

# CURRENT INDUSTRIAL REPORTS SERIES

2007

## MA333D — CONSTRUCTION MACHINERY

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of survey

This survey covers all companies engaged in the domestic manufacture of selected types of construction and surface mining machinery and equipment.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, please call the contact shown on the report form or write to the U.S. Census Bureau for additional forms. (We have begun to offer some flexibility in this requirement. Call the contact for details).

##### a. Quantity and value of shipments

The figures on quantity and value of shipments should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Shipments to your own branches should be assigned the same value as comparable sales to unaffiliated customers; i.e., the value includes an appropriate allocation of company overhead and profit. Products bought and resold without further manufacture should not be included in shipments.

Tandem dig, carrying and hauling scraper units should be reported as two separate units.

When reporting machinery for mounting on tractors, shovel loaders, or other prime movers, report only the value 9208). Report the prime mover separately in the appropriate item.

*Leased machines* — For construction machinery products which your company made for its own use (as for leasing or renting instead of for sale), report the number and estimated values, approximately the value of the products sold outright. If no such prices exist, base the value on the valuation placed on these items for tax, insurance, or similar purposes.

##### b. Columnar structure of report

When entering your figures on the report, please be sure to report the information in the correct columns.

*The columns are:*

Column 1 — Quantity of total shipments

Column 2 — Value of total shipments

(Columns 3 through 6 are not used for this survey)

#### 3. Definitions

The product detail for this survey, as shown in the Reference List, is defined according to standard nomenclature for this industry.

*Net engine horsepower (NEHP)* — Net flywheel performance as measured by the manufacturer, with all standard accessories installed, operated, and corrected to 29.38 inches mercury (Hg) and temperature of 85 degrees Fahrenheit.

*Crawler loader* — Specially designed tracklaying tractor unit equipped at the factory with a shovel loader type mechanism. Report any standard crawler tractor as a tracklaying tractor if it is shipped with a shovel loader as a front-end attachment. Do so whether the loader is mounted and shipped with the tractor or is shipped separately. Report the shovel loader attachment mounted on a standard tractor separately in item code 9124.

*Excavator* — A commercial earth-moving machine equipped with a bucket-mounted front-end attachment. This attachment and its operating machinery are mounted on a 360 degree revolving superstructure.

*Crane* — A machine with front-end attachment functions performed by wire rope.

*Cable operated* — A machine with front-end attachment functions performed by wire rope.

*Hydraulic excavator* — A machine with front-end attachment functions performed hydraulically.

*Hydraulic crane* — A machine with 360-degree rotation on which the boom which is designed primarily for lifting the load by wire rope and can be extended, retracted, raised, and lowered hydraulically.

*Crawler-mounted* — A machine with two parallel continuous crawler or tread belts.

*Truck-mounted (rubber)* — A machine which generally has two engines, one to propel the carrier and another to power the work functions. A truck or carrier mounted machine will have two operator stations and is designed for on- and off-highway travel.

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## DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

### 3. Definitions — Continued

*Pinned-on telescopic crane (item code 4209)* — A hydraulically powered multi-purpose rotating crane with fixed or telescoping booms designed to lift and place materials by winch and load line and which is mounted on a commercially available vehicle having a platform or body.

*Pinned-on articulated crane (item code 4209)* — A stationary or vehicle mounted hydraulically powered multi-purpose knuckle boom crane consisting of an inner and outer boom that can fold to a stowable position. Excluded are those machines commonly known as knuckle boom loaders.

*Unmounted cranes* — These cranes are classified under "Construction machinery for mounting" (item code 9124 or 9208, depending on whether used for construction or materials-handling).

*Attachments* — Include only attachments for cranes, excavators, or draglines sold separately, not shipped with the original machine, in item codes 4284 to 4293. Include the value of any attachments sold with the machine, with the value, f.o.b. plant, of that machine.

### 4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to dollar values reported under product codes indicated in column (b) below.

Current Industrial Reports (Form MA333D)	Economic Census - Manufacturing Sector
Item code (a)	Product codes (b)
1198	3331201550
3298	3331201220
4298	3331201110
7198	3331201440
8606	3331201330
8698	3331201660
9128	3331201770
9134	3339237110
9298	3339237230

