EIK®

Equipment & Attachments Specialist

WE BUILD WITH

PRIDE

YOU USE WITH

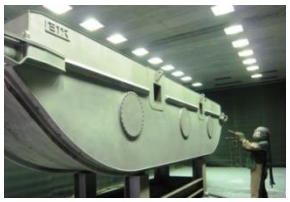
TRUST

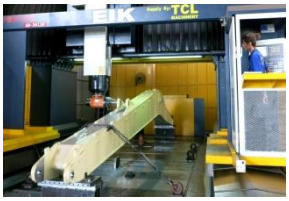
Your Trusted Equipment and Attachments Specialist

EIK®, a recognized name that specializes in designing and building high performance amphibious excavators and quality attachments for various makes and models of earth moving equipment. We gain customers' trust with our non compromising attitude, using only high quality materials and components, ensuring that a consistently high level of workmanship is achieved in every piece of attachment produced. Our customers deserve unparalleled investment/performance ratio for choosing our products, hence our company motto:

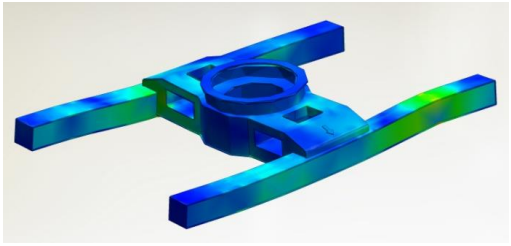
"We Build With Pride, You Use With Trust"

The ISO 9001:2008 & 14001:2004 certified facility is fully equipped with the latest and greatest equipment, including state-of-art robotic welding machine for booms and buckets. Our goal is to maintain full in-house capability from the product design stage to the final finished product. We pride ourselves in delivering a high level of workmanship and desirable solutions for our customers.





Products' design are accomplished by utilizing latest Computer Aided Design (CAD) software, simulated via advance Finite Element Analysis (FEA) engineering software tools, ensuring optimum design integrity. All new products prior launching have to meet our internal **DEP** criteria:



Designed for Functionality.
Engineered for Reliability.
Priced for high ROI (Return on Investment) for customer.

EIK Engineering is committed to be the leader in innovation and quality manufacturing to meet all your heavy equipment attachment needs. With our many years of experience in attachment design and manufacturing, we believe we are in the best position to produce functionally superior and practical solutions that our customers desire, and at the best value. We strive to be your supplier of choice by offering the best in class quality, and customer service.

EIK Engineering is the winner of the 2012 Asia Pacific Honesty Enterprise and Honesty Product awards. This prestigious recognition and distinguished achievement is the best testimony and an unequivocal positive demonstration of our customers' confidence and trust in doing business with us. We are here to be your long term business partner, and are confident we can provide solutions that meet and exceed your expectations at any given price point.

3-Piece Super Long Front

Trusted

Although a 3-piece super long front is no doubt more complex in every respect and demands a much higher level of engineering know-how, it triumphs over a traditional 2-piece boom in terms of articulation and versatility. Its advantages increase proportionally as the demand on the front end reach increases. There is always an optimum point where operability, efficiency and reliability intersect that yield the best productivity for your application and ROI (Return on Investment).

The front attachment on a 3-piece long front can access areas where a 2-piece long front is unable to reach due to its limitations on articulation; in short, a 2-piece long front has more 'blind spots'. To access these 'blind spots', the machine has to be constantly moved and repositioned, whereas a 3-piece boom configuration reduces or even eliminates the need for frequent maneuvering of the machine, and therefore improves the productivity and increases fuel economy by a substantial margin.

As the machine size increases, a 3-piece boom offers long term economic value in overcoming challenges in terms of logistics, installation and site accessibility as compared to a bulky and cumbersome 2-piece boom configuration. In addition, the long term cost saving in both land and sea transportation far outweighs the upfront investment of a 3-piece boom.

Applications:

- Ideal for river and sea dredging applications on either land or barge.
- Construction of breakwater structures, replacing typical practice where a crane is used.
- Heavy demolition work where a cutter or pulverizer can be attached.

Features:

- Heavy duty in construction.
- The design is simulated extensively, ensuring design integrity and to detect potential stress and fatigue points.
- Reduces the need for frequent maneouvering of the machine.

3-piece boom package is particularly popular among machines of 120 metric tons (264,000lbs) and larger. We are proud to have delivered multiple units for such machines to highly satisfied customers who demand the ultimate in productivity.

All 3-piece boom packages are uniquely designed. They are highly specialized pieces of boom and arm designed to suit each machine to perform optimally for its intended application.

Each design is simulated extensively, ensuring design integrity and detecting potential stress and fatigue points. The experience of the engineering team is of critical importance in producing a well-engineered and reliable piece of equipment. This is also a key factor in delivering truly satisfying products for the world.

Trusted

Amphibious Excavator

The high performance amphibious excavator is powered by our patented '**multi-synchronous hydraulic motor direct drive**' system, the pivotal technology that positions us at the forefront of amphibious excavator design. The paradigm shift in how modern amphibious machines are being designed has won the hearts of numerous customers, both new and experienced amphibious excavator users in the industry.

