

12 CUBIC FEET TUMBLAST



TBR 6 RUBBER BELT & TBR 6 STEEL BELT

Shot Blasting

| Shot Peening

| Dust Collectors

WHEELABRATOR BLAST UNIT:

TYPE: Radialok® RLM-15' diameter X 2'-½" wide.

IMPELLER: Patented high capacity conical type.

CONTROL CAGE: New Clockdial type for simple and effective adjustment of the blast pattern.

BLADES: Special alloy, held in place with strainfree spring clips to provide fast & easy replacement. Blades are firmly positioned between the two hardened steel side plates.

NOISE REDUCTION: Pneumatically operated totally enclosed abrasive control valve.

WHEEL HOUSING - Completely Steel housing fully protected by liners.

MILL CONSTRUCTION

BARREL HEADS: Steel 12mm thick (TBR 40" dia, TBS 40-¾" dia). The bearing housing sleeve can be removed and replaced without realignment of the entire assembly.

CONVEYOR SHAFTS: Drive and idler shafts, mounted on antifriction bearings.

CONVEYOR DRIVE: Reducer and motor unit with chain and sprocket transmission.

CABINET: Fabricated of 6mm and 10mm plate rigidly reinforced with structural members.

LOADING DOOR: One piece air cylinder operated door with an intermeshing labyrinth type door seal prevent escape of rebounding shot.

INSPECTION ACCESS: Multiple access openings on cabinet for ease of inspection and service.

LINING: (Standard): Mild steel lining package, roof liners, steel barrelhead seals and in-line liners.

LINING: (Optional):

1. Manganese steel lining package, steel roof liners, steel barrelhead seals, steel barrelhead and in-line liners.
2. Premium lining package.

ABRASIVE RECYCLING SYSTEM:

HOPPER : Gravity hopper below the cabinet to boot section of the elevator.

SCREEN : Hopper screen is provided to separate foreign matter from the abrasive system.

ELEVATOR : Belt and bucket elevator delivers abrasive to an overhead screw leading to High efficiency compensating flow type with 40" separating lip equipped with rotary screen. Drive is shaft mounted speed reducer to provide trouble-free positive drive. Suitable bearings, sealed-for-life, are used on both the head and boot shafts.

SEPARATOR: 18" wide gravity type, air-wash separator with a counter weighted swinging baffle to insure uniform curtain of abrasive flowing across entire stationary lip.

ABRASIVE: Initial charge 2000 lbs.

ABRASIVE CONTROL: Double acting sir cylinder operated butterfly valve.

ELECTRICAL

CONTROL PANEL: Special control panel, completely wired includes magnetic starters, individual fuse protection for wheel motor, thermal overload protection and disconnect switch in panel door. Ammeter and timed abrasive control are provided.

SAFETY AND OVERLOAD PROTECTION:

- Magnetic overload arrangement shuts off mill drive to prevent jamming damage.
- Abrasive braking to bring wheel to rapid stop.
- Safety switch on door and door lock designed to prevent door opening during blast cycle.
- Wheelabrator unit designed to not start unless door is closed. Mill cannot be reversed until door is open.
- In case of electrical failure or air supply loss the door is designed to stop in position.

LOADER (OPTION): Bucket designed with cable take-up drive assembly. Bucket fabricated with heavy steel plate with structural members for the support frame and bucket support. Loader designed not to operate unless the Tumble door is open and the mill is moving forward. Two designs:

1. Double pivot floor type.
2. Double pivot tote box loader.

MACHINE OPTIONS:

- System "C" automation (timed abrasive and mill tumble off)
- Shot adding device 1.4 cu.ft. capacity
- Unloading conveyor with intermittent mill discharge
- Manganese steel flights (TBS 6 only)

RUBBER BELT CONVEYOR

BELT: Vulcanized endless rubber belt, multiple ply construction. Provided with 5/16 dia. or 3/8 dia hole

FRONT IDLER ROLL: Equipped with fins designed to prevent abrasive from building up under roll.

SUPER ROLLS: Two support rolls with turn in sealed flange-type ball bearings. Adjustment of belt tracking is accomplished through bolt type movable bearing mounts on cabinet walls.

STEEL BELT CONVEYOR:

12 mm thick mill flights are on one piece steel construction with 3/8 drain holes that are bolted to the links. Each mill flights has die formed middle section that prevents deflection under heavy loads and facilitates the tumbling action in the mill. Conveyor travels on hardened steel sprockets and traction wheels. Conveyor links and pins are heat treated that provides additional resistance to abrasion and wear. This also provides extra protection against shock and impact loading.

TBR STATISTICS

Dimension	Description	18" gravity (top) sep.	20" floor mounted	20" double lip floor mounted
A	Hight	16'-0"	16'-0"	16'-0"
B	Width	5'- 3 ¾"	5'- 3 ¾"	5'- 3 ¾"
C	Separator Height		7'- 3 ¼"	8'-10 ½"
D	Depth	7'- 9 3/16"	7'- 9 3/16"	7'- 9 3/16"
E	Depth of floor separator		2'-1 ¼"	3'-10 ½"
F	Loader depth			
	Single Pivot Floor	8'-1 3/16"	8'-1 3/16"	8'-1 3/16"
	Double Pivot Tote Box	10'- 3 ¾"	10'- 3 ¾"	10'- 3 ¾"
G	Discharge Height	4' - 4"	4' - 4"	4' - 4"
	Weight of machine (without loader)	22000 lbs.	24000 lbs.	26000 lbs.
	Ventilation required			
	Heavy contaminates 20" double lip separator		2500 CFM	3000 CFM
	Medium contaminates 20" single lip separator	2000 CFM	2000 CFM	
	Light contaminates 18" gravity separator	1700 CFM		
	Electrical : Wheel motor, mill drive, loader motor, elevator motor screw conveyor			

*Technology & quality of the machine is under constant change. Company reserves the right to change specification of the product without notice.