



Motorgrader

System Five

***Easily upgradable
from your System
Four or System
Four Plus***

***The World's most
widely used grade
control system***

***World's most
advanced,
upgradable,
graphical display
Control Box***

***World's best remote
switch operation***

***World's smoothest,
most consistent
hydraulic response***

***World's highest
slope capabilities
(up to 100%)***



Jobsite-tough components, simple operation,
unparalleled performance.

...and it fits your grader like a glove.

Only Topcon

If you're not using Topcon, your biggest problem could be that your competition is.

Looking for an edge?

Higher production rates, rising material costs, lack of available labor. If you're going to stay competitive in today's market, you've got to get the most out of each cut and each yard of material. That's why when contractors around the world are looking for an edge, they choose Topcon more often than any other system.

It's been proven to increase production rates while saving time and money. The reason's simple, operators aren't afraid to use it. An easy to understand interface combined with intelligent design has set System Four apart as the preference of

operators worldwide.

Now there's one more reason to look to Topcon for a competitive advantage, Motorgrader System Five.

Clearly superior...

You'll realize it the first time you see it. System Five is the easiest to understand grade control interface available. And it's not just because it displays the grade and slope being cut in large, easy-to-see characters.

It's in the details. Things like the direction of slope being displayed from the operator's point of view. Or the simple "walk through" calibration feature. Or even the on-screen help feature that displays operation information with the touch of a button.

The simple, icon based graphical display will put you in control of every facet of your job. And you won't find it anywhere else but Topcon.

And with System Five, upgrades are as easy as hooking up a laptop and clicking "download". Oh yeah, and it's a seamless upgrade from your System Four Plus.

With System Five, you're ready for the future of Machine Control: 3D-MC...

Topcon's revolutionary Three Dimensional Machine Control System is here! And with System Five, you're ready! In fact, with System Five you'll be

positioned for all of the exciting advancements in grade control being developed by Topcon.



Simply Smart

There's only one company with the Machine Control experience necessary to develop these revolutionary components and features. And they're only available from one place. Only Topcon.



NEW System Five Control Box

- **Laptop programmable for easy updates and software revisions.**
- **Large display shows all functions graphically.**
- **Program up to 3 individual set points with "on-the-fly" switching**
- **On-screen help for easy function reference and troubleshooting**



Remote "Smart" Switches

- **Remote, fingertip "Smart" Switches mount on the control levers for easy access.**
- **Multi-function operation: Raise or Lower blade, Auto or Manual Operation, Fast Survey Mode**
- **Switches work with slope or elevation sensors.**



100% Capable Slope Sensor

- **Increased slope capability to 100%. 4 times better than the competition.**
- **Level vial reduces "slosh" for faster, more accurate response.**
- **Cast housing with weather-protected connectors.**
- **Sealed inside and out to protect against moisture and contaminants.**



"High Flow" Hydraulics

- **Metered in and out valve eliminates "washboarding."**
- **Pressure compensation eliminates lag times when other hydraulic components are in operation.**
- **High flow rates give fast accurate response to even the smallest grade corrections**
- **Easy access under cab mounting on H-Series graders.**



Sonic Tracker II™

- **The original Sonic Elevation sensor. Patent #: 4,733,355**
- **Operates at distances other sonic devices can't.**
- **Highest resolution for accurate tracking of surface string**
- **Tough cast housing and completely sealed components.**

System Five:

How it Works...

System Five consists of one Control Box, four sensors, and an all new "High Flow" hydraulic valve package. They work together to determine the blade's position and generate correction signals to keep the blade on grade. Here's how...

The Operator uses the Control Box to enter the desired elevation and slope that System Five will maintain. When the machine begins grading, information from each of the four sensors is sent to the Control Box where it's compared to the desired grade entered by the operator. If necessary, the Control Box then sends out correction signals to the hydraulic valves to move the blade to exact grade.

