



# Contact

## China

**Wheelabrator Group Ltd.**  
Room A901-903, Far East International Plaza  
No.319 Xian Xia Road  
Shanghai 200051 – PR China  
T: +86 21 6113 1777  
F: +86 21 6113 1788  
E: info-china@noricangroup.com

## Wheelabrator Group Ltd.

Unit 03, 11th Floor., Futura Plaza,  
111-113 How Ming Street,  
Kwun Tong, Kowloon, Hong Kong SAR  
T: +852 2827 1927  
F: +852 2877 6839  
E: info-china@noricangroup.com

## Canada

### Wheelabrator Group (Technology Centre)

1219 Corporate Drive  
Burlington, Ontario L7L 5V5  
T: +1 (800) 845 8508 • T: +1 (905) 319 7930  
F: +1 (905) 319 7561  
E: info@wheelabratorgroup.com

## Czech Republic & Slovakia

### Wheelabrator Czech s.r.o.

Za Balonkou 269  
CZ-260 01 Píbram 1  
T: +420 318 479 111  
F: +420 318 479 333  
E: pibram@wheelabratorgroup.com

## France

### Wheelabrator Group

28-30 Rue de Tourmenfils, BP 19  
91541 Mennecy-Cedex  
T: +33 (0) 1 64 57 21 21  
F: +33 (0) 1 64 57 05 59  
E: contact.fr@wheelabratorgroup.com

### Wheelabrator Group (Technology Centre)

24, Rue Camille Didier BP 39  
F-08001 Charleville-Mézières Cédex  
T: +33 (0) 324 33 63 21  
F: +33 (0) 324 37 39 37  
E: sav@noricangroup.com

## Germany

### Wheelabrator Group GmbH

Ferdinand-Porsche Str. 23  
D- 51149 Köln  
T: +49(0) 2203 297 51 0  
F: +49(0) 2203 297 51 60  
E: service&teile@wheelabratorgroup.de

### Wheelabrator Group GmbH (Technology Centre)

Heinrich-Schlick-Strasse 2  
D-48629 Metelen  
T: +49(0) 25 5688 0  
F: +49(0) 25 5688 150  
E: kontakt@wheelabratorgroup.de

## India

### DISA India Ltd.

5TH Floor, Kushal Garden Arcade  
1A Peenya Industrial Area  
Peenya 2nd Phase, Bangalore 560058  
T: +91 80 4020 1400 (01/02/03/04)  
F: +91 80 2839 1661  
E: bangalore@noricangroup.com

## Japan

### Wheelabrator Group c/o DISA K.K.

4F, Sumitomo Shoji Nagoya Marunouchi Bld.,  
3-5-10 Marunouchi Naka-ku Nagoya  
460-0002 Japan  
T: +81 52 950 7260  
F: +81 52 971 9450

## Mexico

### WG Plus de México S. de R.L. de C.V. (Wheelabrator)

Rectángulos No. 214  
Parque Industrial Arco Vial  
García N.L.  
C.P. 66000 México  
T: +52 (81) 1946-1000  
E: servicioadientes@noricangroup.com

## Poland

### Wheelabrator Schlick Sp. Z.o.o.

Biuro Handlowe, ul. Rzymowskiego 30  
lok. 318,  
PL-02-697 Warszawa  
T: +48 22 651 70 91  
F: +48 22 651 70 92  
E: info@wheelabratorgroup.pl

## Russia

### Wheelabrator Group

Ul. Malakhitovaya 27, Building B  
129128 Moscow  
T: +7 495 1815548  
F: +7 495 1815571  
E: info@wheelabratorgroup.ru

## Spain

### Wheelabrator Group S.L.U.

Gran Via de les Corts Catalanes, 133 - 8º B  
E-08014 Barcelona  
T: + 34 93 421 1266  
F: + 34 93 422 3137  
E: contact@wheelabratorgroup.es

## United Kingdom

### Wheelabrator Group Ltd.

41 Craven Road  
Altrincham, UK  
WA14 5HJ  
T: +44 (0) 161 928 6388  
F: +44 (0) 161 929 0381  
E: uk-info@wheelabratorgroup.co.uk

