



BELT SCRAPERS CATALOG 2008



PT. AUSTRALIAN BELT SCRAPER INDONESIA

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FACTORS THAT INFLUENCE BELT CLEANING EFFICIENCY

INFLUENCING FACTORS

The efficiency of any Belt Cleaning System will be affected by a number of factors and they are listed below:

- Correct Specification of Belt Cleaners
- The Use of Water & Its Proper Regulation
- Belt Specification, Condition & Type of Join
- Correct Installation
- Belt Stabilisation
- Belt Tension
- Regular Inspection & Maintenance Programmes



Mixture of ABS products:
"V" ploughs, dove tail skirting system, primary and secondary scraper blades

The correct specification of the Belt Cleaning System is essential when planning any belt cleaning application. The required parameters for the level of carry back required will decide the type and number of cleaners required to achieve these goals.

The use of water as an aid in belt cleaning will improve expected dry carry back levels by 40-50%. Proper regulation is an issue as excess moisture content in coal may cause Problems for the end user e.g. Coal fired power stations refusing coal supplied due to a too high moisture percentage in the coal.

The Belt Spec and condition will determine the level of effectiveness the cleaning system will be able to achieve. Also the type of join will dictate the style of tip and end assembly arrangement to be used.

Proper Installation instructions should be followed to ensure the correct operation of any new cleaner installation. After any service or new installation, the conveyor should be test run to check correct operation and ensure the cleaners do not vibrate and are adjusted to the correct tension. This is a priority and must be carried out immediately after installation or at the earliest opportunity a Service Technician must inspect to check the efficiency and security of the mounting brackets and tensioning systems.

Pressure rollers must be used where required to hold the belt flat and allow the cleaner tips to remain in constant contact at all times. This will eliminate belt flap that will set up a vibration frequency causing cleaner inefficiency.

A plan of regular inspection and maintenance will ensure the cleaners work to their optimum level and any required maintenance will be observed and carried out preventatively rather than unplanned and in response to a breakdown situation.



Improper Belt Cleaning System

FUNCTION OF BELT CLEANERS

The function of an efficient belt cleaning system is to remove the fugitive material which remains on the return strand of the belt and to assist in spillage control by returning that material to the main material flow within the confines of the discharge chute.

The proper selection, installation, commissioning and maintenance of the cleaning system will ensure that individual cleaners work to their best possible efficiency in reducing site clean up and maintenance costs while improving the customers profitability and extending belt life.

By reducing this fugitive material the following benefits are provided to customer:

- Reduced lost product.
- Reduction in dust and other environmentally unacceptable operating practices.
- Reduced safety hazard from build up on gantries, walkways and under conveyors.
- Fewer customer resources used in clean up.
- Increased life of conveyor belt.
- Increased life of associated conveyor components.
- Eliminate belt tracking problems that are due to the build up of material on roller and pulley shells.
- Reduction in the corrosion of conveyor structural components from built up materials.



Installation of Belt Cleaning System

SYSTEMS APPROACH

Belt cleaners work most efficiently as a system. The make up of each system will vary from job to job and depending on the clients belt cleaning requirements, chute design, material types, tonnage's, belt speeds, the presence of mechanical fasteners and the quality of the belt top cover.

There may be a number of different types of belt cleaners used in a system. Generally they will consist of a Primary Cleaner, a Secondary Cleaner and for High Performance Belt Cleaning, a third cleaner will be installed in the Tertiary position. In extreme cases of high carry back a fourth cleaner can be used to lower carry back levels.

The reason that a systems approach is best entirely related to performance and belt life. For instance, overloading a single belt cleaner will result in a higher rate of maintenance and a rapid reduction in belt cover life whereas a multiple cleaner system that employs water will reduce belt cover wear, cleaner component wear and contribute substantially to dust suppression.



