

CAT® GRADE for Track-type Tractors and Motor Graders



**GET TO
GRADE FASTER
AND MORE
ACCURATELY**



FEWER OPERATOR INPUTS – INCREASED ACCURACY AND EFFICIENCY



3=1

AUTOMATICALLY MAINTAINS CROSS AND MAINFALL SLOPES

AUTOMATIC



ENHANCES INITIAL OPERATOR PERFORMANCE

IMPROVED OPERATOR PRODUCTIVITY



REDUCES THE NEED FOR GRADE CHECKERS, KEEPING THEM OUT OF HARM'S WAY

INCREASED SAFETY



UP TO 50% LOWER FUEL CONSUMPTION THANKS TO FEWER PASSES

IMPROVED FUEL EFFICIENCY



UP TO 40% FEWER PASSES NECESSARY TO ACHIEVE TARGET GRADE

HIGHER PRODUCTIVITY



ENABLES OPERATORS TO ACHIEVE A STRAIGHT SURFACE FASTER, REDUCING UNDERCARRIAGE SHOCK LOADS

REDUCED WEAR AND TEAR



ENSURES CROSS SLOPES AND MAINFALLS MATCH THE DESIGN WITH ± 1% ACCURACY

LESS REWORK



UP TO 80% REDUCTION OF OPERATOR INPUTS, LOWERING FATIGUE AND KEEPING OPERATORS PRODUCTIVE LONGER

REDUCED OPERATOR FATIGUE



IN-CAB DISPLAY AND INTEGRATED JOYSTICK FUNCTIONS

EASY TO USE



Cat GRADE with Slope Assist
 is an integrated system that enables operators to achieve grade faster and more accurately by automatically maintaining the cross slope and mainfall angles of the blade.

Cat GRADE with Slope Assist informs the operator with visual alerts when the blade is on grade. By eliminating guesswork, the system helps the operator to prevent overcutting and significantly reduce rework and fuel consumption.

Cat GRADE with Slope Assist can even automatically maintain the blade angle without an external laser or GPS reference, while the operator controls the dozer speed using a single joystick.

Intuitive joystick functions allow the operator to decrease or increase cross slope and mainfall values. A recall function on the touchscreen display allows stored blade positions to be recalled for consistent accuracy. No base station, design file or data radio required.

Cat GRADE with Slope Assist improves the accuracy and efficiency of all operators, and is available on most Cat Track-type tractors.

FAMILY

Small Track-type Tractors

MODEL

D4K2
 D5K2

AVAILABILITY

●
 ●

Medium Track-type Tractors

D6K2
 D6N
 D6T*

●
 ●
 ●

● from factory
 ● optional

* Available as of mid 2017.

THE PERFECT SOLUTION FOR COMPLEX GRADING JOBS



NO DAILY MAST MOUNTING/ DISMOUNTING



INCREASED OPERATOR SAFETY



ELIMINATES THE NEED FOR GRADE CHECKERS, KEEPING THEM OUT OF HARM'S WAY



INCREASED JOB SITE SAFETY



NO MACHINE MOVEMENT FOR ORIENTATION NECESSARY DUE TO DUAL GPS ANTENNAS



START WORKING IMMEDIATELY



2 GPS ANTENNAS ENABLE COMPENSATION WHILE CRABBING IN STEEP SLOPES LIKE DIKES AND NOISE BARRIERS, PREVENTING OVER OR UNDER CUTTING OF THE BLADE TIPS IN THIN LAYERS



AVOID POSITION DRIFT



AUTO CARRY ENABLES NOVICE AND EXPERIENCED OPERATORS TO AVOID TRACK SLIPPAGE, INCREASING THE LIFETIME OF THE UNDERCARRIAGE



REDUCED WEAR AND TEAR



AUTO CARRY ENABLES THE OPERATOR TO ALWAYS DRIVE WITH FULL BLADE LOAD, WITHOUT HAVING TO WORRY ABOUT SLIPPING TRACKS



FULL BLADE LOAD



WORKS WITH ACCUGRADE 2D LASER OR 3D UTS WHEN GPS SIGNAL IS NOT AVAILABLE (INDOOR, TREES, HIGH BUILDINGS, TUNNEL), NO DESIGN OR NEED FOR MORE ACCURACY



FLEXIBLE - COMPATIBLE WITH UTS OR LASER



UP TO 25% FASTER ROUGH EARTH MOVING AND SPREADING WITH AUTO CARRY FUNCTION



FINISHED FASTER



UP TO 50% FEWER PASSES NECESSARY TO ACHIEVE TARGET GRADE

HIGHER PRODUCTIVITY



Cat GRADE with 3D automates blade control based on geospatial positioning, removing the need for surveyors and grade stakes.

