



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 designs
- 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

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

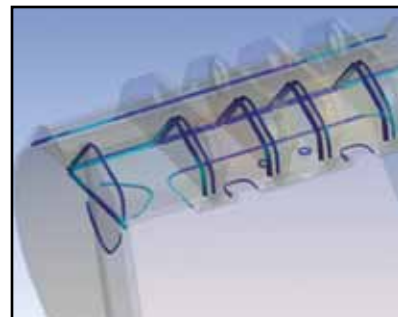
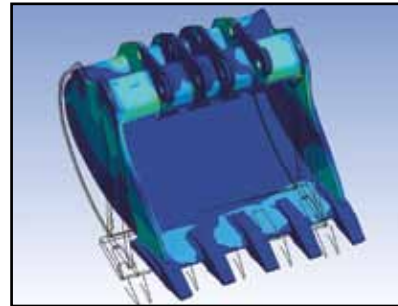
Abrasive digging applications
 Maintains factory pin to lip distance
 Semi spade nose lip plate
 Chromium overlay inside and outside cheek plates
 Chromium overlay roll plate liner and outer wear plate
 G.E.T. Package: Teeth and Adapters, Lip Shrouds and Wing Shrouds (T.L.C.)

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

Specifications subject to change without notice



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