



# intelligent Machine Control



## Dozers

### Engine power range

105 HP (78 kW) @ 2,200 rpm  
264 HP (197 kW) @ 1,900 rpm

### Operating weight range

21,848 lbs. - 67,439 lbs.  
(9,910 kg - 30,590 kg)

### Bucket capacity range

2.89 - 9.40 yd<sup>3</sup>  
(2.21 - 7.19 m<sup>3</sup>)

SMARTCONSTRUCTION  
**Intelligent  
Machine Control**



- Get new operators up to speed quickly
- Go from mass excavation to finished grading faster than ever
- Fully integrate 3D design data into your machines
- Empower operators to work efficiently, pass after pass





# Empower your dozer crews to be their most productive

To pursue maximum productivity at your job site, you need to plan your work, and then work your plan. With intelligent Machine Control dozers, you can work your plan with efficiency and accuracy. Through automatic dozing, iMC-equipped machines help you make every pass count — from rough cut through finish grade — to aid in achieving superior production compared to traditional aftermarket systems. \*

Komatsu's iMC products, services and digital solutions were developed with input from leading construction companies. By incorporating a host of advanced machine technology — some patent-pending — you can integrate sophisticated, productivity-enhancing automation and cutting-edge job site design into your operation.



## Easily apply advanced automation technology to your job sites

**Innovative:** Automated operation from rough dozing to finish grade

**Intelligent:** New dozing mode and load control performance features

**Designed for the machine:** Factory-installed, integrated system

**No cables:** No coiled cables between machine and blade

**No climbing:** GNSS antenna and mast removed from blade

**No connections:** No daily connections required between machine and blade

**Fully supported:** Get assistance via Komatsu's service and support network

# Automatic dozing from grass to grade

## Benefits of iMC 2.0



### Improved finish grading

**Applications:** Finish grading

- Analyzes terrain and 3D model to proactively position blade in hard-to-grade areas
- Helps prevent overcutting at finish grade



### Lift layer control

**Applications:** Lifting, compaction quality control

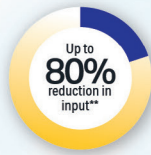
- Maintain precise lift thickness
- Automatically spreads lift from existing terrain and helps prevent overfill
- Up to double the production of prior model



### Proactive dozing control

**Applications:** Stripping topsoil, high-production dozing

- Uses data from previous pass to plan the next pass
- Automatically cut/strip from existing terrain
- Helps new operators perform like experienced ones



### Tilt steering control

- Automatically tilts blade to maintain straight travel while rough dozing
- Maintains consistent power to the ground and track

