Productivity in Action
TOUGH TOOLS FOR TOUGH JOBS
Sandvik Mining and Construction manufactures a full line of tools and accessories for the trenching, road planing, reclaiming, tunneling, longwall mining and continuous mining industries. Our tools are manufactured globally to the highest quality standards, using the strongest materials and most stringent manufacturing processes.

Headquartered in Sandviken, Sweden, and established in 1862, Sandvik is a high-technology engineering group and the world’s leading manufacturer of tungsten carbide tools for the construction, mining and drilling industries.

We take special care in the manufacturing process to ensure that the cemented tungsten carbide in Sandvik’s tools will meet our customers’ demanding needs. The tungsten carbide is processed through a proprietary method to maximize its strengths and brazing properties. A special brazing/heat treatment bonds the tungsten carbide to high-grade alloy steel to ensure the hardness of the steel – and the superior performance of these tools in the field.

You can be confident that Sandvik tools will always provide maximum productivity and efficiency and that we will back them with the most dedicated customer and technical support in the industry.

As the world’s leading supplier of drilling, excavation, crushing and screening machinery, and equipment and tools for the mining and construction industries, only Sandvik can offer customers the entire package – products, service and expertise. We use our nearly 150 years of experience and our comprehensive product line to create value for our customers through relationships that combine hands-on knowledge of our customers’ processes with our own real-world applications knowledge – proven around the world.

NOTE: This is the 2009 catalog for Sandvik grading tools and all data are current at time of printing. Visit our Web site at www.miningandconstruction.sandvik.com to learn more about our services and to check for any updates on the tools and products listed here. Periodic technical bulletins may be issued with updates.
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APPLICATIONS & PERFORMANCE

APPLICATIONS

The Sandvik System 2000 road grading maintenance system is designed to fit most motor graders and can handle a variety of applications.

• Gravel reclamation
• Gravel maintenance
• Oil road reclamation
• Asphalt planing
• Ice and snow removal
• Removal of potholes and washboards on dirt and gravel roads

PERFORMANCE

The System 2000 was developed to improve the performance and productivity of your motor grader. The System 2000...

• Features heat treated boards for optimal wear resistance
• Provides a better mix of materials
• Cuts out ruts and washboards
• Breaks up rocks in the roadway
• Rehabilitates oil and calcium chloride roads
• Cuts ice and snow
• Cuts through crust, rocks and ice easier and faster than conventional systems
• Offers easy field maintenance
• Reduces equipment costs
• Replacement tools last as long as 5-15 sets of conventional blades
• Greatly reduces downtime
• Incorporates the unique back-blading capability that is the only one of its kind in the marketplace
CARBIDE TIPS

INSERT CARBIDE TIPS
Insert carbide tips are best suited for penetration applications where steel wash is not an issue. These tips are ideal for use in hard, high-impact conditions.

**CAP CARBIDE TIPS**
Cap carbide tips have a valve-seat braze joint for increased strength and shear resistance. The tips provide excellent penetration, and the large carbide shoulder gives excellent protection against steel wash. These tips are best suited for use in medium to hard conditions.
Productivity Squared

Sandvik System 2000® is a high-tech road rehabilitation cutting system ideal for maintaining rural roads (e.g. ice, dirt, gravel, hauling roads.) System 2000 increases productivity, essentially eliminating downtime. It works by utilizing a replaceable conical tool installed in a heat-treated adaptor board that allows better wear resistance and improved cutting capability over conventional steel blades.

In addition to the integral end protector—which always leaves cutting edges straight—the latest innovation to the System 2000 is a unique patent-pending square washer that further increases productivity.

Benefits of Sandvik grading tools with NEW square washer:

- Pre-compressed retainer for easy installation
- Enhances tool rotation
- Eliminates washer rotation, preventing wear between washer and mating surface
- Provides support and stability to the pick with an extruded cone that fits neatly in the bore of the adaptor board
- Serves as a replaceable “armor plate” wear surface

Replaceable square washers act as armor plate and allow tools to rotate freely.
SYSTEM 2000

Sandvik System 2000 tools are available in shank diameter sizes from 19 mm to 35 mm for use on motor graders for the road grading industry.

These tools are manufactured globally, according to the highest quality standards.

Now available with TriSpec ring to reduce body wash.
## S19 SYSTEMS

(Available only in Europe)

### STANDARD BOARDS* [1.50” (38.1 mm) Spacing – Angle 25°]

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*Cannot work with H2/K2 tools

### TRUCK BOARDS [1.50” (38.1 mm) Spacing – Angle 45°]

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<td>122.0 (4 ft.)</td>
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NEW

**K6LS-1945-0169**

- 0.638” (16.2 mm)
- 0.665” (16.9 mm)
- 1.720” (43.7 mm)

**K6LS-1945-2869**

- 0.638” (16.2 mm)
- 0.571” (14.5 mm)
- 1.680” (43.0 mm)
S19 SYSTEMS

**FEATURES:**
- Ideal for high speed truck grading

**(Available only in Europe)**

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**H2MA-1946-0169**

**K2LA-1943-0169**

\* Only works with S1DW boards

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**FEATURES:**
- Ideal for high speed truck grading

