

2022 SKID STEER spec guide

By Equipment Today

Skid steers are perhaps the most versatile machines on a jobsite, with capabilities that enable them to tackle a wide range of tasks. Here's a look at models from all the major suppliers, plus a look at system advances that help to maximize productivity and performance. To learn more, use the URL shown. Also be sure to visit the **interactive version of this spec guide at** www.ForConstructionPros.com/specguide/skid-steer to sort and compare models and specs based on your specific requirements.



GEHL

Gehl's hydraulic systems boost productivity by using some of the top technology combined with innovation. Hydraulic component efficiencies have improved through the years, allowing the machines to do more with small engines without sacrificing power. They consume less fuel and operate quieter than machines of the past. For maximum power, the range goes up to what is reported to be the largest skid steer in the market, the V420, which offers 120 hp and a rated operating capacity of 4,200 lbs.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbf.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|------------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| R105 | 34.7 | 4,200 | 1,050 | 2,975 | 107.5 | 14.5 | R |
| R135 GEN:2 | 46.6 | 5,130 | 1,350 | 3,500 | 110 | 16.8 | R |
| R165 | 69.3 | 6,165 | 1,650 | 4,591 | 118.8 | 20.4 | R |
| R190 | 69.3 | 6,880 | 1,900 | 4,050 | 120.5 | 18.5 | R |
| R220 | 72 | 7,980 | 2,200 | 5,600 | 123 | 23.5 | R |
| R260 | 72 | 8,200 | 2,600 | 5,600 | 123 | 23.5 | R |
| V270 GEN:2 | 72 | 8,150 | 2,700 | 5,795 | 130.3 | 23.5 | V |
| V330 GEN:2 | 72 | 9,090 | 3,300 | 5,968 | 131.2 | 23.5 | V |

NEW HOLLAND

New Holland places a lot of emphasis on customer expectations. Our Electro-Hydraulic machines have Load Management to improve productivity and performance by monitoring engine load. When engine power is needed for more than it can create, it adjusts the ground drive to allow the engine rpm to stay at the correct level to produce max engine power.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| L316 | 57 | 5,370 | 1,600 | 5,270 | 112 | 18.4 | R |
| L318 | 57 | 6,230 | 1,800 | 5,550 | 120 | 20.6 | V |
| L320 | 64 | 6,470 | 2,000 | 7,300 | 121 | 20.6 | V |
| L321 | 68 | 6,970 | 2,100 | 7,270 | 123 | 24.2 | R |
| L328 | 68 | 7,895 | 2,800 | 8,620 | 129 | 24.2 | V |
| L334 | 84 | 9,100 | 3,400 | 9,323 | 131 | 24.2 | V |

JOHN DEERE

On John Deere skid steers, there are two features that come to mind that can enhance productivity and performance. Differential steering allows the operator to maintain speed and traction when pushing through a turn and the anti-stall feature monitors engine load to quickly prevent the engine from stalling out. Both features are standard on our full lineup of skid steers.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| 316GR | 61 | 6,180 | 1,750 | 5,250 | 115 | 33 | R |
| 318G | 61 | 6,542 | 1,945 | 6,000 | 120 | 33 | V |
| 320G | 66 | 7,150 | 2,190 | 6,000 | 122 | 39 | V |
| 324G | 70 | 7,700 | 2,690 | 8,750 | 126 | 42 | V |
| 330G | 89 | 9,900 | 3,000 | 10,300 | 132 | 47 | V |
| 332G | 97 | 10,000 | 3,600 | 13,904 | 132 | 50 | V |



CATERPILLAR INC.

Cat D3 series skid-steer loaders feature a hydraulic system that delivers optimal pushing power and breakout for everyday tasks. For more demanding tasks, the available High Flow XPS system supplies a high-flow, high-pressure auxiliary hydraulic system (32 gpm max/4,061 psi max). The additional pressure provided with the High Flow XPS system delivers enhanced productivity with demanding hydromechanical attachments such as cold planers (milling heads), wheel saws, stump grinders or industrial brush cutters.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|----------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| 226D3 | 66 | 5,849 | 1,550 | 3,927 | 110.9 | 18 | |
| 236D3 | 73 | 6,567 | 1,800 | 5,003 | 122.9 | 20 | |
| 232D3 | 66 | 6,514 | 1,900 | 3,928 | 118.1 | 18 | |
| 242D3 | 73 | 7,138 | 2,200 | 4,963 | 121.1 | 20 | |
| 246D3 | 73 | 7,478 | 2,200 | 7,355 | 124.2 | 23 | |
| 262D3 | 73 | 8,296 | 2,700 | 7,355 | 124.9 | 23 | |
| 272D3 | 95 | 9,133 | 3,450 | 7,443 | 127.1 | 23 | |
| 272D3 XE | 106 | 9,573 | 3,700 | 7,362 | 128.6 | 23 | |