An amphibious excavator/marsh buggy is specifically designed to manoeuvre in marshy, swampy area and soft terrain, and it can also float on water as an added safety feature. It is completely self propelled and can virtually access all terrains, and yet requires minimum supporting transportation and hoisting equipment. When fitted with a long reach front, the machine offers an unparalleled package with unmatched productivity for your investment. Greater versatility can be easily attained when used in conjunction with the wide range of attachments we produce. We have in-house expertise in designing customized attachments to tackle unique challenges where traditional off- the-shelf solutions fail to deliver.

Optional Features:

- Supplementary pontoons can be added on each side to enhance stability.
- Spuds for supplementary pontoons overcome buoyancy in deep water, provide additional stability and enhance operability on water up to 4 meters deep.
- Hydraulic extendable pontoon system offer the flexibility of narrow track width when fully retracted, particularly useful during transportation.

Applications:

- Maintenance and cleaning of waterways, lakes, shorelines, ponds, etc.
- Erosion control and prevention.
- Deepening of waterways and river deltas.
- Maintenance and repair of natural environment.
- Flood protection and flood maintenance works.
- Landscape building and protection.
- Accessing difficult strands of water/soft terrain.
- Swamp and wetland construction.
- Road building through wetlands.

Features:

- Patented multi-synchronous hydraulic motor direct drive system.
- 2 bulkheads per pontoon, hermetically sealed.
- Service manholes on each pontoon for easy maintenance and field servicing.
- Heavy duty track chain system, laser trimmed to extreme precision.
- Hardened rollers and bushings for extended operation life.
- Bolt-on sprocket system for perfect track pitch alignment.
- Modular design for easy transportation.

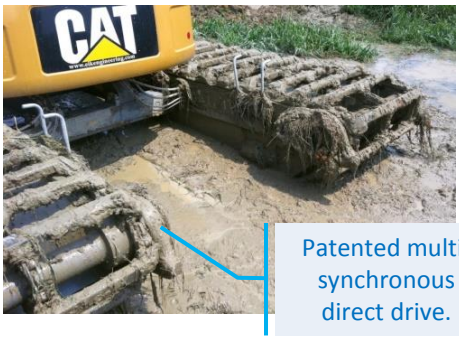
Amphibious Excavator

Trusted

Industry Leading Design and Technology:

- **Drive Motor:** The patented '**multi-synchronous hydraulic motor direct drive**' system provides superior tracking capability, making the machine virtually undeterred in any terrain. Multi-motors also offers the advantage of redundancy during unforeseen circumstances.

  Many users do not realize that swampy areas are not necessary all flat. Mud viscosity varies widely from area to area and country to country. One would fully appreciate the superior design of the multi- synchronous motor powered pontoon system when faced with the most challenging terrains.

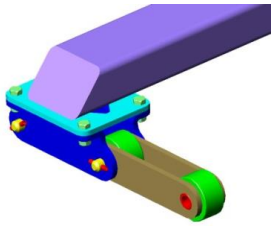


Patented multi-synchronous direct drive.

- **Hydraulic Extendable Pontoons**: An innovative design in the undercarriage system allows each pontoon to retract inward via hydraulic function to achieve a smaller footprint, which is especially useful during land transportation on a low-bed trailer. When extended outwardly, it provides the extra stability needed at work.

  It has 2 bulkheads with 3 watertight compartments that are hermetically sealed. Each compartment comes with a manhole for easy access from the outside for inspection and preventive maintenance.

- **Sprocket, Roller & Bushing:** We unequivocally favoured a non weld-on sprocket design. Sprockets are precisely machined and bolted onto the axial. This concept ensures a perfect alignment of each sprocket across the axial, a critical criterion for the longevity of the track chain. The hardworking sprockets, rollers and bushings (embedded within the rollers) are made from hardened steel which helps in reducing the frequency of replacement and costly downtime. Rollers travel on a strip of wear resistant steel track, preventing it from premature wearing to the pontoons.



- **Track Chain:** One of the most critical components of the undercarriage system, is its entirely in-house design and manufacture, to ensure proper quality control. One of the criterion of a good design is that the track chain has to perform reliably under various working conditions. Special grade steel is used and precisely trimmed to extremely tight tolerance. We insist that this is the only way to maintain the quality we demand and there should be no compromise under any circumstances.

