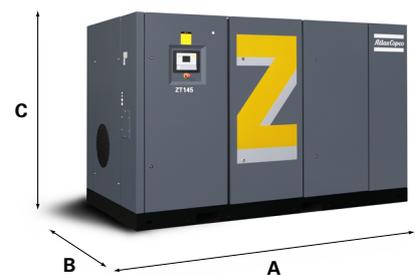
(7) Dependent on ambient conditions

Conversions

- 1kg = 2.2 lbs
- 1mm = 0.039 inch
- °F = °C x 9 / 5 + 32

Dimensions

Type	Standard		
	A	B	C
	Length (mm)	Width (mm)	Height (mm)
ZT 110-160 /VSD Classic	3000	1560	2000



COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.



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