\* Only works with S1DW boards

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8

19 mm Systems
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```
1.740" (44.2 mm)
0.665" (16.9 mm)
0.638" (16.2 mm)
0.765" (19 mm)
0.765" (19 mm)
1.4" (36 mm)
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```
1.1" (27 mm)
0.765" (19 mm)
0.665" (16.9 mm)
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0.638" (16.2 mm)
0.665" (16.9 mm)
1.740" (44.2 mm)
```
S22 SYSTEMS

STANDARD BOARDS (1.50" Spacing)

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UNDERBODY BOARDS (1.50" Spacing)

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END PROTECTORS*

LEFT .................................................. S4PX-2203-1030
RIGHT ................................................. S5PX-2203-1030

* For 22 mm Standard & Underbody boards only

NEW

1.4" (37 mm)

0.638" (16.2 mm)

0.571" (14.5 mm)

1.680" (43.0 mm)

0.850" (22 mm)

0.665" (16.9 mm)

1.780" (45.0 mm)

PATENT-PENDING

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K1LW-2244-2869

K1LW-2244-0169
S22 SYSTEMS

FEATURES:
- Unique TriSpec body design
- Strategically placed carbide ring prevents body wear, maximizing carbide tip use

NEW

K1LT-2244-2869

K1LT-2244-0169

K1LS-2244-2869

K1LS-2244-0169

K1LS-2244-2769

FEATuRES:
– Unique TriSpec body design
– Strategically placed carbide ring prevents body wear, maximizing carbide tip use
S22 SYSTEMS

"2100" BOARDS (1.75" Spacing)

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* Tool bores feature internal clip groove for use with any style retainer

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K1LA-2244-7062

K1LA-2244-2362

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K9LA-2244-7062

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22 mm Systems
S25 SYSTEMS

HEAVY-DUTY BOARDS (1.72” Spacing)

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END PROTECTORS*

LEFT ........................................ S4PX-2504-2530
RIGHT ....................................... S5PX-2504-2530

* For 25 mm boards only

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K1LS-2557-1362

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<td>1.000” (25 mm)</td>
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K1LS-2557-2362

<table>
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<th>0.945” (24.0 mm)</th>
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<tr>
<td>0.920” (23.3 mm)</td>
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HEAVY-DUTY BOARDS (1.72” Spacing)

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END PROTECTORS*

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* For 25 mm boards only

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HEAVY-DUTY BOARDS (1.72” Spacing)

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S25 SYSTEMS

K1HS-2557-5662

K1LW-2557-1362

K1LW-2557-2362

K1LW-2557-5662

NEW

Patent Pending

25 mm Systems

13
S35 SYSTEM

SUPER-DUTY BOARDS* (2.50” Spacing)

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* For use on extra-large motor graders only

Q7JP-3569-2062P

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ACCESSORIES

Sandvik provides accessories to assist with tool and machine maintenance.

**CURVED KNOCK-OUT PUNCH**
Tool remover with carbide tip for extended life.

**PART NUMBER**
M8T-0004

**AIR-HAMMER PUNCHES**

**PART NUMBER**
M8T-0012 . . . . . . . . . 3/8-inch Chuck

**AIR-HAMMER INSTALLATION TOOLS**
For installation of conical tools into blocks. Fits light-duty and heavy-duty air-hammer guns with 3/8-inch chucks.

**PART NUMBER**
M8T-0015 . . . . . . . . . 3/8-inch Chuck

**MAGNETIC PROTRACTOR**
Provides proper board alignment, so tools are at the correct angle to cut instead of scrape, minimizing wear on the carbide (see next page).

**PART NUMBER**
M8T-0058
SYSTEM 2000 GRADING TOOLS GUIDELINES

INSTALLATION

1. Remove old blades from your moldboard and clean off all dirt on bolting surface.

2. Bolt grading tools to board and then retighten.

3. Move to flat, level surface. Apply forward and downward pressure. Using a magnetic protractor, set the board at 90° from the level surface. Tilt the moldboard back until the protractor reads 70°. Measure both ends of the moldboard. If different, split the difference. Mark the tilt quadrant and circle frame for future reference.

4. If angle is not correct, chattering or vibration will occur. If this happens, adjust adapter back to 70°.

GENERAL OPERATION

1. Ensure all tools are rotating freely and System 2000 is at the correct operating angle. (see INSTALLATION)

2. Check rotation of tools periodically. A tool not rotating will leave a “drag mark” and should be freed as soon as possible. Failure to do this will cause premature wear of the carbide tip.

3. In oil road reclamation and asphalt planing, take up only 1/2 of the material on the first pass. This will break the crust and make it possible to plane the desired depth.

4. When mixing calcium chloride, the tools should be pressure washed to prevent the mix from setting up between the tool shank and the spring retainer. Punch tool out 3/4 of the way and rotate by hand to free the tool. Then knock the tool back in place.

5. For ice and snow removal, put the blade in “float” position with no down pressure. Recommended travel speed is third gear (low range). Higher speeds could cause premature tool wear.

6. The one-piece board design has the ability to back-drag material from unwanted surfaces, such as manhole covers, driveways and curbs.

7. The unique design requires that the board be positioned at a 20° angle. This allows material to roll up the blade, providing superior mixing characteristics.

MAINTENANCE

1. If tools are not rotating freely, pressure wash all sides of the tools. After washing, rotate the tools by hand. Those not rotating, punch out and clean the bore hole and sleeve, then punch back into adapter. Lubricate with any lightweight oil.

2. When center tools are worn down to 1/2 to 2/3 of their original size, rotate them with less worn outside tools.

3. Replace tool if carbide wears to a flat spot, breaks or wears off.

4. If the end of the adapter on the outside of the grader moldboard shows wear, rotate with center section adapter.

Contact your Grading Tools representative for more detailed instructions for your applications.
Partners in Action

Superior performance

Handles tough applications

Maximum productivity