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST

FORM <b>MA333D</b>		
<b>CONSTRUCTION MACHINERY</b>		
<b>TOTAL SHIPMENTS (Domestic and export)</b> <i>(Report value in thousands of dollars)</i>		
Product code	Item code	Item description
<b>CONSTRUCTION WHEEL AND CRAWLER TRACTORS, DOZERS, AND SELF-PROPELLED WHEELED LOG SKIDDERS</b>		
3331201577	1140	Wheeled log skidders, self-propelled
3331201599	1150	Crawler tractors (except crawler loaders) and tracklaying and other contractors' off-highway-type wheel tractors and dozers (see item code 7184 for crawler loaders)
3331201550	1198	<b>Total crawler tractors, contractors' off-highway-type wheel tractors, dozers, and self-propelled wheeled log skidders</b> <i>(Sum of item codes 1140 and 1150)</i>
<b>MIXERS, PAVERS, AND RELATED EQUIPMENT (EXCLUDING PARTS)</b>		
<b>For concrete, plaster, or mortar applications:</b>		
3331201222	3222	Concrete mixers (except plaster and mortar), portable, all sizes, either truck-mixer or agitator or otherwise
3331201231	3231	Plaster and mortar mixers, all sizes
3331201233	3233	Slipform concrete paving machines, including multipurpose, automated curb and gutter and concrete slipform pavers up to and including 34' wide
3331201239	3239	Concrete trowels
3331201241	3240	Concrete vibrators (electric motor, gasoline engine, structural high-cycle, pneumatic, etc.)
3331201244	3242	Concrete screeds (hand-propelled or winch type)
3331201247	3243	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)
3331201251	3250	Concrete pumps, mobile
3331201256	3256	Other concrete, plaster, and mortar mixing and paving machinery
<b>For asphalt or bituminous applications:</b>		
3331201266	3266	Bituminous distributors
3331201271	3271	Bituminous pavers, self-propelled:
3331201275	3275	21,999 lbs. gross weight and under (basic unit)
		22,000 lbs. gross weight and over (basic unit)
3331201282	3282	Asphalt plants (including cold mix central plants):
3331201284	3284	Less than 7500 pounds (239 tons per hour)
		7500 pounds and over (240 tph and over)
3331201286	3285	Bituminous stabilization mixing equipment, including central mixing plants and mix-in-place
3331201289	3289	Bituminous cold planers / milling machines (self-propelled)
3331201291	3291	Other asphalt and bituminous mixing and paving machinery
3331201295	3295	<b>Other products, for use in either concrete or bituminous applications</b>
3331201220	3298	<b>Total mixers, pavers, and related equipment (EXCLUDING PARTS)</b> <i>(Sum of item codes 3222—3295)</i>

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## REFERENCE LIST — Continued

FORM <b>MA333D</b>		
<b>TOTAL SHIPMENTS (Domestic and export)</b> <i>(Report value in thousands of dollars)</i>		
Product code	Item code	Item description
<b>POWER CRANES, DRAGLINES, AND EXCAVATORS, INCLUDING SURFACE MINING EQUIPMENT; AND ATTACHMENTS (EXCLUDING PARTS)</b>		
<b>Excavators, hydraulic operated:</b>		
3331201111	4073	Crawler-mounted, rated size in metric tons:
3331201114	4074	Not more than 24 metric tons (26.46 short tons)
3331201117	4075	More than 24 metric but not more than 40 metric tons (44.09 short tons)
More than 40 metric tons		
3331201129	4093	Wheel (rubber) mounted, all sizes
3331201130	4140	<b>Cranes, lattice boom, including crawler and wheel (rubber) mounted</b>
<b>Cranes, hydraulic-operated, telescopic boom:</b>		
Wheel cranes (integral), multiple control stations, rubber-mounted, maximum working load of:		
3331201153	4202	Not more than 27 metric tons (29.76 short tons)
3331201156	4205	More than 27 but not more than 50 metric tons (55.12 short tons)
3331201158	4207	More than 50 metric tons
3331201167	4209	Pinned-on type, telescopic and articulated
Wheel cranes, one control station, self-propelled, rubber-mounted, maximum working load of:		
3331201171	4210	Not more than 16 metric tons (17.64 short tons)
3331201175	4217	More than 16 metric tons (17.64 short tons)
3331201185	4232	All-terrain cranes
<b>Other cranes and excavators:</b>		
3331201194	4245	Pedestal or shipmounted marine cranes
3331201199	4264	All other cranes, including locomotive wrecking, cable-operated excavators, and draglines
<b>Attachments (sold separately) for power cranes, draglines, and excavators:</b>		
33312011A4	4284	Hoe
33312011A5	4286	Dragline buckets, all sizes
33312011A7	4291	Clamshell/grapple
33312011AA	4293	All other attachments
3331201110	4298	<b>Total power cranes, draglines, and excavators, including surface mining equipment; and attachments (EXCLUDING PARTS) (Sum of item codes 4073—4293)</b>

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## REFERENCE LIST — Continued

