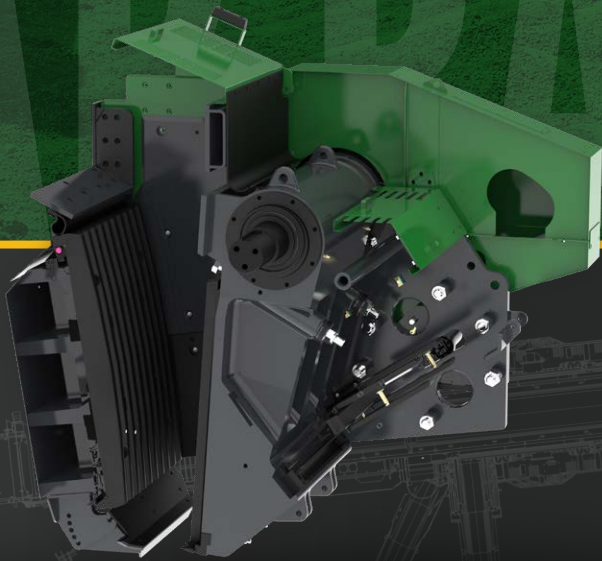


JAW CRUSHER WEAR PARTS SELECTION GUIDE

WEAR PARTS



MPP
AFTERMARKET

McCloskey[®]
INTERNATIONAL



At MPP Aftermarket, we understand that every second of downtime impacts your bottom line. That is why we deliver premium wear parts for jaw crushers with precision, reliability and speed. Our global parts inventory, supported by factory-trained technical and on-call support teams, means you get the right component exactly when you need it.

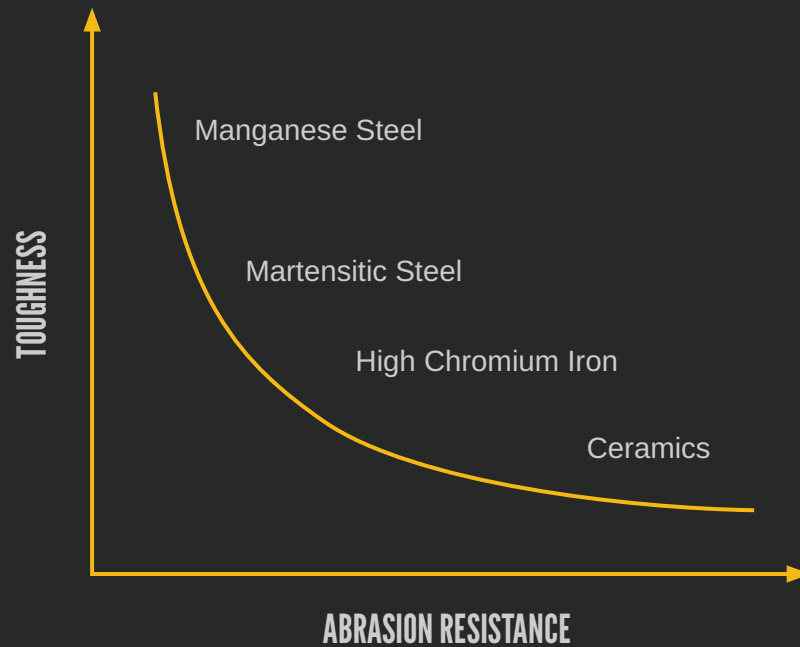
Whether you are replacing liners, cheek plates, toggle assemblies or complete wear-kits, choosing the correct material grade and geometry is critical to maximize throughput and minimize unplanned maintenance. Industry leaders highlight that well-engineered wear parts help avoid costly stoppages, extend service life and stabilize crushing performance.

Partnering with MPP Aftermarket ensures your operations remain productive and profitable. Our promise is simple: uptime delivered.

WEAR PARTS

MATERIALS & PROPERTIES

MATERIAL TOUGHNESS vs ABRASION RESISTANCE



WEAR PART MATERIALS

MANGANESE STEEL
Cone Liners (Cone Crushers) Jaw Dies (Jaw Crushers) Blow Bars (Impact Crushers)
MARTENSITIC STEEL (HARDENED STEEL)
Blow Bars (Impact Crushers)
HIGH CHROMIUM IRON (CHROME)
Blow Bars (Impact Crushers)
COMPOSITES (CERAMIC INSERTS)
Blow Bars (Impact Crushers)

MANGANESE STEEL

Manganese steel is the most common material for crusher wears. The wear resistance of manganese steel is based on a work hardening phenomenon. When the surface of manganese steel is under heavy impact or a compressive load, it hardens from the surface while the base material remains tough. The depth and hardness of the work hardened surface vary depending on the application and manganese steel grade.