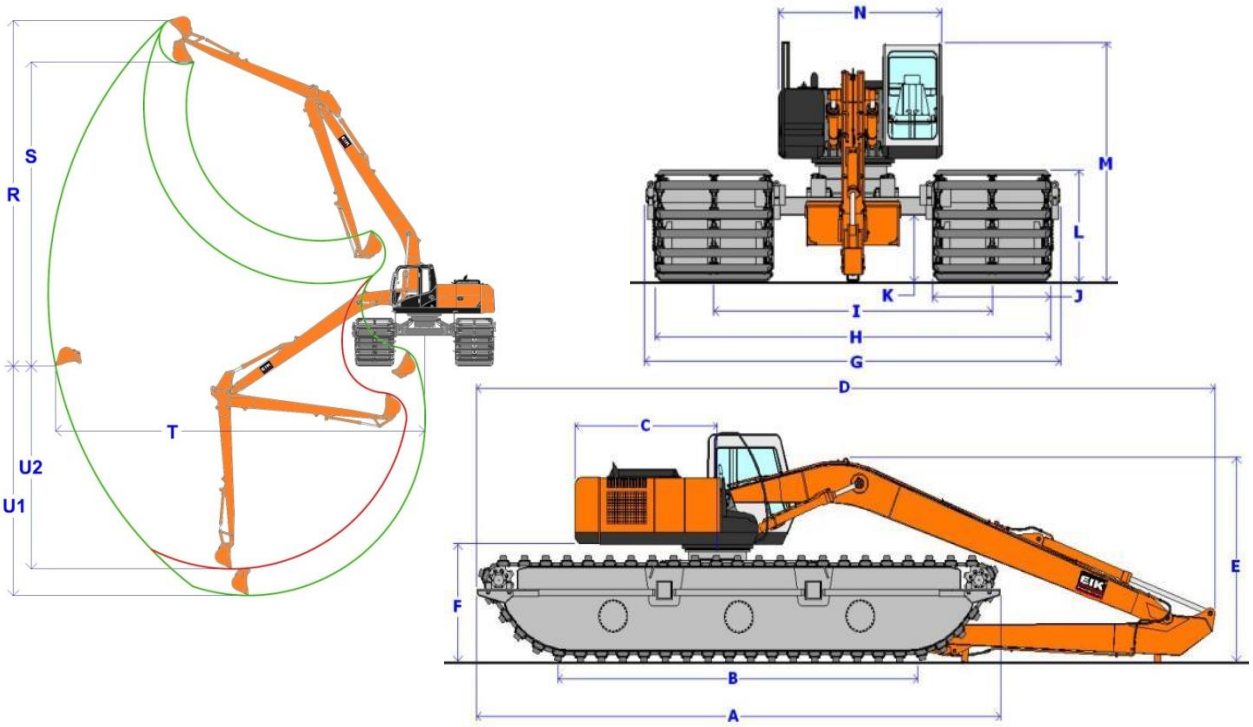
- **Track Shoe:** The track shoes/cleats are steel fabricated and are robotically welded to utmost precision. Steel is favoured over aluminium alloy because of its malleable property. Its malleability makes it less prone to cracking.

  Customer may opt for the polymer track shoes. The grade of polymer we have selected is extremely tough and yet appropriately flexible for its application. It can better retain its shape and is less susceptible to deformation than ferrous based or aluminium alloy. And it is non corrosive.

  The polymer track shoe is fully backward compatible, customers who have invested in our pontoon undercarriage can upgrade easily. Simple and hassle free.

Trusted

Amphibious Excavator



Dim. (m)	Description	Amphibious Undercarriage Models						
		AM80	AM140	AM200	AM250	AM300	AM350	AM400
		For 6 – 8 ton class excavator	For 12 – 14 ton class excavator	For 20 – 22 ton class excavator	For 24 – 27 ton class excavator	For 28 – 30 ton class excavator	For 33 – 36 ton class excavator	For 40 – 45 ton class excavator
A	Max. Track Length	6.28	9.40	9.65	9.65	11.10	11.90	11.77
B	Track Length On Ground	3.17	4.00	4.30	4.30	5.70	6.48	6.50
C	Rear Upper Structure Length	1.50	2.18	2.68	3.00	3.12	3.50	3.65
D	Overall Length	7.10	12.32	13.12	14.40	15.60	16.06	16.50
E	Height of Boom	2.78	2.90	3.23	3.70	4.10	4.00	4.15
F	Counterweight Clearance	1.59	1.75	2.21	2.21	2.35	2.32	2.40
G	Overall Width, min/max (outwardly extendable)	3.51/4.30	4.22/5.32	5.29/ 6.09	5.87/6.67	6.20/7.00	6.27/7.07	6.33/7.33
H	Undercarriage Width, min/max	3.38/4.18	3.95/5.05	5.00 / 5.80	5.58/6.38	5.90/6.70	5.97/6.77	5.97/6.97
I	Track Gauge, min/max	2.06/2.86	2.50/3.60	3.38 / 4.18	3.66/4.46	3.98/4.78	4.02/4.82	4.02/5.02
J	Track Cleat Width	1.30	1.45	1.62	1.92	1.92	1.95	1.95
K	Min. Ground Clearance	1.05	1.07	1.29	1.29	1.15	1.13	1.16
L	Track Height	1.50	1.61	2.05	2.05	2.05	2.05	2.19
M	Overall Cab Height	3.56	3.45	4.14	4.20	4.23	4.25	4.37
N	Upper Structure Overall Width	2.17	2.50	2.71	2.85	2.98	3.00	3.20
R	Max. Cutting Height	9.50	12.50	14.50	16.00	17.10	18.20	19.00
S	Max. Loading Height	8.90	8.50	13.00	14.80	15.80	16.50	17.50
T	Recommended Outreach	9.00	12.00	14.00	15.00	16.00	17.00	18.00
U1	Max. Digging Depth from Front	5.00	7.50	8.50	9.50	10.50	11.50	12.30
U2	Max. Digging Depth from Side	2.95	6.95	7.20	8.00	9.00	10.00	10.80
	Bucket Capacity (m^3)	0.25	0.40	0.50	0.70	0.80	0.90	1.10

*Dimensions are for reference only, it may vary from excavator brands and models.
**For the benefit of continuous product improvement, specifications are subjected to change without prior notice.