FORM MA333D		
<b>TOTAL SHIPMENTS (Domestic and export)</b> <i>(Report value in thousands of dollars)</i>		
Product code	Item code	Item description
<b>TRACTOR SHOVEL LOADERS</b>		
3331201460	7160	<b>Skid steer loaders, 4-wheel drive skid steer, all sizes</b>
3331201471	7171	<b>Wheel loaders, rear engine mount, integral design, 4-wheel drive, non-skid steer:</b>
3331201475	7172	Under 79 net engine horsepower (NEHP)
3331201479	7173	80–149 NEHP
3331201483	7174	150–249 NEHP
		250 NEHP and over
3331201495	7195	<b>Integral-design tractor shovel loader/backhoes (wheel tractor-chassis shipped as part of front engine mount contractor tractor)</b>
3331201440	7198	<b>Total loaders</b> <i>(Sum of item codes 7160—7195)</i>
<b>OFF-HIGHWAY TRUCKS, COAL HAULERS, TRUCK-TYPE TRACTOR CHASSIS, TRAILERS, AND WAGONS (EXCLUDING PARTS)</b>		
3331201371	8602	Off-highway rear dump haulers
3331201376	8604	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons
3331201330	8606	<b>Total off-highway trucks, coal haulers, truck-type tractor chassis, trailers, and wagons, (EXCLUDING PARTS)</b> <i>(Sum of item codes 8602 and 8604)</i>
<b>MOTOR GRADERS AND LIGHT MAINTAINERS, INCLUDING ROLLERS AND COMPACTORS, ROUGH-TERRAIN FORKLIFTS, SCRAPER BOWLS, AND SELF-PROPELLED CONTINUOUS DITCHERS AND TRENCHERS (EXCLUDING PARTS)</b>		
3331201662	8607	<b>Motor graders, and light maintainers</b>
3331201672	8617	<b>Rollers and compactors (static smooth steel wheel rollers, tandem)</b>
3331201682	8624	<b>Pneumatic tire rollers</b>
3331201687	8626	<b>Vibratory single drum with 1 or 2 drive wheels:</b>
3331201689	8628	Under 5 metric tons (5.51 short tons)
3331201692	8630	At least 5 but less than 8 metric tons (8.82 short tons)
		8 metric tons and over
3331201693	8633	<b>Vibratory double drum, two drums vibrating</b>

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## REFERENCE LIST— Continued

FORM MA333D		
<b>TOTAL SHIPMENTS (Domestic and export)</b> <i>(Report value in thousands of dollars)</i>		
Product code	Item code	Item description
<b>MOTOR GRADERS AND LIGHT MAINTAINERS, INCLUDING ROLLERS AND COMPACTORS, ROUGH-TERRAIN FORKLIFTS, SCRAPER BOWLS, AND SELF-PROPELLED CONTINUOUS DITCHERS AND TRENCHERS (EXCEPT PARTS)—Continued</b>		
33312016A6	8639	<b>All other compaction equipment, excluding hand-held; including embankment and landfill compactors, towed roller and double drum compactors with one drum vibrating</b>
33312016D1	8641	<b>Rough-terrain forklifts (integral units):</b> Vertical mast, 2-wheel drive
33312016D3	8643	Vertical mast, 4-wheel drive
33312016D5	8645	Telescopic handlers, 2- and 4-wheel drive
33312016E5	8647	<b>Scraper bowls</b>
<b>Ditchers and trenchers, self-propelled (integral units only):</b>		
Ladder-type digging element:		
33312016J4	8654	No more than 5,000 lbs. gross weight
33312016J7	8655	More than 5,000 lbs. gross weight
33312016J9	8657	<b>Wheel-type digging element</b>
3331201660	8698	<b>Total motor graders, light maintainers, rollers and compactors, rough-terrain forklifts, including scraper bowls, ditchers and trenchers, (EXCLUDING PARTS) (Sum of item codes 8607—8657)</b>
<b>CONSTRUCTION MACHINERY FOR MOUNTING ON TRACTORS AND OTHER PRIME MOVERS, (EXCLUDING PARTS) WINCHES AND MATERIALS-HANDLING EQUIPMENT</b>		
3331201782	9121	<b>Backhoes</b> (either shipped for mounting separately or already mounted on an integral unit)
3331201799	9124	<b>Other</b> construction machinery for mounting, including sidebooms, pipehandlers, dozers, front-end loaders, shovel loaders, logging arches, rippers, rooters, continuous ditching and trenching attachments, fork lift attachments, cranes, cable power control units, hydraulic power control units, etc.; excluding winches and materials-handling equipment
3331201770	9128	<b>Total construction machinery for mounting on tractors and other prime movers, excluding winches and materials-handling equipment (Sum of item codes 9121 and 9124)</b>

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FORM <b>MA333D</b>		
<b>TOTAL SHIPMENTS (Domestic and export)</b> <i>(Report value in thousands of dollars)</i>		
Product code	Item code	Item description
3339237110	9134	<b>PERSONNEL AERIAL WORK PLATFORMS (excluding parts)</b>
3339237231 3339237239 3339237230	9206 9208 9298	<b>WINCHES FOR MOUNTING ON WHEEL AND CRAWLER TRACTORS AND OTHER PRIME MOVERS, (COMPLETE UNITS)</b>  <b>Machinery for mounting:</b> Winches (towing, logging, and oil-field types) Other materials-handling machinery for mounting  <b>Total winches for mounting on wheel and crawler tractors and other prime movers, complete units (Sum of item codes 9206–9208)</b>
NOTES:		

10/26/07