Belt cleaning system of Primary scraper mounted on self adjusting counterweight, Secondary cleaner on self adjusting counterweight, tertiary in-line air mounted system


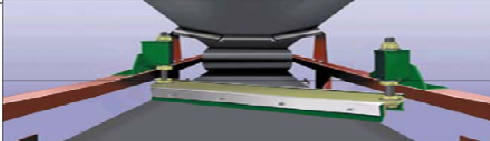
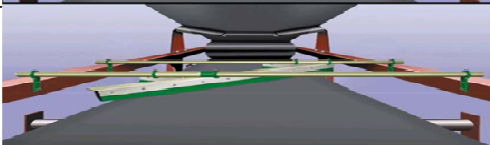
RETURN BELT PLOUGHS

OVERVIEW

The ploughs are designed to clean the inside of a conveyor belt on its return trip and to remove any large lumps that can potentially damage the belt or tail pulley lagging if allowed to travel through this area.

ABS BELT PLOUGHS

ABS Plough range is as follows:

VEE Plough	
Bi Directional Plough	
Single Side Discharge	

CAUTION

- To avoid belt damage, ABS Ploughs have been designed to be fitted in a trailing position.
- Fine-tuning of the plough is possible through the use of the adjustment turnbuckle fitted to the nose of the plough.
- The ABS Vee and BI Directional Ploughs are designed to be self-actuating, so that when wear occurs they automatically adjust themselves to the belt. The ploughs are used to prevent the carriage of material on the return strand, which can cause damage to the pulley lagging and belt.
- The Ploughs are set up on the return side of the belt at tail and take up pulleys.

INSTALLATION

It is important that the ABS Plough be correctly positioned, ideally on a flat surface as close as practicable to the tail end or take up area of the conveyor. The apex of the plough should be located 150 mm behind a flat return roller to achieve optimum cleaning performance.

1. Loosely assemble plough connecting linkage arms to the plough body.
2. Place the plough on the belt and ensure there is enough clearance. Position the mounting brackets in either a vertical or horizontal position, ensuring that the centre line of the pole is between 190-350 mm above the return side of the belt.
3. Mark and drill the holes to correspond with the mounting brackets and attach with M12 bolts.
4. Centralize the ABS Plough in the correct position to the belt, located by locking shaft collars into position.
5. Adjust the turnbuckle so that the plough sits evenly across the belt.
6. Test run belt to ensure the correct operation of the unit.

ABS PRIMARY BELT CLEANERS

- The function of the Primary Cleaner is to 'Scalp' the belt of the course carry back materials which would otherwise overload the secondary and tertiary cleaners.
- In terms of volume, the primary cleaner is responsible for the removal of up to 75% of the total carry back and is an essential part of the system. It has the added advantage of placing the carry back directly into the flow of material.
- However, the course materials generally do not cause a problem of carry back. This is normally a function of the fine and sticky particles that are in the mix of material.
- The fine and sticky particles are removed by the secondary and tertiary cleaners.



3 different tip arrangements on ABS primary scraper blades, made to suit different customers needs. Tungsten tipped and differing duro.



Primary scraper blade with tungsten tip.



View of primary scraper, mounted on "C" section.



Primary Scraper Arrangement, Set with Counterweight self adjusting system.



Primary Scraper Blade with 80 duro hardness. This has ceramic infill to increase wear with severely abrasive materials.

SECONDARY BELT CLEANER

OVERVIEW

- The function of the Secondary Cleaner is to remove fine and sticky materials from the belt after the Primary cleaner has removed the course carry back.
- In terms of volume removed, the Secondary cleaner does not appear to be as effective as The Primary cleaner. However, this is not the true case when looking at the mess around a Conveyor or the build up on return rollers.
- In fact, it is the fine and stick material that is responsible for the mess as it is particularly hard to remove. In many cases, it is necessary to apply water to the belt in front of the Secondary cleaner to achieve the required end result.



