

Metso

Your #1 service partner from pit to port

We offer parts, process optimization and everything in between. You set the target. We provide the solution.



I wonder if making just the right upgrades to our fine crushing circuit would help increase throughput in the grinding stage?"

André Araújo
Contracts Manager



END-TO-END SOLUTIONS

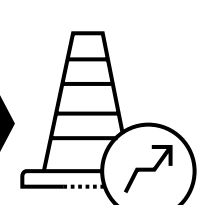
YOUR TARGETS AND OUR AFTERMARKET SOLUTIONS

Metso and third-party brands	IMPROVED SAFETY	LOWER ENVIRONMENTAL IMPACT	OPTIMIZED PRODUCTION	REDUCED COSTS
BLASTING AND HAULING <ul style="list-style-type: none"> Truck bodies Truck bed linings (RU, M)* Buckets, GET and accessories Services, tools and digital solutions 	Truck bed lining, truck body accessories, cable crossing	Light-weight & durable truck body, drill & blast optimization, repairs	Truck bed lining, buckets, payload scanning, truck planner, drill & blast optimization, ore characterization, SmartTag ore tracking, VisioTruck	Truck bed lining, truck planner, cable crossing
Truck bodies, installation & commissioning, inspections, remote monitoring				
CRUSHING <ul style="list-style-type: none"> Crushers and plant solutions Chutes Working wear parts (M)* Protective wear parts (M, C)* Chute liners (RU, M, C)* Spare parts and upgrades Services, tools and digital solutions 	Modern parts for existing equipment, rotatable primary gyratory shells, component replacement, shutdown optimization, lifting tools/maintenance platforms, concave carousels	Longer-life wear materials, optimized crushing chamber, no-backing liners, scrap return programs, repairs	Crushing360, wear parts optimization, Xlok wear liners, concave carousels, laboratory testing, crushing simulation, wear monitoring	Poly-Cer protective liners, quality materials for lower operating costs, price-conscious liner options for less demanding applications
Chamber optimization, OEM spares, upgrades & modernizations, installation & commissioning, inspections, remote monitoring				
CONVEYING AND FEEDING <ul style="list-style-type: none"> Conveyors and feeders Transfer chutes and bins Chute liners (RU, M, C, PU, PE)* Belt conveyor accessories Belts and components Services, tools and digital solutions 	Hi-safe systems, holdback systems, single-sided wear liner fastener and handling systems	Aramid reinforced belts, Flexopipe® belts, Xledge wear liners, Energy-Saving Idlers (ESI), repairs	Engineered-class idlers and pulleys, high-performance belts, dual-hardness cleaner blades, Xledge wear liners, single-sided wear liner fastener systems, RockSense	Energy-Saving Idlers (ESI), impact cradles, impact bars
Engineered-class parts, upgrades & modernizations, installation & commissioning, inspections, remote monitoring				
SCREENING <ul style="list-style-type: none"> Screens Chutes Screening media (RU, M, PU)* Chute liners (RU, M, C, PU, PE)* Spare parts Services, tools and digital solutions 	Fire-retardant rubber media, light-weight/noise-absorbing media, Microledge, hammerless attachment system, single-sided wear liner fastener and handling systems	Repairs	Screening360, Microledge, hammerless attachment system, single-sided wear liner fastener systems	Range of screening media to suit specific applications
Optimized screening media/wear liners, OEM spares, installation & commissioning, inspections, remote monitoring				
GRINDING <ul style="list-style-type: none"> Horizontal and stirred mills High pressure grinding rolls (HPGR) Mill trommels, feed/discharge chutes Mill linings (RU, M, PM)* Stirred mills/HPGR wear parts Chute liners (RU, M, C, PU, PE)* Spare parts and upgrades Reline machines Services, tools and digital solutions 	Megaliner™, light-weight liners, inching drive and feed chute upgrades, girth gear flushing & cleaning, pre-assembly of components, reline machines, digital inspections, VertiSense™	Mill lining optimization, mill lining recycling, mill power draw studies, repairs, VertiSense™	Megaliner™, optimized discharge systems, mill feed solutions, mill lining performance monitoring, VertiSense™, particle size analyzer PSL®, SMED analysis, grinding circuit optimization, SmartEar, MillSense, digital inspections	Polymer bearing pads, modernized lubrication skids, non-destructive gear testing, Maintenance Reliability Planning (MRP), Asset Maintenance Readiness (AMR), mill power draw studies
