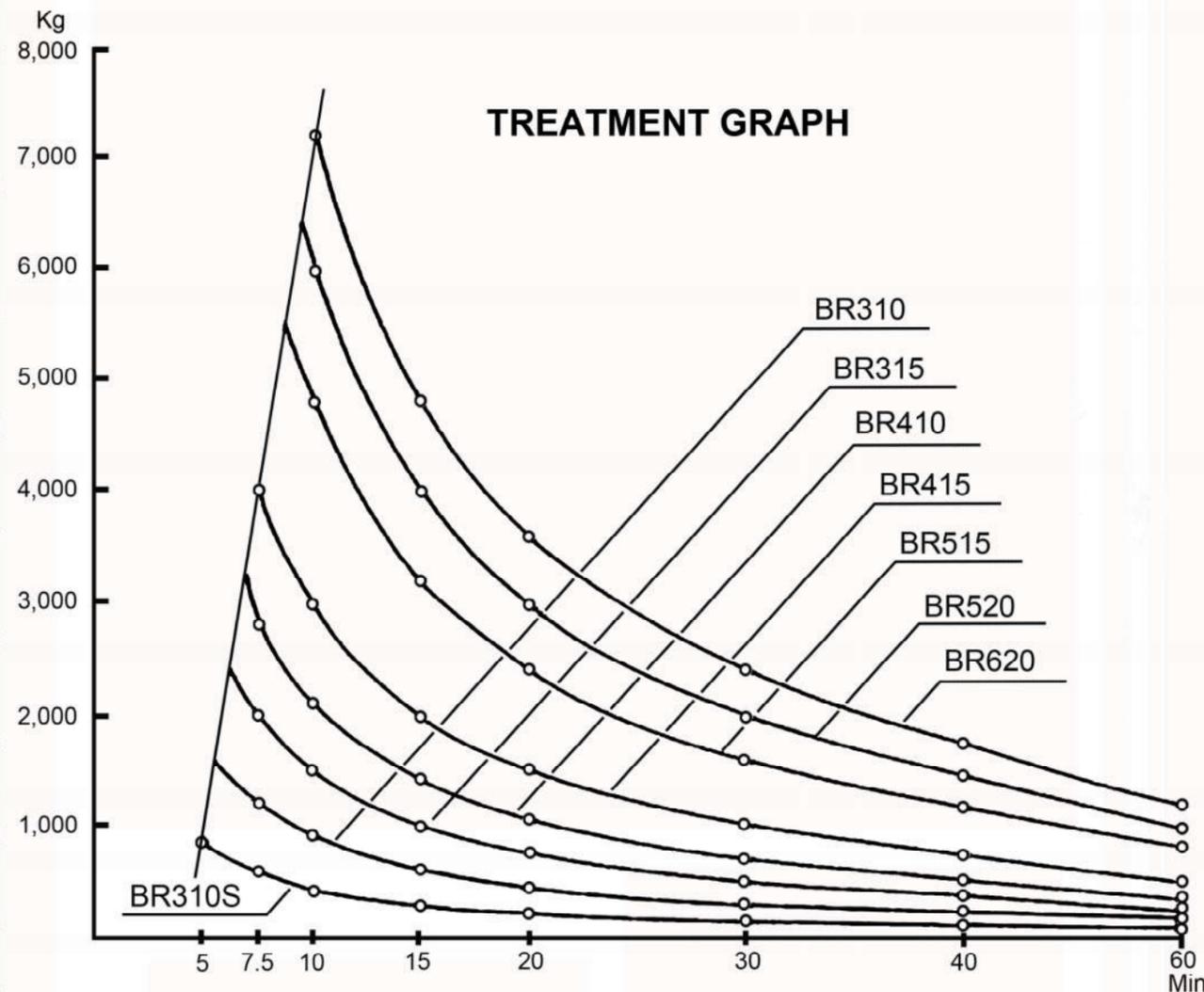


TREATMENT WEIGHT

The relational graph between treatment time & weight (Including sand charging and discharging and treatment weight).

MODEL	INPUT		TREATMENT TIME							
	WEIGHT	TIME	5 min	7.5 min	10 min	15 min	20 min	30 min	40 min	60 min
BR310	150 kg	2.5 min		1,200 kg	900 kg	600 kg	450 kg	300 kg	225 kg	150 kg
BR315	250 kg	2.5 min		2,000 kg	1,500 kg	1,000 kg	750 kg	500 kg	375 kg	250 kg
BR410	350 kg	3 min		2,800 kg	2,100 kg	1,400 kg	1,050 kg	700 kg	525 kg	350 kg
BR415	500 kg	3 min		4,000 kg	3,000 kg	2,000 kg	1,500 kg	1,000 kg	750 kg	500 kg
BR515	800 kg	4 min			4,800 kg	3,200 kg	2,400 kg	1,600 kg	1,200 kg	800 kg
BR520	1,000 kg	4 min			6,000 kg	4,000 kg	3,000 kg	2,000 kg	1,500 kg	1,000 kg
BR620	1,200 kg	4 min			7,200 kg	4,800 kg	3,600 kg	2,400 kg	1,800 kg	1,200 kg

Based on Calculation



SAND-FRESHER BR

Dry-Type Sand Reclaimer



Marumoto Bldg, 17-16 Tsubahi-cho, Nakamura-ku
Nagoya, Aichi 453-0015, Japan
Tel : +81-52-446-5196 Fax : +81-52-446-5197
E-mail : info@xceed.co.jp URL : www.xceed.co.jp



SAND-FRESHER

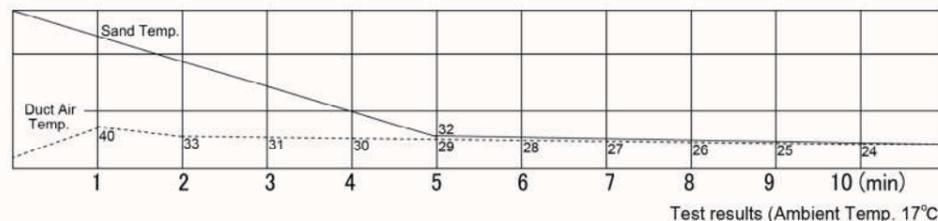
Sand-Fresher is an epoch-making dry-type sand reclaiming machine of the foundry process sand, which grinds and polish the sand round without collapse.

