SONIC 3500

WOLF®

WOLF Across the World

Our market

- Mining
- Quarries
- Contractors/Drilling Services Companies
- Civil Construction

Drilling Attachments for Excavators

- SONIC 3500
- SONIC 2000

Selling Points: SONIC 3500

- Drilling inovation
- High reach
- Fuel saving
- Low maintenance cost
- 3 functions in 1
- Easy to attach and to put out

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How does it Work?

- Fully hydraulic drill
- Using the hydraulic drill from the excavator
- Need a small air compressor for flushing
- Same production as the hydraulic crawler drill

Attachment’s advantages in comparison with the Hydraulic Crawler Drills

Low maintenance cost

Excavator maintenance cost is much lower compared to Hydraulic Track drill.

Easier to find after sales support and spare parts.

Safer on drilling

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High reach – to be used in development quarry, civil construction and production

Equal or Higher Production*

- Production increases around 3-6%, depending on the pattern and bench surface, the flatter the better.

	SONIC 3500	Hydraulic Track Drill
Drilling Diameter	3”	3”
Type of Rock	Granite	Granite
Pattern	2.5 x 3	2.5 x 3
Working hour	8 hours	8 hours
Production at the end of shift	224 linear meters	217 linear meters

* Compared to Equipment with same power

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Low diesel consumption

	SONIC-3500**	HydraulicTrack Drill
Diesel consumption * (Excavator)	13 - 18 l/h	21 – 30 l/h
Compressor**	3.7 – 7.5 l/h	0 l/h
Total	16.7 – 25.5 l/h	21 - 30 l/h

* Considering Excavator of 20 ton class
** Compressor of 250 CFM (4 cylinder engine)

Note: These figures can change according to the excavator and compressor models.

Upfront Investment Cost

The cost of the excavator
+ drilling attachment

=

Much less than a
Hydraulic Crawler Dril

Price composition

Equipment:

- Excavator 20 ton class – Approximately	$ 168,000
- Compressor 250 CFM just for flushing	$ 12,000
- Our Attachment completely	$ 125,000
- Total	$ 305,000

Avarage price for completly Track Drill from Atlas Copco/Epiroc or Sandvick $ 380,000

Multi-function: 3 in 1

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Equipment's composition

Radio control (used only to control the SONIC 3500, the excavator still being controlled by its own command.

Rod changer 6+1

Hydraulic Centralizer

Auto-greaser

Dust collector (primary and secondary)

Digital inclinometer (optional)

Anti-jamming system (optional)

Water tank (optional)

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Strong Points

- Low maintenance cost;
- Safer on drilling;
- Low diesel consumption;
- High Productivity;
- Big reach advantage over track drill;
- Very quick setup times between holes;
- Lower Capital Cost than a dedicated Track Drill;
- Be used in Bench Set up and production;
- Lower Up Front Investment;
- Excelent Mobility;
- Easy to attach and detach (2 pins and 2 hoses);
- 3 in 1 (drilling, Breaking and loading or digging)

Flushing (Compressor)

Hydraulic Driven Compressor In this case use the hydraulic System from excavator, but should have a bigger excavator (at least 30 ton)
Portable Compressor (back of Excavator). In this case use a separate portable compressor 250 CFM @ 100 psi, Attached to the back of excavator
Portable Compressor (Separate of Excavator). In this case use a separate portable compressor 250 CFM @ 100 psi.

Flushing with water

Drilling capacity for the SONIC 3500/ FOX's line

Rock Type	3"	3.1/2"
Limestone – Soft	114 - 141 ft/h (34 – 44 lm/h)	110 - 128 ft/h (32 – 40 lm/h)
Basalt – Medium	82 - 115 ft/h (25 – 35 lm/h)	78 - 112 ft/h (23 – 33)
Granite - Hard	82 - 115 ft/h (25 – 35 lm/h)	79 - 115 ft/h (23 – 34 lm/h)

** lm/h = Linear Meter per hour

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Excavator’s requirements

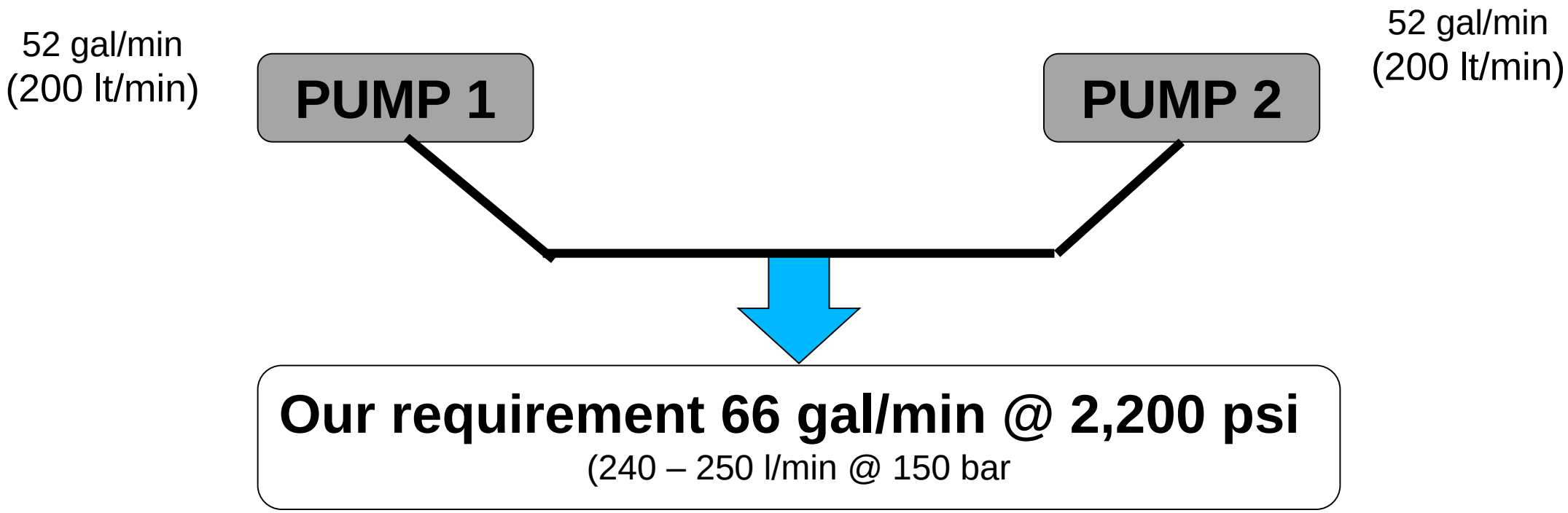
- 20 ton class excavator
- The excavator must be plumbed with auxiliary hydraulic kit (similar as used for hydraulic breaker);
- Small compressor 250 CFM @ 100 PSI compressor flushing, depending on drilling depth and diameter;

Excavator Models:
CATerpillar – CAT-320, CAT-323, CAT-330
Volvo – EC220, EC-240
Doosan: DX-225
JCB – JS200
John Deere – 200G, 300G
Link-Belt - 210

Excavator’s requirements in details

- The excavator must have an auxiliary hydraulic kit, start button for auxiliary output of excavator ON-OFF and output for control panel connection of 12 volts (similar as used for hydraulic breaker);
- 240 to 250 l/min (63 to 66 gal/min) of requiring flow @ 150 bar (2,200 psi);
- 250 CFM @ 100 PSI compressor flushing, depending on drilling depth and diameter;
- Auxiliary Hydraulic Kit Starting inside the cab.

Excavator Hydraulic Flow (20 ton)



**Some excavator has this adjust eletronic, and some mechanical.