Optimized mill/chute liners, OEM spares, upgrades & modernizations, installation & commissioning, inspections, remote monitoring				
SLURRY HANDLING <ul style="list-style-type: none"> Vertical and horizontal pumps Hydrocyclones Pumps box/sump Pump linings, slurry hoses and valves Wear liners (RU, M, C, PU, PE)* Spare parts and upgrades Services, tools and digital solutions 	Maintenance slide base upgrade, component replacement	EnviroSet seals, repairs	Rotable pump programs, pump conversion kits	
OEM spares, upgrades & modernizations, installation & commissioning, inspections				
FLOTATION <ul style="list-style-type: none"> Mechanical and pneumatic cells Magnetic separators Protective liners (RU, C, PU, PE)* Spare parts and upgrades Samplers and analyzers Services, tools and digital solutions 	Asset Maintenance Readiness (AMR), component replacement, service platform	FloatForce, repairs	FloatForce, courier analyzer, center launder upgrade, froth management upgrade, process assessment, cell retrofit, air control upgrade, APC, concorde tube upgrade	Cell retrofit, courier analyzer, speed optimization service, FloatForce, equipment refurbishment, center launder upgrade, drive unit upgrade
OEM spares, upgrades & modernizations, installation & commissioning, inspections, remote monitoring				
THICKENING AND CLARIFYING <ul style="list-style-type: none"> High-rate thickeners Spiral dewaterers High compression & paste thickeners Inclined plate settlers & clarifiers Spare parts and upgrades Services and digital solutions 	Asset Maintenance Readiness (AMR), SCD split ring, component replacement	Reactorwell upgrade, repairs	Reactorwell upgrade, bridge & mechanism upgrade, thickener optimizer	Reactorwell upgrade, thickener optimizer, SCD split ring, froth management upgrade
OEM spares, upgrades & modernizations, installation & commissioning, inspections				
FILTRATION <ul style="list-style-type: none"> Pressure, vacuum and polishing filters Wear parts Spare parts and upgrades Services, tools and digital solutions 	Asset Maintenance Readiness (AMR), filter plates & membranes, hybrid filter plates, VPA pinch valve, component replacement	VPA filter plates & membranes, service exchange plate packs, repairs	Filter expansion kit, filter automation, filter optimizer, metrics, VPA filter plates & membranes, filter cloths, hybrid filter plates	Filter expansion kit, VPA filter plates & membranes, filter cloths, hybrid filter plates
OEM spares, upgrades & modernizations, installation & commissioning, inspections, remote monitoring				
HYDROMETALLURGY <ul style="list-style-type: none"> Tankhouse Stripping machines Agitators & reactors Upgrades Services and digital solutions 	Cathode stripping machine	Repairs	Anode milling unit upgrade, Oktop agitator upgrade, anode press block refurbishment	Anode milling unit upgrade, Oktop agitator upgrade, anode press block refurbishment
OEM spares, upgrades & modernizations, installation & commissioning, inspections				
PYRO PROCESSING <ul style="list-style-type: none"> Kilns, dryers and coolers Holoflite heat exchanger systems Iron ore pellet plants Spare parts and upgrades Services, tools and digital solutions 	Diagnostics, training services, girth gear flushing & cleaning, component replacement	Reduced emission burners, repairs	Diagnostics, digital inspections, combustion optimization	Diagnostics, combustion optimization, hot and cold kiln alignment, mechanical evaluation
OEM spares, upgrades & modernizations, installation & commissioning, inspections				
MATERIAL HANDLING <ul style="list-style-type: none"> Feeders and railcar handling Stockyard machines Specialized conveying Hoppers, bins and chutes Chute liners (RU, M, C, PU, PE)* Spare parts and upgrades Services, tools and digital solutions 	Smart condition monitoring systems, car dumper trunnions, automation systems, single-sided wear liner fastener and handling systems	WearSense, cast manganese feeder pans, lubricated for life car dumper trunnions, repairs	Feeder capacity upgrades, specialized conveyor capacity upgrades, slow bearing upgrade, bucket wheel upgrades, car dumper system optimization, single-sided wear liner fastener systems	Car dumper trunnions, cast manganese apron feeder pans
OEM spares, upgrades, installation & commissioning, inspections, remote monitoring				

