

# HYDROSTATIC SCREENS

PAL PATENT / BREVETTO PAL



## TECHNICAL FEATURES

- Completely innovative, light and modular construction
- System of hydraulic suspension and low friction coefficient for the screen housing support
- Upper and lower balancers with rotating counterweight that provides the structure only with a rotating motion and eliminates any "pitching" problems
- Controlled and adjustable rotary movement of the screen housing
- The machine can have one or two screening stages, each containing up to 4 sieve lines
- From 2 to 5 fractions of sieved material are obtainable
- The sieves are made from stainless steel
- Flexible charging and discharging hoses on the storage hoppers for connection to the related conveyors outside the sieve
- In the sieve holder there are no fire and explosion ignition sources.

## BENEFITS

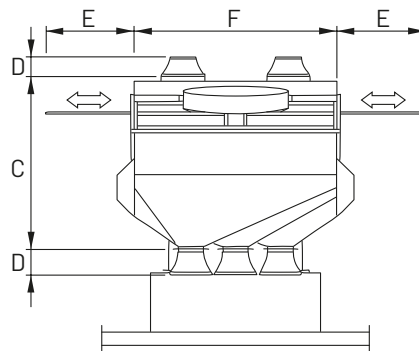
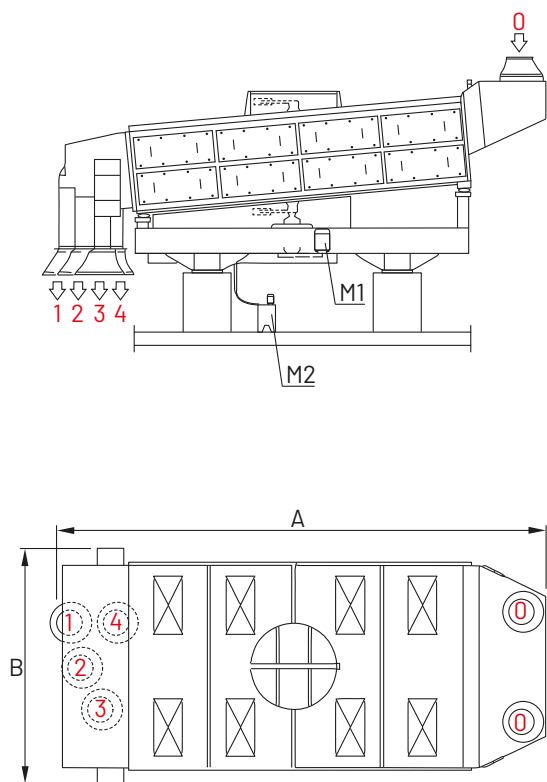
- Unusual or special conveyors are not required
- The hydrostatic suspensions are more durable, efficient and cheaper than traditional systems with elastic parts
- Very low maintenance costs
- Minimum installed power loading
- Light foundations required
- Very high screening performance thanks to the high rotation speed
- Simple and rapid replacement of sieves.

## CARATTERISTICHE TECNICHE

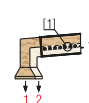
- Costruzione completamente innovativa, leggera e modulare
- Sistema di sospensioni idrostatiche a basso coefficiente d'attrito per il supporto della cassa vagliante
- Equilibratura superiore e inferiore con contro masse rotanti, che conferiscono alla struttura in movimento un moto esclusivamente rotatorio ed eliminano qualsiasi problema di "beccheggio"
- Movimento rotatorio della cassa vagliante ad eccentricità controllata e regolabile
- La macchina può essere dotata di 1 o 2 stadi di vagliatura, contenenti ognuno fino a 4 file di setacci
- Sono ottenibili da 2 a 5 frazioni di materiale vagliato
- I setacci vengono costruiti in acciaio inossidabile
- Manichelle flessibili sulle tramogge di carico e scarico per il collegamento ai relativi trasportatori esterni al vaglio
- Nella cassa vagliante non ci sono sorgenti di innesco proprie di incendi ed esplosioni.