## Use automation throughout the entire process

Bidding

Stripping topsoil ①

Mass excavation ②

Finish grading ③



\* Compared to previous iMC control methods

\*\* Compared to traditional methods





**Work smarter** from rough dig to finish grade

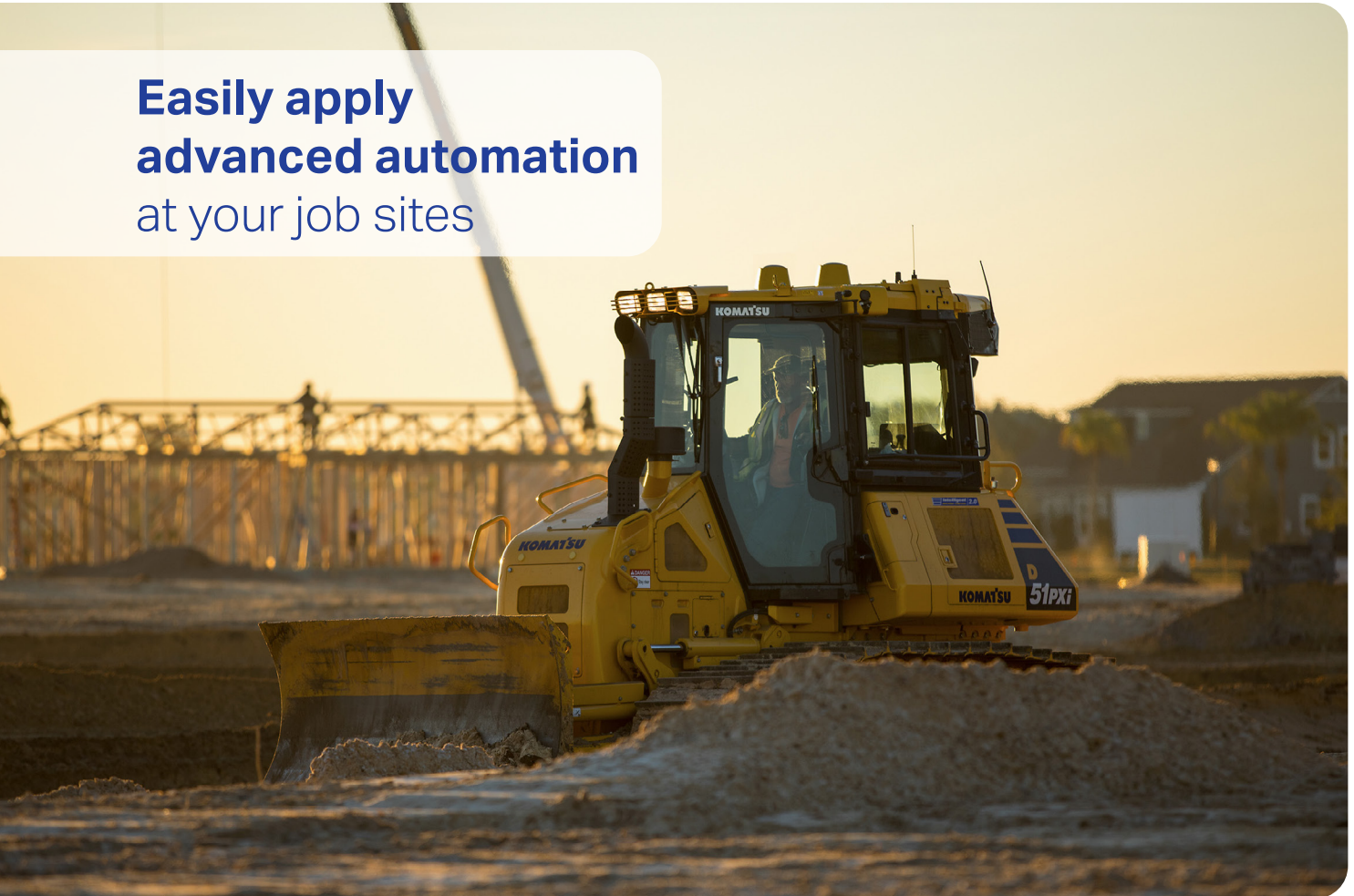
### **Intelligent Machine Control 2.0 is here**

Just as technology has transformed global business, intelligent Machine Control (iMC) can help quickly transform your job sites into highly efficient, highly productive operations by taking advantage of productivity-enhancing automation and cutting-edge job site design. Operators — even those with limited experience — can work with increased efficiency, guided by sophisticated automation.

Talk to your Komatsu distributor about how our new intelligent machine control 2.0 can deliver higher levels of productivity.



### Easily apply advanced automation at your job sites



#### Close the operator skill gap

Machine logic allows the dozer to continuously learn the terrain and make calculated decisions for the next pass. Intelligent Machine Control helps lessen the skill gap between new and experienced operators.

#### Advanced machine control

In select situations — auto stripping, rough dozing, spreading, advanced finish grading — operators can opt for nearly 100% machine control auto usage. They can even apply automatic control without having a 3D model.

#### A machine that learns from the operator

Automatic functions give the dozer the ability to learn from operator's blade input, resulting in more adaptability, easier operation and less reliance on operator input.

#### Outstanding blade response for finish grading

To deliver impressive grading performance, iMC enables the dozer to look ahead at grade transitions and alter the blade angle accordingly.

## New in iMC 2.0

### Learns as it works

With proactive dozing control, even your less experienced operators can automatically cut/strip from existing terrain. The dozer measures the terrain it tracks over and uses that data to plan the next pass. Can improve productivity by up to 60% versus previous generation\*.

