



# **FGX DRY COAL PROCESSING**

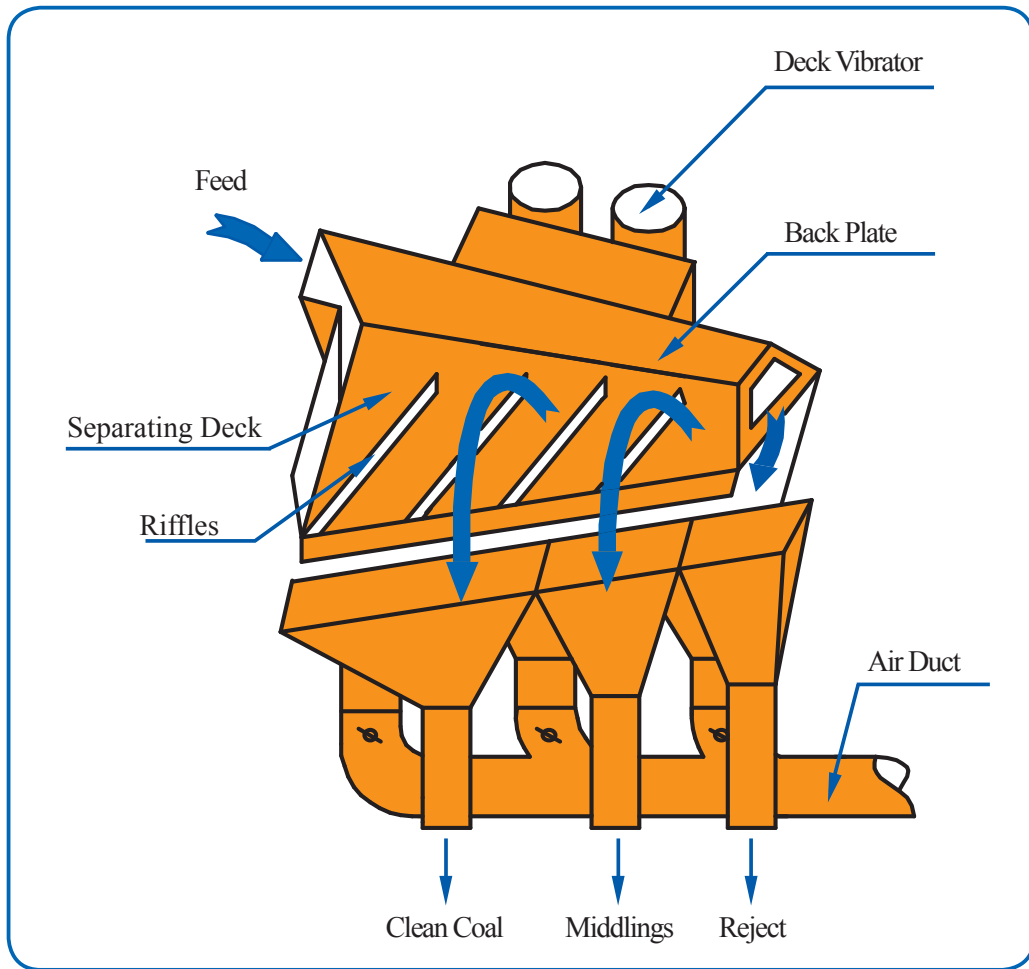
**FGX SEPTTECH, LLC**

**Tangshan Shenzhou Manufacturing Group, Co. Ltd.**

## FGX DRY COAL PROCESSING

Usually coal is cleaned using water. Billions of gallons of water is used every year for coal cleaning. With water becoming an ever-so vital and precious resource, dry coal cleaning has drawn attention in all major coal producing areas of the world.

The FGX technology provides an innovative and cost-effective dry coal processing process that integrates the separation principles of an autogenous medium separator and a conventional table concentrator. Three product streams including deshaled product, middlings and tailing streams are obtained through this process. Two dust collection mechanisms are employed, making the technology environmentally friendly.



**Schematic of the FGX Dry Coal Separator**

## FEATURES OF THE FGX SEPARATOR

---

- ◆ A completely dry process
- ◆ Simple process and high separation efficiency
- ◆ Environmental friendly and cost effective
- ◆ Easy to set up and operate
- ◆ Low maintenance
- ◆ Easy permitting

## TYPICAL APPLICATIONS

---

- Steam coal deshaling
- Deshaling of metallurgical coal
- Pit cleaning/rib coal recovery
- Gob pile processing
- Dry separation of high sulfur coal
- On-site processing of high wall mining coal
- Processing of blast furnace injection coal
- Coal prep in arid regions
- Processing of low-rank coal, e.g. lignite
- Destoning of coal in utilities and cement plants

During the last decade dry coal processing has been growing exponentially due to the continued technical improvements and increasing environmental concerns. As the world's leading dry coal processing solutions provider, FGX has a proven track record of helping coal operators significantly increase operational efficiency and profitability. A series of FGX separators are available including FGX-48A model which has a processing capacity of 480 tons/hour on a single unit, the largest dry coal separator in the world.



