

# MS-MGS SERIES

## INCLINED VIBRATING SCREENS

Economical Plants with Exceptional Quality and High Screening Efficiency

**MEKA**  
CRUSHING & SCREENING

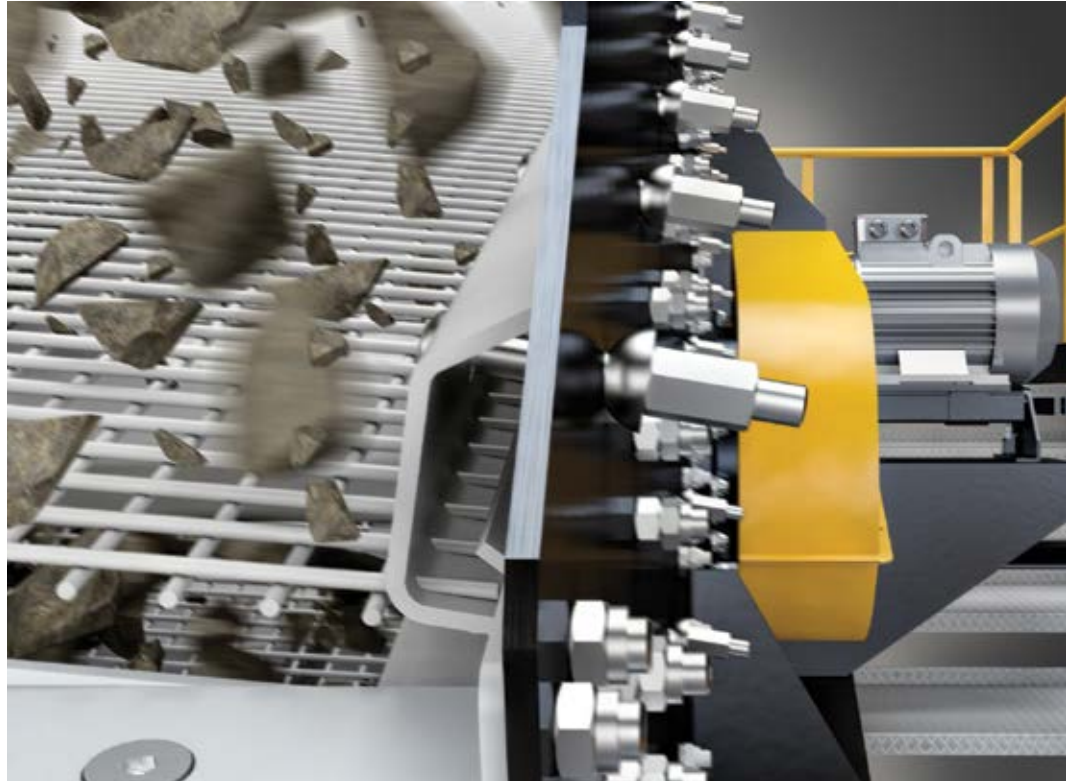
[www.mekacrushers.com](http://www.mekacrushers.com)





# THE HEART OF CRUSHING AND SCREENING PLANTS

## **MEKA MS-MGS SERIES INCLINED VIBRATING SCREENS**



Although the crushing process is an important part in a plant, the screening quality and precision has the highest influence on the overall efficiency of all equipment. As the heart of every crushing and screening plant, a vibrating screen is used for classifying material by size in every stage of the process from feeding to the product separation. The different sizes of materials mixing with each other and an increase in returning material amount caused by low screening efficiency equals low profitability for every crushing and screening plant.

Developed after long-term analysis and research, MEKA MS and MGS Series inclined vibrating screens are designed in a variety of types with specific vibration features for a wide range of types and sizes of materials, easily offering the most efficient solutions to our customers.

MEKA MS and MGS Series inclined vibrating screens combine high quality components with reliable design and productive efficiency to give our customers trouble-free, robust solutions for replacing old vibrating screens, adding additional production lines to their sites, or in new crushing and screening plants.



# KEY ADVANTAGES

## OF MS AND MGS SERIES INCLINED SCREENS

More than 40 experienced engineers in the MEKA R&D department work constantly to improve the design of vibrating screens to make them operate for longer periods with less maintenance in the worst site conditions. MEKA MS and MGS Series inclined vibrating screens are equipped with the latest features for productivity and safety. Every detail has been taken into consideration and the equipment is built of highest quality components. MEKA vibrating screens are designed to offer maximum efficiency and profitability.







## S690 QL STEEL PLAT SCREEN BODY IS RESISTANT TO VIBRATION

Every MS and MGS series vibrating screen is made of high-tensile, heat-treated S690 QL side plates that are resistant to vibration, allowing customers to use them long-term with the same durability as during first use. Because of this, our innovative design prevents fractures that commonly occur on other screens, particularly around the drive system. Such fractures make the screen unusable by expanding on the side plate.



## NO WELDS REQUIRED FOR THIS VIBRATION- RESISTANT FRAME

Instead of more fragile welds, frames are huck bolted to increase vibration resistance. Over the course of the screen's life, our customers experience equipment that is both extremely durable and highly productive.

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## SELF-TENSIONED MOTOR BASE

In MS and MGS series vibrating screens, a self-tensioned motor base is a standard feature that protects both the electric motor and drive belts against tension caused by vibrations, meaning lower maintenance duration and lower costs for our customers.