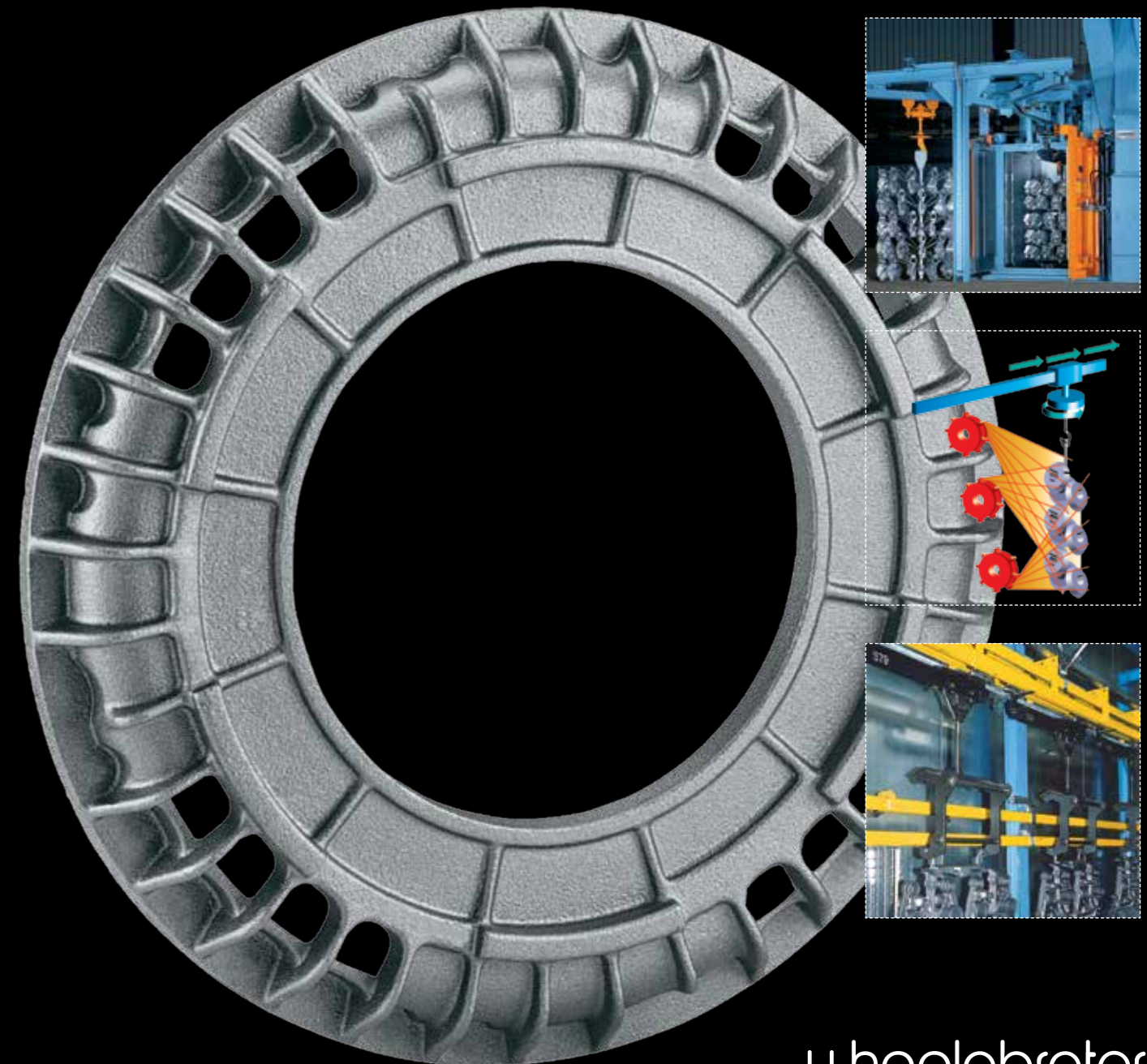
## USA

### Wheelabrator Group

1606 Executive Drive  
LaGrange, GA 30240  
T: +1 (800) 544 4144 • T: +1 (706) 884 6884  
F: +1 (706) 884 0568  
E: info@wheelabratorgroup.com

Subject to technical alterations • 07/14 • © Wheelabrator Group

# HTS Hanger type blast cleaning machine



For more information please contact:

Wheelabrator Group  
(Technology Centre)  
Kasernenstrasse 1  
CH-8184 Bachenbülach, Switzerland

