



- Datasheet

High-flow spider

Increase feed height. Eliminate blockages.
Maximise crusher uptime.

The FLS high-flow spider is a retrofit-ready upgrade for gyratory crushers, designed to resolve feed-zone limitations that reduce throughput, cause unplanned downtime, and accelerate component wear. Featuring a raised feed height and enhanced flow-path geometry, it improves ore movement into the crushing chamber while reducing reliance on rock breakers. With fewer shutdowns, longer wear life, and improved safety, the high-flow spider unlocks greater productivity and lower operating costs across the circuit.

Key benefits

- **+200 mm raised feed height** improves material flow and reduces risk of choking.
- **Up to 5 extra hours of daily crushing** increases crusher utilisation.
- **Up to 25% longer wear life** from improved ore shielding and wear geometry.
- **Reduced manual clearing** lowers operator exposure and improves safety.
- **Installs on existing mainshaft and upper shell** with no structural changes.

Key technical highlights

Raised feed height improves flow

The raised feed height enables a more efficient entry angle for the ore, reducing the risk of material choking and improving crusher throughput. This adjustment alone allows for more consistent flow across the crushing chamber and downstream equipment, increasing overall processing efficiency.

Enhanced shielding extends wear life

Enhanced ore shielding protects the spider and associated components from direct impact. This reduces wear and prolongs component life by up to 25%, enabling longer operational cycles between planned shutdowns. The reduced wear also lowers replacement part costs and maintenance frequency.

Open channel design reduces blockages

The open channel design of the high-flow spider promotes clean, unrestricted ore flow through the feed zone. This mitigates material build-up, minimises the need for rock

breaker use, and supports safer maintenance environments with less manual intervention.

Self-cleaning geometry simplifies inspections

Its geometry is optimised for simplified inspections and maintenance. With fewer material accumulation zones and a self-cleaning profile, visual checks can be completed faster, reducing downtime and improving maintenance predictability.

Retrofit-ready for fast integration

As a retrofit-ready solution, the high-flow spider is engineered to integrate seamlessly with existing main shafts and upper shells. This reduces installation time, avoids major CAPEX, and allows for rapid deployment during scheduled maintenance windows.

FLS is a leading, full flowsheet minerals processing supplier to the global mining industry. We deliver proven technologies and services across the lifecycle of operations, and have set targets of providing solutions for zero-emissions mining by 2030 with our MissionZero programme.

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