Using an uploaded grading design and GNSS signals, Cat GRADE with 3D automates the blade's cross slope and mainfall, reducing grading rework and boosting productivity.

Fully integrated into the dozer with 2 fixed GPS antennas on the roof, Cat GRADE with 3D eliminates grade checkers and stakes on the ground, while offering outstanding accuracy and control.

Cat GRADE with 3D has an Auto Carry function that automatically raises the blade to prevent the tracks from slipping, supporting optimal productivity and fuel efficiency.

For machines in the field, Cat AccuGrade™ 3D is available as a retrofit and offers similar benefits.

FAMILY

Small Track-type Tractors

MODEL

D4K2
D5K2

AVAILABILITY

●
●

Medium Track-type Tractors

D6K2*
D6N
D6T

●
●
●

Previous Track-type Tractor models**

●

● from factory
● retrofit kit
● optional



FACTORY
INTEGRATED

INCREASED
COMPONENT PROTECTION

* Available as of January 2017.

** Cat AccuGrade is available as retrofit on all Track-type Tractors.

NO MORE GUESSING - NO MORE STAKES



UP TO 50% MORE EFFICIENT IN REALIZING TARGET GRADE



INCREASED ACCURACY



UP TO 20% FEWER PASSES NECESSARY TO ACHIEVE TARGET GRADE



HIGHER PRODUCTIVITY



UP TO 20% LOWER FUEL CONSUMPTION THANKS TO FEWER PASSES



IMPROVED FUEL EFFICIENCY



EASY TO USE

ALL FUNCTIONS ON THE JOYSTICKS, MAKING IT USER-FRIENDLY AND SIMPLE TO OPERATE



IMPROVED SAFETY

REDUCES THE NEED FOR GRADE CHECKERS, KEEPING THEM OUT OF HARM'S WAY



IMPROVED OPERATOR PRODUCTIVITY

ENHANCES INITIAL OPERATOR PERFORMANCE



REDUCED OPERATOR FATIGUE

UP TO 80% REDUCTION OF OPERATOR INPUTS, LOWERING FATIGUE AND KEEPING OPERATORS PRODUCTIVE LONGER



SCALABLE AND FLEXIBLE

3D COMPATIBLE WITH GPS POSITIONING (SATELLITE) AS WELL AS UTS POSITIONING (UNIVERSAL TOTAL STATION)



IMPROVED ROAD MAINTENANCE

AUTOMATIC CROSS-SLOPE FUNCTION IMPROVES WATER RUNOFF AND SPEEDS UP ROAD MAINTENANCE



Cat GRADE with Cross Slope is an integrated system that enables operators to achieve grade faster and more accurately by automating the cross slope of the blade, allowing the operator to do more in the same amount of time.

While the operator controls the height of one end of the blade, Cat GRADE maintains the cross slope, instantly adjusting the other end of the blade to follow the operator's lead.

Cat GRADE with Cross Slope is simple to use with all functions on the joysticks and decreases the number of necessary operator inputs, lowering operator fatigue and strengthening productivity.

Cat GRADE with Cross Slope improves the accuracy and efficiency of all operators and reduces the need for grade stakes and grade checkers, improving job site safety and cutting costs.

For 3D benefits, Cat AccuGrade 3D is available as a retrofit.

FAMILY

M Series Motor Graders

MODEL

120M2 / 120M2 AWD
 12M3 / 12M3 AWD
 140M3 / 140M3 AWD
 160M3 / 160M3 AWD
 14M3
 16M3
 18M3
 24M

AVAILABILITY

-
-
-
-
-
-
-
-

- from factory
- optional



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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