WACKER NEUSON

Skid steer and compact track loaders from Wacker Neuson are powered by Kohler KDI diesel engines. These engines are equipped with a high pressure (2000 bar) common-rail fuel system, which together with the advanced multiple injection control of the solenoid-injectors, allows excellent fuel rate control during the injection process. This provides a more complete fuel burn, which increases efficiency and performance.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| SW20 | 56 | 6,437 | 2,000 | 5,300 | 124 | 20 | V |
| SW21 | 74.3 | 6,512 | 2,100 | 5,300 | 124 | 20 | V |
| SW 28 | 74.3 | 8,175 | 2,800 | 6,941 | 134.8 | 22.1 | V |
| SW32 | 100 | 8,629 | 3200 | 9,005 | 134.8 | 25.1 | V |



CASE CONSTRUCTION EQUIPMENT

New electro-hydraulic controls allow operators to set total machine responsiveness to low, moderate or aggressive; or independently set tilt, lift and drive speed, as well as loader arm and drive controls to best meet the demands of the job. Operators can also store and recall specific setting profiles to match either individual preferences or tasks. CASE B Series skid steers also feature engine shutdown, ignition timeout and engine protection features that extend the life and performance of the engine, battery and other critical systems.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|--------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| SR160B | 57 | 5,645 | 1,600 | 5,270 | 112 | 18.4 | R |
| SR175B | 64 | 6,270 | 1,750 | 7,270 | 122 | 20.6 | R |
| SV185B | 57 | 6,570 | 1,850 | 5,550 | 120 | 20.6 | V |
| SR210B | 68 | 6,970 | 2,100 | 7,270 | 123 | 24.2 | R |
| SR240B | 68 | 7,400 | 2,400 | 8,680 | 125.1 | 24.2 | R |
| SR270B | 84 | 8,117 | 2,700 | 8,677 | 125.1 | 24.2 | R |
| SV280B | 68 | 8,090 | 2,800 | 8,776 | 130 | 24.2 | V |
| SV340B | 84 | 9,100 | 3,400 | 9,531 | 130 | 24.2 | V |



BOBCAT COMPANY

Bobcat R-Series compact loaders offer enhanced comfort plus a variety of features and options to enhance productivity and performance. They include redesigned lift arms featuring cast steel segments; an improved cooling system; one-piece sealed and pressurized cab design; clear side enclosure option; inline engine design and durable direct drive system; 5-Link torsion suspension undercarriage option; cast steel Bob-Tach attachment mounting system; ergonomic controls; and innovative displays with device connectivity.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| S70 | 23.5 | 2,892 | 760 | 2028 | 92 | 9.8 | R |
| S450 | 49 | 5,370 | 1,370 | 3918 | 109 | 16.7 | R |
| S590 | 68 | 6,765 | 2,000 | 4691 | 117 | 17.1 | V |
| S595 | 70.5 | 6,793 | 2,200 | 5740 | 118 | 17.1 | V |
| S740 | 74 | 8,794 | 3,100 | 6676 | 129 | 23 | V |
| A770 | 88.2 | 9,623 | 3,325 | 6531 | 131 | 23 | V |
| S770 | 92 | 9,314 | 3,350 | 6831 | 129 | 23 | V |
| S850 | 100 | 10,237 | 3,950 | 9686 | 144 | 23 | V |
| S510 | 55 | 6,208 | 1,790 | 4519 | 113 | na | na |
| S62 | 68 | 6,884 | 2,100 | 5093 | 113 | 17.6 | V |
| S64 | 68 | 6,974 | 2,300 | 5378 | 120 | 17.6 | V |
| S66 | 74 | 7,154 | 2,400 | 5378 | 120 | 23.3 | V |
| S76 | 74 | 8,615 | 2,900 | 5851 | 128 | na | na |

KUBOTA

The SSV Series is powered by a Kubota Tier 4-certified, four-cylinder diesel engine and features standard two-speed travel and optional high-flow hydraulics. Borrowed from the company's compact track loaders, the proven loader arm design with vertical geometry can push and dig as well as a radial machine. It is reinforced in all the right areas, including critical connections to the coupler and rear crossbar.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| SSV65 | 61.3 | 6,790 | 1,950 | 4,839 | 121.5 | 18 | V |
| SSV75 | 71.6 | 8,157 | 2,690 | 5,884 | 128.3 | 20.9 | V |



MANITOU

Because it is the heart of the machine, reliability and performance of the engine is Manitou's No. 1 priority. By powering its machines with the top engine suppliers, it is able to offer complete skid-steer product lines with machines ranging from

some of the biggest in the industry down to the nimble R1050, which has an overall envelope of only 89" x 48" x 70".