T: +41 44 815 4000  
F: +41 44 815 4001  
E: zurich@wheelabratorgroup.com  
www.wheelabratorgroup.com

wheelabrator  
shaping industry

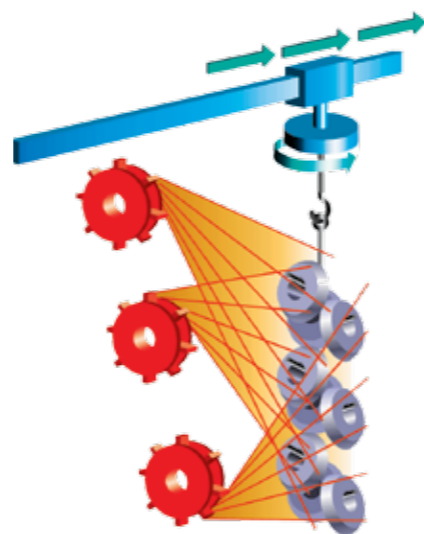
wheelabrator  
shaping industry

Noricangroup is the parent company of DISA and Wheelabrator.

## HTS Hanger type blast cleaning machines



Hanger type blast machine with two blast wheels for cleaning and deburring light alloy castings



### Tailored for foundry and forge applications

Wheelabrator HTS Hanger type blast cleaning systems are versatile and reliable, and provide effective and economical blast cleaning of a wide variety of component sizes and complexities. They are ideal for foundry and forge applications, including cast, forge or hardened parts.

#### Applications

- Desanding, decoring and surface finishing of iron, steel and light metal castings, including parts susceptible to breakage and impact damage
- Descaling of forgings, hardened or heat treated steel parts
- Surface preparation before coating or other applications

#### Features

- Heavy duty, compact and rugged design
- Long life, due to use of highly wear-resistant materials
- High blasting capacity and efficiency
- High sand separation capacity with combined magnetic and air-wash separation
- Economical abrasive consumption, reliable cleaning and dust collection
- Easy integration into existing production lines
- High operational safety
- Low maintenance, and maintenance-friendly design (easy access to maintenance areas, external bearings, easily replaceable wear parts)

#### Design options:

##### A solution tailored to your needs

The HTS series comprises machines for reversible or through-feed operation in different sizes, and can be equipped with 2, 3 or 4 blast wheels.

#### Main machine components

- Sturdy, welded housing structure in manganese steel reinforced with profiles
- Additional bolted and suspended manganese wear plates in the hot area
- Heavy-duty, direct drive blast wheels
- Lower vibrating conveyor to separate gating or feeder parts and burrs from abrasive media

## Versatile, sturdy and efficient



Hanger type machines are available in a wide range of designs and sizes.



- Abrasive cleaning and separation using combined magnetic / air-wash separators
- Overhead monorail in a variety of configurations

#### Options

- Rotating scalping drum
- Increased blast wheel power
- Frequency converters on blast wheels
- Frequency converter on hook rotation
- Pitless arrangement (no foundation pit)
- Abrasive replenisher
- Rotary cell on dust collector
- Heavy hook load up to 1.5 tons
- Single track or double Y-track conveyor
- Automatic lifting hoists
- Closed loop conveyor (pass-through)

Machine parts (including front wall, floor and roof) directly exposed to the blast stream and subject to increased wear are protected by replaceable manganese steel liners.

The unique blast wheel arrangement optimises shot coverage on all surfaces of components, even on undercut walls and areas. In addition to multiple blast positions, this reduces blasting time greatly and delivers optimum cleaning performance.

## Overhead monorail systems



Hanger type solution with monorail for shot peening of stabilizers

## Complete flexibility



Customised monorail with switch points - hanger type machines solve blast cleaning and transport tasks at the same time.



### Complete flexibility

The flexibility of overhead monorail transport offers a variety of possibilities for optimum material flow and contributes to a considerable reduction of finishing costs. Monorail systems solve for blast cleaning and handling problems, fitting seamlessly into a production line. The transport hanger is loaded with components outside the machine and then moves into the shot blast cabin where all surfaces of the workpieces are treated in one passage.

Part handling is done in reversible or through-feed operation depending on requirements. Within the blasting zone the hanger is rotated and moved in different positions by a drive unit. This mode of operation allows blasting from different angles thus avoiding blast shadows.

