



Mining, Minerals & Metals

Altivar Process — The first services oriented drive



Helping you face the significant challenges in Mining, Minerals & Metals processes

Maximizing production, increasing overall efficiency and optimizing asset utilization

As the commodity business remains volatile, it is critical to improve efficiency across your supply chain. Sustainability concerns, increased energy costs, availability of raw material, and a shortage of skilled staff are further adding to the constraints. As experts in the Mining, Minerals & Metals (MMM) sector, Schneider Electric provides solutions to maximize production, increase overall efficiency and optimize asset utilization.

Altivar Process: The first services oriented speed drive for Mining, Minerals & Metals

Business optimization: Increase productivity by up to 20%

Energy management with innovative power technology and regenerative systems help to avoid costly and energy-wasting breakdowns; integrated accurate (<5%) power measurement function maximizes and reduces operating and energy costs.

By managing assets through the electrical control of motor and monitoring the mechanical transmission, Altivar Process can help optimize load management and help avoid unexpected downtime.

Real-time intelligence

Accurate diagnostics, remote control, and remote services capabilities using the embedded Ethernet web server systems make your process safer and more efficient to realize maximum returns in long-term operations

Complete drive systems to achieve high performance

Clean and reliable power: Integration in the electrical distribution systems with total management of power quality utilizing a passive and active filtering system.

Optimum application performance with complete multidrive solutions for process cranes, roller conveyors, vertical roller mills, and others; drives with embedded master slave control and real-time, Ethernet-based synchronization; seamless integration into Schneider Electric's automation architecture.

The right drive for your Mining, Minerals & Metals application

Altivar Process variable speed drive for Mining, Minerals & Metals

The Altivar Process variable speed drive is suitable for conveyors, stacker/re-claimers, and process cranes, providing enhanced motor control for improved energy efficiency and uptime.

High performance

- Greater motor reactivity and stability because of high torque and speed control capabilities and precise load sharing
- Pump applications controlled at best efficiency point (BEP) with condition-based monitoring
- Reduced mechanical stress on your systems thanks to protection against cavitation

Seamless integration in PlantStruxure architecture

- Smart process objects ready for collaborative engineering (engineering time reduced by 50%)
- Greater safety and cyber security thanks to compliance with the latest standards

Altivar Process: Available ranges

	ATV600	ATV900	Drive systems
Power	0.75 – 315 kW		1 – 1500 kW
Voltage	200 – 400 – 690 V		
Protection degree	IP21 – IP55		IP21 – IP 23 – IP 54
Motor type	Induction, PM, reluctance motor		
Motor control type	Open loop	Closed loop or open loop	
Braking	—	Braking resistor or regenerative drive	
Environmental protection	3C3/3S3		
Operating temperature	-15 °C – 50 °C		Applied to your application
THDI	THDI < 48%		THDI < 5%/THDI < 48%
Safety	Safe Torque Off SIL3	STO – SS1 – SS2 – SOS – SLS – SMS – SBC – SDI up to SIL 3 PLe	
Embedded functions	Multipump	Master Slave (speed or torque) Load sharing	Engineered to order



Altivar 600/Altivar 900
Dedicated MMM process drives



- Energy savings > 25%
- Green and ethical materials — free of PVC, halogen, and conflict minerals
- Improved serviceability and repairability
- Increased recyclability: The product is now 80% recyclable
- Packaging reduced by 64%

Altivar Process is the first drive that makes the Industrial Internet of Things a reality.



Scan the code to find out more
about Altivar Process.

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Life Is On

Schneider
Electric