The standard all-round manganese level, and the most common for all jaws and cone liners, is 18%. Low-manganese-grade steel (14%) work hardens more slowly than higher grades but is more impact resistant. Higher levels (22%) are used in very hard and abrasive applications where significant wear resistance is needed.



WEAR MECHANISMS

IN CRUSHING CHAMBERS

TYPES OF WEAR MECHANISMS

Wear is the gradual loss of material from crushing surfaces through different mechanisms. The two primary types found in crusher chambers are *abrasive wear* and *fatigue wear*.

Abrasive wear happens when hard particles or fragments scrape, gouge, or grind against wear parts, steadily removing material from the surface.

Fatigue wear develops from repeated impact or compression loads that cause microscopic cracking and surface flaking over time.

During the crushing cycle, high-stress abrasion occurs when larger particles strike the surface, while low-stress abrasion appears between cycles as smaller particles slide across wear parts.



ABRASION AND FATIGUE OVERVIEW

	<h4>GOUGING ABRASION</h4> <ul style="list-style-type: none"> Large particles. High impact or compression loads. Good work hardening on manganese.
	<h4>LOW STRESS OR SCRATCHING ABRASION</h4> <ul style="list-style-type: none"> No compression load. Scratching abrasion occurs while material is sliding on the surface of the wear part. Less work hardening on manganese.
	<h4>HIGH STRESS OR GRINDING ABRASION</h4> <ul style="list-style-type: none"> Smaller particles. High compression load. Less work hardening on manganese.

WEAR FACTORS

WHAT AFFECTS WEAR LIFE

SERVICE LIFE FACTORS

The service life of crusher wear parts is influenced by many factors, from the type of wear and operating conditions to the characteristics of the feed material and the properties of the parts themselves.

Of these, the abrasiveness and crushability of the feed material are often the most critical, directly affecting performance, longevity, and overall operating efficiency.

ENVIRONMENTAL FACTORS	TYPE OF WEAR	CRUSHER PARAMETERS	FEED	WEAR MATERIAL
<ul style="list-style-type: none"> Moisture Temperature 	<ul style="list-style-type: none"> Abrasion Fatigue Corrosion Adhesion 	<ul style="list-style-type: none"> CSS Speed Stroke 	<ul style="list-style-type: none"> Distribution Rock types & characteristics Wearing Particles 	<ul style="list-style-type: none"> Wear material type / Chemical composition Wear part Manufacturing quality

FEED MATERIAL CLASSIFICATIONS & PROPERTIES

ABRASIVE CLASSIFICATION

Abrasiveness of the feed material can be determined in rock laboratories using a test for abrasiveness. The table (right) indicates the abrasiveness of rock based on this test.

CLASSIFICATION	FRENCH ABRASIVENESS (G/TON)
Non-Abrasive *	0 - 100
Slightly Abrasive **	101 - 600
Medium Abrasive ***	601 - 1200
Abrasive ****	1201 - 1700
Very Abrasive *****	1701+

CLASSIFICATION	CRUSHABILITY (%)
Very Easy *	50 +
Easy **	40 - 49
Medium ***	30 - 39
Difficult ****	20 - 29
Very Difficult *****	0 - 19

CRUSHABILITY CLASSIFICATION

Crushability indicates how easily the rock material breaks down. Harder rock with a low crushability value requires more crushing energy than softer rock with a higher crushability value.

APPLICATION	ABRASIVENESS	CRUSHABILITY
Basalt	500 - 2500 ****	20 - 50 ***
Dolomite	0 - 500 **	30 - 60 **
Granite	900 - 1900 **	30 - 90 *
Gravel	300 - 2500 ***	30 - 55 **
Limestone	0 - 500 **	30 - 65 **
Recycled Concrete	600 - 1200 ***	20 - 50 ***
Recycled Asphalt	1500 - 2400 *****	30 - 50 ***

MATERIAL PROPERTIES

Different materials wear crusher parts differently. Highly abrasive types like basalt need tougher parts, while softer aggregates such as limestone are easier to crush. Understanding abrasiveness and crushability ensures optimal wear part selection.