FEATURES

- 1. Grind, reclaim and improve the sand by using the grindstone**
A finned drum is installed outside grindstone rotates slowly while sand passes through the gap between the grindstone and the slide gate attached on the fin.
- 2. Less vibration and noise of the machine**
Sand restores the uneven wear on the grindstone during the grinding process.
- 3. Adjustable rotation speed of the grindstone**
Preventing the collapse of sand grain by adjusting the grindstone rotation speed according to the sand hardness and collapsibility.
- 4. Adjusting the refreshing duration to draw the best reclamation ability**
Reclamation duration is adjustable, depending on the type of foundry process and the sand contamination degree to obtain the best quality sand economically.
- 5. Effective sand cooling**
Simplification of sand cooling equipment and layout can be done easily.

SAND TEMPERATURE / DUCT AIR TEMPERATURE

CHARGING SAND TEMP.	Discharging Sand Temp.			DUCT AIR TEMP. (EXHAUST AIR TEMP. AFTER SAND CHARGING)										
	5 min Grind	8 min Grind	10min Grind	0 min	1 min	2 min	3 min	4 min	5 min	6 min	7 min	8 min	9 min	10 min
120°C	32°C	27°C	24°C	14°C	40°C	33°C	31°C	30°C	29°C	28°C	27°C	26°C	25°C	24°C



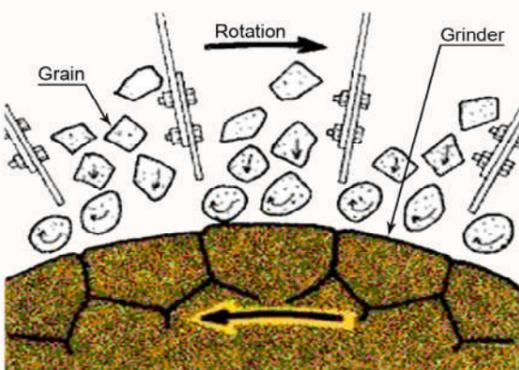
- 6. No static electricity in reclaimed sand due to special machine structure**
- 7. Low equipment cost, and easy layout in the existing plant**
- 8. Low running cost**

RECLAMATION METHOD

The reclamation method is different from the conventional methods such as colliding sand to the iron target by using the air flow or the centrifugal force. In our system a drum with fins which's set on the outside of the grindstone, rotates slowly (10 -14 rpm). Each fin has slide gate and gaps between the slidegate and the grindstone surface are adjustable depending on the type of the sand. When sand passes through the gap sand touches the grindstone surface and is polished as if a ball rolls. Accordingly the sand angular corner is shaved become obtains the superior rounded sand.

Sand-Fresher reclamation method is the most economic way suitable to on the purpose of usage, since the rotational speed and the polishing time can be adjusted.

SAND GRAIN GRINDING CONDITION



TYPE OF RECLAMATION SANDS

Sand-Fresher is designed for any type of the foundry process sand reclamation. Only changing the sand grinding time, the most suitable refreshed sand conditions will be provided.

USED SAND & RECLAMATION SAND



Available Sand

Chromite Sand, Furan sand, Ceramic Beads, Green Sand, α -set Sand, β -set sand, CO₂ Sand, VRH Sand, Shell Coated Sand, Cold Box Sand, Alkaline Phenolic Sand, Dicalcium Sand etc.

SPECIFICATION & DIMENSION

MODEL	DIMENSIONS (mm)			GRINDING STONE (mm)	ELECTRIC POWER	DUST COLLECTION AIR VOLUME
	H	W	L			
BR310	3,900	1,400	1,410	$\phi 305 \times 50 \times \phi 101.6$ 10 pcs.	Grindstone Drum 7.5 KW 2.2 KW	80 m ³ /min
BR315	4,100	1,400	1,660	$\phi 305 \times 50 \times \phi 101.6$ 15 pcs.	Grindstone Drum 7.5 KW 3.7 KW	125 m ³ /min
BR410	5,080	1,660	1,710	$\phi 405 \times 65 \times \phi 152.4$ 10 pcs.	Grindstone Drum 11 KW 3.7 KW	150 m ³ /min
BR415	5,080	1,660	2,040	$\phi 410 \times 65 \times \phi 152.4$ 15 pcs.	Grindstone Drum 15 KW 5.5 KW	150 m ³ /min
BR515	5,910	1,900	2,220	$\phi 510 \times 65 \times \phi 203.2$ 15 pcs.	Grindstone Drum 22 KW 7.5 KW	180 m ³ /min
BR520	6,010	1,900	2,570	$\phi 510 \times 65 \times \phi 203.2$ 20 pcs.	Grindstone Drum 30 KW 7.5 KW	180 m ³ /min
BR620	6,300	2,350	2,800	$\phi 610 \times 75 \times \phi 203.2$ 20 pcs.	Grindstone Drum 37 KW 11 KW	200 m ³ /min

Note : The specifications of this catalog may be changed without notice.

INTERNAL STRUCTURE