## BENEFICI

- Non sono necessari trasporti eccezionali o speciali
- Le sospensioni idrostatiche sono più durature, efficienti ed economiche dei tradizionali sistemi con elementi elastici
- Bassissimi costi di manutenzione
- Minima potenza installata
- Opere di fondazione leggere
- Altissimo rendimento di vagliatura, grazie alla elevata velocità di rotazione
- Semplice e veloce sostituzione dei setacci.

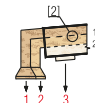


1 Deck



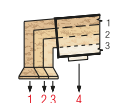
2 Fractions

2 Decks



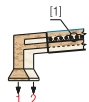
3 Fractions

3 Decks

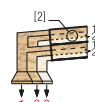


4 Fractions

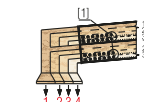
1 Double Deck 2 Double Decks 3 Double Decks 4 Double Decks



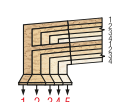
2 Fractions



3 Fractions



4 Fractions



5 Fractions

0 = FEEDING  
1...4 = FRACTIONS

M1 = SCREEN ELECTRIC MOTOR  
M2 = HYDROSTATIC SUSPENSION POWER PACK

| MODEL<br>standard types | NET SCREENING SURFACE<br>FOR EACH FRACTION m <sup>2</sup> | CAPACITY for screens mesh size |                                |                                |
|-------------------------|---|--------------------------------|--------------------------------|--------------------------------|
|                         |   | 1,2x1,2 mm (m <sup>3</sup> /h) | 1,4x1,4 mm (m <sup>3</sup> /h) | 1,6x1,6 mm (m <sup>3</sup> /h) |
| HD 5                    | 5   | 27,5 - 30                      | 30 - 32,5                      | 32,5 - 35                      |
| HD 8                    | 8   | 44 - 48                        | 48 - 52                        | 52 - 56                        |
| HD 16                   | 16  | 88 - 96                        | 96 - 104                       | 104 - 112                      |
| HD 21                   | 21  | 126 - 136                      | 136 - 150                      | 150 - 165                      |
| HD 26                   | 26  | 160 - 170                      | 170 - 185                      | 185 - 200                      |
| HD 32                   | 32  | 195 - 208                      | 208 - 220                      | 220 - 240                      |

| MODEL | STAGE OF SIEVING<br>Nr. | FRACTIONS<br>AVAILABLE<br>Nr. | OVERALL DIMENSIONS mm |      |      |     |      |      | INSTALLED POWER kW |      | WEIGHT<br>APPROX<br>kg |
|-------|-------------------------|-------------------------------|-----------------------|------|------|-----|------|------|--------------------|------|------------------------|
|       |                         |                               | A                     | B    | C    | D   | E    | F    | M1                 | M2   |                        |
| HD 5  | 1                       | 2 - 3                         | 4800                  | 2100 | 1480 | 300 | 1350 | 2000 | 1,5                | -    | 2800                   |
| HD 8  |                         | 2 - 4                         | 6000                  | 2800 | 2060 | 300 | 1300 | 2700 | 2,2                | 0,18 | 4000                   |
| HD 13 |                         | 2 - 4                         | 7770                  | 3700 | 2100 | 300 | 1550 | 3165 | 4                  | 0,18 | 5500                   |
| HD 16 |                         | 2 - 3                         | 7770                  | 4450 | 2100 | 300 | 1900 | 3915 | 4                  | 0,18 | 8500                   |
| HD 16 | 2                       | 2 - 4                         | 6550                  | 3260 | 2550 | 300 | 1300 | 2725 | 4                  | 0,18 | 8500                   |
| HD 21 |                         | 2 - 4 5=SPECIAL               | 7770                  | 3260 | 2700 | 300 | 1300 | 2725 | 5,5                | 0,18 | 9500                   |
| HD 26 |                         | 2 - 4 5=SPECIAL               | 7770                  | 3700 | 2700 | 300 | 1550 | 3165 | 7,5                | 0,18 | 10900                  |
| HD 32 |                         | 3 - 4                         | 7770                  | 4450 | 2700 | 300 | 1900 | 3915 | 7,5                | 0,18 | 12000                  |