“THE QUALITY AND STANDARD IS HIGHER THAN WHAT YOU WOULD GET IN THE LOCAL MARKET, AND THAT SETS US APART IN THIS INDUSTRY.”

– KANU EQUIPMENT, SOUTH AFRICA

SCAN TO DISCOVER HOW MPP AFTERMARKET IS EMPOWERING KANU EQUIPMENT TO DELIVER INDUSTRY LEADING CUSTOMER SERVICE:

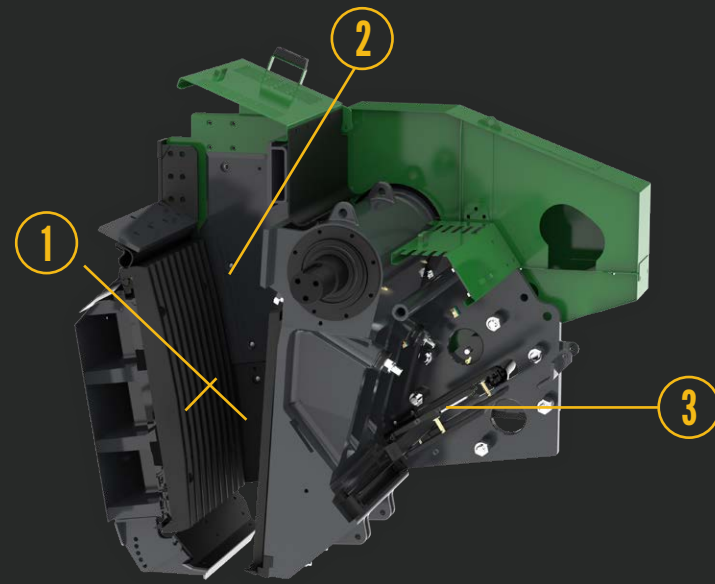


JAW CRUSHERS

WEAR PARTS

QUALITY PARTS, LASTING PERFORMANCE

Our jaw plates and cheek plates are precision-crafted in our own foundries, undergoing strict, continuous quality control. By overseeing every stage, from raw materials to final finishing, we ensure reliable, long-lasting performance that keeps your machines operating at peak efficiency.



1 JAW DIES (FIXED & SWING)

Safeguard the crushing chamber walls against wear. Properly fitted cheek plates reduce material build-up and unplanned downtime.

2 CHEEK PLATES

High-manganese steel plates offer secure material gripping and enhance throughput. Engineered for precise alignment and maximum longevity.

3 TOGGLE PLATE

A toggle plate acts as a safety device in a jaw crusher. When uncrushable material enters the crusher, the toggle plate is designed to break or bend under excessive pressure. This action releases the moving jaw, allowing the obstructing material to fall through or be removed safely. Toggle plates are typically made of metal and engineered to deform or fracture at a specific load, signaling that an object too hard for crushing is present.



JAW CRUSHERS

DIE WEAR PART TYPES

TAILORED TO YOUR APPLICATION

Engineered for durability and performance, our wear parts excel with any rock type, whether surface or underground. Available in Multitooth, Squaretooth, Corrugated, and Heavy Duty profiles, they ensure the perfect fit to maximize efficiency and wear life.

	<h4>HEAVY DUTY</h4> <ul style="list-style-type: none"> Improved material flow due to more surface area for fines to flow. Better wear life due to better fines removal and height of teeth. More production than regular jaw plates. Improved product quality due to less slabby material.
	<h4>MULTITOOTH</h4> <ul style="list-style-type: none"> Suitable for recycled concrete and demolition waste. Sharp tooth profile creates good grip on feed material. More space for fines to pass through (fines removal from feed material is recommended).
	<h4>25-30 MM CORRUGATED</h4> <ul style="list-style-type: none"> Suitable for recycled concrete, asphalt and demolition waste. Resists dirt packing and can be fed with dirt and fines. More tooth contact surface area compared to Multitooth jaws. More wearable Mn-steel than in Multitooth jaws.
	<h4>50-65 MM CORRUGATED</h4> <ul style="list-style-type: none"> Suitable for gravel, hard, soft and slabby rock. Less slabby product with high production. More space for fines to pass through (fines removal from feed material is recommended).
	<h4>SQUARETOOTH</h4> <ul style="list-style-type: none"> Good in abrasive and / or blasted rock. Flat tooth profile maximizes lifetime (more surface area to crush with). More wearable Mn-steel than in Multitooth jaws. Less space for fines to pass through (fines removal from feed material is important).

