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# GILSON ENGINEERING

## COAL PREP PLANT PRODUCT GUIDE

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**[Website: www.gilsoneng.com](http://www.gilsoneng.com)**

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**COLUMBUS, OH**

2697 Sawbury Blvd  
Columbus, OH 43235  
p (614) 889-2150  
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**CLEVELAND, OH**

4660 Main Hill Drive  
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p (440) 543-0300  
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**CINCINNATI, OH**

10984 Main Street #1  
Cincinnati, OH 45241  
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f (412) 348-3042

**CHARLESTON, WV**

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Charleston, WV 25302  
p (304) 342-0012  
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**TOLEDO, OH**

26953 Mingo Drive  
Perrysburg, OH 43551  
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**LOUISVILLE, KY**

2149 Winston Avenue  
Louisville, KY 40205  
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f 412-348-3042

**ORLANDO, FL**

144 Harston Ct  
Heathrow, FL 32746  
p (407) 444-0334  
f (407) 444-0335

**TAMPA, FL**

6329 Knob Tree Drive  
Lithia, FL 33547  
p 800-860-4499  
f (407)444-0335

**MIAMI, FL**

1155 97<sup>th</sup> St #201  
Bay Harbor Is, FL 33154  
p 800-860-4499  
f (407)444-0335

**JACKSONVILLE, FL**

12369 Burgess Hill Drive  
Jacksonville, FL 32246  
p 800-860-4499  
f (407)444-0335

***“PROCESS MEASUREMENT, CONTROL & AUTOMATION”***

## Plant Infeed



Belt scales - Siemens-[Milltronics MSI/MMI](#) series belt scales  
Conveyor failure detection – Siemens [speed switches](#) and [motion failure alarm](#)  
Raw coal silo level – Siemens-[Milltronics LR560](#) radar gauge  
Truck dump, crusher level – Siemens-[Milltronics LUT400](#) ultrasonic level gauge  
Coal sampler bin level – Siemens-[Milltronics LUT400](#) ultrasonic level gauge  
Plugged chute detection – Banner Engineering photoeyes  
Siemens-[Milltronics CLS300](#) and [LVS200](#) probes  
Siemens [Acoustic sensor for material flow monitoring](#)

## Processing



Magnetite bin level - Siemens-[Milltronics LR560](#) radar gauge  
Media & thickener underflow density – Thermo Fisher [Density Pro Plus nuclear density Rhosonics Slurry Density meter \(non-Nuclear\)](#)  
Cyclone pressure – Siemens [DSIII series pressure transmitter](#)  
Sump level – Siemens [DSIII series differential flanged level transmitter](#)  
Chemical tank level – Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic level](#)  
Froth flotation cell level – Siemens-[Milltronics Probe LU](#) and float plate for floatation cells  
Belt press safety light curtains – Banner Engineering EZ-Screen LS light curtains  
Water valves and automation –[Georg Fisher Signet](#)  
Lubricant flow monitoring – [UFM \(Universal Flow Monitors\)](#)

Bearing vibration and temperature – [Banner Engineering QM42VT1](#)

**Thickener, Clean Coal**

**and**



**Refuse**

Thickener bed depth – [ATI/Entech Design Echosmart level transmitter](#)

Thickener pH – [ECD S80](#)

Belt scales – Siemens-  
belt scales

Clean coal silo level – Siemens-[Milltronics LR560](#) radar gauge

Slurry flows – Siemens [MagFlo 5100](#) and [3100 series magnetic](#) flowmeters

Slurry Pipe Leak Box Fluid Detection – Siemens-[Milltronics CLS200](#) point level switches



sensors and [T80 transmitters](#)  
[Milltronics MSI/MMI](#) series

**Balance of Plant**

Water tank level – Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic](#) level transmitters

pH & ORP measurement - [ECD S80 sensors](#) and [T80 transmitters](#)

Pond level - Siemens-[Milltronics Probe LU](#) and [LU150 ultrasonic](#) level transmitters

Wireless for remote signals – [Elpro](#), [Banner Engineering license-free radios](#)

Signal isolators and splitters – [Moore Industries](#)

Panel and field-mount indicators – [Precision Digital](#)

Gas monitoring– Mine Safety Appliance (MSA) [X5000](#) single point sensors

[Altair4X](#) portable gas detectors