Amphibious Excavator

Trusted

Transportation and Installation

The modular system is designed with ease of transportation and installation with minimum field equipment and manpower in mind, yet without compromising speed and safety. A trained 4-man team can fully assemble a complete 20 ton class amphibious excavator in a mere 3 hours or less, only assisted by a crane.

Post Sales Service and Support

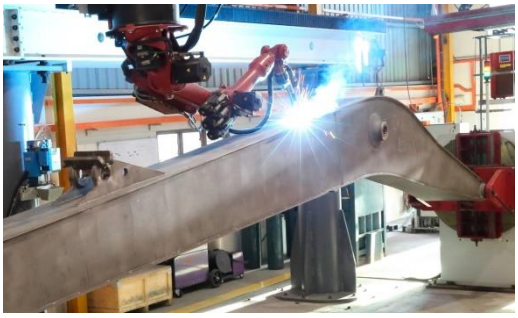
We are a vertically integrated organization and take pride in our fully in-house design and manufacturing capability. Most parts and components are manufactured in-house, thus considerably reducing the risk of components becoming unavailable in years to come. Spare parts are well-stocked and can be delivered at a short notice. The availability of spare parts is guaranteed for at least 10 years.

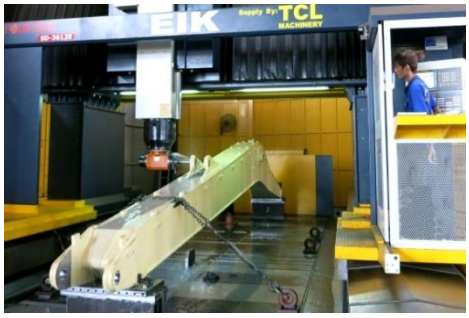
Trusted

Super Long Reach Front

With our expertise in designing and manufacturing long reach booms, you can now maximize your ROI (Return on Investment) on your existing fleet of excavators. Hundreds of customers have realized the value of long reach attachments where standard booms fail to get the necessary job done, saving valuable cost and time, and maximizing their bottom line. We supply long reach front packages for a wide range of excavator models, ranging from 10 -200 metric tons (22,000 - 488,400 lbs) operating weight.

We invest heavily in the latest high-tech equipment to stay abreast with the industry. Our facilities are equipped with sophisticated robotic welding machine and CNC line-bore machine. The boom and arm, being critical components of an excavator, require tight tolerance and precision. They are processed with these state-of-the-art machineries to ensure highest attainable quality for every piece we produce. Every time!





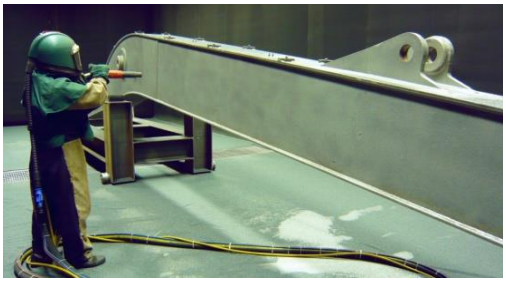
Applications:

- Ideal for river and sea dredging either on land or barge.
- Basement and deep foundation excavation.
- Construction of ditches, levees and pond maintenance.

Features:

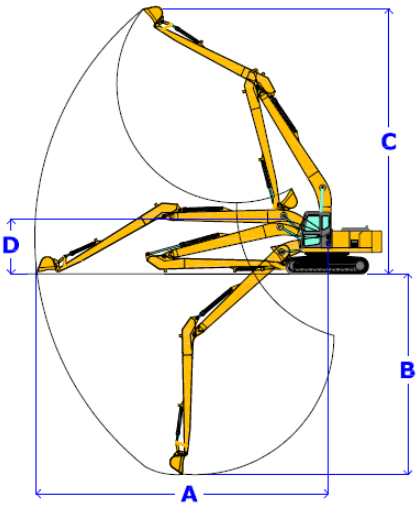
- Heavy duty in construction.
- Design is simulated extensively, ensuring design integrity and detecting potential stress and fatigue points.
- All surfaces are shot blasted.
- Uses marine grade epoxy paint as undercoat.

Long reach excavators work in the harshest conditions you can imagine. Our ultimate goal is to extend the dependable service life of the product. All long reach fronts are shot blasted to ensure the steel surface is thoroughly clean and free from contaminants and rust. In addition, this process presents the steel with a textured surface that provides excellent adhesion for the prime coat of paint.



