

Lip System Ranges



Cast Lip

Our Eclipse cast lip and Ground Engaging Tool (GET) system can lower the TCO for your cast lip machine fleet. They can be installed into Bradken's range of mining buckets or can be custom-manufactured to suit your existing OEM bucket fleet.



Plate Lip

Our plate lips are designed and manufactured to fit customers' existing OEM buckets as well as the Bradken bucket designs. Bradken's GET plate lip range includes; Zenith and Twistlok. The Bradken plate lip range delivers improved safety and efficiency, extended wear life, and reduced maintenance downtime.





Mining OEM Product Range

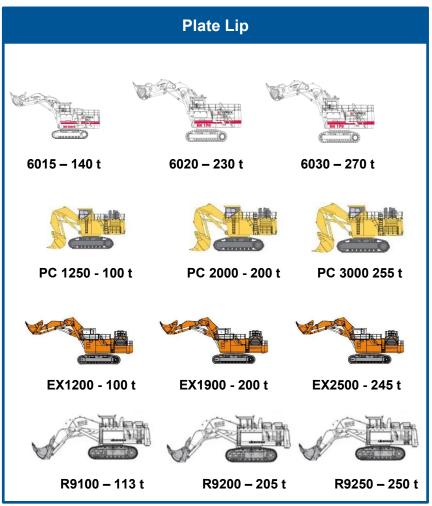
HEX

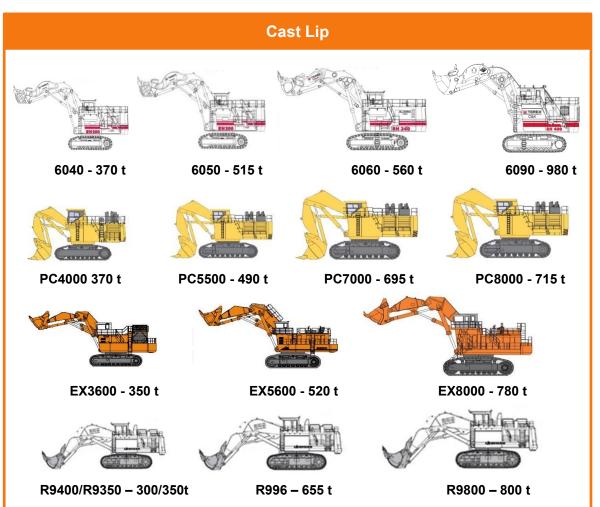
CAT

KOMATSU

HITACHI

LIEBHERR







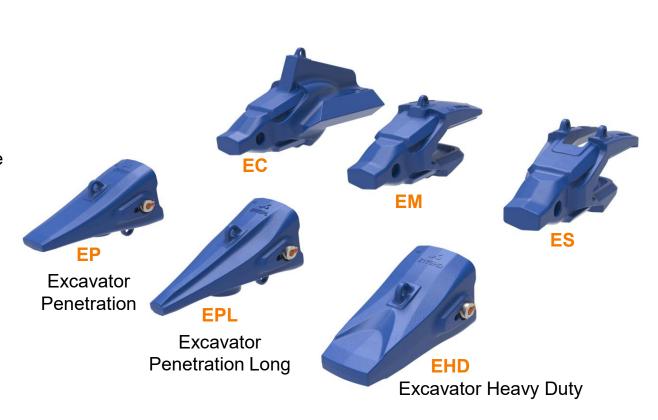






Bradken's Zenith® Plate Lip ground engaging tools are engineered to minimize dig energy required for penetration and extend wear life of points.

- Bradken Zenith® Adapters are available in three options depending on machine class or dig severity.
- Bradken Zenith® Points are available in three styles to suit multiple applications.
- Compatible with Bradken's Defender™ shroud range.



Compatible with existing plate lips and lip shrouds





Our unique design eliminates through pins and enables point rotation, plus points are secured with locking pins which are engineered to perform in all climates.



Safer tooth removal

- Safer install and removal with the hammer-free pin and hammer-free removal tools.
- Point locking pin supplied preinstalled reducing install effort.
- Horizontal pin orientation allows improved ergonomics during removal process.



Reduced Maintenance and Downtime

- Efficient change-out time at two minutes per point with the hammer-free pin and removal tools.
- Single upper and lower wear caps extend adapter life.
- Flat surfaces allow simple nose maintenance when required.
- Pin design maintains reliability in all mining applications from extreme heat to extreme cold.



Reduced Total Cost of Ownership (TCO)

- New streamlined design minimises dig energy required.
- Unique reversible hexagonal nose maximises point wear material utilisation.
- Locking pins come preinstalled in points reducing inventory order quantities.





Our experienced G.E.T. team focuses on design enhancements that deliver tangible benefits for our customers.