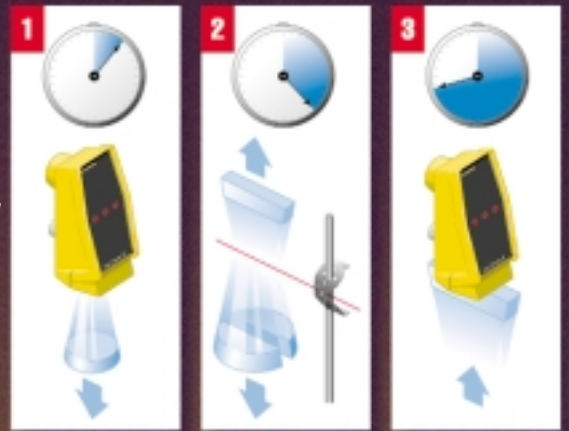
System Five actually performs these measurements and corrections more than 30 times a second! That's fast enough to keep up even at high speeds.

How the Sonic Tracker™ Works...

The Sonic Tracker II™ is the elevation measuring device for System Five. Here's how it works:

1. The Sonic Tracker II™ sends out a pulse of sound and starts a timer:
2. The sound pulse travels down and strikes the reference sending back an echo.
3. The echo strikes the transducer and the Sonic Tracker II™ stops the timer:

Measuring the time it took for the echo to return, the system then knows the distance it resides above the reference.



How the Slope Sensor Works...

The Slope Sensor measures the slope of cut for System Five. Here's how it works:

- (1)...+2% Slope...
a positive signal is generated
- (2)...0% slope...
no signal is generated
- (3)...-2% slope...
a negative signal is generated



CONTROL BOX
The operator's interface to System Five

REMOTE SWITCHES
Complete control at the operator's fingertips

NEW VALVE PACKAGE/MAINFALL SENSOR
High flow valve gives System Five unmatched grade accuracy at any speed!

ROTATION SENSOR
Measures blade rotation for accurate slopes

SLOPE SENSOR
Fast, accurate measurement of machine slope up to 100%

SONIC TRACKER II™

Patented Sonic elevation sensors make choosing a control reference to fit your job easy!



Topcon Training:

To get the most out of your new System Five...

System Five is a proven productivity enhancement tool. To assist you in getting the most out of your new system, Topcon and its dealers offer exclusive System Five training. At your facility or at our corporate training classroom and training site, Topcon certified training professionals have years of hands-on knowledge. And they are available to train your operators on all of the time saving features and applications that System Five can offer. Throughout the year, we also offer training at our corporate facility to make sure your personnel stay current on all of Topcon's developing technologies.

Topcon Certified Service/Repair

To keep your System Five running at peak performance...



To assure that your Topcon system maintains peak performance, your local Topcon dealer offers factory trained and certified

service technicians. And just in case service assistance isn't available in your area, our factory offers a repair and return service policy second to none.



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"The Leading Source"

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Topcon also offers a complete line of Rotating Lasers and optional equipment to put System Five to work just the way you want.

Topcon's RT-5Sa and RT-5Sb Series Lasers

With Topcon's NEW RT-5Sa or RT-5Sb sloping lasers and a 9130 or LS-B2 laser receiver, you're ready for laser accurate grade. Runways, driveways, large commercial pads, or any other job that demands accurate grade at varying slopes, the RT-5S is your answer. 50% slope capable (10% on the RT-5Sb) without tilting the laser, self-aligning, long range, remote controlled-you won't find a more advanced, easy-to-use laser anywhere.



9130 Laser Tracker

Topcon's 9130 Laser Receiver with Trackerjack gives your grader laser accuracy. Its highly visible display lamps point the way to grade whether your too low, too high, or on grade. It also has 5 feet of elevation travel from the cab and automatically locates the beam at setup or when transmission is interrupted.



LS-B2 Laser Receiver

The optional LS-B2 Laser Receiver mounts directly to the Trackerjack pole on your grader or dozer with an easy on/off locking system. With the LS-B2 manual grade system, the operator knows at a glance where the cut is and where it should be. The result, fewer passes to reach finished grade and fewer over cuts.



TM-1 Telescoping Mast

With high speed travel and long extension range, Topcon's TM-1 telescoping mast will add a higher degree of precision and versatility to all of your jobsite applications. And just like all of Topcon's other products, its rugged construction will hold up under any jobsite conditions.



Topcon also keeps your System Four Plus safe and secure...

Rugged, Hard Shell Carrying Case

Molded inserts mean there's a place for everything and everything gets put in its place. The hard shell helps prevent damage in the extremes of the jobsite. You can manage your equipment better and get to the job with everything you need.



Your local TOPCON dealer is:

