



**DSMAC**  
DINGSHENG MACHINERY

Technology Creates Brand  
DINGSHENG Group



## DSMAC BWH SERIES APRON FEEDER

- Capacities up to 14,500 mtp/h (16,000 tph)
- Custom designed for any application
- Variable speed optimises plant capacity
- Proven design based on crawler tractor components
- Long wearing parts, low maintenance, low operating costs

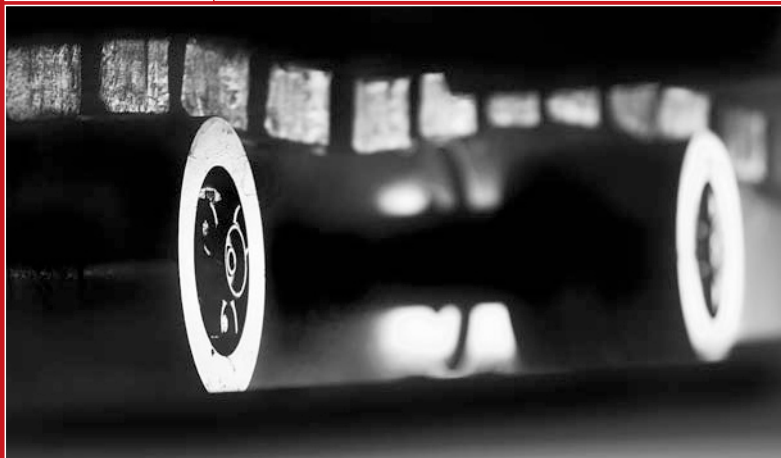
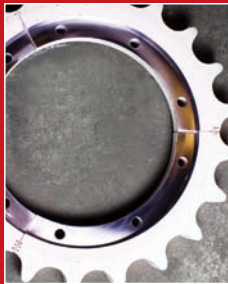
# PRODUCT BRIEF INTRODUCTION

Dsmac is a leader in the design and manufacture of heavy duty apron feeders for the mining and process industries. BWH apron feeders are recognised throughout the industry for their robust design, durability, reliability and low maintenance requirements.

Our apron feeders operate in applications such as iron ore, coal, gold, mineral sands and diamond recovery in Australia, South America, Europe, North America, Asia and Africa.



# MAIN CUSTOMER BENEFITS OF APRON FEEDER



- **Long life, low maintenance and reduced operating costs.**  
Proven heavy duty design.
- **Tailored feeder selection designed to suit each application and capacity.**  
A broad range of models varying in width and length.
- **Long life because of impact and wear resistance.**  
Cast manganese steel-ribbed flights.  
Special purpose flights also available.
- **Reduces costly truck waiting time.**  
Correct feeder selection matches plant hopper capacity to dump truck capacity.
- **Simple to maintain the correct chain tension.**  
Hydraulic chain tension adjustment is standard. Manual option chain tension adjustment .



# IDEAL FOR FEEDING CRUSHERS

- **Ideal for feeding crushers**

The raw materials from the quarry are dumped directly into a reinforced feed hopper and extracted by the BWH apron feeder. The coarse granular or fragmented run-of-mine materials often contain large pieces of hard limestone rock. The BWH apron feeder ensures a steady flow of material to the next stage of the process, typically a crushing plant. BWH apron feeders come in different sizes dimensioned to feed even the largest crushers

- **How it works**

The raw materials from the quarry are dumped directly into a reinforced feed hopper and extracted by the BWH apron feeder. The BWH apron feeder ensures a steady flow of material to the next stage of the process, typically a crushing plant.

- **Maintenance**

Worn aprons and chains can be accessed from the takeup end of the feeder for easy replacement. The sprocket wheels have bolted on tooth segments which can be interchanged or replaced. The impact rollers are lubricated by a central lubrication unit, while the chain rollers have to be lubricated manually with a grease gun.



# APRON FEEDER PARTS



- **Head shaft and sprockets**

Segmental hardened steel sprockets are machined at the mounting interface with the sprocket hubs. The hubs are keyed to the drive shaft.

Sprockets incorporate a hunting tooth design which have the effect of increasing the life of the sprockets.

The segmented sprockets can be easily reversed for increased life.

Head shafts are high-strength steel and sized to suit the load requirements. The head shafts are fully machined to take bearings, sprocket hubs, seals and the drive. The drive may be located on either side of the feeder. Twin drives can be supplied when required.