Faster change-out



- Reduced tooth change-out time to approximately two minutes per point with our hammer-free pin and removal tools
- Tooth change requires one lock to be removed
- Locking pins come pre-fitted in points
- Compatible with Defender[™] lip shrouds





Easy conversion to Bradken Zenith®

- GET conversion of existing lip kit
- Complete new lip fitted
- Order a new Bradken bucket fitted with Zenith
- Specify Zenith® to be fitted to your next bucket order









Cast Lip Products Ground Engaging Tools

- Cast Lips: are designed and manufactured to fit customers' existing OEM buckets as well as new Bradken bucket designs. They provide the structural strength and fatigue properties required for bucket integrity and a base for carrying the GET
- Point: Provides the primary digging penetration and fits to the mid-adapter nose by using the Eclipse® Point locking pin.
- Mid Adapter: fit onto Bradken, and some competitor cast lip noses to provides secondary digging penetration and will last multiple points. Adapters are available in a standard, heavyduty and HFS (Loader) options.
- **Lip Shroud:** Designed to protect the structural lip component and to meet the toughest digging conditions. Bradken Cast lip shrouds have a unique concave sidewall which provides maximum protection to the Penetrator and Eclipse® cast lips.
- Wear caps: are available on the top of the center nose stations and protects the structural lip component, increasing both the campaign and fatigue life of the lip without causing extra drag.
- Hammer free locking pins: provide improved safety when installing and removing shrouds, adapters & points.







Cast Lip Products Bradken Cast lips

Refer to R00036 - "Specification manual - Bradken Eclipse® Cast Lips" for detailed descriptions



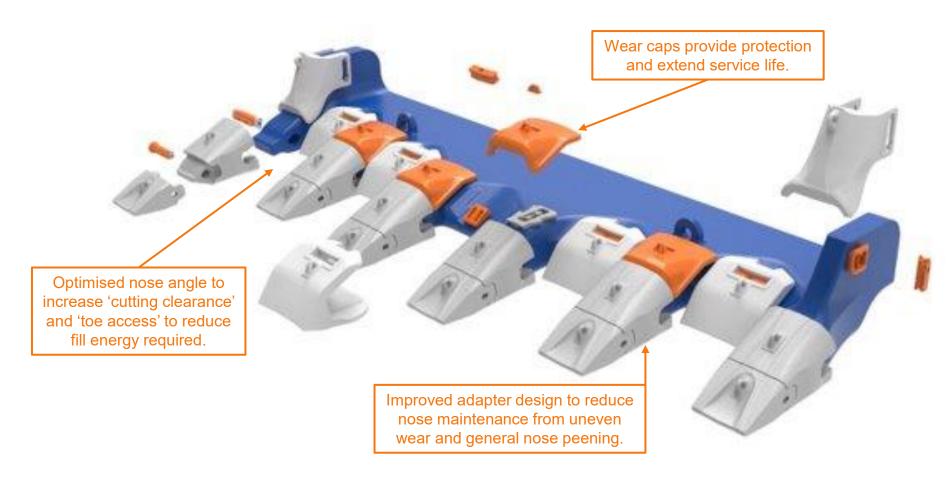
Eclipse®

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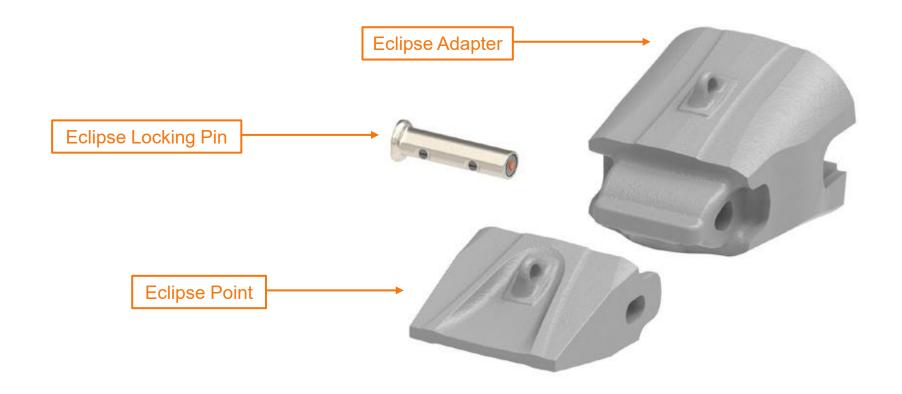
Our GET system and streamline lip reduces the effort required of the operator to fill the bucket, helping achieve the target payloads and cycle times consistently.







Bradken's Eclipse range is an evolution of our mining class GET product. This system is designed to fit onto Bradken cast lips and utilizes Bradken designed and manufactured locking pins that are sealed to allow consistent effort during GET changes in all environments.







Eclipse® Cast Lip Solution

Most streamlined cast lip on the market without compromising strength or durability.



Simulations across a range of machines indicate up to a 3% reduction in fill power achieved.



Up to 1 tonne mass reduction.

*subject to cast lip size



Predicted increase in service life of up to 50%.



Improved bucket fill performance and cycle times.



Improved design to extend maintenance intervals.



Extensive range of GET options to suit your operational needs





Cast Lip Products – Eclipse® Lip Key Design Features

TCO Impact	Critical Features	End User Benefit
•	Mechanical wear protection profiled to minimize surface area.	Reduces power requirement.
Productivity	Lip designed to minimize "non-structural" material. ●	Reduces total assembly mass.
	12 deg Nose angle reduces power and cuts maximum clearance for the underside of lip.	Minimises power required and lip structural wear.





Eclipse® Versatility

Bradken's range of Eclipse adapters fit onto all Bradken noses and are available in three options. Adapters are available in standard or heavy-duty options with two choices for point sizes (12 or 22) depending on your machine class or dig severity. The Bradken Solid tooth options are also available to provide a complete GET solution no matter what your application or maintenance strategy is.







Cast Lip Products Eclipse® Solid Point Styles



NOTE: Not all styles are available in all series (sizes) – Refer to R00032 - "Specification manual – Eclipse® and Penetrator"







PLB











Eclipse® Point Styles

