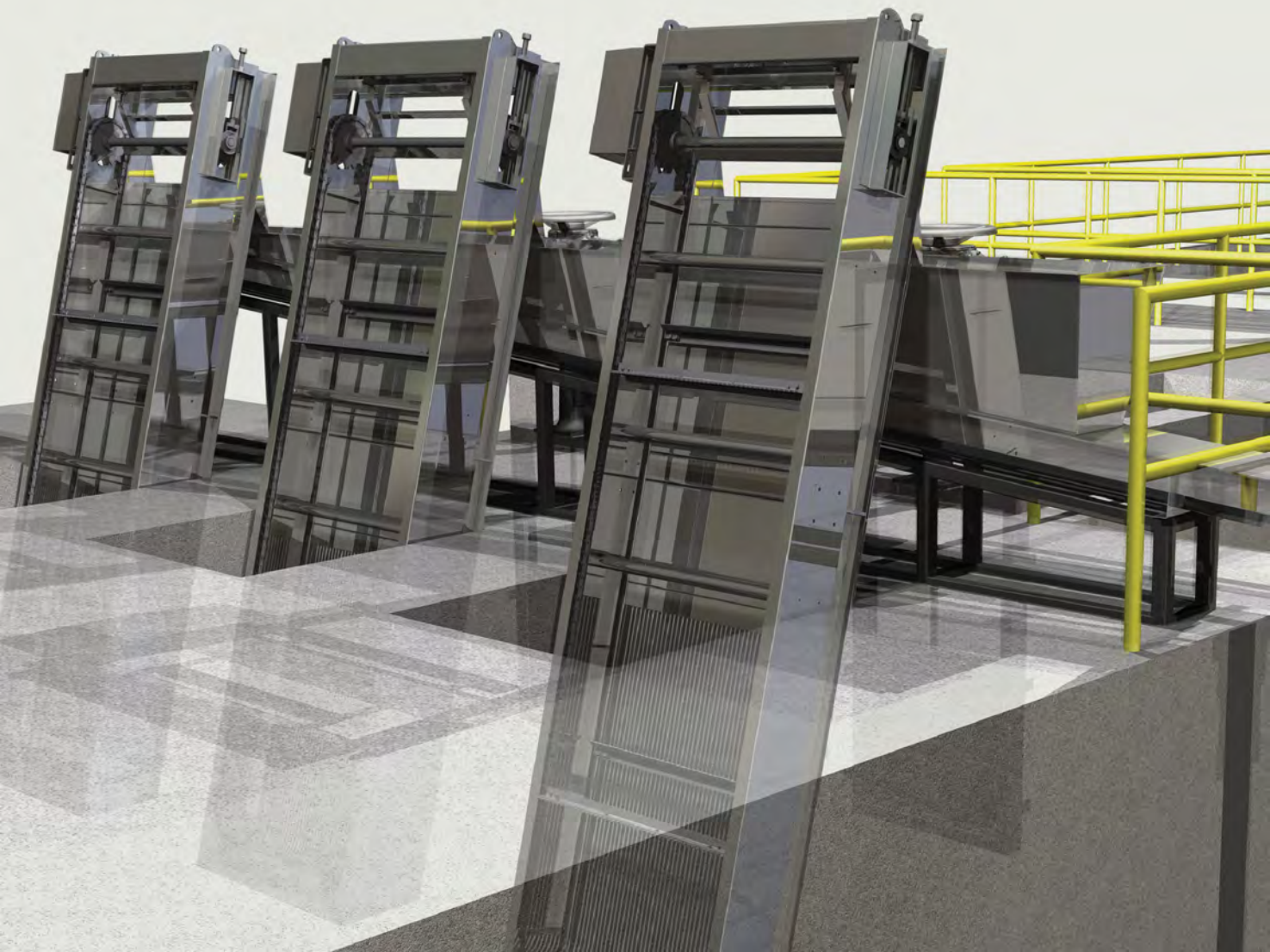


BLUE WAVE STAINLESS STEEL MECHANICAL BAR SCREEN

CATALOGUE

Blue Wave 



INTRODUCTION

Blue wave mechanical screen are developed to suit in the toughest of applications including deep channels, high flows, combined sewers and large debris. Thus, our design engineers make use of finest quality material in the manufacturing process to offer the systems help in retaining fine and coarse solids that are found in waste water. With our unique design, Blue wave mechanical screen can ensure protection appurtenances from clogging and damage from longer time being.

INNOVATIVE DESIGN

Blue wave mechanical screen design using with latest CAD software to drafting, creating, validation and optimization of mechanical screen design. In final part of designing we apply FEA (Finite element analysis) and CFD (computational fluid dynamics) methods to simulate design to ensure all our mechanical screen design in precision, error function, durable and working as intended.

