



CWS INDUSTRIES (MFG) CORP.

L.E.A.P.

Large Excavator Attachment Program



## L.E.A.P. - Buckets

CWS Industries has been manufacturing buckets and other mining attachments for over 45 years. The development of L.E.A.P. - Large Excavator Attachment Program is our commitment to helping our customers meet the new challenges of productive and efficient mining. CWS L.E.A.P. buckets cover a full range of hydraulic shovels from 120 ton to 800 ton machines.

The L.E.A.P. buckets are designed and manufactured to your machine specifications and to meet the needs of your specific mining applications. The buckets include:

- Custom Bucket D signs
- FEA Analysis
- Application Specific GET (Ground Engaging Tools)
- Specialized Wear Protection
- Strict Quality Control
- and more . . .

L.E.A.P. has many applications including:

- Coal
- Muskeg
- Rock
- Oil Sand
- Overburden
- HD General Purpose
- Loose Material

**Big Demands, Smart Solutions**

[www.cwsindustries.com](http://www.cwsindustries.com)

Job specific design available on request.

Specifications and design are subject to change without notice.

## L.E.A.P. Bucket Applications:

### HD Bucket

General to moderate digging applications  
 Maintains factory pin to lip distance  
 Semi spade nose lip plate  
 Outside cheek plate  
 G.E.T. Package: Teeth and Adapters, Lip Shrouds and Wing Shrouds

### Rock Bucket (impact Loading)

Severe digging applications  
 Maintains factory pin to lip distance  
 Heavier construction and HiTuf material (lip plate and side edges)  
 Semi spade nose lip plate  
 QT 450-500 outside and inside cheek plates  
 QT 450-500 roll plate liner  
 G.E.T. package: Teeth and Adapters, Lip Shrouds and Wing Shrouds

### Overburden Bucket

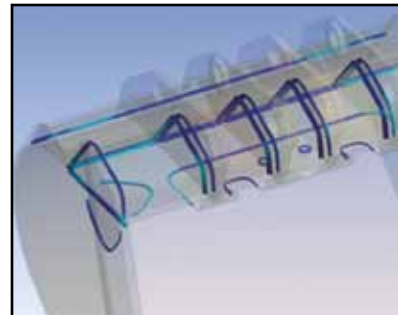
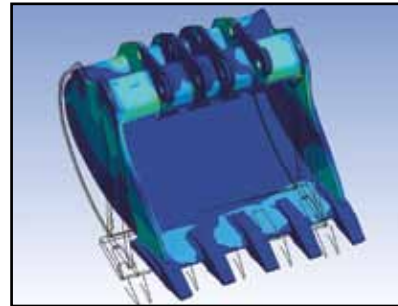
Abrasive digging applications  
 Maintains factory pin to lip distance  
 Semi spade nose lip plate  
 Chromium overlay inside and outside cheek plates  
 Chromium overlay roll plate liner and outer wear plate  
 G.E.T. Package: Teeth and Adapters, Lip Shrouds and Wing Shrouds (T.L.C.)

### Oil Sand Bucket

Extremely abrasive digging applications  
 Maintains factory pin to lip distance  
 Semi spade nose lip plate  
 Chromium overlay outside and inside cheek plates  
 Chromium overlay roll plate liner and outer wear plate  
 G.E.T. Package: Teeth and Adapters, Lip Shrouds and Wing Shrouds (T.L.C.)

### Muskeg Bucket

Digging application: frozen muskeg (Dec to April)  
 Increased bucket capacity of approx 25% over HD Bucket  
 Increase bucket width and pin to tip distance  
 Open bucket profile to reduce material haul-back  
 Semi spade nose lip plate  
 AR 450 cheek plates, roll plate liner and outer wear plate  
 G.E.T. Package: Teeth and Adapters, Lip Shrouds and Wing Shrouds (T.L.C.)



### Bucket Materials

- Side impact analysis of bucket
- Analysis of various material composition to best suit the application

### Welding / Inspection

- Analysis on welds and weld joints
- QC inspection (UT test)

Machine Class:	HE 2000	HE 2500	HE 4000	HE 5500	HE 8000
<b>Operating Weight (lbs)</b>	423,000 - 450,000	526,000 - 584,000	767,000 - 875,000	1,140,000 - 1,210,000	1,540,1,788,000
<b>Bkt. SAE Digging Force (lbs)</b>	138,000 - 141,000	169,000 - 191,000	209,000 - 260,000	296,000 - 326,000	450,000
<b>Stick SAE Digging Force (ft-in)</b>	129,000 - 137,000	167,000 - 180,000	207,000 -236,000	2276,000 - 290,250	404,000
<b>Typical Bucket Capacities:</b>					
<b>Capacity (cu yd)</b>	15	20	28	38	50
<b>Width (ft -in)</b>	10' - 0"	11' - 0"	12' - 8"	14' - 0"	15' - 0"
<b>Height (ft-in)</b>	8' - 9"	10' - 1"	11' - 6"	12' - 2"	-
<b>Weight (lbs)</b>	31,000	38,000	56,000	70,000	101,000

Specifications subject to change without notice



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### CWS INDUSTRIES (MFG) CORP.

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