### Standard hanger systems

The shape and design of the hangers depends on the parts to be cleaned and the task to be performed. Options include:

#### Manually actuated hangers

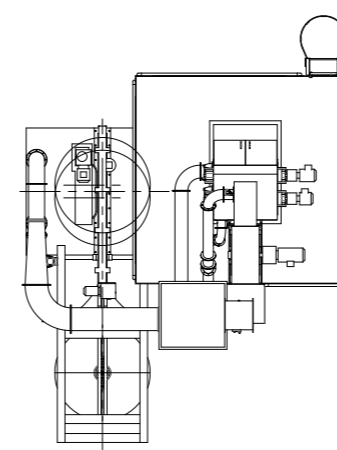
- For small series and unit weights of up to 750 kg (optional 1500 kg)
- Used on single track or Y shaped conveyor solutions

#### Automatic driven hanger options

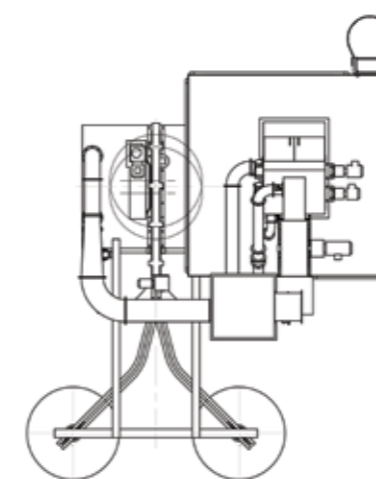
- Self driving hook, on single track solution, with electric lifting hoist option, 1.5 t load
- Double self driving hooks, on Y shaped track, with optional electric lifting hoists, 1.5 t load
- Closed loop conveyor, with automatic chain drive and 6 hooks on basic version, each with 1.5 t load

Pre-programmable drive mechanisms roll on a carrying rail with power supply and have individual drive units. Loading and unloading areas can be adapted to suit requirements. To control the transport direction the hangers travel in a rail system with switch points and positioning systems and with lifting and lowering elements integrated into the overall monorail system.