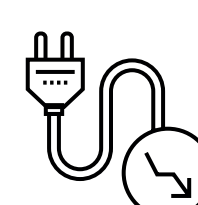
Process optimization, Life Cycle Services, digital solutions, training

LONG-TERM PARTNERSHIP

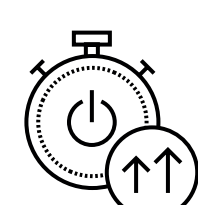
A long-term collaboration is the surest way to get the best possible outcome and reach your targets. Together, we can take the efficiency of your operation to the next level.



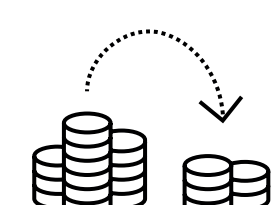
up to **60%**
fewer hours of maintenance



up to **25%**
lower energy consumption

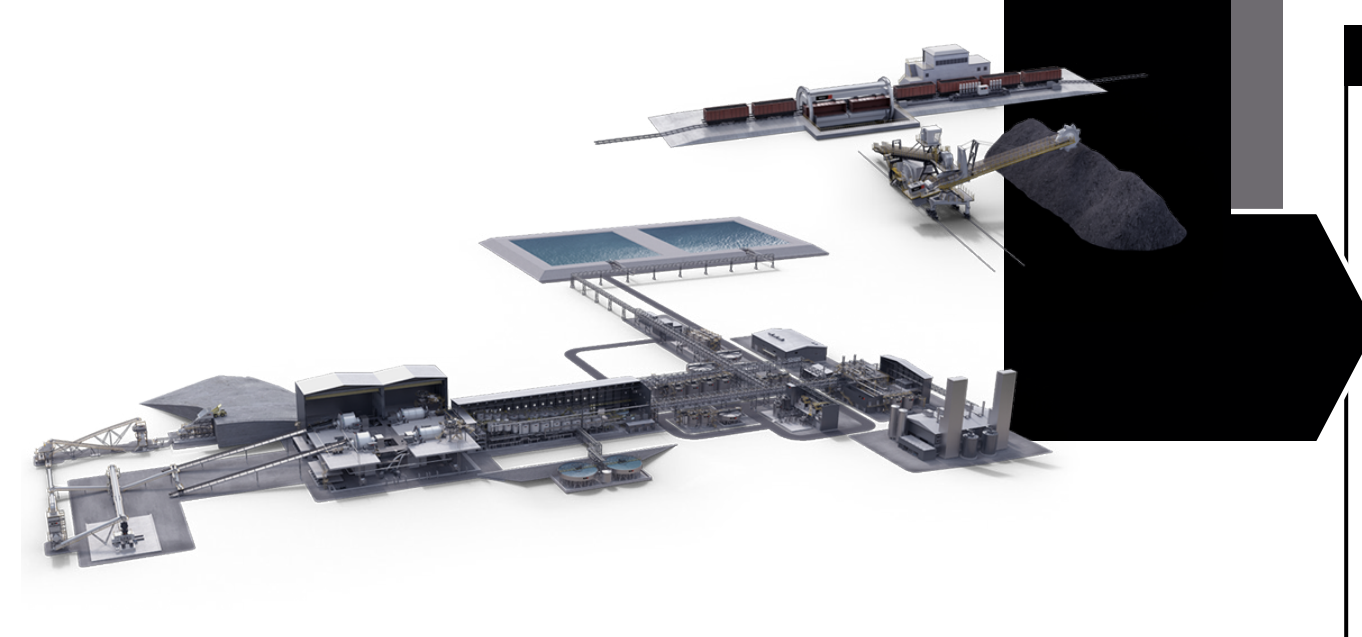


up to **69%**
less downtime



up to **24%**
total cost reduction

Numbers refer to specific solutions



(*) RU=rubber, M=metallic, C=ceramic, PM=Poly-Met, PU=polyurethane, PE=polyethylene