## SPECIAL DESIGN SCREEN FRAME

The key to the screening process is to distribute the vibration equally over the entire screen body. Special frame and side plate junctions contribute to our screens' durability. The vibration created on the screen body is delivered completely to the material to provide highest productivity. The durability of the screen body and the frame on which screen meshes are fitted contribute to the stability of the mesh tensioners. Moreover, on MS and MGS Series Vibrating Screens, screen meshes are composed of three separate parts so that only the worn part needs to be replaced when any possible deformation occurs on meshes—that means lower wear part and inventory cost for our customers.





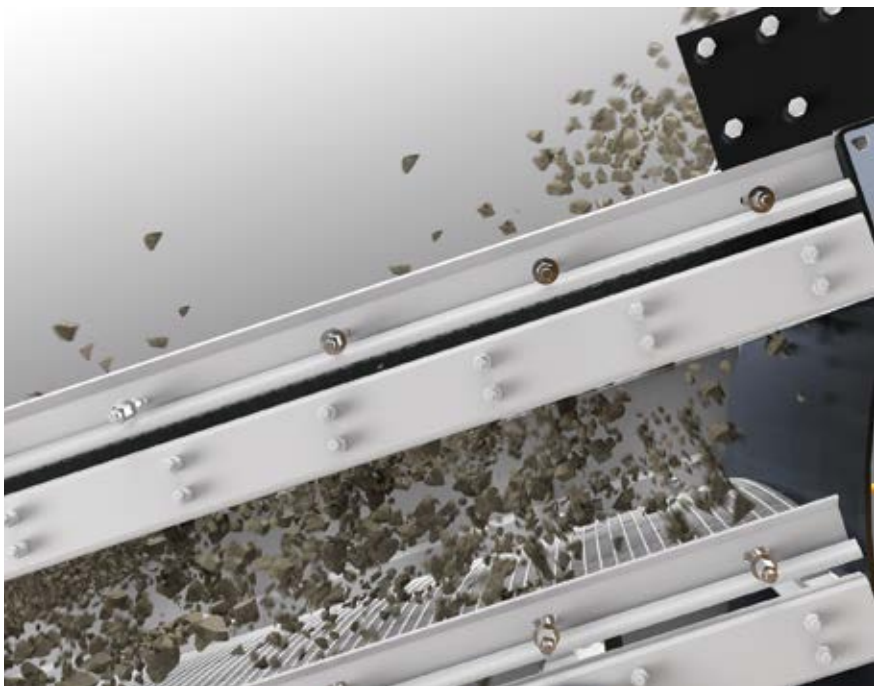
## HUCK-BOLTED ASSEMBLY SIDE PLATES

Screen bodies with conventional bolted assemblies create extra labor costs, increase safety risks, and reduce overall profitability because of the rupture of bolts caused by loosening nuts. Meka's MS and MGS series vibrating screens with huck-bolted assembly don't require maintenance for nuts and bolts, so they help ensure workplace safety. In Turkey, MEKA is the only manufacturer offering huck-bolted assembled vibrating screens as standard.

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## MAXIMUM UTILIZATION OF SCREEN MESH SURFACE AREA

Special feeding chute design on MEKA MS and MGS Series vibrating screens provides maximum utilization of surface area. The distance between the screen mesh and feeding chute is optimized to make screening process begin from top of the screen. That means maximum utilization of the screening area. On the other hand, the curved screening surface ensures that the material spreads all over the screen. Consequently, MEKA MS and MGS series vibrating screens contribute to overall capacity of the plant more than traditional vibrating screens (even those with a larger screening surface).



## PROVEN FINAL SIZING

MEKA vibrating screens are equipped with high quality components enabling an optimized circular movement with the highest efficiency for proven final sizing quality.







## EASY MAINTENANCE THANKS TO OUR MOVABLE FRONT CHUTE WITH SLIDER

Screen mesh is one of the most frequently replaced parts on vibrating screens. To simplify the maintenance process and reduce downtime, we designed front chutes with sliders for vibrating screens bigger than 8 m. so the front chute can be moved without using any lifting equipment. This provides easy access to the screen for maintenance in just a few minutes.