J3c / J3cR CRUSHER

WEAR PARTS GUIDE



J3cR MODEL SHOWN

J4 CRUSHER

WEAR PARTS GUIDE



J3c / J3cR CRUSHER

FIXED			SWING		
PART NUMBER	JAW-DIE TYPE	MN %	PART NUMBER	JAW-DIE TYPE	MN %
525-007-041	Multitooth	18%	525-007-036	Multitooth	18%
525-007-042	25 mm Corrugated	18%	525-007-037	25 mm Corrugated	18%
525-007-043	45 mm Corrugated	18%	525-007-038	45 mm Corrugated	18%
525-007-044	Square Tooth	18%	525-007-039	Square Tooth	18%

CHEEK PLATE SELECTION GUIDE

J3c / J3cR	
PART NUMBER	CHEEK PLATE LOCATION
525-007-023	Cheek plate lower LH
525-007-022	Cheek plate lower RH
525-007-025	Cheek plate upper LH
525-007-024	Cheek plate upper RH

J4 CRUSHER

FIXED			SWING		
PART NUMBER	JAW-DIE TYPE	MN %	PART NUMBER	JAW-DIE TYPE	MN %
559-003-075	Heavy Duty	18%	559-003-074	Heavy Duty	18%
559-003-075-22	Heavy Duty	22%	559-003-074-22	Heavy Duty	22%
559-003-071	Square Tooth	18%	559-003-070	Square Tooth	18%
559-003-071-22	Square Tooth	22%	559-003-070-22	Square Tooth	22%
559-003-073	60 mm Corrugated	18%	559-003-072	60 mm Corrugated	18%
559-003-073-22	60 mm Corrugated	22%	559-003-072-22	60 mm Corrugated	22%

CHEEK PLATE SELECTION GUIDE

J4	
PART NUMBER	CHEEK PLATE LOCATION
559-003-113	Cheek plate lower
559-003-024	Cheek plate upper LH
559-003-023	Cheek plate upper RH

J40 / J40V2 CRUSHER

WEAR PARTS GUIDE



J40 MODEL SHOWN

J45 / J45R CRUSHER

WEAR PARTS GUIDE



J45 MODEL SHOWN

J40 / J40V2 CRUSHER

FIXED		
PART NUMBER	JAW-DIE TYPE	MN %
504-015-132	Heavy Duty	18%
504-015-132-22	Heavy Duty	22%
504-015-086-18	Multitooth	18%
504-015-086-22	Multitooth	22%
504-015-089-18	Square Tooth	18%
504-015-089-22	Square Tooth	22%
504-015-088-18	50 mm Corrugated	18%
504-015-088-22	50 mm Corrugated	22%
504-015-087-18	30 mm Corrugated	18%
504-015-087-22	30 mm Corrugated	22%

SWING		
PART NUMBER	JAW-DIE TYPE	MN %
504-015-131	Heavy Duty	18%
504-015-131-22	Heavy Duty	22%
504-015-081-18	Multitooth	18%
504-015-081-22	Multitooth	22%
504-015-084-18	Square Tooth	18%
504-015-084-22	Square Tooth	22%
504-015-083-18	50 mm Corrugated	18%
504-015-083-22	50 mm Corrugated	22%
504-015-082-18	30 mm Corrugated	18%
504-015-082-22	30 mm Corrugated	22%

J45 / J45R CRUSHER

FIXED		
PART NUMBER	JAW-DIE TYPE	MN %
551-015-096	Heavy Duty	18%
551-015-096-22	Heavy Duty	22%
551-015-086-18	Multitooth	18%
551-015-086-22	Multitooth	22%
551-015-089-18	Square Tooth	18%
551-015-089-22	Square Tooth	22%
551-015-088-18	50 mm Corrugated	18%
551-015-088-22	50 mm Corrugated	22%
551-015-087-18	30 mm Corrugated	18%
551-015-087-22	30 mm Corrugated	22%

SWING		
PART NUMBER	JAW-DIE TYPE	MN %
551-015-097	Heavy Duty	18%
551-015-097-22	Heavy Duty	22%
551-015-081-18	Multitooth	18%
551-015-081-22	Multitooth	22%
551-015-084-18	Square Tooth	18%
551-015-084-22	Square Tooth	22%
551-015-083-18	50 mm Corrugated	18%
551-015-083-22	50 mm Corrugated	22%
551-015-082-18	30 mm Corrugated	18%
551-015-082-22	30 mm Corrugated	22%