## PRODUCT CATALOG

MODEL	CAPACITY tph	DIMENSIONS ft,in [m], l×w×h	POWER hp[kW]
FGX-1	~10	18'8"×10'2"×19'8" [5.7×3.1×6.0]	32.3[24.12]
FGX-2	~20	24'11"×22'8"×22' [7.6×6.9×6.7]	80.4[59.99]
FGX-3	~30	30'2"×27'3"×28'7" [9.2×8.3×8.7]	98.9[73.75]
FGX-6	~60	37'5"×35'1"×30'6" [11.4×10.7×9.3]	195.3[145.65]
FGX-9	~90	42'3"×39'5"×31'2" [12.9×12.0×9.5]	368.0[274.4]
FGX-12	~120	46'7"×43'4"×31'6" [14.2×13.2×9.6]	441.9[329.5]
FGX-18A	~180	61'5"×46'8"×31'2" [18.7×14.2×9.5]	736.0[548.8]
FGX-24A	~240	75'7"×48'2"×31'6" [23.1×14.7×9.6]	883.7[659.0]
FGX-24	~240	62'8"×47'8"×38'6" [19.1×14.5×11.7]	870.8[649.34]
FGX-48A	~480	83'5"×68'6"×38'6" [25.4×20.9×11.7]	1741.6[1298.68]

- NOTES:**
1. The raw coal can be loosed in the seperating deck as the requirement of the raw coal moisture.
  2. Feed size for FGX-1 and FGX-2 is 2.5 in. (60 mm) to 0; for all other models is 3 in. (80 mm) to 0.
  3. Models with "A" are dual systems, e.g., an FGX-18A consists of two FGX-9 units.
  4. Horse power does not include auxiliary equipment such as conveyor belts, etc.
  5. Specifications subject to change without notice.



# FGX DRY COAL PROCESSING

## FGX PHOTO GALLERY



1400 tph FGX Plant  
(Shenhua Energy)



480 tph FGX Plant



240 tph FGX Plant



180 tph FGX Plant



120 tph FGX Plant



90 tph FGX Plant



60 tph FGX Plant



## FEASIBILITY STUDY

Wondering if FGX is the right process for your coal prep needs?

Please provide us with the particle size analysis and washability information of your coal, and we will inform you if dry coal processing is suitable for your application. We can also bring our mobile pilot-scale test unit to your site to run your coal.



Seeing Is Believing...



# FGX DRY COAL PROCESSING

---

## FGX GOES WORLDWIDE

---

More than 1,500 of our award-winning FGX dry coal separators have been applied in Brazil, China, Indonesia, Korea, Kazakhstan, Mongolia, Philippines, Russia, South Africa, Turkey, Ukraine and Vietnam, etc.



## ABOUT US

---

FGX SepTech, LLC, incorporated in Lexington, Kentucky, is the sole supplier of FGX series dry coal separators in America. The FGX dry coal processing is a proprietary dry coal processing technology developed by Tangshan Shenzhou Manufacturing, Co. Ltd (TSM), headquartered in Tangshan, Hebei Province, China.

TSM was founded in 1996 by Mr. Gongmin Li and it has grown from a small machine shop into a top coal preparation equipment manufacturer in China. FGX SepTech and TSM are committed to becoming the worldwide leading dry coal processing solutions provider through focusing on customer satisfaction and technical excellence.



## **FGX SEPTECH, LLC**

289 Blue Sky Parkway

Lexington, KY 40509

USA

Phone: +1-859-263-8300

Fax: +1-859-226-5207

Website: <http://www.fgxseptech.com>

E-mail: [fgx@fgxseptech.com](mailto:fgx@fgxseptech.com)

## **TANGSHAN SHENZHOU MANUFACTURING GROUP, CO. LTD.**

No. 6 Sanjiaodi, Tangbai Road

Tangshan, Hebei Province

China

Phone: +86-315-296-1888

Fax: +86-315-296-0924

Website: <http://www.tsshenszhou.com>

E-mail: [shenszhou@tsshenszhou.com](mailto:shenszhou@tsshenszhou.com)

© 2011 FGX SEPTECH, LLC. ALL RIGHTS RESERVED.