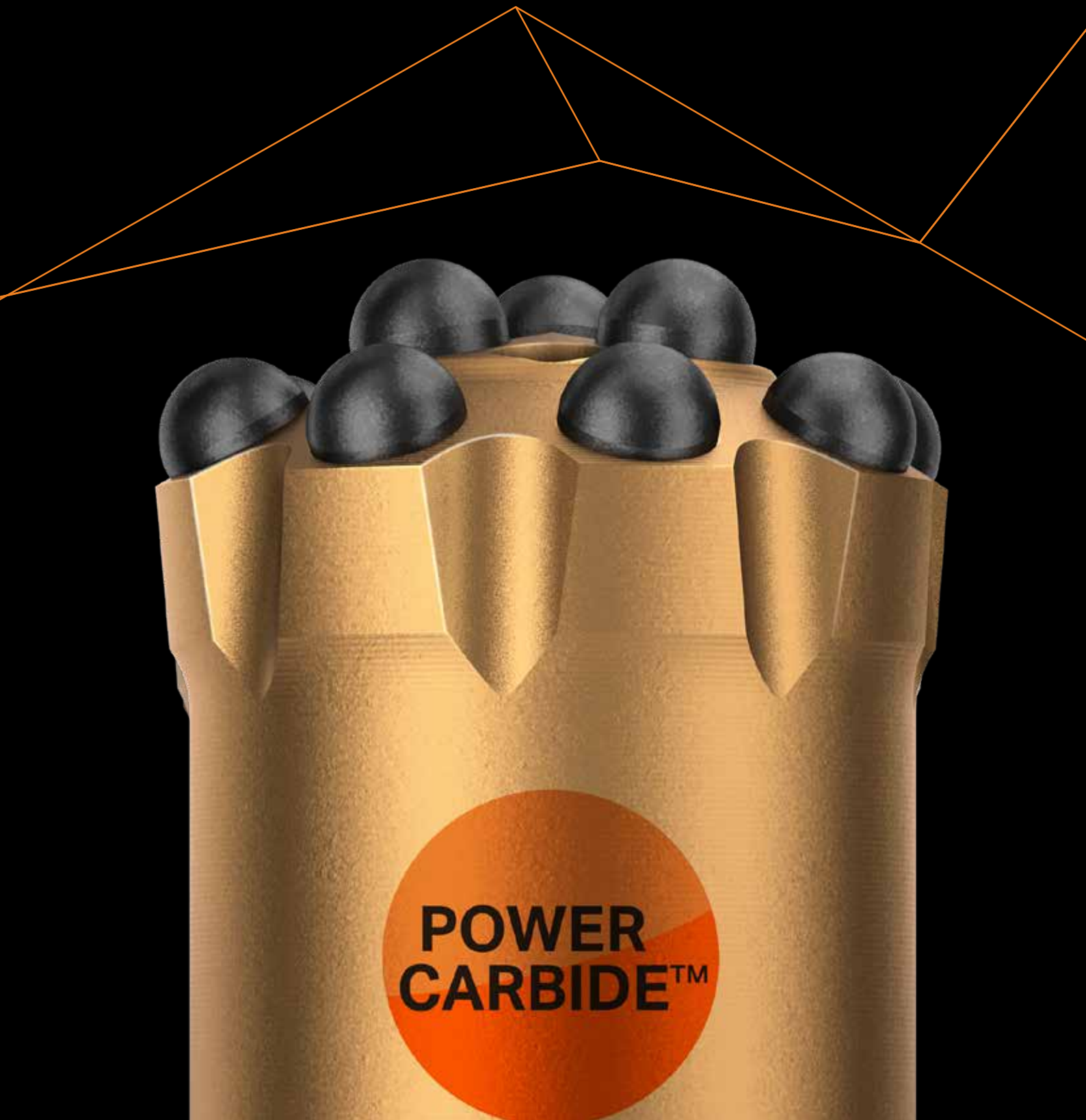
SANDVIK

# THE GREATEST INNOVATIONS IN YEARS EXTENDS SERVICE LIFE AND GRINDING INTERVALS

SANDVIK POWERCARBIDE GC80 AND SH70



UP TO
30%
LONGER SERVICE LIFE AND
GRINDING INTERVALS*

# NEW MEMBERS OF THE POWERCARBIDE FAMILY

### GC80 – HARD AND TOUGH AT THE SAME TIME

The GC80 is developed for abrasive ground conditions with high silica levels in the rock. A new, unique method makes it possible to produce buttons that are wear-resistant on the outside, while the center provides a toughness that pushes the service life and grinding intervals even further.

### SH70 – HARDENS DURING DRILLING

The SH70 is a grade with homogeneous properties throughout the material. We call it "self-hardening" because it has the ability to get more wear resistant as you drill with it, due to enhanced deformation hardening. The surface hardness is continuously 'refilled', which means that the hard top never wears off.

The hardening effect is greatest in hard and competent ground.