Super Long Reach Front

Trusted



Each long reach package come standard with the following items:

- 1x boom with full set of hydraulic lines
- 1x stick/dipper arm with full set of hydraulic lines
- 1x bucket
- 1x bucket cylinder/ram
- 1x boom yoke pin
- 1 set of Hydraulic pressure hose
- 1 set of linkage
- 2x bucket pins
- 2x bucket link pins

Excavator Operating Weight	Length		A Max. Reach		B Max. Depth		C Max. Height		D Boom Height		Approximate Bucket Capacity	
	m	ft	m	ft	m	ft	m	ft	m	ft	m^3	$Yard^3$
12 – 14 ton (26,400 – 30,8000 lb)	12.0 13.0	39’ 43’	12.00 13.00	39’ 4” 42’ 8”	8.30 9.00	27’ 2” 29’ 6”	10.50 10.90	34’ 5” 35’ 9”	2.10 2.10	6’ 11” 6’ 11”	0.4 0.3	0.52 0.39
15 – 16 ton (33,000 – 35,200 lb)	14.0	46”	14.00	45’ 11”	10.70	35’ 0”	11.80	38’ 8”	2.30	7’ 6”	0.4	0.52
20 -22 ton (44,000 - 48,400 lb)	15.5 16.5	50' 54’	15.50 16.50	50’ 10" 54' 2"	11.46 12.16	37' 7" 39' 11"	13.78 14.40	45' 3" 47' 3"	2.50 2.50	8' 3" 8' 3"	0.50 0.40	0.65 0.52
23 - 27 ton (50,600 - 55,000 lb)	17.0 18.0	56' 59'	17.00 18.00	55' 9" 59' 0"	12.80 14.00	41' 11" 45' 11"	14.95 15.85	49' 0" 51' 9"	2.70 2.70	8' 11" 8' 11"	0.50 0.40	0.65 0.52
28 - 30 ton (61,600 - 66,000 lb)	18.0 19.0	59' 62'	18.00 19.00	59‘ 0" 62‘ 3"	13.80 14.00	45' 1" 45' 11"	15.20 15.50	49' 10" 50' 10"	3.10 3.10	10' 2" 10' 2"	0.60 0.50	0.78 0.65
33 - 35 ton (72,600 - 77,000 lb)	18.5 20.0	60' 65'	18.50 20.00	60' 5" 65' 6"	14.50 16.00	47' 6" 52' 6"	15.10 15.60	49' 6" 51' 3"	3.40 3.40	11'0" 11'0"	0.70 0.60	0.91 0.78
40 - 44 ton (88,000 - 96,800 lb)	21.0 22.0	68' 72'	21.00 22.00	68' 10" 72' 2"	15.30 16.25	50' 2" 53' 4"	15.58 15.92	49' 3" 52' 3"	3.70 3.70	12' 2" 12' 2"	0.80 0.70	1.04 0.91
45 - 55 ton (99,000 - 121,000 lb)	21.0 22.0	68' 72'	21.00 22.00	68' 10" 72' 2"	15.00 15.80	49' 3" 51' 10"	15.95 16.05	52' 4" 52' 8"	3.95 3.95	12' 11" 12' 11"	1.00 0.90	1.30 1.17
60 - 65 ton (132,000 - 143,000 lb)	23.0	75'	23.00	75' 5"	17.50	57' 4"	17.50	57' 5"	4.10	13' 6"	1.20	1.56
70 - 75 ton (154,000 - 165,000 lb)	24.0	79'	24.00	78' 8"	18.10	59' 3”	19.00	62' 4"	4.60	15' 1"	1.30	1.69
80 - 90 ton (176,000 - 198,000 lb)	25.0	82'	25.00	82' 0"	18.60	61' 0"	19.20	62' 11"	4.70	15' 5"	1.40	1.82
100 - 110 ton (220,000 - 242,000 lb)	27.0 28.0	88' 92'	27.00 28.00	88' 7" 91' 9"	20.00 21.00	65' 7" 68' 10"	19.00 20.00	62' 4" 65' 7"	5.00 5.00	16' 5" 16' 5"	1.60 1.40	2.08 1.82
120 - 130 ton (264,000 - 286,000 lb)	28.0 29.0	92' 95'	28.00 29.00	91' 9" 95' 1"	21.00 22.00	68' 10" 72' 2"	20.00 20.50	65' 7" 67' 3"	5.50 5.50	18' 1" 18' 1"	1.60 1.40	2.08 1.82

* The above specifications are for reference only, actual working range may vary from machine models.
** For the benefit of continuous product improvement, specifications are subjected to change without prior notice.

Trusted

High Reach Demolition Front

An ultra high reach demolition boom is a purpose-built attachment to elevate demolition tools for tearing down multi-storey buildings. The beauty of the demolition boom is its ease of positioning and flexibility in maneuvering of tools in carrying out primary and secondary demolition jobs safely. EIK attachments are engineered for performance, reliability and low total cost of ownership in mind. As we fully understand the harsh working conditions, hence only quality steel is used in the fabrication. Demolition booms for excavators greater than 40 metric tons (88,000 lbs) will have a detachable and modular main boom with a quick coupling joint for efficient mounting and dismantling, as well as ease of ground handling and transportation.