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## RUBBER SUSPENSIONS

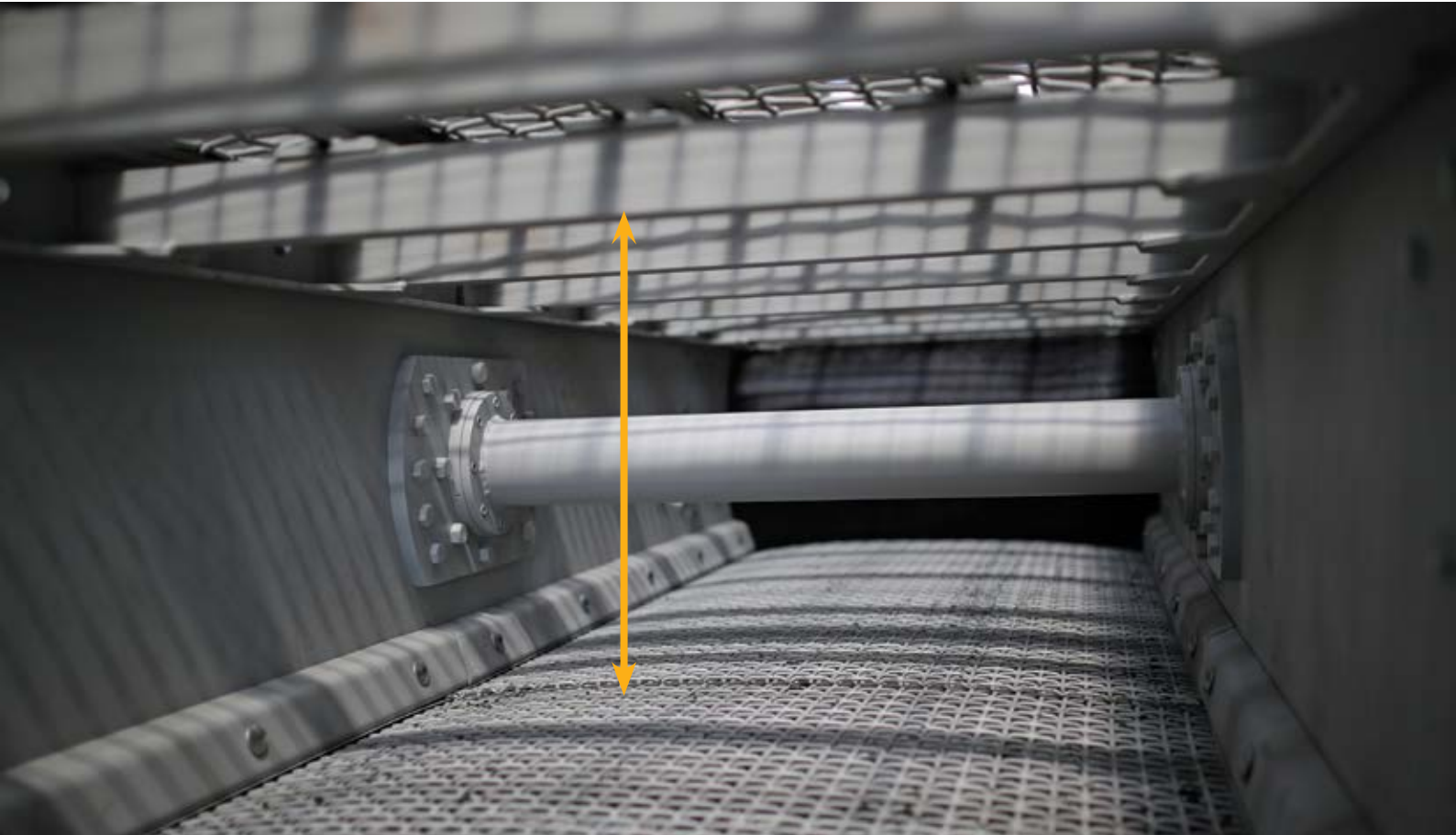
Rubber suspensions provide smoother and safer shut down and start-up, and that means longer component and equipment life.

## EASILY ROTATABLE DISCHARGE CHUTES

Discharge chutes can be easily rotated without applying any welding process or extension part. This provides not only ease of maintenance but also a great flexibility when the revisions are made to the plant during the first installation and again when moving the plant to another site.







## **LARGE SPACE BETWEEN DECKS FOR EASY MAINTENANCE**

The space between the decks of MEKA's inclined screens provides easy access during servicing. Therefore, the time spent replacing screen mesh is reduced, meaning less down-time.



## **LATEST TECHNOLOGY MANUFACTURING SYSTEMS**

Side plates of MEKA MS and MGS Screens are manufactured completely with CNC controlled plasma cutting and punching systems to remove fatigue stress which can occur during punching process. Thus, S690 QL side plates keep their durability and can be processed precisely and manufactured efficiently.



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## **MS and MGS SERIES SCREENS**

# FEATURES CONTRIBUTING TO PLANT EFFICIENCY

MEKA MS and MGS Series Screens are equipped with a variety of features enabling high efficiency and ensuring various operational advantages. These advantages include reduced downtime, maintenance and servicing.

## **MODULAR-TYPE DRIVE SYSTEM**

Meka MS and MGS series screens are equipped with a modular drive system for easy servicing. The two-piece drive-shaft can be detached easily one by one, reducing servicing duration. Additionally, the Cardan shaft connecting the modular shafts is superior to traditional, heavier, single-piece shafts in terms of easy maintenance.

## **DRIVE SYSTEM WITH DOUBLE BEARING**

The drive system has four bearings, with two on each side of the drive. This robust structure, with special SKF bearings, is resistant to vibration, increases screen lifetime, and provides flexibility to adjust the amplitude. An independent vibration mechanism is connected to the center of screen body side plate. Therefore, the vibration energy can be delivered equally all over the screen body by counterweights positioned on the inner and outer sides of the system.







## HEAVY DUTY VIBRATING SCREENS

Primary output material may require screening in accordance with the installation plan. In these cases, standard vibrating screens may not meet required capacity and the long-term servicing costs may be too expensive. But MEKA heavy duty screens' top decks are equipped with grizzly or hardox perforated trays to avoid damage caused by big size materials. The springs on heavy duty screens are more durable as well.