### Quick surface creation

Operators can create a temporary design surface with the press of a button. Combined with other iMC 2.0 functions, your crew can begin stripping or spreading using automated input while waiting for the finish grade model.

### Spreads fill material automatically

Lift layer control automatically lets your operators spread fill from existing terrain with the press of a button. The dozer measures the terrain it tracks over and uses the data it gathers to plan the next pass. Attain up to double your production and achieve consistent layers for compaction quality\*\*.

### Levels material even during rough dozing

Tilt steering control automatically tilts the blade to maintain straight travel during rough dozing. Reduces operator steering input by up to 80%\*\*.

## iMC equipped Dozers

Dozer	Weight	HP	Bucket capacity
D39EXi-24	21,848 lbs. (9,910 kg)	105 HP @ 2,200 rpm (78 kW @ 2,200 rpm)	2.89 yd <sup>3</sup> (2.21 m <sup>3</sup> )
D39PXi-24	22,774 lbs. (10,330 kg)	105 HP @ 2,200 rpm (78 kW @ 2,200 rpm)	2.89 yd <sup>3</sup> (2.21 m <sup>3</sup> )
D51EXi-24	30,380 lbs. (13,780 kg)	131 HP @ 2,200 rpm (98 kW @ 2,200 rpm)	3.50 yd <sup>3</sup> (2.68 m <sup>3</sup> )
D51PXi-24	31,504 lbs. (14,290 kg)	131 HP @ 2,200 rpm (98 kW @ 2,200 rpm)	4.40 yd <sup>3</sup> (3.36 m <sup>3</sup> )
D61EXi-24	41,094 lbs. (18,640 kg)	168 HP @ 2,200 rpm (125 kW @ 2,200 rpm)	4.41 yd <sup>3</sup> (3.37 m <sup>3</sup> )
D61PXi-24	43,167 lbs. (19,580 kg)	168 HP @ 2,200 rpm (177 kW @ 2,200 rpm)	4.98 yd <sup>3</sup> (3.81 m <sup>3</sup> )
D65EXi-18	45,780 lbs. (20,765 kg)	217 HP @ 1,950 rpm (162 kW @ 1,950 rpm)	7.30 yd <sup>3</sup> (5.58 m <sup>3</sup> )
D65PXi-18	48,620 lbs. (22,054 kg)	217 HP @ 1,950 rpm (162 kW @ 1,950 rpm)	7.30 yd <sup>3</sup> (5.58 m <sup>3</sup> )
D71EXi-24	50,045 lbs. (22,700 kg)	237 HP @ 2,100 rpm (177 kW @ 2,100 rpm)	5.78 yd <sup>3</sup> (4.42 m <sup>3</sup> )
D71PXi-24	51,147 lbs. (23,200 kg)	237 HP @ 2,100 rpm (177 kW @ 2,100 rpm)	6.08 yd <sup>3</sup> (4.65 m <sup>3</sup> )
D71PXi-24 Wide	52,910 lbs. (24,000 kg)	237 HP @ 2,100 rpm (177 kW @ 2,100 rpm)	6.57 yd <sup>3</sup> (5.02 m <sup>3</sup> )
D85PXi-18	65,080 lbs. (29,520 kg)	264 HP @ 1,900 rpm (197 kW @ 1,900 rpm)	7.70 yd <sup>3</sup> (5.89 m <sup>3</sup> )
D85EXi-18	67,439 lbs. (30,590 kg)	264 HP @ 1,900 rpm (197 kW @ 1,900 rpm)	9.40 yd <sup>3</sup> (7.19 m <sup>3</sup> )

\* Compared to previous iMC control methods

\*\* Compared to traditional methods



---

All comparisons are to the prior model unless otherwise specified. Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu's standard written warranties, which will be furnished upon request.

Komatsu and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu America Corp., Komatsu Mining Corp., or one of their affiliates, or the respective owners or licensees.

**KOMATSU**

[komatsuamerica.com](https://www.komatsuamerica.com)