With the greater emphasis on work environment safety and stricter regulation in the industry, high reach demolition booms are fast becoming the choice attachment for demolishing old buildings, replacing the traditional and more accident prone practice where excavators were lifted onto the building to carry out the highly risky tasks. The demolition boom has changed the entire concept of tearing down buildings, not only improving the overall safety standard, but also extending the working radius and reach of the front end attachment.

We design and customize demolition solutions for every make and model of hydraulic excavators, starting from 10 metric tons (22,000lbs) mini excavators and upward. Depending on your excavators size, the demolition boom can easily handle work tools ranging from 0.5 - 4 metric tons (1,100 - 8,800 lbs).

Applications:

- Demolishing high-rise buildings and structures.
- Typically attached to a hydraulic breaker, multi-processor or hydraulic shear.

Features:

- Heavy duty construction.
- Design is simulated extensively, ensuring design integrity and detecting potential stress and fatigue points.
- Modular joint on main boom for easy transportation.
- All surfaces are shot blasted.
- Uses marine grade epoxy paint as undercoat.

We do undertake entire turnkey solutions in which we convert your existing excavator to a full-fledged demolition equipment. The customized conversion is not restricted to the following:

- Widening and lengthening of existing undercarriage.
- Addition of an extra hydraulic control system.
- Modification of cabin into articulating or tilting cabin.
- Cabin protection guard system.
- Integrated counterweight.
- Full commissioning of newly converted machine.

Material Handling Machine

Trusted

Our goal in designing highly efficient material handling solutions is to help our customers "Scale New Heights in Productivity" in handling bulk materials. The machine is designed from ground up, transforming from a standard excavator into a piece of highly sophisticated equipment. The most attractive proposition of an excavator-based machine is its fully hydraulic control, which is undisputedly more efficient, easier to operate and less costly to operate and maintain than any traditional crane-based material handling machine.

The track crawler undercarriage is widened and lengthened to create a larger footprint. This modification ensures that the foundation is both rock solid and safe for the upper structure. Coupled with the swift motion of an articulating operator cabin mounted on an elevated platform, it offers the operator an unobstructed aerial visibility. This highly customized machine delivers the ultimate efficiency and flexibility for handling break bulk, dry bulk, general cargo and dock side, material handling at scrap yard, etc, achieving higher production throughput and long term cost saving.

Articulating Cabin and Attachments

The articulating cabin system, is a well-thought out idea which features an integrated design where the X-Y axis movement is via electromechanical control at the operator's joystick. Though painstaking to implement, it rewards the operators with enhanced operating efficiency, precision and cost saving over the long run.

Front end attachments ~~is~~ are our forte - you can always count on our highly experienced design team to provide optimized and customized solutions for any unique situation.

Applications:

- High volume bulk material handling.
- Ideal for loading and unloading bulk cargo at docks.
- Replaces cable operated material handling machines.

Features:

- Widened and lengthened crawler track for stability.
- Elevated structure with safety platform and hand rail.
- Automatic interlock to prevent the machine from moving while boom and arm is in operation.
- Articulating operator cabin for excellent aerial visibility.
- Long reach front for maximum reach.

Trusted

Telescopic Dipper Arm

As the name suggests, a telescopic dipper arm is a highly specialized, purpose-built attachment with a sophisticated telescopic mechanism. Your investment value of a telescopic dipper is fully realized when excavation work needs to be carried out in an extremely confined space or picking up material from a pit where a long reach front attachment still deems to be too cumbersome.

Most commonly seen solutions in overcoming such challenging situations is to employ a crane fitted with a cable operated clamshell bucket. The cycle time of this crane solution is extremely high as compared to a hydraulic operated telescopic dipper arm with a clamshell front attachment. An ingenious implementation and integration of hydraulic system with cable and sheaves make up the key integral system in operating 2 sliding elements within the outer housing.

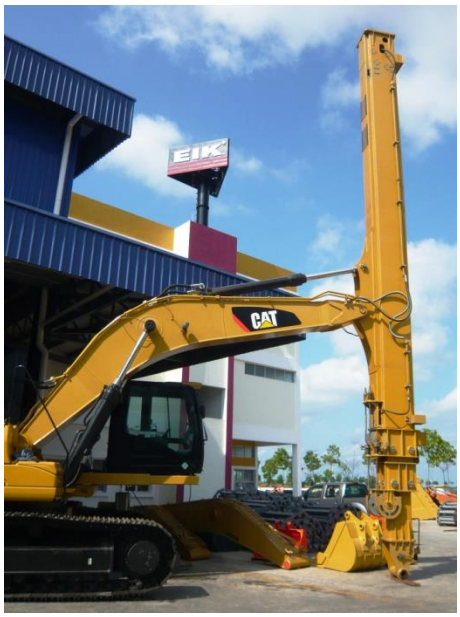
A telescopic dipper attachment for a 20 and 35 metric tons (44,000 and 77,000 lbs) operating weight excavators can enjoy up to a digging depth of 20 meter and 25 meter respectively if desired, and the beauty is, it only requires a very small working radius. If you are challenged by space and depth constraints at the work site, there is simply no other better option than counting on a telescopic dipper attachment.