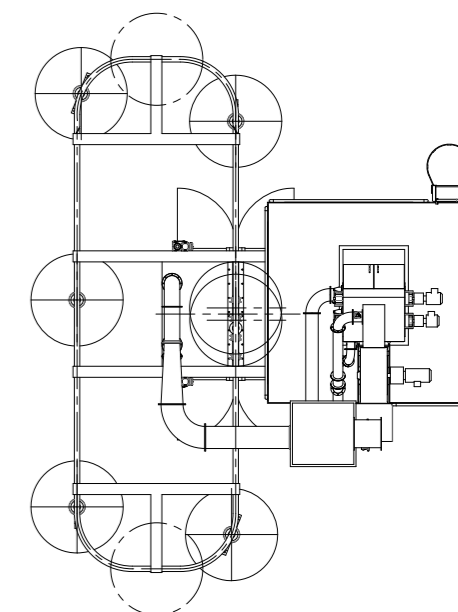
### Overhead monorail systems



1 Straight (1 hook)

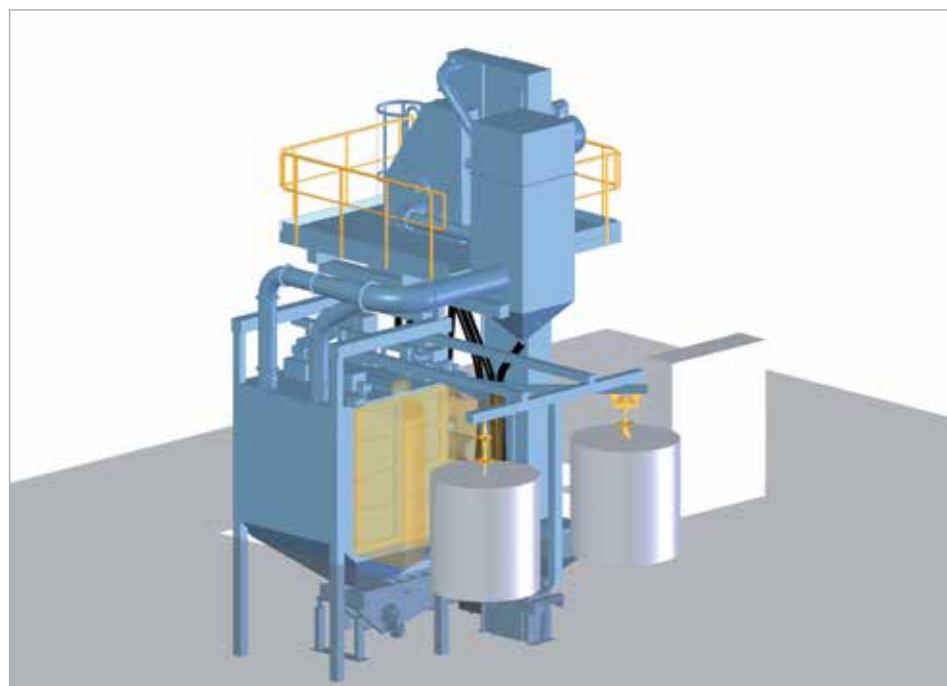


2 Y-shape



3 Oval for continuous operation

## Efficient blast wheels, efficient cleaning



### The blast wheels: Highly efficient and precise

Wheelabrator blast wheels are known for high capacity and maximum energy efficiency. They are available in different sizes to meet individual requirements. Due to the reversibility of the blast wheel rotation, the range of applications can be considerably extended. The throwing power of the wheels and shot impact are fine-tuned to suit specific applications and to ensure optimal energy efficiency. The abrasive is mechanically pre-accelerated and delivered to the blast wheel in a continuous stream, fully utilizing the drive power of the motors to achieve the best blast cleaning effect.

The careful arrangement of the blast wheels plus the ability to adjust the throwing angle of the abrasive, assure that workpieces are always blast cleaned in the hot spot. Machine components within the throwing range of the blast wheels are made of highly wear-resistant material to avoid excessive wear.

### Efficient cleaning of abrasive for perfectly clean castings

Clean workpieces are reliant on clean abrasive. Abrasive that has been contaminated by moulding, core sand or scale will considerably reduce the cleaning capacity of any shot blast machine. It also increases wear and causes deposit built-up on the workpieces. Sand, scale, heavy dust, fines and undersized abrasive have to be effectively removed. Taking the type and possible degree of impurities into account, Wheelabrator uses proven magnetic separators with final pneumatic cleaning for heavily contaminated abrasive (generated in combined shot blasting, decorating, and desanding plants). The dust produced is completely separated using appropriate filters. Continuous dust collection assures an efficient and environmentally responsible operation and perfect functioning of the abrasive separators.



Hanger type blast cleaning machines meet the requirements of European production standards and are CE certified. They stand for long-lasting, manufacturing quality and provide operational reliability for many years, even in demanding service conditions.

## Technical Data

Machine type		HTS-2-11(15) 1112	HTS-2-11(15) 1315	HTS-3-15(22) 1516	HTS-3-15(22) 1521	HTS-4-15(22) 1521
Envelope circle Ø	mm	1100	1300	1500	1500	1500
Hanger height	mm	1250	1500	1600	2100	2100
Max hook load	kg	1500	1500	1500	1500	1500
Available blast positions		1 – 3	1 – 3	1 – 3	1 – 3	1 – 3
Blast wheels		2	2	3	3	4
Wheel power	kW	11 (15)	11 (15)	15 (22)	15 (22)	15 (22)
Total shot flow	kg / min	250 (380)	250 (380)	570 (900)	570 (900)	760 (1200)
Total installed power	kW	30 (38)	31 (39)	57 (78)	57 (78)	72 (100)
Ventilation requirement	m³/min	6400	8100	10000	11500	12200
Dimensions (length x width)	mm	4260 x 5050	4870 x 5250	5150 x 5250	5150 x 5250	5150 x 5250
Total height (from floor)	mm	5970	6200	6305	6805	6805
Pit depth	mm	1400	1600	1725	1725	1725
Total height (pitless execution)	mm	7370	7800	8030	8530	8530
<b>Scope of supply</b>						
Lower vibrating sieve					Included	
Blast wheel flaps					Included	
Upper shot separation					Magnetic (2 drums) + airwash section	
Cabinet door					Electric	
Single track conveyor / 1 hook					Single track / 1 hook	
Wear protection					Manganese steel	
Internal lining					Manganese wear plates, 12 mm, bolted / suspended	
Safety					CE standard	
<b>Options</b>						
Rotating scalping drum						✓
Blast wheel power upgrade						✓
Frequency converters for blast wheels						✓
Frequency converters for hook rotation						✓
Pitless version						✓
Cartridge dust collector plus 5 m piping						✓
Rotary cell on dust hopper						✓
Increased hook load 1500 kg (single hook)						✓
Y-shaped conveyor / 2 hooks						✓
Closed loop monorail / 6 hooks						✓
Electric lifting hoist (each single hook)						✓
Replenisher						✓