

# YDN SERIES

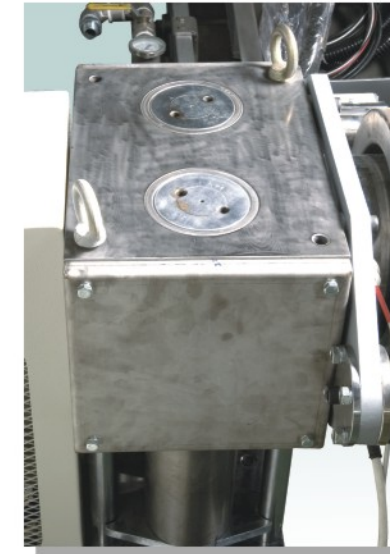
## Direct Combination of Shredder / Extruder / Pelletizer.

- ◆ Applicable materials: HDPE, LDPE, LLDPE, PP, EVA, ABS, PS
- ◆ Suitable for: yarn, film, powder and plastic waste materials.
- ◆ Die-face pelletizer.
- ◆ With venting hole. A vacuum pump is available as optional.
- ◆ Twin hydraulic cylinder type screen changer - allows changing screen without machine shut-down.



### SHREDDING DRUM

Plastic waste material will be fed by the conveyor into the shredder. Shredding is done using high-speed rotating knives.



### TWIN HYDRAULIC CYLINDER TYPE SCREEN CHANGER

When the pressure exceeds the highest preset value, the twin hydraulic cylinder type screen changer allows changing the screen without machine shut-down.



### CENTRIFUGE (OPTIONAL)

A centrifugal device expels water from the pellets.



### NIP-ROLLER (OPTIONAL)

For use when recycling whole rolls of film waste.

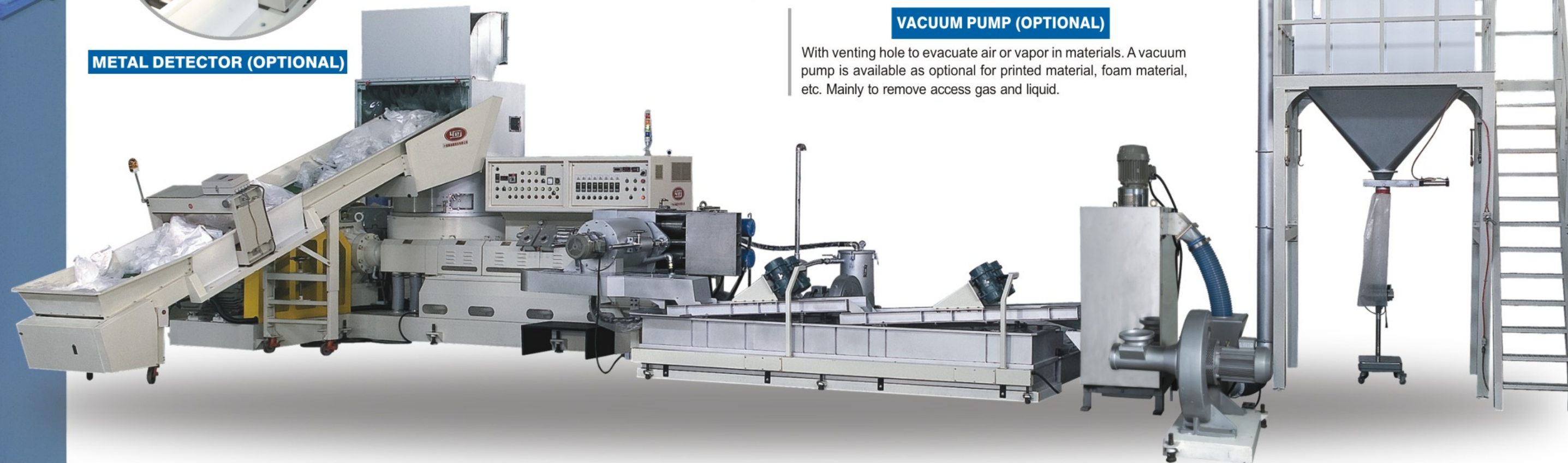


### VACUUM PUMP (OPTIONAL)

With venting hole to evacuate air or vapor in materials. A vacuum pump is available as optional for printed material, foam material, etc. Mainly to remove access gas and liquid.