# SOME HARD FACTS ABOUT WHY YOU SHOULD FOCUS MORE ON CEMENTED CARBIDE

## SAVES YOU TIME AND MONEY

Our latest PowerCarbide addition is the most significant carbide innovation in the rock drilling industry for decades. The new grades, the GC80 (Gradient Carbide) and SH70 (Self-Hardening), are based on improved knowledge about the wear of the drill bit in different types of rock.

Both the grinding intervals and service life are extended by up to 30% compared with standard carbides. This translates into lower cost per drilled meter, less time for changing bits and improved safety.

## WORLD-LEADING KNOWLEDGE

Since the carbide buttons are the first to attack the rock when you start drilling, it is crucial that they are up for the job. Then it is good to know that Sandvik was the first company in the drilling history to manufacture rock tools with cemented carbide, and we are continuously working on developing new and more advanced carbide grades. We have more R&D capacity with top of the line laboratory equipment and a large team of experts for cemented carbide development than anyone else in the industry. The fact that we control the whole chain, all the way from our own tungsten mine to the production of drill bits, is a unique enabler for developing rock tools. We are also currently alone in having a global carbide recycling system.

Having the most advanced range of carbides means there is almost certainly something in our product range that is perfect for your conditions.

## SANDVIK GC80 AND SH70 AVAILABILITY SELECTION CHART

Drill bits used for face drilling and bolting, 35-51mm

| | FLUSHING HOLE, MM | | BUTTONS, MM | | ANGLE | | DIMENSION, D | | PART NO |
|---|---|---|---|---|---|---|---|---|---|
| BIT THREAD | FRONT, NO SIZE | GAUGE, NO SIZE | FRONT, NO SIZE | GAUGE, NO SIZE | FRONT | GAUGE | MM | INCH | |
| R25 | 1x4 | 1x6 | 2x7 | 5x9 | 15° | 30° | 35 | 1 3/8" | 7732-4435-S70 |
| R25 | 1x4 | 1x6 | 2x7 | 5x9 | 15° | 30° | 35 | 1 3/8" | 7732-4435-S80 |
| R28 | 1x6 | 1x6 | 2x7 | 5x9 | | 35° | 38 | 1 1/2" | 7739-5238-S70 |
| R28 | 1x6 | 1x6 | 2x7 | 5x9 | | 35° | 38 | 1 1/2" | 7739-5238-S80 |
| R32 | 1x5 | 2x6 | 2x9 | 5x10 | | 35° | 43 | 1 11/16" | 7733-5243A-S70 |
| R32 | 1x5 | 2x6 | 2x9 | 5x10 | | 35° | 43 | 1 11/16" | 7733-5243A-S80 |
| R32 | 3x4,5 | 1x4,5 | 3x8 | 6x10 | | 25° | 45 | 1 3/4" | 7733-5345A-S70 |
| R32 | 3x4,5 | 1x4,5 | 3x8 | 6x10 | | 25° | 45 | 1 3/4" | 7733-5345A-S80 |
| Alpha330 | 2x5 | 1x5 | 2x9 | 7x10 | 10° | 30° | 43 | 1 11/16" | 7767-5143A-S80 |
| Alpha330 | 2x6 | 1x6 | 2x9 | 7x10 | 10° | 30° | 45 | 1 3/4" | 7767-5145A-S70 |
| Alpha330 | 2x6 | 1x6 | 2x9 | 7x10 | 10° | 30° | 45 | 1 3/4" | 7767-5145A-S80 |
| Alpha330 | 3x4,5 | 1x4,5 | 3x9 | 8x10 | 10° | 30° | 48 | 1 7/8" | 7767-5148A-S80 |
| Alpha330 | 1x5 | 2x6 | 2x9 | 5x10 | | 35° | 43 | 1 11/16" | 7767-5243A-S70 |
| Alpha330 | 1x5 | 2x6 | 2x9 | 5x10 | | 35° | 43 | 1 11/16" | 7767-5243A-S80 |
| Alpha330 | 3x4,5 | 1x4,5 | 3x8 | 6x10 | | 25° | 45 | 1 3/4" | 7767-5345A-S70 |
| Alpha330 | 3x4,5 | 1x4,5 | 3x8 | 6x10 | | 25° | 45 | 1 3/4" | 7767-5345A-S80 |
| Alpha360 | 3x4,5 | 1x4,5 | 3x9 | 8x10 | 10° | 30° | 48 | 1 7/8" | 7568-5148A-S80 |
| Alpha360 | 3x4,5 | 1x4,5 | 3x9 | 8x10 | 10° | 30° | 48 | 1 7/8" | 7568-5148A-S70 |
| Alpha360 | 3x5 | 1x5 | 3x9 | 6x10 | | 30° | 48 | 1 7/8" | 7568-5348A-S70 |
| Alpha360 | 3x5 | 1x5 | 3x9 | 6x10 | | 30° | 48 | 1 7/8" | 7568-5348A-S80 |
| Alpha360 | 3x6 | 1x6 | 3x9 | 6x10 | | 35° | 51 | 2" | 7568-1651A-S70 |

* Based on comparison with a standard bit.