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|------------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| 1050R | 34.7 | 4,200 | 1,050 | 2,975 | 107.5 | 14.5 | R |
| 1350R NXT2 | 46.6 | 5,130 | 1,350 | 3,500 | 110 | 16.8 | R |
| 1650R | 69.3 | 6,165 | 1,650 | 4,591 | 118.8 | 20.4 | R |
| 1900R | 69.3 | 6,880 | 1,900 | 4,050 | 120.5 | 18.5 | R |
| 2200R | 72 | 7,980 | 2,200 | 5,600 | 123 | 23.5 | R |
| 2600R | 72 | 8,200 | 2,600 | 5,600 | 123 | 23.5 | R |
| 2700V NXT2 | 72 | 8,150 | 2,700 | 5,795 | 130.3 | 23.5 | V |
| 3300V NXT2 | 72 | 9,090 | 3,300 | 5,968 | 131.2 | 23.5 | V |



JCB

Engine advancements in skid-steer models have resulted in engines that produce enhanced torque and horsepower while using less fuel, making them more efficient than previous models. In addition, electrohydraulic controls have improved machine efficiency, allowing the main control valve to be powered by electric signals instead of servo hydraulics.

| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------------------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| 215 | 74 | 7,445 | 2,257 | 4,899 | 118 | 18.5 | V |
| 270 | 74 | 8,680 | 2,723 | 6,543 | 126 | 24 | V |
| 300 | 74 | 9,288 | 3,186 | 6,543 | 126 | 24 | V |
| 3TS-8W (Teleskid) | 74 | 9,859 | 3,208 | 6,473 | 159 | 24 | V/R |

SUNWARD

The SWL3230 skid-steer loader brings speed, reliability and the optimal amount of power to the table. With a 74-hp Kubota engine, this machine can easily load up to 8,000 lbs. It has a tipping load of 4,854 lbs. and can quickly maneuver around the jobsite with a max speed of 7.8 mph. The compact unit has a turning radius of just 4 ft. 5 in.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) |
|---------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|
| SWL2830 | 65.2 | 6,244 | 1,655 | 4,413 | 91.3 | 17.7 |
| SWL3230 | 75.3 | 7,613 | 2,427 | 5,472 | 123 | 22.7 |

MUSTANG

Mustang by Manitou designs a wide range of skid loaders to ensure that its customers are productive on the job. With models ranging from 1,050- to 4,200-lb. operating capacities, the product portfolio ensures that users can be confident that the company offers a machine suited for the task. A standard Level II FOPS provides operators safety assurance with regard to operating in environments with potential airborne objects.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) |
|-------------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|
| 1050R | 34.7 | 4,200 | 1,050 | 2,975 | 107.5 | 14.5 |
| 1350R NXT:2 | 46.6 | 5,255 | 1,350 | 3,500 | 110 | 16.8 |
| 1650R | 69.3 | 6,165 | 1,650 | 4,591 | 118.8 | 20.4 |
| 1900R | 69.3 | 6,880 | 1,900 | 4,050 | 120.5 | 18.5 |
| 2200R | 72 | 7,980 | 2,200 | 5,600 | 123 | 23.5 |
| 2600R | 72 | 8,200 | 2,600 | 5,600 | 123 | 23.5 |
| 2700V NXT:2 | 72 | 8,150 | 2,700 | 5,795 | 130.3 | 23.5 |
| 3300V NXT:2 | 72 | 9,090 | 3,300 | 5,968 | 131.2 | 23.5 |
| 4200V | 120.7 | 11,665 | 4,200 | 9,040 | 143.8 | 30.1 |

ASV HOLDINGS INC.

The ASV MAX-Series RS-75 and VS-75 feature direct-drive pumps, large line sizes and high-efficiency hydraulic systems to assure maximum power is transferred to the attachment for premium performance. Additionally, a high-performance cooling package keeps the machines operating at full load, even under high ambient temperatures.

