



U.S. Tsubaki, Inc.

Mining Industry Products

# Power and Performance

For the Mining Industry



# Mining

# U.S. Tsubaki The Power to Perform

The mining industry demands the most from power transmission products — roller chains, engineering class chains, sprockets, and components have to perform. Tough operating conditions. High shock loads. Dirt, moisture, and acidic environments. They take a toll on the products that move your operation. This is why you need U.S. Tsubaki.

U.S. Tsubaki builds reliable, high-performance power transmission products for underground mining and for surface mining applications. With U.S. Tsubaki, you have a qualified, reliable, single source for dependable heavy-duty chains, sprockets, and power transmission components. These are the products that help you move mountains...and more.

Whether you are an original equipment manufacturer or you want to maintain or revitalize existing equipment at your facility, count on U.S. Tsubaki to deliver reliable, high-performance power.



# Taking Mining Equipment to the Next Level of Performance

**U.S. Tsubaki** makes some of the best mining products in the world. We build reliable, high-performance roller chains, engineering class chains, sprockets, and components that you can count on for your operation.

Our experienced design engineers understand the particular challenges of surface and underground mines. We maintain vast inventories of ready-to-ship products as well as a wide variety of components in stock, ready for assembly. You get prompt service and quick turn-around on your orders, reducing your downtime.

Protect your profits with heavy-duty products designed for the mining industry from U.S. Tsubaki.

RS Roller Chains



Heavy-Duty Roller Chains



Specialty Chains



Engineering Class Chains



Sprockets



Other Power Transmission Components



For surface and underground mining, U.S. Tsubaki does big jobs better. Count on U.S. Tsubaki to help you move mountains....and more!





# Sprockets

Chains and sprockets must work together smoothly, so buying them from the same source makes sense. When chains and sprockets articulate correctly, the life of the chain is extended. That means real value and long-term savings for your operation.

U.S. Tsubaki builds sprockets that last. We start with high quality alloy and carbon steel, then we flame-harden, induction-harden, or carburize the teeth to ensure long wear life and reliable performance. The result is lower operating costs and improved productivity because wear life is increased and downtime for repair and maintenance is minimized.

U.S. Tsubaki is the only manufacturer in the United States that builds Roller Chains, Engineering Class Chains, and Sprockets. That means you get Chains and Sprockets that work together every time, reducing operational hassles. You deal with a single, reliable supplier, simplifying everything from deliveries to accounts payable. And you take advantage of our skilled engineering and production teams who can answer your questions and keep your operation turning smoothly.



# Other Power Transmission Components

Build reliability into your system with components and accessories from U.S. Tsubaki.

ONE-TOUCH INSPECTION DOOR® provides easy access to any conveyor line. These prefabricated steel doors seal out dust and rain but permit you to check a line by simply lifting the handle. Clear a jam. Pull analysis samples. Check an operation quickly and easily. You can't build better access to your lines.



POWER-LOCK® attaches securely to sprockets and shafts without the need for keyways. This easy-to-install unit slides into position and offers a keyless shaft-hub lock. It handles both high torque, shock, and thrust while actually increasing the strength of the connection. Put the real power of your equipment to work with POWER-LOCK.



POWER-CYLINDER™ — the electromechanical (EM) linear actuator from U.S. Tsubaki — provides power and precision in a wide variety of applications. More reliable than hydraulics and less costly than pneumatics, you can count on POWER-CYLINDER for high-performance

opening, closing, pushing, pulling, lifting, lowering, and much more.



**POWER SHOVEL/DAGLINE**

Engineering Class Drive Chains  
RS Roller Chains

**BLAST HOLE DRILLING MACHINE**

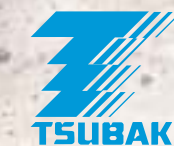
RS Roller Chains  
RS Heavy Series Roller Chains  
RS-HT Roller Chains  
Engineering Class Drive Chains

**UNDERCUTTER**

RS Roller Chains  
RS Heavy Series Roller Chains

**FEEDEr BREAKER**

Feeder Breaker Conveyor Chains  
RS Roller Chains  
RS Heavy Series Roller Chains  
Sprockets  
POWER-LOCK®



**Mining**

# U.S. Tsubaki

## Surface Mining

Partner with a power transmission company that understands your challenges and offers real solutions. Our strong, long-lasting chains, sprockets, and power transmission components add up to real benefits:

1. We keep your replacement and maintenance costs down.
2. We help make excavation and reclamation efficient and cost-effective.
3. We protect your investment and keep your operation moving at peak capacity.

Make sure you have the right power transmission products to keep each piece running to capacity. U.S. Tsubaki offers reliable Roller Chains, Engineering Class Drive Chains, Sprockets, ONE-TOUCH INSPECTION DOOR<sup>®</sup>, and POWER-CYLINDER<sup>™</sup> to keep your equipment operating at maximum performance. We have developed a variety of special platings, such as WP<sup>®</sup>, to increase wear life under highly acidic and corrosive conditions.