CHEEK PLATE SELECTION GUIDE

J40 / J40V2

PART NUMBER	CHEEK PLATE LOCATION
504-015-026	Cheek plate lower LH
504-015-025	Cheek plate lower RH
504-015-024	Cheek plate upper LH
504-015-023	Cheek plate upper RH

CHEEK PLATE SELECTION GUIDE

J45 / J45R

PART NUMBER	CHEEK PLATE LOCATION
551-015-026	Cheek plate lower LH
551-015-025	Cheek plate lower RH
551-015-024	Cheek plate upper LH
551-015-023	Cheek plate upper RH

J50 / J50V2 CRUSHER

WEAR PARTS GUIDE



J50V2 MODEL SHOWN

J6 CRUSHER

WEAR PARTS GUIDE



J50 / J50V2 CRUSHER

FIXED		
PART NUMBER	JAW-DIE TYPE	MN %
501-023-113	Heavy Duty	18%
501-023-113-22	Heavy Duty	22%
501-023-086-18	Multitooth	18%
501-023-086-22	Multitooth	22%
501-023-089-18	Square Tooth	18%
501-023-089-22	Square Tooth	22%
501-023-088-18	50 mm Corrugated	18%
501-023-088-22	50 mm Corrugated	22%
501-023-087-18	30 mm Corrugated	18%
501-023-087-22	30 mm Corrugated	22%

SWING		
PART NUMBER	JAW-DIE TYPE	MN %
501-023-114	Heavy Duty	18%
501-023-114-22	Heavy Duty	22%
501-023-081-18	Multitooth	18%
501-023-081-22	Multitooth	22%
501-023-084-18	Square Tooth	18%
501-023-084-22	Square Tooth	22%
501-023-083-18	50 mm Corrugated	18%
501-023-083-22	50 mm Corrugated	22%
501-023-082-18	30 mm Corrugated	18%
501-023-082-22	30 mm Corrugated	22%

CHEEK PLATE SELECTION GUIDE

J50 / J50V2

PART NUMBER	CHEEK PLATE LOCATION
501-023-026	Cheek plate lower LH
501-023-025	Cheek plate lower RH
501-023-024	Cheek plate upper LH
501-023-023	Cheek plate upper RH

J6 CRUSHER

FIXED		
PART NUMBER	JAW-DIE TYPE	MN %
529-003-069	Heavy Duty	18%
529-003-069-22	Heavy Duty	22%
529-003-071	Square Tooth	18%
529-003-071-22	Square Tooth	22%
529-003-073	65 mm Corrugated	18%
529-003-073-22	65 mm Corrugated	22%

SWING		
PART NUMBER	JAW-DIE TYPE	MN %
529-003-068	Heavy Duty	18%
529-003-068-22	Heavy Duty	22%
529-003-070	Square Tooth	18%
529-003-070-22	Square Tooth	22%
529-003-072	65 mm Corrugated	18%
529-003-072-22	65 mm Corrugated	22%

CHEEK PLATE SELECTION GUIDE

J6

PART NUMBER	CHEEK PLATE LOCATION
529-003-074	Cheek plate lower
529-003-024	Cheek plate upper LH
529-003-023	Cheek plate upper RH

GENUINE PARTS. GENUINE ADVANTAGE.



MPP Aftermarket is the exclusive OEM provider of parts, service, and technical training for McCloskey International. Strategically located parts centers in North America and Europe enable rapid delivery, maximizing equipment uptime for customers worldwide.

GENUINE OEM PARTS: THE KEY TO SUSTAINED PERFORMANCE



**PERFECT FIT &
FUNCTION**



**OPTIMIZED
CRUSHER ECONOMY**



**WARRANTY
COMPLIANCE &
EXTENDED COVERAGE**



**SAFER MAINTENANCE
& LONGER LIFESPAN**



**TECHNICAL SUPPORT &
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TRUSTING OEM PARTS IS AN INVESTMENT THAT PAYS
OFF IN PERFORMANCE, UPTIME, AND TOTAL PEACE OF MIND.”

McCloskey[®]
INTERNATIONAL

NORTHERN IRELAND (HQ)

McCloskey International Ltd.
47 Moor Road,
Coalisland, Co. Tyrone,
Dungannon
BT71 4QB
Northern Ireland

CANADA

McCloskey International Ltd.
1 McCloskey Road
Keene, Ontario
K9J 0G
Canada

Authorized Distributor

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