## VIBRATING SCREENS WITH WASHING SYSTEM

MEKA vibrating screens can be supplied with washing systems. Washing systems are utilized for cleaning the material with high-pressure water, a process that can be applied only to the top deck or all decks at the same time. The washing system is assembled independently from the screen body and is not affected by the vibration of screen meaning longer life and higher efficiency.



## MOBILE VIBRATING SCREEN OPTION

MEKA Screens can be supplied both as fixed, steel construction and mobile, wheeled units. Mobile units are designed specifically for projects requiring faster installation and change of location. The crushers can also be adapted to the mobile units. So the crushing and screening plants composed of mobile units require less space and less time for the installation.

## WIDE RANGE OF OPTIONS FOR MEKA MS AND MGS SERIES SCREENS

MEKA emphasizes flexibility in manufacturing specially-designed inclined screens to offer the best solutions for our customer's needs. Designing new product options and creating various unique solutions is the job of our experienced R&D staff.









## PROFITABILITY WITH MEKA VIBRATING SCREENS

As the choice of global companies like Lafarge, Holcim, Cemex, and Heidelberg, MEKA has completed the installation of more than 2000 concrete batching plants and crushing and screening units in more than 65 countries around the world. MEKA products feature world-class quality and are a favorite choice of professionals thanks to their efficiency and competitive prices. Our customers can increase the profitability and efficiency of their plant by choosing MEKA MS Series Vibrating Screens. MEKA will be your true partner ensuring world-class quality and widespread international after-sales support.

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## MS SERIES

# VIBRATING SCREENS

	DIMENSIONS ft	POWER hp	WEIGHT 2 DECKS lbs.	WEIGHT 3 DECKS lbs.	WEIGHT 4 DECKS lbs.
<b>MS 1240</b>	3' 9" x 13' 1"	10	6,800	8,600	9,700
<b>MS 1540</b>	4' 9" x 13' 1"	20	9,200	10,500	11,600
<b>MS 1650</b>	5' 3" x 16' 4"	20	10,500	12,100	14,300
<b>MS 2050</b>	6' 6" x 16' 4"	25	13,200	15,400	18,000
<b>MS 2060</b>	6' 6" x 19' 7"	30	14,500	17,400	19,400
<b>MS 2460</b>	7' 9" x 19' 7"	40	-	18,000	23,100
<b>MS 2563</b>	8' 2" x 20' 7"	50	-	19,900	24,200

## MGS SERIES

# GRIZZLY SCREENS

	DIMENSIONS ft	POWER hp	DECKS	WEIGHT lbs.
<b>MGS 1230</b>	3' 9" x 9' 8"	15	2	6,600
<b>MGS 1430</b>	4' 6" x 9' 8"	20	2	10,300
<b>MGS 1640</b>	5' 3" x 13' 1"	25	2	14,300

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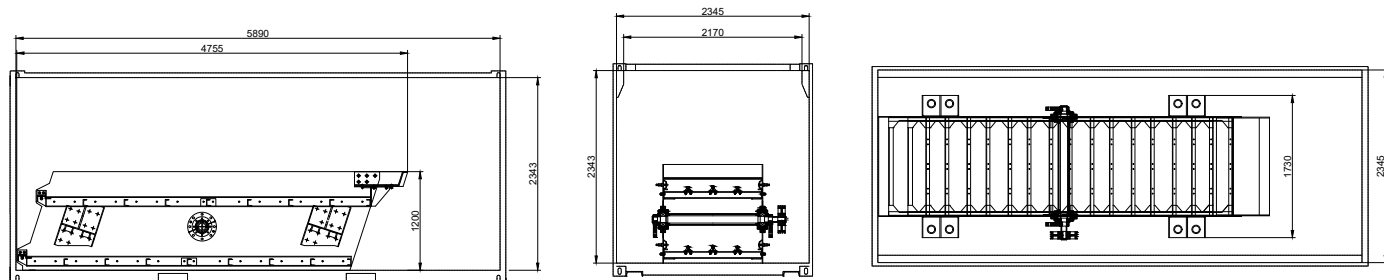
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## MS SERIES VIBRATING SCREENS