Applications:

- Designed for material handling application, excellent accessibility to deep and narrow pits.
- The most efficient solution for work sites with restricted space and vast depth.

Features:

- New hybrid design, extension and retraction is by means of a hydraulic-mechanical system.
- Constructed with high strength steel to minimize overall weight while maximizing bucket capacity.
- Pressure sensors are installed on the telescopic arm to reduce impact upon the clamshell hitting the ground.



Heavy Duty Bucket

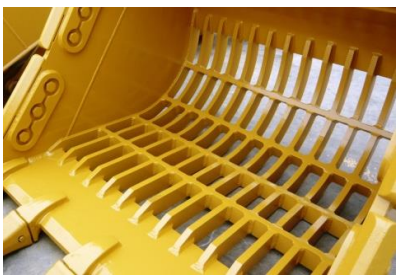
Trusted

We supply a full range of buckets to suit excavators up to 200 metric tons (440,000 lbs) operating weight. Buckets are designed differently, either in the type of material used or the profile of the bucket to suit different applications for the best possible productivity, fuel economy and durability. Though the used of premium material is a prerequisite of a good bucket, there is more to it. Our engineers have gathered numerous data over the years, and coupled with their experience and technical know-how, we are capable of designing buckets for various applications, considering the material density, size of material, abrasiveness of material, the working environment, high/low impact application and etc.

Whenever you need a bucket, regardless of rock bucket, heavy duty, general purpose, tilting bucket, ditching and cleaning out bucket, skeleton bucket, for any excavator models, not restricted to construction, utility, material handling, recycling, dredging, forestry, or demolition applications, you can count on us to deliver quality buckets. We keep wear resistant steel of at least 400 BHN in our inventory for quick turnaround.

Skeleton Bucket

Construction of the skeleton bucket is rather unique in the sense that there is absolutely NO bending of the skeleton ribs. Each rib is cut into shape from a flat sheet of steel, avoiding the need for bending, and thus eliminating any unnecessary stress occurring in the material. Both the vertical and horizontal ribs are interlocked before welding. Interlocking is an innovative design which creates unusually strong and rigid joints throughout. And more creditably, it has been field proven.



Applications:

- Mining, rock handling, dredging, general purpose, ditching, trenching, etc.

Features:

- Heavy duty design for harsh working environment.
- Light and durable for high productivity and fuel economy.
- Hydraulic operated tilting bucket
- Grade 4340 bucket pins.

Trusted

Orange Peel Grab

Orange Peel Grab (also known as Cactus Grab) comes in 2 variants, hydraulic and mechanical, and both are designed for heavy duty operations, suitable for handling scrap metal, rock, wood chips, garbage, etc. A rotator can be added as an optional feature, assuring efficient and precise positioning of the load in the pile or over a truck. It can handle virtually any scrap, waste or recycling job with confidence.

A well-designed orange peel grab for handling different types of materials with maximum productivity requires more than just the raw skill of welding and assembling pieces together. It requires experience in varying key parameters, for example, dead weight, penetration force, geometry, number of tines, just to name a few. You can count on our experience to advise you on the ideal type of design for your requirements.

Applications:

- Handling of scrap, rock, wood chips, garbage, etc.
- Sorting, placement of rocks and bulky and irregular shaped items.
- Dredging works.

Features:

- Multiple tine design depending on the application.
- Both hydraulic and mechanical designs available.
- High quality material and parts used for minimum downtime and low maintenance.
- Protective cover on all cylinders.
- Relieve hydraulic pressure on cylinders from shock loads.
- Optional rotating design (for hydraulic version only).

Clamshell Bucket

Trusted

The clamshell bucket is a sophisticated articulating two-piece bucket mechanically hinged at the middle to form a claw-like appendage with an internal volume. It is attached by a hangar or bracket and uses a specially designed ground engaging tool on its cutting edge to dig in a vertical direction. Clamshell buckets are commonly used in dredging, excavation or material handling, however, each application has its unique characteristics and has to be designed optimally for maximum efficiency.

Hydraulic Clamshell

The CS series hydraulic clamshell bucket is designed to be attached onto an excavator. The dual or quad hydraulic cylinders/rams mounted on the outer rim of the bucket provide excellent digging force. The inner side of the bucket has a smooth surface for easy unloading of high viscosity material such as mud and clay, while the outer layer is reinforced with an additional layer of wear strips. The bowl's radius has been optimize to match the locus of the hydraulic cylinder/ram to deliver consistently full load for maximum productivity.

Mechanical/Cable Clamshell

The fully mechanical clamshell is designed specifically to be used on a crane for large capacity dredging and digging applications. The opening and closing action is operated via cable. The inner side of the bucket has a smooth surface for easy unloading of high viscosity material such as mud and clay, while the outer layer is reinforce with an additional layer of wear strips. The hanger is constructed with high tensile steel.