The skid-steer loaders feature simple maintenance for improved productivity. The machines include swing-out doors and cooling systems that open quickly to expose the engine, filters and other daily checkpoints for fast and convenient maintenance.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|------------------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| MAX-Series RS-75 | 70.4 | 2,600 | 5,845 | 7,595 | 125 | 21.3 | R |
| MAX-Series VS-75 | 70.4 | 3,500 | 5,920 | 8,910 | 130 | 26.1 | V |

KATO

KATO's AS12 delivers enhanced performance in a compact package that comes as narrow as 3 ft. 1 in. and has an overall length of 8 ft. 6 in. Combined with an operating weight of just over 3,000 lbs. and a 1,455-lb. tipping load, it can easily maneuver loads into the narrowest of spaces. Operator comfort and minimizing fatigue is a key consideration on this machine. The interior offers clearance of up to 28 in., a comfortable adjustable seat and easy to operate controls.



| Model | Net HP | Operating Weight (lbs.) | Rated Operating Capacity (lbs.) | Breakout Force (lbs.) | Height to Hinge Pin (in.) | Std. Hydraulic Flow (gpm) | Vertical or Radial Lift |
|-------|--------|-------------------------|---------------------------------|-----------------------|---------------------------|---------------------------|-------------------------|
| AS12 | 21 | 3,016 | 728 | 1,641 | 100 | 9.25 | R |

BASIC GUIDE TO SKID STEERS

A skid-steer loader is truly a “jack-of-all-trades.” With their numerous attachment options, these units can be found performing many tasks on different types of jobsites. From earthmoving on a building site to landscaping a park to cleaning stalls in a barn, skid-steers can be found helping operators get the job done.

While skid steers can be used in many different ways, size does matter. A smaller skid steer wouldn't be the best choice for a roadbuilding crew that needs to mill a few inches of asphalt off a road and a full-size skid steer wouldn't be the best option for a homeowner to use for his backyard garden.

Skid-steer loaders are typically rated by their rated operating capacity (ROC). Below are the size classes listed by AEM (Associated Equipment Manufacturers):

- Zero to 1,251 lbs.
- 1,251 to 1,350 lbs.
- 1,351 to 1,600 lbs.
- 1,601 to 1,750 lbs.
- 1,751 to 2,200 lbs.
- 2,201 to 2,700 lbs.
- 2,701 lbs. and above

The most popular size in the construction industry is the 1,751- to 2,200-lb. ROC machines. As the ROC increases between machines, so too does the horsepower of the engine, according to product experts at Bobcat.

Size and horsepower of the skid steer usually falls into one of three categories:

- Small frame = 1,750 lbs., under 50 hp
- Medium frame = 1,750-2,200 lbs., 50-70 hp
- Large frame = Over 2,200 lbs., over 70 hp
- Each size and type has its own strengths and weaknesses. So, how do you know which size is best for the application?

ASK THE RIGHT QUESTIONS

What's the best way to match a skid steer to your customer's task? In order to find out exactly what it is the customer wants to do with the machine, you need to ask some questions. Jobsite dimensions are one of the greatest factors to know to fit the skid steer to the job, according to product experts at John Deere. Know the applications it will be used for, so you can calculate the size of machine you will need. Size constraints, as well as needs for lifting and dumping heights are essential. Hydraulic capacity needs to be determined to use any hydraulic attachments.

THE SIZE OF THINGS

Skid-steer loaders share a variety of characteristics that make them suitable for a range of applications. For example, skid-steer loaders are agile and easy to maneuver, due to their ability to turn in their own tracks. They are also compact, allowing them access to areas larger equipment can not go and versatile, with the ability to use dozens of attachments. This being said, each class of skid steer fills its own niche. **Small-frame skid steers**, for example, are ideal for landscaping, building and site development and underground construction, because of their compact size. This size machine also performs well with interior demolition. At this size, they can fit inside a building but also have the power to use breaker attachments to demolish concrete.

Medium-size machines comprise the bulk of the skid-steer market. Because of their engine power, balance and hydraulics, these machines are suited for a wide variety of attachments and applications. Some construction and jobsite applications require a little more power and bucket size, but are still in a confined enough space that contractors cannot bring in the big machines. At times, the operator doesn't need the extra muscle of a larger skid-steer loader and finds it more economical to have a 50- to 70-hp machine.

Larger loaders have the power and ability to tackle larger construction site jobs, from grading and excavating to roadbuilding and heavy lifting applications.

This machine size's ROC allows it to lift the heaviest loads, such as moving pallets of brick or dumping loads of dirt into the back of trucks. Attachments that perform best with a high-flow machine, such as a

wheel saw or planer for road construction or a forestry cutter for site preparation, work best with these machines.

Applications that require the extra horsepower, such as dozing work, are also a good fit for large skid-steer loaders. When contractors need a big machine to do the hard work on a big site, but they still need maximum maneuverability, a larger size skid steer is often the way to go.

WHEN A SKID-STEER LOADER ISN'T THE BEST OPTION

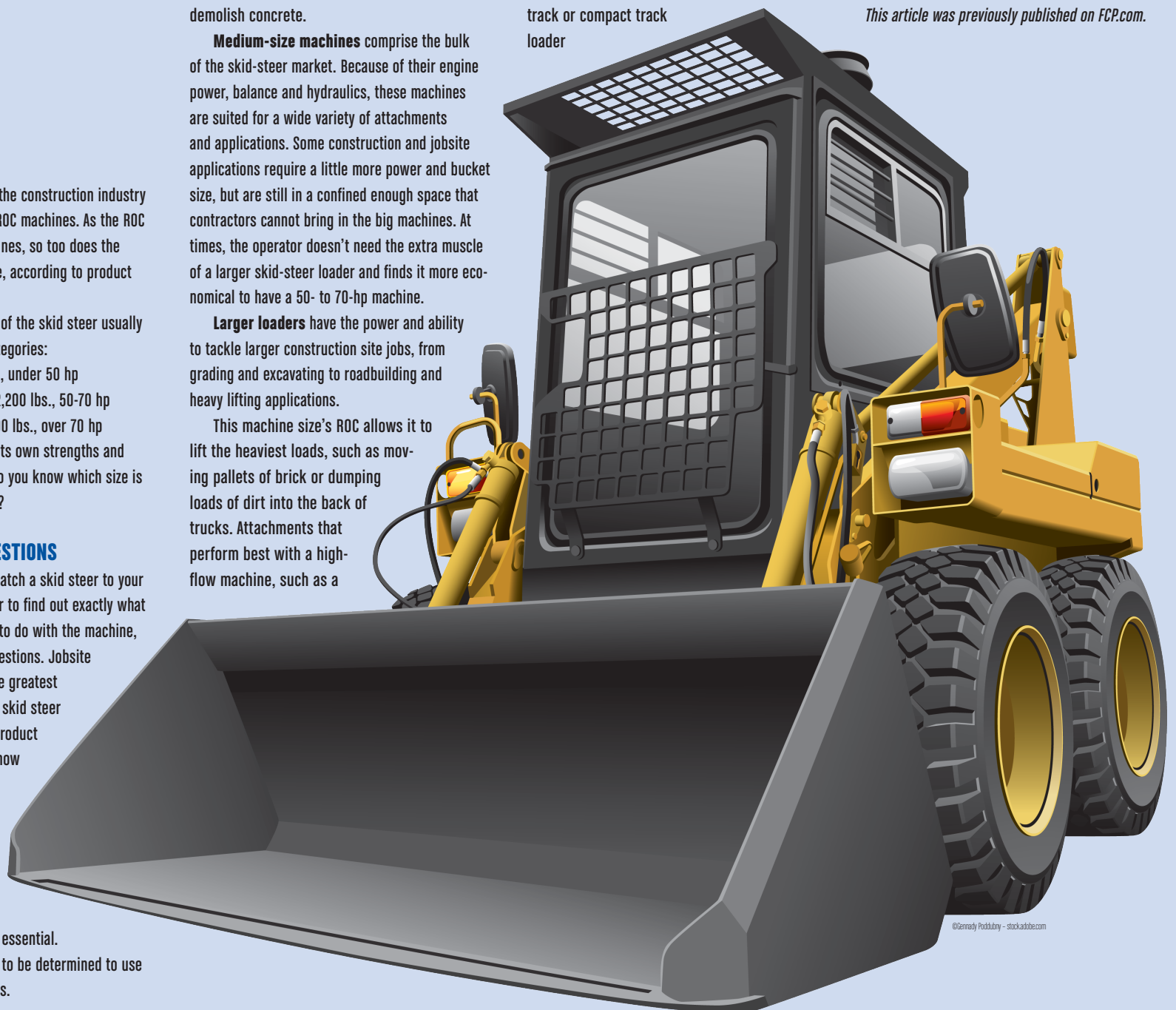
Skid steers are incredibly versatile machines, especially when you take advantage of the host of attachments available for them. However, they might not be the best choice for some applications. In some instances, a mini track or compact track loader

might be the better option.

For example, a homeowner or contractor working on an established lawn might be best served with a tracked machine that will cause less damage, and less rework, to the lawn, saving time and money. Or, much like the small skid-steer loaders, a mini track loader is an excellent way to access narrow or tight areas, such as through a backyard gate or in between buildings built closely together.

A contractor who needs to work in mud or softer soils may be better matched with a compact track loader to keep them working more efficiently and effectively. Or, if a contractor needs the extra pushing power of a compact track loader, such as for dozing work, it would be a better choice versus a skid-steer loader. **ET**

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