# TRANSPORT PLANS

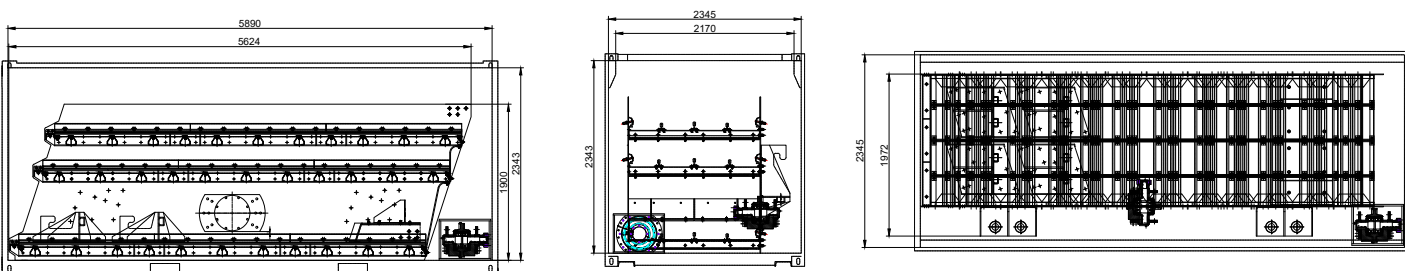
### MS 1240x2

ONE PIECE SHAT DRIVE SYSTEM / OPEN TOP CONTAINER LOADING PLAN



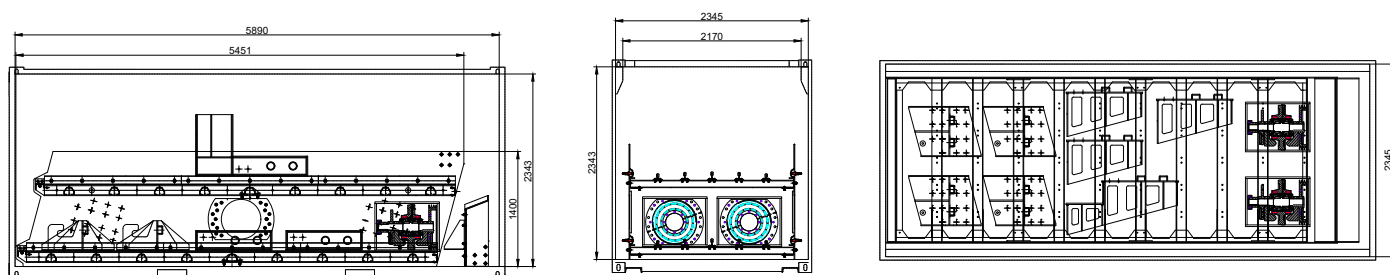
### MS 1650x3

MODULAR DRIVE SYSTEM / OPEN TOP CONTAINER LOADING PLAN



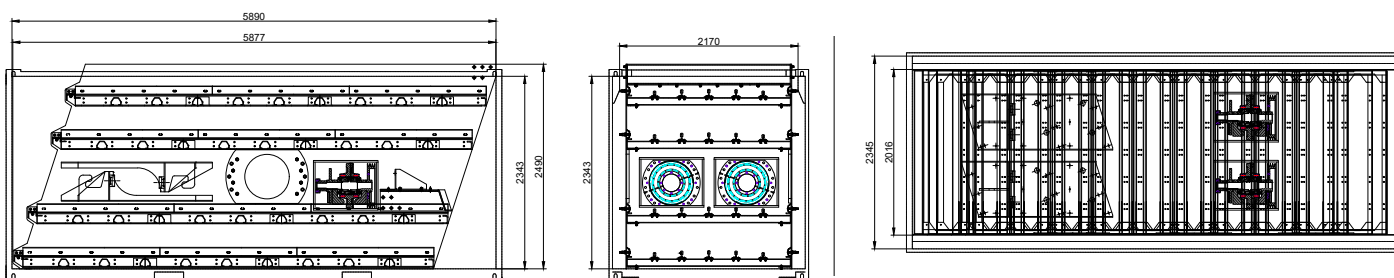