### METAL DETECTOR (OPTIONAL)



## SPECIFICATIONS

| MODEL# DESCRIPTION                   | YDN-V65   | YDN-V85                                 | YDN-V100                                | YDN-V120                                | YDN-V160                                 |
|--------------------------------------|---|---|---|---|--|
| <b>PRODUCTS</b>                      | PP/HDPE/LDPE/LLDPE/EVA/ABS/PS   |   |   |   |  |
| MAX. OUTPUT/HR.                      | PP=100 kg<br>HDPE=120 kg<br>LDPE=140 kg   | PP=180 kg<br>HDPE=200 kg<br>LDPE=220 kg | PP=330 kg<br>HDPE=360 kg<br>LDPE=380 kg | PP=500 kg<br>HDPE=550 kg<br>LDPE=600 kg | PP=900 kg<br>HDPE=950 kg<br>LDPE=1000 kg |
| TOTAL POWER CONSUMPTION              | 79 kw   | 140 kw                                  | 215 kw                                  | 292 kw                                  | 526 kw                                   |
| TOTAL WEIGHT MACHINE                 | 4500 kg   | 7000 kg                                 | 10000 kg                                | 12500 kg                                | 16000 kg                                 |
| <b>SHREDDING UNIT</b>                |   |   |   |   |  |
| SHREDDER DRUM DIA. (m/m)             | Ø 650   | Ø 750                                   | Ø 800                                   | Ø 1000                                  | Ø 1200                                   |
| DRIVING MOTOR                        | 30HP  | 50HP                                    | 75HP                                    | 100HP                                   | 175HP                                    |
| SHREDDING KNIVES                     | 4 For Rotary<br>6 For Stationary  | 4 For Rotary<br>7 For Stationary        | 4 For Rotary<br>15 For Stationary       | 4 For Rotary<br>17 For Stationary       | 6 For Rotary<br>17 For Stationary        |
| <b>EXTRUDER</b>                      |   |   |   |   |  |
| TYPE                                 | NON - VENTED OR VENTED TYPE, DEPENDING ON THE MATERIAL PROPERTY.  |   |   |   |  |
| SCREW DIAMETER (m/m)                 | Ø 65  | Ø 85                                    | Ø 100                                   | Ø 120                                   | Ø 160                                    |
| L/D RATIO                            | 30/1  | 30/1                                    | 30/1                                    | 30/1                                    | 30/1                                     |
| SCREW RPM                            | 0-150   | 0-150                                   | 0-150                                   | 0-130                                   | 0-120                                    |
| BARREL HEATER                        | 20.5kw  | 32.5kw                                  | 40.9kw                                  | 51kw                                    | 78kw                                     |
| BARREL COOLING                       | BY AIR  | BY AIR                                  | BY AIR                                  | BY AIR                                  | BY AIR                                   |
| TEMPERATURE CONTROL ZONE             | 1/8HP BLOWER X 4  | 1/8HP BLOWER X 5                        | 1/8HP BLOWER X 5                        | 1/4HP BLOWER X 5                        | 1/2HP BLOWER X 6                         |
| <b>MAIN DRIVING MOTOR</b>            | 40HP AC   | 75HP AC                                 | 125HP AC                                | 175HP AC                                | 350HP AC                                 |
| <b>SCREEN CHANGER</b>                |   |   |   |   |  |
| TYPE                                 | HYDRAULIC OPERATIVE DEVICE WITH 2 CYLINDERS AND NON-STOP MACHINE RUNNING DESIGN NOT TO MAKE ANY INTERFERENCE TO MACHINE OUTPUT. |   |   |   |  |
| HEATER                               | 7kw   | 10kw                                    | 10.2kw                                  | 11.8kw                                  | 13.8kw                                   |
| TEMPERATURE CONTROL ZONE             | 1   | 1                                       | 1                                       | 1                                       | 1  |
| PUMP                                 | 2HP   | 2HP                                     | 2HP                                     | 5HP                                     | 5HP                                      |
| <b>DIE &amp; PELLETIZER</b>          |   |   |   |   |  |
| DIE TYPE                             | CIRCULAR SHAPE EXTRUSION DIE.   |   |   |   |  |
| DIE HEATER                           | 1.9kw   | 2.0kw                                   | 3.2kw                                   | 3.5kw                                   | 3.7kw                                    |
| PELLETIZER TYPE                      | DIE-FACE TYPE PELLETIZING UNIT.   |   |   |   |  |
| PELLETIZING MOTOR                    | 1HP   | 2HP                                     | 3HP                                     | 5HP                                     | 5HP                                      |
| TEMPERATURE CONTROL ZONE             | 1   | 1                                       | 1                                       | 1                                       | 1  |
| <b>COOLING UNIT(VIBRATING DRYER)</b> |   |   |   |   |  |
| TYPE                                 | BY WATER  | BY WATER                                | BY WATER                                | BY WATER                                | BY WATER                                 |
| WATER TROUGH DIMENSIONS (m/m)        | 1920 x 570 x 471  | 2000 x 670 x 471                        | 2270 x 640 x 521                        | 3615 x 700 x 471                        | 3615 x 900 x 571                         |
| WATER PUMP                           | 2HP   | 3HP                                     | 3HP                                     | 5HP                                     | 7.5HP                                    |
| VIBRATION MOTOR                      | 1/4HP x 2   | 1/4HP x 2                               | 1/4HP x 2                               | 1/4HP x 4                               | 1/4HP x 4                                |
| <b>OR</b>                            |   |   |   |   |  |
| <b>CENTRIFUGE</b>                    |   |   |   |   |  |
| TYPE                                 | VERTICAL  | VERTICAL                                | VERTICAL                                | VERTICAL                                | VERTICAL                                 |
| MOTOR                                | 2HP   | 2HP                                     | 2HP                                     | 5HP                                     | 7.5HP                                    |
| <b>CONVEYOR FOR WASTE</b>            |   |   |   |   |  |
| TYPE                                 | RUBBER BAND TYPE CONVEYOR DEVICE.   |   |   |   |  |
| FEEDING SPEED                        | 0.05M/SEC   |   |   |   |  |
| BAND SIZE (m/m)                      | 2900(L) x 330(W)  | 3600(L) x 480(W)                        | 3950(L) x 480(W)                        | 4950(L) x 670(W)                        | 5400(L) x 750(W)                         |
| DRIVING MOTOR                        | 1HP   | 1HP                                     | 2HP                                     | 2HP                                     | 3HP                                      |
| <b>MACHINE DIMENSION</b>             |   |   |   |   |  |
| (L x W x H) m/m                      | 9500 x 4200 x 2762  | 10050 x 4490 x 2762                     | 11220 x 4880 x 4200                     | 12000 x 5820 x 4200                     | 14450 x 5940 x 4200                      |

YE I reserves the right to change specifications or materials for improvement without prior notification.