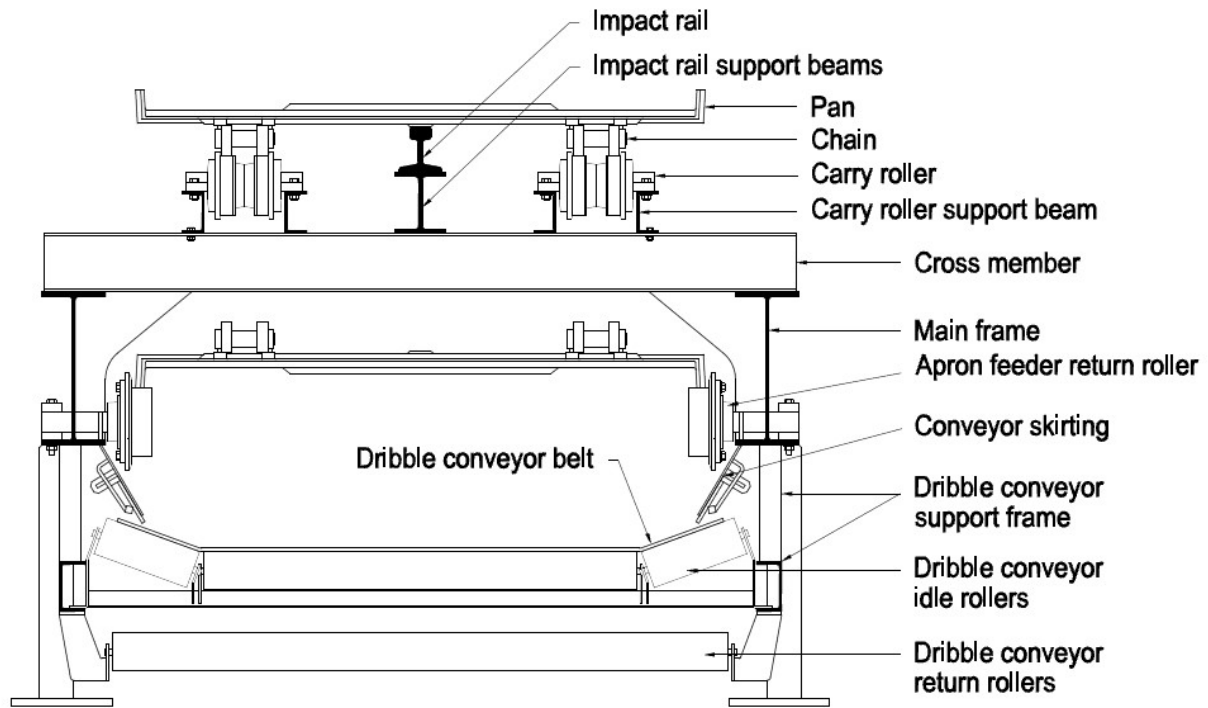
- **Return rollers**

The return rollers support the return-strand of the flights and chain. Each roller is a modified crawler tractor carrier roller, with lifetime lubricated seals. Each roller is supported by a bracket which is bolted to the main frame for ease of removal and installation. Inspection ports located in the main beams in close proximity to the Return Rollers offer visual inspection of Rollers condition and wear, without disturbing any components.

- **Carrier rollers**

The carrier rollers are closely spaced, standard tractor components. They are designed and manufactured for long wear and maintenance-free service. Features include lifetime-lubricated fully sealed bearings, a hardened and ground shaft fitted with a central thrust shoulder, and hardened rollers.

# APRON FEEDER TECHNICAL DATA



Model	Slot Width (mm)	Feeding Size (mm)	Capacity (t/h)	Power (kw)	Weight (t)
BWH100-6~12	1000	≤500	60~160	11~15	13.5~20
BWH(Z)120-4~20	1200	≤600	45~160	11~30	13.2~43.5
BWH52-5~12	1250	≤800	60~160	11~18.5	18~32
BWH(Z)150-4~15	1500	≤700	100~200	15~45	18.5~60
BWZ180-8~12	1800	≤800	160-350	37~55	52~68
BWZ220-10	2200	≤1200	200-650	45	80.5
BWZ240-10	2400	≤1500	260-750	45	83.5
BWZ220-10	2200	≤1200	200-650	45	80.5
BWZ220-10	2200	≤1200	200-650	45	80.5

### Questionnaire

To enable us to quote for equipment relative to your particular requirements, it will greatly assist us if all essential information is supplied with the initial enquiry. For your guidance we tabulate the information required :

Material .....  
Is material wet or dry ? .....  
Percentage moisture .....  
Approximate mass of material in kg/m .....  
Maximum lump size of material .....  
Is feed graded .....  
Capacity required in tonnes / hour .....  
Type of drive required ? i.e. fixed speed, variable  
Speed .....  
Variable speed Electro-Hydraulic .....  
Have we to supply the drive ? Yes / No  
Hopper Design  
Open / closed Front .....  
Feeder inclination .....

For more requirement, you can send to me now, or later, to our expert mail

[dscrusher@yahoo.cn](mailto:dscrusher@yahoo.cn)

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