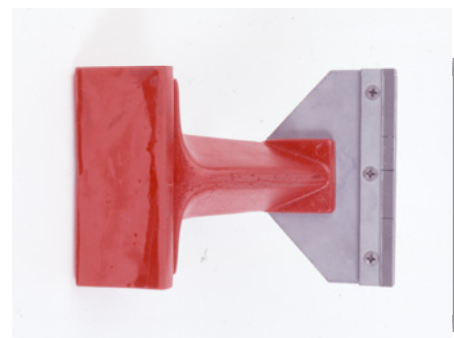
Secondary scraper blade with steel insert, suitable for counterweight self adjusting system.



Pressure gauge to monitor pressure on inline secondary scraper on air mounted system.



Reversible Secondary Scraper blade on spring tension. It can also be fitted with air tension system.



Secondary scraper blade with Tungsten tip insert

BELT SCRAPERS



A. CARRY BACK SPECIALIST

Description:

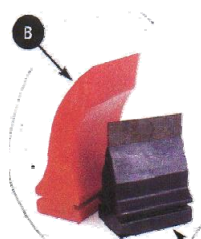
POLYURETHANE SCRAPER BLADE (PRIMARY LARGE)

Code:

P— ABS — 2001

Price:

\$



B. EQUALIZER

Description:

POLYURETHANE SCRAPER BLADE (PRIMARY SMALL)

Code:

P— ABS — 2002

Price:

\$



C. THE ELIMINATOR SERIES 1

Description:

**REVERSIBLE POLYURETHANE BASE WITH TUNGSTEN STEEL INSERT
(SPRING TENSIONED) (100mm)**

Code:

P— ABS — 2003

Price:

\$



D. HARD TIP (100)

Description:

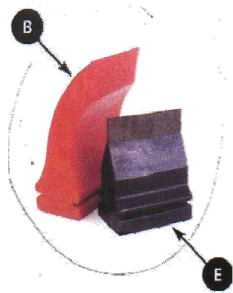
TUNGSTEN STEEL REPLACEMENT TIP (100mm) FOR THE ELIMINATOR SERIES 1

Code:

P— ABS — 2004

Price:

\$



E. THE ELIMINATOR SERIES 2

Description:

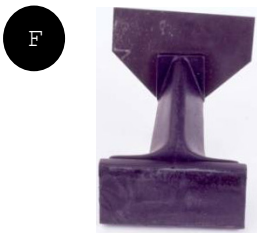
REVERSIBLE POLYURETHANE BASE WITH STEEL BLADE INSERT ONLY (SPRING TENSIONED)

Code:

P— ABS — 2005

Price:

\$



F. QUARRY MASTA SERIES 1

Description:

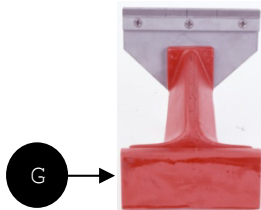
POLY – BASE STEEL INSERTED BLADE ONE DIRECTION ONLY (SPRING TENSIONED)

Code:

P— ABS — 2006

Price:

\$



G. QUARRY MASTA SERIES 2

Description:

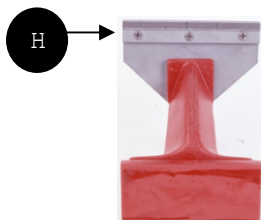
POLY– BASE TUNGSTEN TIPPED STEEL INSERT ONE DIRECTION ONLY (COUNTER WEIGHTED)

Code:

P— ABS — 2007

Price:

\$



H. HARD TIP (160)

Description:

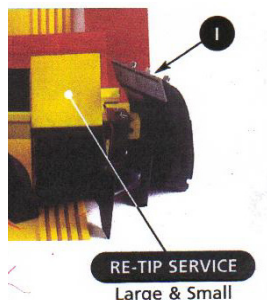
TUNGSTEN STEEL REPLACEMENT TIP (160 mm)

Code:

P— ABS — 2008

Price:

\$



I. CARRY BACK SPECIALIST (TUNGSTEN 165)

Description:

POLYURETHANE SCRAPER BLADE (PRIMARY LARGE) WITH TUNGSTEN STEEL BLADE (165 mm) INTEGRALLY MOULDED

Code:

P- ABS - 2009

Price:

\$



J. EQUALIZER (TUNGSTEN 120)

Description:

POLYURETHANE SCRAPER BLADE (PRIMARI SMALL) WITH TUNGSTEN STEEL BLADE (120 mm) INTEGRALLY MOULDED

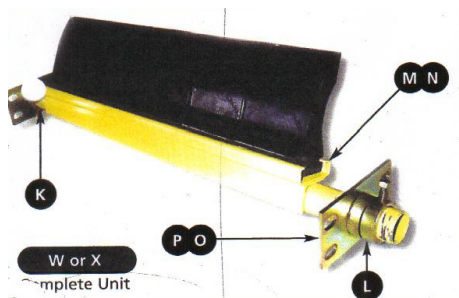
Code:

P- ABS - 2010

Price:

\$

PER METRE COST FOR ALL MAINFRAMES (50) (75) EITHER SQUARE OR ROUND



K. MAINFRAME (75)

Description:

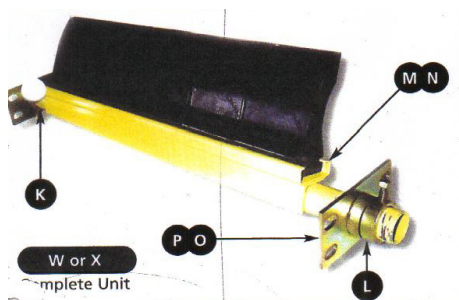
S/S MAINFRAME (75mm) FOR ALL PRIMARY & SECONDARY SCRAPER BLADE ASSEMBLIES RATE PER METRE (75)

Code:

P- ABS - 2011

Price per metre:

\$



K. MAINFRAME (50)

Description:

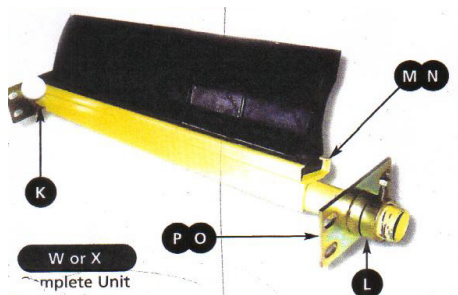
**RATE PER METRE (50) STANDARD SIZE WIDTHS:
600 mm, 800mm, 900mm, 1050mm, 1200mm, 1400mm,
1500mm, 1600mm, 1800mm, 2000mm, 2200mm, 2400mm.**

Code:

P- ABS - 2012

Price per metre:

\$



L. LOCKING COLLAR (2 PER MAINFRAME)

Description:

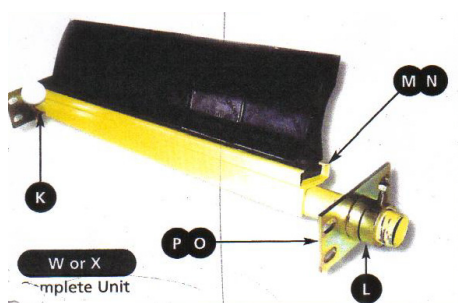
S/S LOCKING COLLAR WITH SQUARE DRIVE M12 BOLT

Code:

P— ABS — 2013

Price:

\$



M. "C" TRACK 3MM S/S SECTION UP TO 1.2 METRES 50/50

Description:

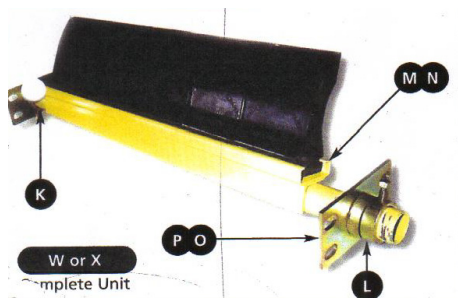
3mm "C" TRACK FOR SCRAPER BLADES (PRIMARY & SECONDARY) UP TO 1.2 METRES FOR 50 mm DIAMETER MAINFRAMES DEPENDING ON APPLICATION

Code:

P— ABS — 2014

Price per metre:

\$



N. "C" TRACK 4 MM S/S SECTION FOR LARGE BLADES

Description:

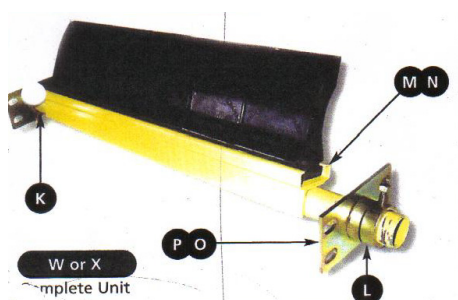
4mm "C" TRACK FOR SCRAPER BLADES (PRIMARY ONLY) FOR 75 mm DIAMETER MAINFRAMES DEPENDING ON APPLICATION

Code:

P— ABS — 2015

Price per metre:

\$



O. S/S MOUNTING BRACKET (50) (2 REQUIRED)

Description:

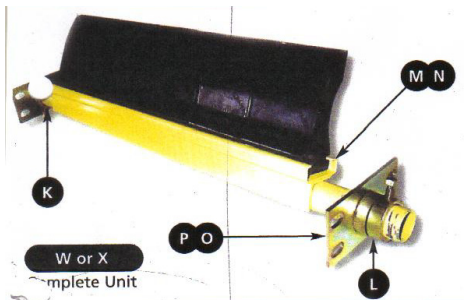
S/S MOUNTING BRACKET 50 mm DIAMETER

Code:

P— ABS — 2016

Price:

\$



P. S/S MOUNTING BRACKET (75) (2 REQUIRED)

Description:

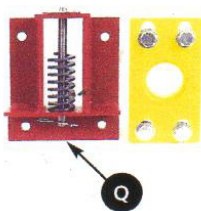
S/S MOUNTING BRACKET (75 mm DIAMETER)

Code:

P— ABS — 2017

Price:

\$



Q. SPRING TENSION ASSEMBLY SECONDARY SCRAPERS ONLY (2 REQUIRED)

Description:

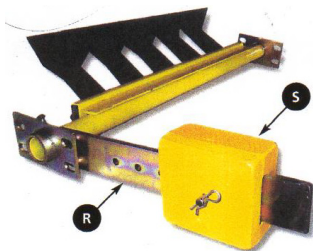
S/S SPRING TENSION ASSEMBLY (SECONDARY SCRAPERS ONLY)
50mm X 50mm #

Code:

P— ABS — 2018

Price:

\$



R. COUNTER WEIGHT ARM ONLY FOR PRIMARY & SECONDARY SCRAPERS

Description:

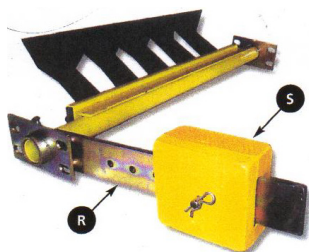
STEEL CONSTRUCTION COUNTER WEIGHT ARM FOR 50 & 75 mm DIAMETER MAINFRAMES

Code:

P— ABS — 2019

Price:

\$



S. 11 Kg. CAST IRON WEIGHT

Description:

CAST IRON WEIGHT POWDER—COATED WITH SECURING PIN & “R” CLIPS

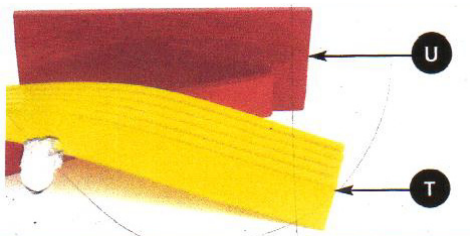
Code:

P— ABS — 2020

Price:

\$

T. POLY RIB



Description:

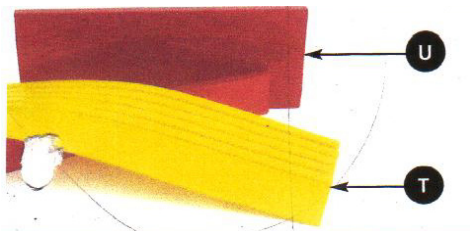
POLYURETHANE SKIRTING (5 RIBS)

Code:

P— ABS — 2021

Price per metre:

\$



U. "V" PLOUGH SKIRTING

Description:

POLYURETHANE "V" PLOUGH SKIRTING

Code:

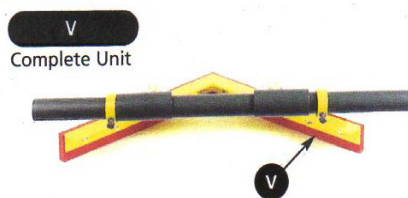
P— ABS — 2022

Price per metre:

\$

COMPLETE BELT SCRAPER ASSEMBLIES

V. MASTA "V" PLOUGH COMPLETE ASSEMBLY



Description:

RETURN "V" PLOUGH BELT CLEANER COMPLETE ASSEMBLY FOR STANDARD BELT WIDTHS:

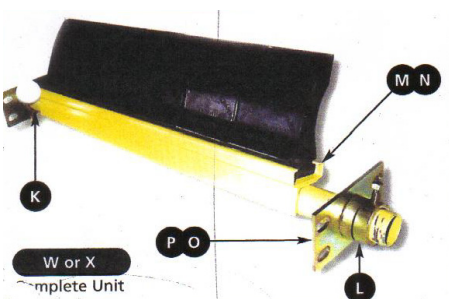
600mm, 800mm, 900mm, 1050mm, 1200mm, 1400mm, 1500mm, 1600mm, 1800mm, 2000mm, 2200mm, 2400mm.

Code:

P— ABS — 2023

Price per metre:

\$



W. EQUALIZER (PRIMARY (50) COMPLETE SMALL)

Description:

S/S COUNTERWEIGHT SELF TENSIONING COMPLETE BELT SCRAPER ASSEMBLY (50 mm)

Code:

P— ABS — 2024 (600 mm)

Code:

P— ABS — 2025 (750 mm)

Price:

\$

Price:

\$

Code:
P— ABS — 2026 (800 mm)

Price:
\$

Code:
P— ABS — 2028 (1050 mm)

Price:
\$

Code:
P— ABS — 2031 (1500 mm)

Price:
\$

Code:
P— ABS — 2033 (1800 mm)

Price:
\$

Code:
P— ABS — 2035 (2200 mm)

Price:
\$

Code:
P— ABS — 2027 (900 mm)

Price:
\$

Code:
P— ABS — 2030 (1400 mm)

Price:
\$

Code:
P— ABS — 2032 (1600 mm)

Price:
\$

Code:
P— ABS — 2034 (2000 mm)

Price:
\$

Code:
P— ABS — 2036 (2400 mm)

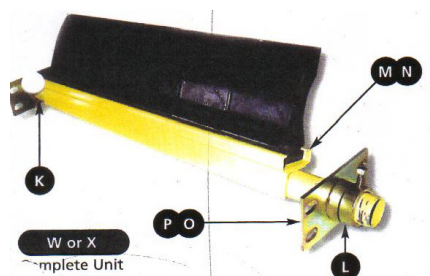
Price:
\$

DON'T “TIP IT” - WHEN YOU CAN RE—TIP IT!