### MS 2050x2

MODULAR DRIVE SYSTEM / OPEN TOP CONTAINER LOADING PLAN



### MS 2050x4

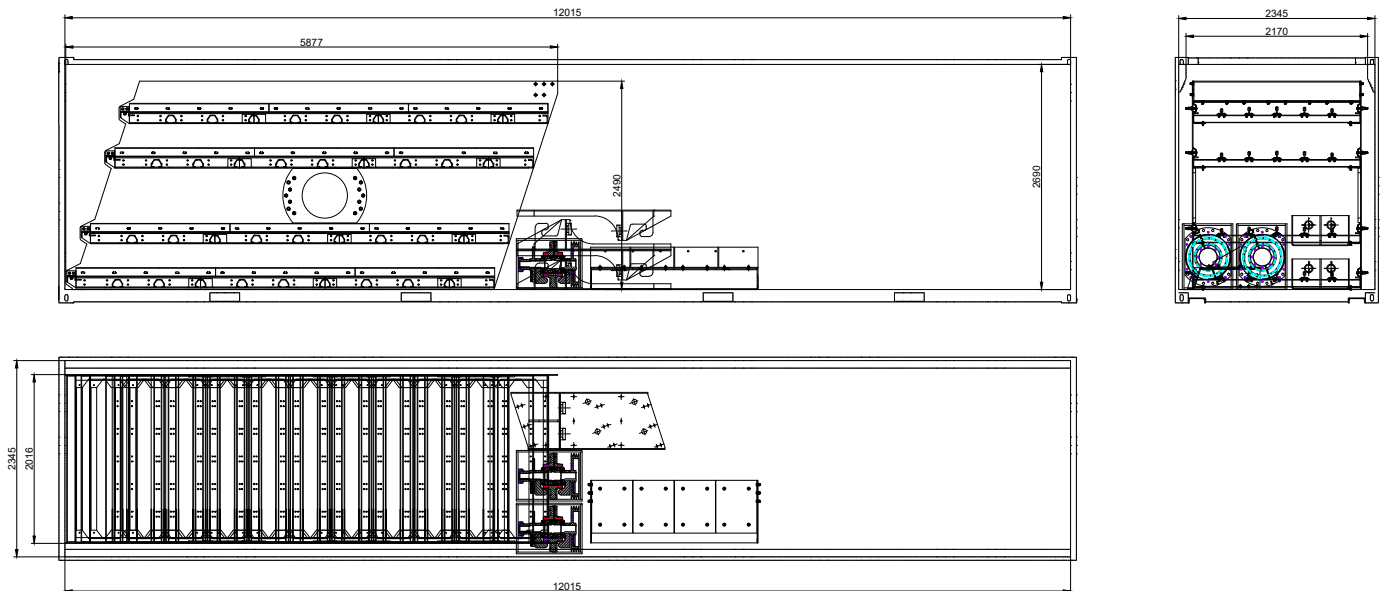
MODULAR DRIVE SYSTEM / OPEN TOP CONTAINER LOADING PLAN





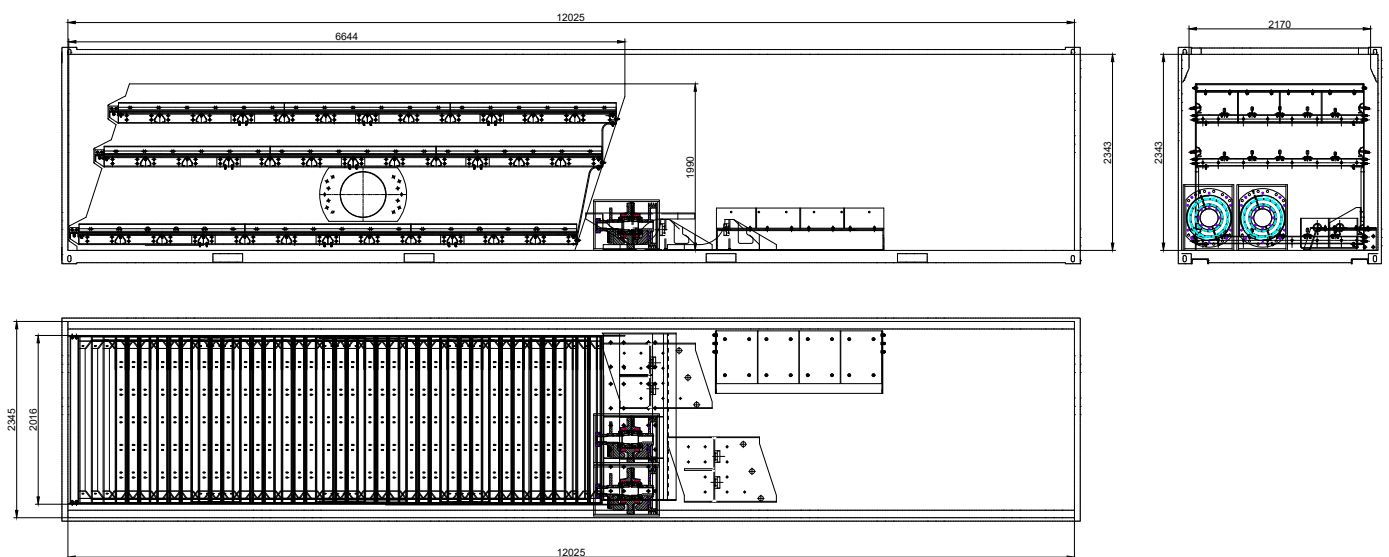
## MS 2050x4

MODULAR DRIVE SYSTEM / HIGH CUBE CONTAINER LOADING PLAN