RELIABILITY AND ROBUST

Blue wave mechanical screen are validated through our digital modeling for structural rigidity, drag reduction torque optimization and balancing to create high efficiency in operation and maintenance. Ease of use and ease of maintenance is especially fundamental to plant operator for a long lasting product of life.

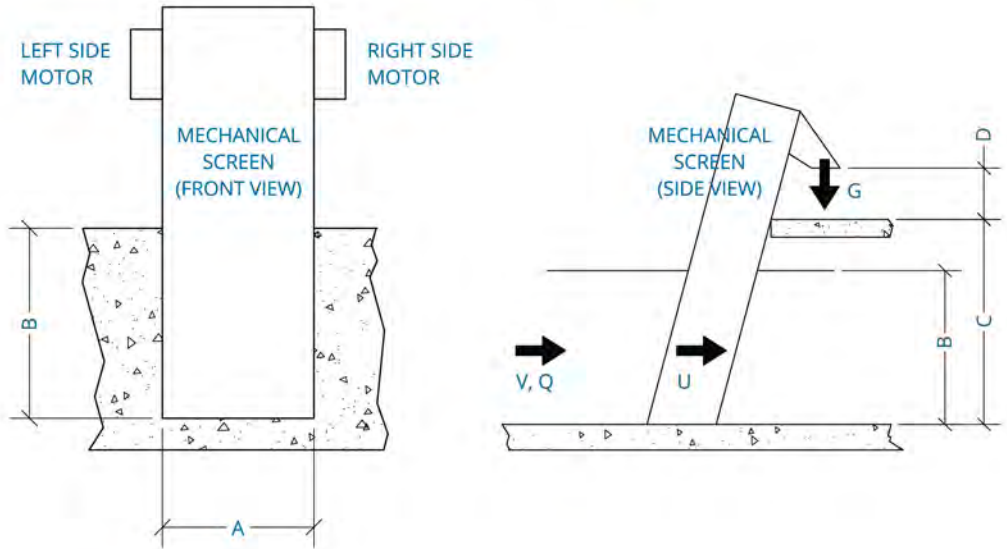
COST SAVING

Blue wave mechanical screen were design with the idea of less hassle and simple installation to achieved minimal cost to carry works of handling, transportation and installations.

AFTER SALES SERVICES AND TRAINING

Our support team will conduct a briefing to introduce the critical parts, lubrication parts and simple trouble shooting. To ensure continue success in operation, it still require consistent but simple maintenance to allow great performance life time. Every Blue wave mechanical screen will provide O&M handbook to each customer for basic maintenance and handling.





CIVIL INFORMATION

CHANNEL WIDTH, A : _____ mm
 CHANNEL HEIGHT, B : _____ mm
 If platform is not same level with channel height, please input
 PLATFORM DEPTH, C : _____ mm
 Please select motor position to prevent any obstructions at site
 MOTOR POSITION : LEFT / RIGHT
 DISCHARGE HEIGHT, D : _____ mm

PERFORMANCE INFORMATION

SCREEN TYPE : FINE / COARSE

Typical BW Mechanical Screen spacing, FINE (12mm)
 & COARSE (25mm), otherwise please input

