

TECHNICAL BROCHURE



FRONTIER™ JA45 Mobile Jaw Plant

KEY SPECIFICATIONS

HOPPER

- Mild steel construction hopper w/ weld-in wear resistant steel liners
- Hopper Dimensions
 - Length: 12 ft – 8 in (3.870 m)
 - Width: 5 ft – 7 in (1.800 m)
- Capacity:
 - 5.2 cu. yd (4.0 cu. m) (standard fixed hopper)
 - 7.8 cu. yd (6.0 cu. m) (optional hopper extensions)

JAW CRUSHER

- Telsmith Hydra-Jaw H2238
- 22 in (559 mm) x 38 in (965 mm) feed opening size
- Mechanical toggle standard (Hydraulic Toggle optional)
- Minimum CSS (application dependent): 2 in (51 mm)
- Maximum CSS (application dependent): 6 in (152 mm)
- Level Sensor

POWER UNIT

- Stage V / Tier 4F: CAT C7.1, 275 HP (205 kW)
- LRC / Tier 3: CAT C7.1, 275 HP (205 kW)

UNDER CRUSHER CONVEYOR

- Belt Width: 32 in (800 mm) nominal
- Discharge Height: 9 ft – 10 in (3.000 m)

VIBRATING GRIZZLY FEEDER

- Vibrating Pan Feeder w/ under screen
 - Pan Length: 13 ft – 1 in (3.985 m)
 - Pan Width: 3 ft - 1 in (930 mm)
- Two Section Stepped Grizzly
 - Grizzly Length: 6 ft - 0 in (1835 mm)
 - Grizzly Width: 3 ft - 1 in (930 mm)
 - Grizzly Spacing: 2 in (50 mm) nominal
 - Rubber blanking mat fitted below grizzly

TRACKS

- Width: 15.75 in (400 mm)



shown with optional side conveyor and fixed permanent cross belt magnet

DIMENSIONS

Astec mobile jaw crushers are built on a proven legacy of productivity, reliability, and operator friendly performance—setting the benchmark against competing machines.

The Frontier® JA45 mobile jaw crusher delivers exceptional crushing power and higher throughput in a compact, transport friendly design. Featuring the renowned Telsmith® 2238 crushing chamber, the JA45 offers the flexibility of either a hydraulic or mechanical toggle, both of which can be quickly interchanged to suit virtually any application.

TYPICAL APPLICATIONS



FEATURES

- High-capacity production of up to 336 m³/h (370 US t/h) (application dependent)
- Class-leading 205kW (275 HP) power unit output for optimal performance
- Proven Telsmith jaw chamber with hydraulic drive and reverse/jog capability for clearing blockages
- Standard crusher overload protection system (OPS), including chamber level sensor and LED's informing operator of machine status
- Hydraulic chamber closed side setting adjustments made easily from control panel
- Optional hydraulic toggle for tramp iron relief in recycle applications
- Manganese and liner changes can be made from outside the chamber for increased safety
- Reversible and interchangeable jaw dies for added life and lower maintenance costs
- Heavy duty feed hopper with wear resistant liners provides long service life
- Stepped grizzly feeder with under screen for optimal fines removal
- Under crusher clearance and access for removal of wire with standard hydraulic raise/lower under crusher conveyor
- PLC control system and intuitive HMI (Human Machine Interface) for easy operation
- Dust suppression system for improved operator health and reduced machine maintenance costs
- Safe and easy access to all critical components for service and maintenance
- Compact footprint and reduced weight to allow easier transport
- Signal Telematics system provided as standard

Specification	Units	Configuration
		Standard UC Conveyor
Weight	lb	71640
	kg	32495
	tonne	32.5
Transport Width	ft-in	8 - 2
	m	2.500
Transport Length	ft-in	41 - 2
	m	12.500
Transport Height	ft-in	10 - 6
	m	3.200
Working Width	ft-in	14 - 10
	m	4.52
Working Length	ft-in	45 - 3
	m	13.79
Working Height	ft-in	10 - 4
	m	3.15

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BUILT TO CONNECT

Rev 2 /26

Note: Consult factory for exact dimensions, specifications are subject to change without notice.