Product	Size	Description	Price
RE— TIP SERVICE	LARGE	RE— TIP WORN POLYURETHANE SCRAPERS UP TO 3 TIMES	\$
	SMALL		\$

COMPLETE BELT SCRAPER ASSEMBLIES

X. CARRY BACK SPECIALIST (PRIMARY) (75)



Description:

S/S COUNTERWEIGHT SELF TENSIONING COMPLETE BELT SCRAPER ASSEMBLY (75 mm)

Code:

P- ABS - 2037 (1200 mm)

Price:

\$

Code:

P- ABS - 2038 (1400 mm)

Price:

\$

Code:

P- ABS - 2039 (1500 mm)

Price:

\$

Code:

P- ABS - 2040 (1600 mm)

Price:

\$

Code:

P- ABS - 2041 (1800 mm)

Price:

\$

Code:

P- ABS - 2042 (2000 mm)

Price:

\$

Code:

P- ABS - 2043 (2200 mm)

Price:

\$

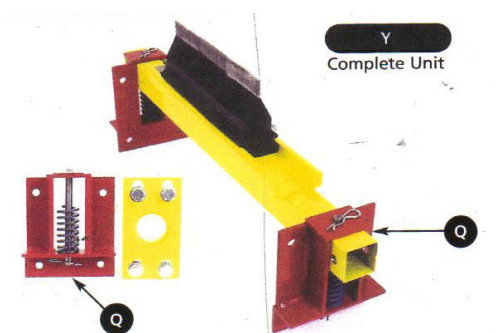
Code:

P- ABS - 2044 (2400 mm)

Price:

\$

Y. THE ELIMINATOR SERIES (2)



Description:

S/S SECONDARY SCRAPER (50mm X 50mm) SPRING TENSIONED

Code:

P- ABS - 2045 (600 mm)

Price:

\$

Code:

P- ABS - 2046 (750 mm)

Price:

\$

Code:

P- ABS - 2047 (800 mm)

Price:

\$

Code:

P- ABS - 2048 (900 mm)

Price:

\$

Code:
P— ABS — 2049 (1050 mm)
Price:
\$

Code:
P— ABS — 2050 (1200 mm)
Price:
\$

Code:
P— ABS — 2051 (1400 mm)
Price:
\$

Code:
P— ABS — 2052 (1500 mm)
Price:
\$

Code:
P— ABS — 2053 (1600 mm)
Price:
\$

Code:
P— ABS — 2054 (1800 mm)
Price:
\$

Code:
P— ABS — 2055 (2000 mm)
Price:
\$

Code:
P— ABS — 2056 (2200 mm)
Price:
\$

Code:
P— ABS — 2057 (2400 mm)
Price:
\$

Z. QUARRY MASTA SERIES 1

Description:

**S/S COUNTERWEIGHTED COMPLETE SECONDARY
STEEL INSERTED SCRAPER BLADE ASSEMBLY**

Z
Complete Unit



Code:
P— ABS — 2058 (600 mm)
Price:
\$

Code:
P— ABS — 2059 (750 mm)
Price:
\$

Code:
P— ABS — 2060 (800 mm)
Price:
\$

Code:
P— ABS — 2061 (900 mm)
Price:
\$

Code:
P— ABS — 2062 (1050 mm)
Price:
\$

Code:
P— ABS — 2063 (1200 mm)
Price:
\$

Code:
P— ABS — 2064 (1400 mm)
Price:
\$

Code:
P— ABS — 2065 (1500 mm)
Price:
\$

Code:
P— ABS — 2066 (1600 mm)
Price:
\$

Code:
P— ABS — 2067 (1800 mm)
Price:
\$

Code:
P— ABS — 2068 (2000 mm)
Price:
\$

Code:
P— ABS — 2069 (2200 mm)
Price:
\$

Code:
P— ABS — 2070 (2400 mm)
Price:
\$