## MS 2060x3

MODULAR DRIVE SYSTEM / HIGH CUBE CONTAINER LOADING PLAN

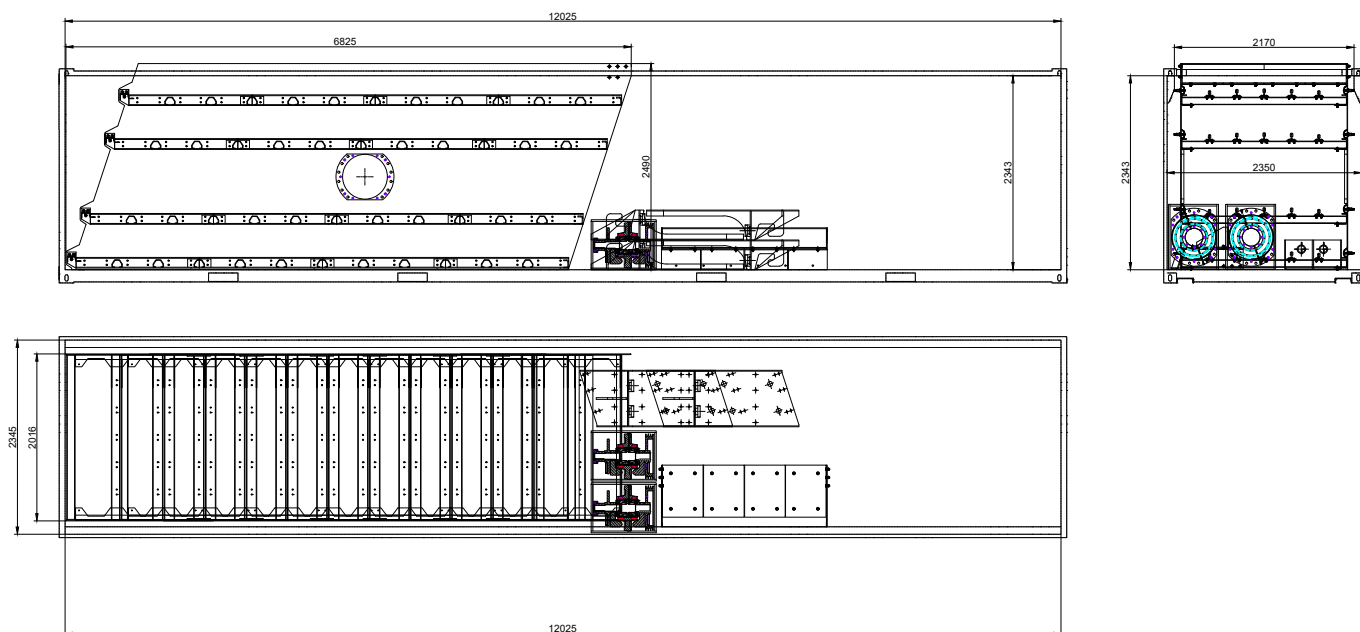


# MS SERIES VIBRATING SCREENS

## TRANSPORT PLANS

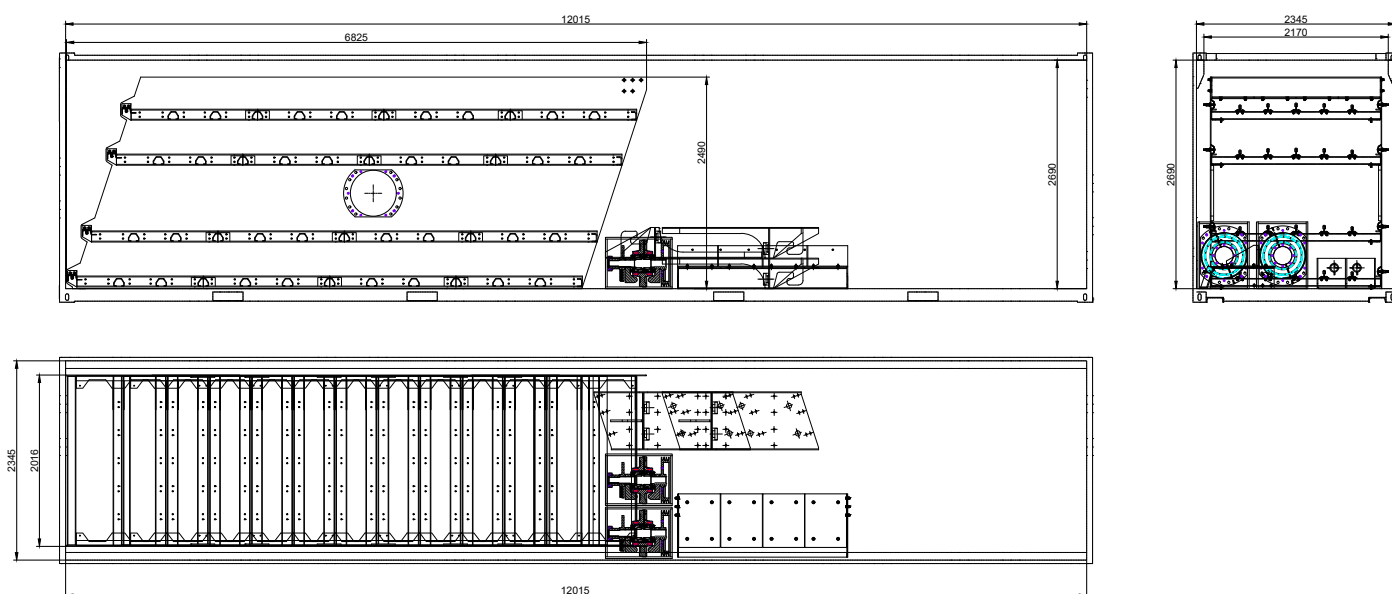
**MS 2060x4**

MODULAR DRIVE SYSTEM / OPEN TOP CONTAINER LOADING PLAN



**MS 2060x4**

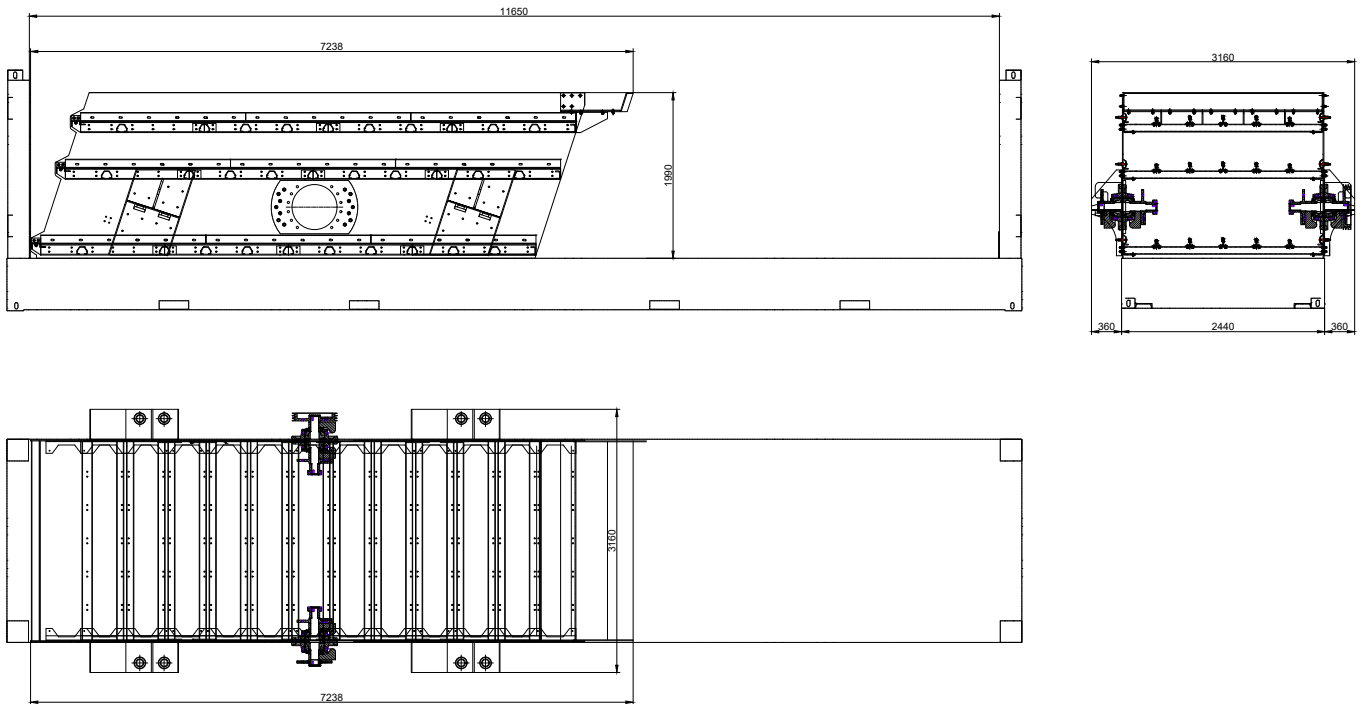