Put U.S. Tsubaki to work at your mine, and see the benefits in motion — improved productivity and reduced downtime.



# Moves Mountains

Equipment

U.S. Tsubaki makes...

Power Shovels/Draglines/  
Excavators/Cranes

**Engineering Class Drive Chains**  
**RS Roller Chains**

Blasthole Drills  
Truck-mounted  
Track-mounted  
Construction

**RS Roller Chains**  
**RS Heavy Series Roller Chains**  
**RS-HT Roller Chains**  
**Engineering Class Drive Chains**

Mine Ventilation

**ONE-TOUCH INSPECTION DOOR®**

Hoppers/Chutes

**ONE-TOUCH INSPECTION DOOR®**  
**POWER-CYLINDER™**

Crushers/Pulverizers/Screens

**RS Roller Chains**  
**Apron Conveyor Chains**  
**Pan Conveyor Chains**  
**Sprockets**  
**POWER-LOCK®**



# Mining

# U.S. Tsubaki

## Underground Mining

So much is at stake when your operation goes underground.

1. Shock loads are high and a chain break can take hours to fix. Downtime is lost money.
2. Efficient extraction operations can make the difference between profits and losses.
3. You need to get in and get out as quickly as possible, which means maximum performance from every piece of equipment.

U.S. Tsubaki offers the strongest link to profits for continuous mining — reliable, long-lasting Roller Chains, Engineering Class Drive Chains, Sprockets, ONE-TOUCH INSPECTION DOOR<sup>®</sup>, and POWER-CYLINDER<sup>™</sup>. Sealed joints are available on feeder breaker chains to prolong bushing pin wear life by keeping contaminants out. A variety of special platings are also available on wash box chains and feeder breaker chains for protection against highly acidic and corrosive conditions.

Don't let your profits go down for the count. When equipment and profits matter, choose U.S. Tsubaki for reliable performance in the mine.

### Equipment

### U.S. Tsubaki makes...

Continuous Miners

**64S, 64SH, US2 Tram Chains**  
**RS-HT Roller Chains**  
**RS Roller Chains**  
**Sprockets**  
**POWER-LOCK<sup>®</sup>**

Continuous Haulage

**Bridge Conveyor Chains**  
**RS Roller Chains**  
**Sprockets**  
**POWER-LOCK<sup>®</sup>**



# Digs Deep



Shuttle Cars

**Super Shuttle 4 Chains**  
**Standard Shuttle Car Chains**  
**RS Heavy Series Roller Chains**  
**Specialty Mine Chains**  
**Sprockets**  
**POWER-LOCK®**

Feeder Breakers

**Feeder Breaker Conveyor Chains**  
**RS Roller Chains**  
**RS Heavy Series Roller Chains**  
**Sprockets**  
**POWER-LOCK®**

Coal Preparation Plants  
Wash Box

**Wash Box Chains**  
**Jig Washer Chains**  
**Sprockets**  
**POWER-LOCK®**

Roof Support Machines/  
Roof Bolters

**RS Roller Chains**  
**RS Heavy Series Roller Chains**  
**Sprockets**  
**POWER-LOCK®**

Scoops/Loaders

**RS Heavy Series Roller Chains**  
**RS-HT Roller Chains**  
**64S, 64SH Chains**  
**Sprockets**  
**POWER-LOCK®**



## Strong, Long-Lasting Products for Your Application

- Durable construction for longer wear life and lower maintenance costs
- Superior toughness for maximum shock loads and severe environments
- Reliable performance for improved productivity in the toughest applications
- Value-enhanced products for innovative solutions to real operating challenges: Seals, plating combinations, and system enhancements
- Complete conveyor and drive systems — chains and sprockets — for 100 percent compatibility and performance

U.S. Tsubaki—  
the mining  
mover

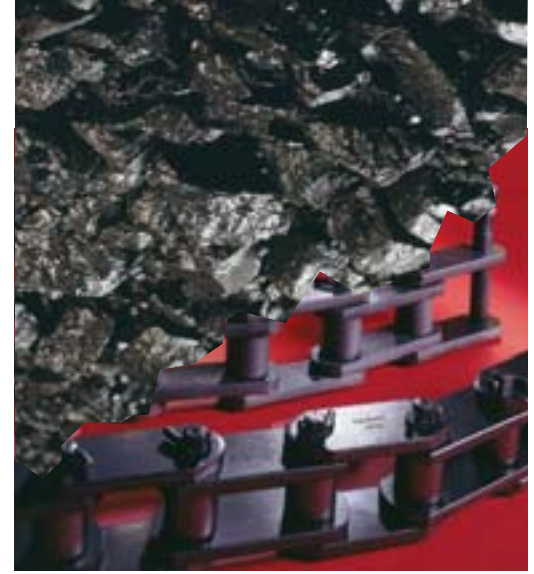


# U.S. Tsubaki

## Rock Solid Support for Today's Mines

- Reduce downtime
- Increase profitability
- Improve productivity

The next level of performance...  
Call today.



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