Applications:

- Digging pits for ground construction work.
- Ideal for digging and loading material in tight and limited spaces.
- Material handling, loading and unloading industrial wastes, grains, sands, etc.
- Heavy duty mechanical clamshell is ideal for dredging application by crane.

Features:

- Designed for durability for all material loading needs in field of work towards higher productivity.
- Specially designed tooth point are equipped on the cutting edge to provide higher strength and longer life.
- Hydraulic rotation and knock-around manual rotation is available.

Trusted

Heavy Duty Grapple

The GP series heavy duty grapple is a reinforced box, 2-tine clamp over 3-tine frame design, ideal for rough, tough and general utility applications. This is a front end attachment designed for excavators to facilitate various applications, particularly ideal for rock handling, log grabbing, land clearing, stacking, piling, scrap handling, where applications require maximum clamping and prying force.

The lugs' design work perfectly with or without a quick coupler. Grapple is fully constructed from tensile steel with internal reinforced structure, the tines are braced with Hardox wear-resistant steel for extra durability, reducing the frequency of costly downtime for maintenance. The curvature of the tines can be customized to suit different applications where objects and trash can vary widely in terms of shapes and sizes. The GP grapple has proven itself in various tough environments and applications.

Available in various models to suit excavator sizes ranging from 10 – 80 metric tons (22,000 – 176,000 lbs) operating weight. The GP series grapple is popular among customers who demand the very best in tackling the toughest job at hand.

Applications:

- Demolition, rock handling, stacking, piling, general utilities.
- Ideal for applications that requires maximum clamping force.
- Handling of waste material for recycling industry.

Features:

- Ease of assembly, works perfectly with or without quick coupler.
- Reinforced box design.
- 2-tine clamp over 3-tine frame structure.
- Large surface area for maximum heaped capacity.

Fork Grapple

Trusted

Fork Grapple is a relatively new design under the Grapple family. Although this design is not commonly seen outside the Asian market, it has been fast gaining popularity. The design was tweaked from a conventional grapple for material handling applications, light demolition, recycling and scrap industries. Its lightweight, 2-tine over 3-tine frame design provides extraordinarily rapid grappling action, reducing cycle time and increasing productivity. Internal structures within each tine are heavily reinforced to ensure maximum rigidity.

Unlike the conventional grapple design where a stiff arm is mandatory, in the case of a fork grapple, the use of stiff arm is totally eliminated. As a result, both jaws open and close simultaneously in a single action, which translate into 2x the opening and closing speed of jaws as compared to typical stiff-arm grapple, and yet with a very firm clamping force. Each tine is serrated with wear strips, provides additional protection on each tine as well as enhancing the gripping strength of irregularly shaped items. The installation process of the fork grapple is similar to installing a bucket, and absolutely no welding is required.

Available in various models to suit excavator sizes ranging from 5 – 30 metric tons (11,000 – 66,000 lbs) operating weight. The fork grapple is popular among customers who seek to reduce cycle time as their top priority.

Applications:

- Demolition of wooden structure/house.
- Handling of industrial material.
- Land clearing and garbage handling.
- Waste recycling and scrap handling.

Features:

- Extremely easy to install, no welding process is needed. Similar assembly process as a bucket.
- Large jaw opening, increased productivity.
- Upper and lower jaws open and close simultaneously, translate to a higher operation speed and improves productivity.
- Reinforced internal tine structure, designed for high durability.

Trusted

Crusher & Other Attachments

EIK concrete crusher/pulverizer is designed with extreme versatility in mind. It has an independent high-powered hydraulic cylinder/ram for exceptional crushing capability. The side structure is a large one-piece non-welded component with additional reinforcement constructed from high-grade tensile steel, essential for its intended heavy duty applications. The side structure plate also serves as a protection guard to the hydraulic cylinder/ram. Its ultimate rigidity and hours of dependable service is a field proven testament of its unique geometry.

The crusher incorporates a rebar cutter, always a welcome feature in concrete crushing and demolition work. The wide opening jaws designed with a high-powered hydraulic system is well-suited for the recycling of concrete slabs, walls, floor slabs, pre-cast structure, railings and the separation of concrete from rebar . The main crushing mechanism comes from the built-in hydraulic system, pure and simple, and it gets the job done smoothly.

Applications:

- Secondary crushing applications.
- Crushing of industrial material.
- Handling of waste material for recycling industry.

Features:

- Built-in cutting blades at the back of the jaws.
- Replaceable cutting blades.
- High-powered cylinder designed to quickly reduce concrete chunks into aggregate.
- Large single piece (non-welded) rigid side structure, also serves as cylinder guard protector with reinforcement on both sides.
- Simple installation, can be used in conjunction with quick coupler/hitch.

Other Products

Ripper

Rake

Quick Coupler

EIK Group of Companies

Our headquarter is located in the city of Johor Bahru within the state of Johor, a metropolitan city at the southernmost tip of Peninsular Malaysia with a population of over two million. It is a mere 10 minute journey from Singapore across the Straits of Johor.

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