



**NHEXA:  
EFFICIENCY HAS A  
NEW DIMENSION**

**NEXT  
IS NOW**



## **NHEXA 5000 2F / 3F**

Nhexa is the compact, flexible, and efficient screening solution, ideal for treating low to medium waste and recyclable materials. A machine that combines maximum operational efficiency with the precision of the innovative patented Dynamic Disc Screening technology.



**PATENTED TECHNOLOGY**



**Nhexa track version**

# SUPER FLEXIBILITY

- 1** MODULAR SCREENING SURFACE  
ENABLING QUICK AND EASY  
REPLACEMENT OF SECTIONS AND SHAFTS
- 2** HYDRAULIC SIDE  
COVERS OPENING  
FOR EASY MAINTENANCE
- 3** FLEXIBLE CONFIGURATION  
OF DISCHARGE LATERAL  
CONVEYORS
- 4** VARIABLE  
SCREENING DECK  
INCLINATION +/- 5°
- 5** ANTI WRAPPING  
SYSTEM  
FOR OPTIMAL SEPARATION



## PRODUCTIVITY FROM 10 UP TO 50 T/H

Nhexa is capable of screening all types of materials, using minimal space and achieving a productivity level of up to 50 T/H. With a screening surface of 5 meters in length, Nhexa can be configured with 2 or 3 screening fractions and with sections ranging from 15 to 150 mm.

## MAXIMUM ADAPTABILITY

Thanks to the flexible configuration of the discharge conveyors, Nhexa easily adapts to any operational context. Depending on the configuration of the site and operators' needs, the **conveyors for the fine and medium fractions can be positioned on the same side or on opposite sides**, ensuring efficient space management and optimized material flow.

## OPERATIONAL EFFICIENCY

Designed to deliver **high performance with quick and efficient maintenance**, Nhexa features a modular screening surface that allows for **fast section and shafts replacement**, significantly reducing intervention time. To further simplify operations, **hydraulic side covers** open effortlessly, granting easy access to the screening deck

and core components. This facilitates **faster cleaning**, smoother servicing, and **less machine downtime overall**. Compact and mobile, Nhexa's tracked configuration ensures it can be easily maneuvered and positioned-even on difficult terrain or within landfill environments-providing maximum versatility in the field.

## PATENTED TECHNOLOGY

# DYNAMIC DISC SCREENING

### SEPARATION QUALITY

Nhexa is equipped with the **patented Dynamic Disc Screening (DDS)** technology, which uses hexagonal or octagonal flat-profile disc shafts. Thanks to this unique shape, the material **moves along the screening deck while experiencing an up and down movement that effectively separates the waste**.

The **undersized material** falls through the spaces between the discs, while the **oversized material** continues to the end of the deck, resulting in a clean fraction ready for recycling.

For particularly difficult materials, the **patented Hyper Dynamic Disc Screening (HDDS)** technology can also be installed.

### ANTI-WRAPPING SYSTEM

The drive shaft is coated with **free manifolds made of high-resistance material**, which move independently from the shaft's rotation. This system **minimizes the wrapping of long and fibrous parts of the materials**, ensuring optimal separation, significantly **reducing machine downtime**.



### FLEXIBLE SCREENING SIZE

Dynamic Disc Screening allows real time changes to the predetermined screening size (+/- 30%), which can be made by varying the speed of the shafts with the aid of the inverter. **The available screening sizes range from 15 to 150 mm.**

| NHEXA 5000             |                       | 2F                                                                                |  | 3F                                                                                  |           |
|------------------------|-----------------------|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|-----------|
| TYPOLOGY               |                       |  |  |  |           |
| TRANSPORT LENGTH       | MM                    | 9013                                                                              |  | MM                                                                                  | 9013      |
| MAX TRANSPORT WIDTH    | MM                    | 2310                                                                              |  | MM                                                                                  | 2310      |
| TRANSPORT HEIGHT       | MM                    | 2540                                                                              |  | MM                                                                                  | 2540      |
| MAX WORKING LENGTH     | MM                    | 11205                                                                             |  | MM                                                                                  | 11205     |
| WORKING WIDTH          | MM                    | 5200                                                                              |  | MM                                                                                  | 5200-7800 |
| MAX WORKING HEIGHT     | MM                    | 2880                                                                              |  | MM                                                                                  | 2880      |
| MAX WEIGHT             | T                     | 16-18                                                                             |  | T                                                                                   | 16-18     |
| TANK CAPACITY          | LT                    | 100                                                                               |  | LT                                                                                  | 100       |
| HYDRAULIC OIL CAPACITY | LT                    | 230                                                                               |  | LT                                                                                  | 230       |
| SCREENING LENGTH       | MM                    | 5000                                                                              |  | MM                                                                                  | 5000      |
| SCREENING WIDTH        | MM                    | 1200                                                                              |  | MM                                                                                  | 1200      |
| HOPPER LOADING HEIGHT  | MM                    | 2880                                                                              |  | MM                                                                                  | 2880      |
| ENGINE                 | DIESEL DEUTZ TCD 2.2  |                                                                                   |  |                                                                                     |           |
| ENGINE POWER           | 55 kW                 |                                                                                   |  |                                                                                     |           |
| REGULATION             | STAGE 5, TIER 4 FINAL |                                                                                   |  |                                                                                     |           |

