

MARWEL

Conveyors

Slat Conveyors



1. HEAT TREATMENT CONVEYOR

Slat conveyors are most suitable for use when the unit loads are beyond the capacity of belt conveyors, or where heat or other adverse conditions render the use of the latter impracticable. They are also advantageous where the sideways loading or discharge of heavy articles is to be effected by pusher units or ploughs. Individual slats can be fitted with ancillary ball bearing rollers where the loadings are extreme.

MARWEL slat conveyors are frequently fitted with chains having oversized rollers. These permit the use of side guide bars at intervals along the tracks. This ensures accurate tracking without sideways drift. The larger roller diameters, by reducing the numbers of revolutions per roller, increases chain life and also allows the use of heavier chain sprockets. This is of particular benefit in foundries where the chains are usually run dry.



2. CAB ASSEMBLY CONVEYOR

Typical Specifications

MAIN FRAMEWORKS

Head and tail assemblies are usually welded fabrications of ample strength, well braced and reinforced at main stress points. The head assembly includes a motor base plate with adjustment for the final drive chain. The tail assembly has screw tensioning for the twin or triple main chains. Leg assemblies are welded units in channel, angle or hollow sections as required. The stringers are usually complete with wearflats, guides, and guard members.

MARWEL conveyors operating in ovens have expansion joints, where necessary and automatic spring or weight loaded tension units. Full guarding is possible.

SLATS

These can be of steel, hardwood, or plastic, and in various sections, channel, angle, flat, tubular etc. They can be fitted with flight bars for inclined conveyors, with jigs, or with automatic retracting support arms for assembly conveyors.

CHAINS & SPROCKETS

The chains vary according to the load requirements but are usually standard conveyor chains between 3,000 lbs. and 85,000 lbs. breaking strain. Sprockets are standard cast iron, or for very heavy duties alloy steel, accurately machined, matched and keyed to the head shaft and with one keyed and one floating between locating collars on the tail shaft. The machined shafts are shouldered to locate between the main greasefilled and sealed bearings thus ensuring permanent, accurate, sideways location.

DRIVES

MARWEL slat conveyors are powered by oil bath geared motor units coupled to the headshaft by roller transmission chain drives incorporating an overload safety device. Electronic or mechanical variable speed drives can be supplied.

LUBRICATION

The main chains can be oiled by automatic 4 or 6 spray jet lubricators if required. Special oils are employed for conveyors inside ovens.



3. ROLLER SLAT CONVEYOR



4. HEAVY DUTY CONVEYOR



5. CONVEYORS UNDER ASSEMBLY



6. IN FLOOR CONVEYORS