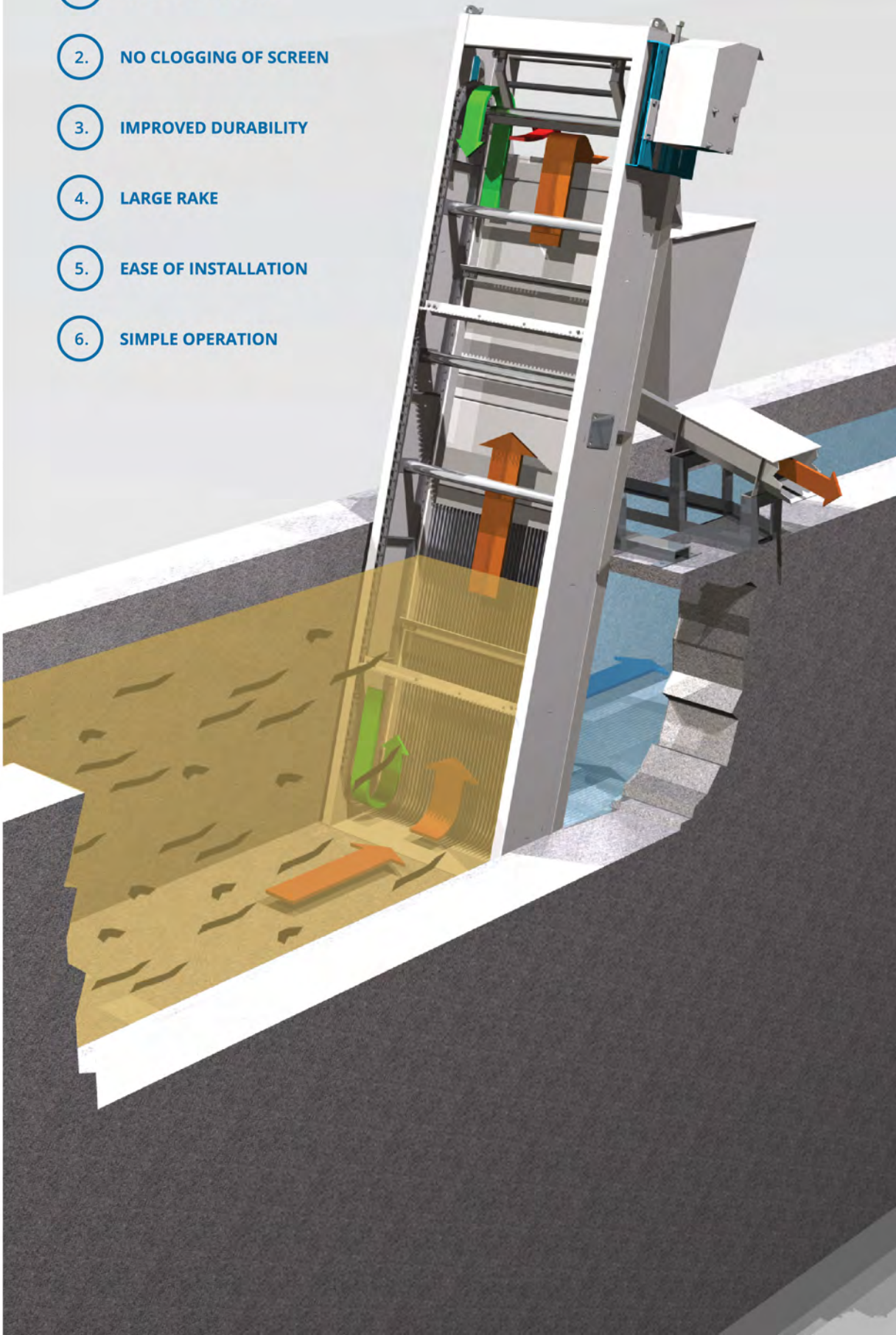
CUSTOM SPACING : _____ mm
 INCOMING SPEED, V : _____ m/s
 INCOMING FLOWRATE, Q : _____ m3/hr
 THROUGH SCREEN SPEED, U : _____ m/s
 DISCHARGE SCREENINGS, G : _____ kg/hr
 OTHER REQUIREMENTS : _____

CUSTOMER INFORMATION

COMPANY : _____ TEL : _____
 CONTACT PERSON : _____ FAX : _____
 E-MAIL : _____

ADVANTAGE

1. NO MAINTENANCE
2. NO CLOGGING OF SCREEN
3. IMPROVED DURABILITY
4. LARGE RAKE
5. EASE OF INSTALLATION
6. SIMPLE OPERATION



NO MAINTENANCE

The endless chain on which the rakes are fitted travels smoothly along the guide rails. As sprocket wheel and bearings are not used in the lower part of the frame, no maintenance of the system is necessary even when there is much mud or sludge under the water

LARGE RAKE

The large rakes fitted on the endless chain will lift up the debris caught on the screen

NO CLOGGING OF SCREEN

Improved over conventional type of bar screen whereas an improved bar profile is used to prevent clogging. The "key hole" shape has a round cross section allows the rake finger to scrape easily between 2 bars and provide the bar screen less prone to clog

EASE OF INSTALLATION

It is easy to install the screen in new and existing water/ wastewater channel. Installation without channel recesses are possible.

IMPROVED DURABILITY

The rake chain, guide rail and other parts directly exposed to water are made of stainless steel for high durability

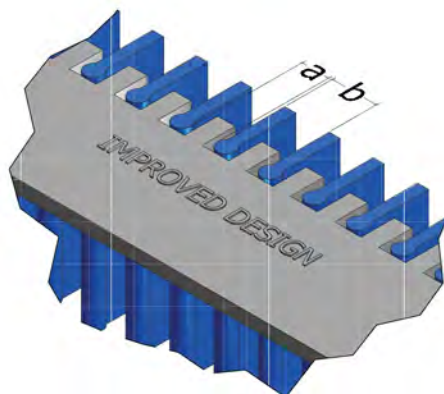
SIMPLE OPERATION

The screen can be operated automatically either with timer control or combination of timer and water level controls.