MODULAR DRIVE SYSTEM / HIGH CUBE CONTAINER LOADING PLAN





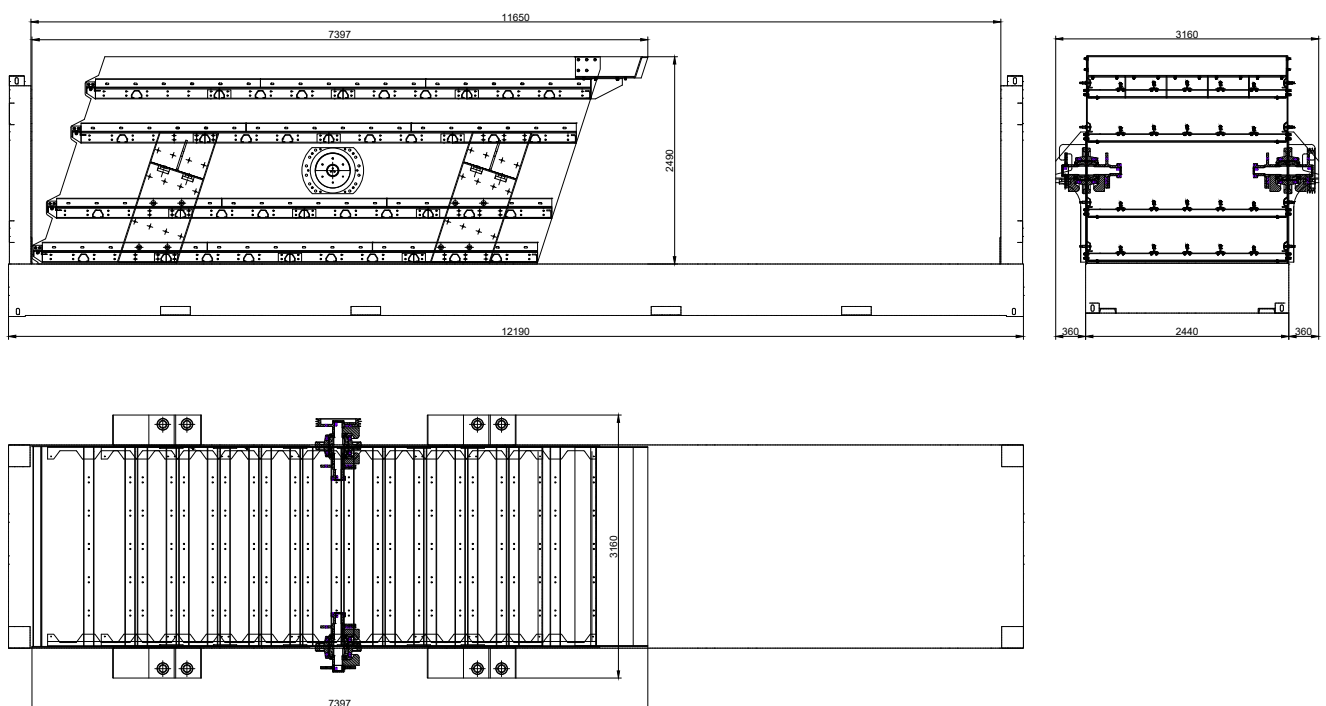
## MS 2460x3

MODULAR DRIVE SYSTEM / FLAT TRUCK CONTAINER LOADING PLAN



## MS 2460x4

MODULAR DRIVE SYSTEM / FLAT TRUCK CONTAINER LOADING PLAN









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