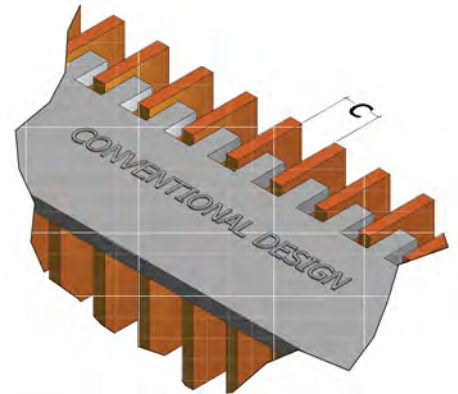
COMPARISON BETWEEN BW BAR SCREEN

PROFILE WITH CONVENTIONAL SCREEN PROFILE

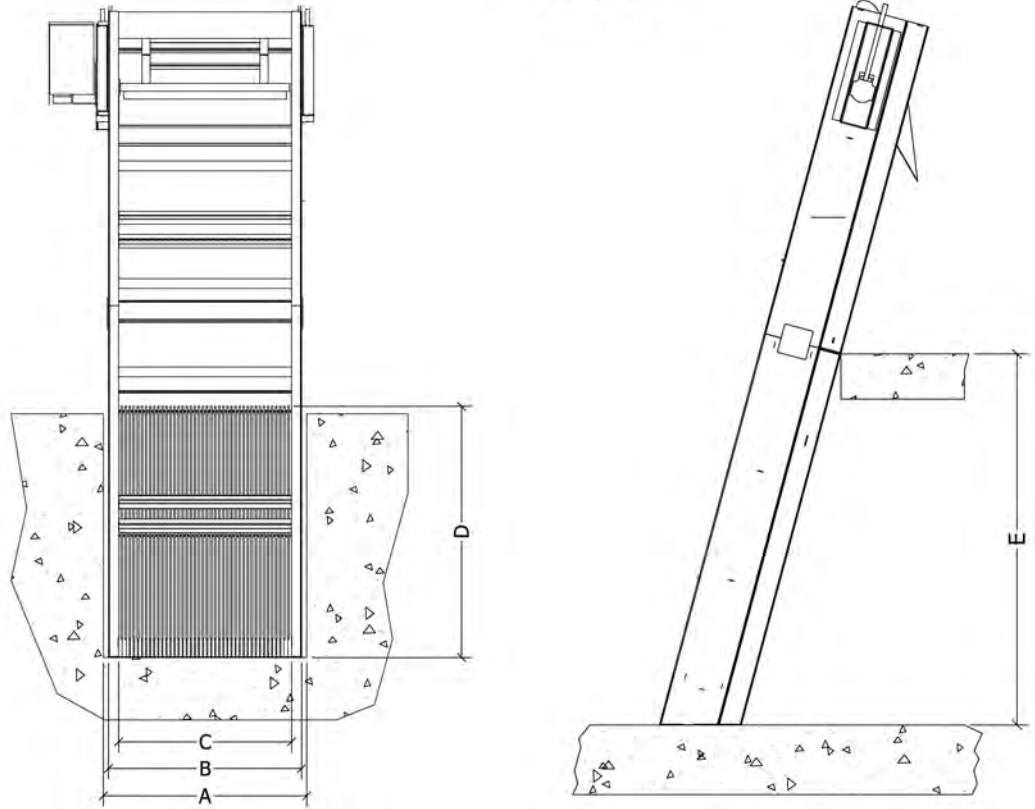
BW bar screen profile, $a < b$



BW bar screen profile, $a < b$



DIMENSION



SELECTION OF STANDARD SIZE BW MECHANICAL SCREEN

CHANNEL WIDTH A	BODY WIDTH B	SCREEN WIDTH C	SCREEN HEIGHT D	PLATFORM DEPTH E	MOTOR RATING
mm	mm	mm	mm	mm	kW
500	450	350	800	800	0.2
600	550	450	↓	↓	↓
700	650	550			
800	750	650			
900	850	750			
1000	950	850			
1100	1050	950			
1200	1150	1050			
1300	1250	1150			
1400	1350	1250			
1500	1450	1350			
1600	1550	1450			
1700	1650	1550			
1800	1750	1650			
1900	1850	1750			
2000	1950	1850	2000	10000	2.2

NOTE :

1. Screen height sizing is subjected by incoming flow rate and channel height.
2. Item D & Motor Rating, please consult with our technical team for proper selection.
3. The above dimensions are our standard range of products and custom size may be supplied as well upon request.

GENERAL ARRANGEMENT

- 1. DRIVE UNIT
- 2. TAKE-UP BEARING
- 3. WIPER
- 4. DISCHARGE CHUTE
- 5. SPROCKET
- 6. CHAIN
- 7. BAR SCREEN
- 8. RAKE



In general, all BW mechanical screen have the following components and assembly

SPARE PARTS

There are no recommended spare parts for domestic units. However, export units have the following list:

SPARE PART FOR OVERSEA UNIT		
#	SPARE PART ITEMS	QTY
1	RAKE ASSEMBLY	2 unit
2	BEARING	2 unit
3	CHAIN	10 ft
4	CHAIN CONNECTOR	4 unit
5	TORQUE LIMITER	1 unit

