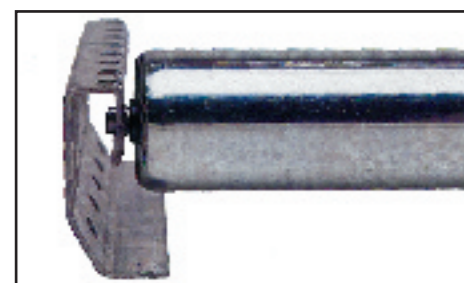


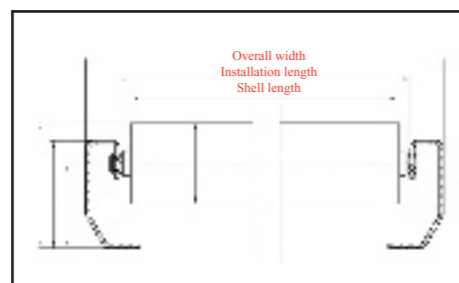
System Standfix- round (SFR)

The Profile

The rounded form of the profile was the godfather in the naming of this system. Derived from the tried and tested original version of the STANDFIX"-System, SFR was developed for application at working height, a system for direct processing locations. Optically appealing, the profile is entirely smooth on the outside, has



rounded edges and utilises the inner raster (33 mm) to pick up the rollers. The tried and tested retention holes for the legs, which can be adjusted in 50 mm increments, are positioned in the lower section. This profile is employed both for the non-driven system SFR as well as for the driven ASF system.



Legs

The systems SFR and ASF are supplied with two kinds of trestles "SRF" (fixed height) and "SRV" (adjustable height). SRF is applied for fixed heights which will not require later adjustment. SRV should be selected for incline ascending or descending roller conveyors, but should be adjusted if heights must be adjusted in the future. The vertical profiles (U65 and U60) interlock and can be adjusted via the opposite holes in increments of 50 mm. Both



The SFR roller conveyor system is especially suited to ascending and descending conveyor tracks due to the opportunities for adjustment. Two-tier conveyors with inclines running in opposite directions are possible. The height is easily adjustable at any time due to the special trestle.

types are equipped with fine-adjustable thread spindles (M 16 ± 30 mm) thus ensuring the level regulation. All leg components are galvanized.

Type	Overall height
V1	from 330 to 380 mm adjustable
V2	from 380 to 460 mm adjustable
V3	from 460 to 620 mm adjustable
V4	from 620 to 830 mm adjustable
V5	from 830 to 1330 mm adjustable



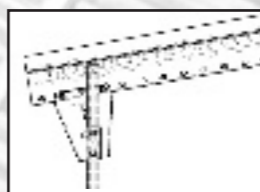
HaRo®

HaRo®

Basic Technical data

Length:	2,000 mm, 2,500 mm, 3,000 mm, 6,000 mm
Nominal width:	200 to 1,200 mm
Partitioning:	33, 66, 100, 133, 166, 200 mm
Motor capacity:	0.25 KW
Conveying speed:	7 to 35 m/min
Load per drive:	200 Kg
Profile pitch:	33.3 mm
Diameter of roller:	30 mm, 50 mm, 60 mm, 80 mm
Roller spindle end:	SW 9 x 3.5 mm

We reserve the right to make technical alterations and further developments.



Legs adjustable to 15° incline.

Rüthen
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Fax 0 29 52/8 17-30
Industriest./Möhmetal 30
D-59602 Rüthen

Wermelskirchen
Phone 0 21 96/9 44-32
Fax 0 21 96/9 44-90
Elbringhausen 22-25
D-42929 Wermelskirchen

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Phone 03 42 93/2 92 70
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Grethener Str. 9
D-04668 Leipzig/Großsteinberg

Or visit our website in the Internet:
<http://www.haro-gruppe.de>
Email: info@haro-gruppe.de

System ASF

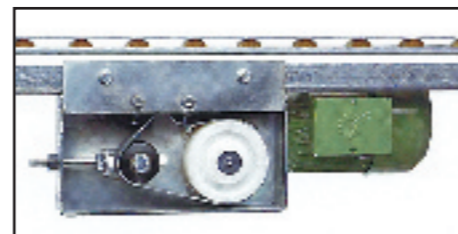
The flexible System for self assembly

The roller conveyor system ASF is the optimal solution to problems arising in the internal transport of light items which must be transported quickly. The roller conveyor profiles are serially galvanized and are supplied in the standard lengths of 2,000 mm, 2,500 mm, 3,000 mm and 6,000 mm. Overall heights ranging from 300 mm to 2,000 mm and effective widths ranging



The drive chain

The motor station is equipped with a worm gear motor with a drive wheel as well as the adjustment station. The abrasion-resistant plastic belt is guided via the reel strips, ensuring extremely low friction. According to the demands, the belt can be designed as a fixed or accumulation drive unit. The ASF System is distinguished by a pleasantly smooth run even when operated at high speed.



Further HaRo-Systems

- Chain conveyor Shuttle
- Belt conveyor Controlling

HaRo®

... and the Production rolls!

from 200 mm to 1,200 mm in 50 mm increments can be supplied. Bearing rollers with diameters of 30, 50, 60, and 80 mm, in different wall strengths and can be selected according to load. Fixed and adjustable lateral guides as well as hook-up end stop mechanisms can be integrated in the system.



For longer distances two motor stations are connected via a chain circuit. Cover plates secure all squeezing and shearing points. The trestle joins two conveyor elements solidly.



Roller conveyor systems STANDFIX®

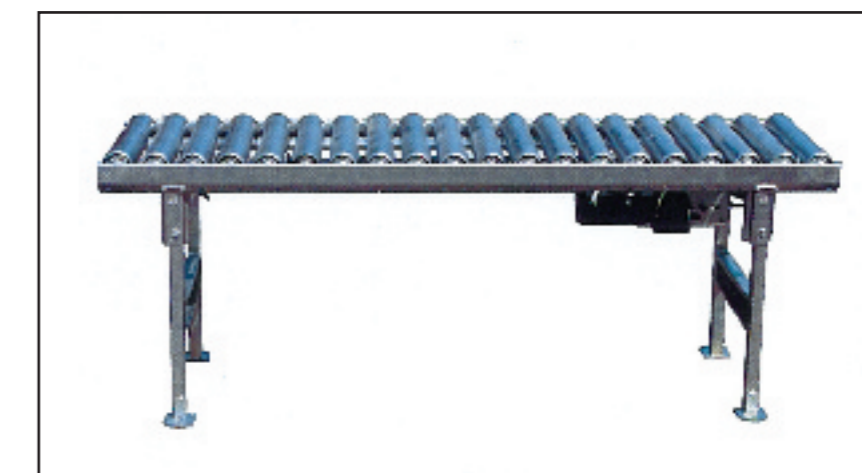
Stable roller conveyor systems for the transport of light items for self-assembly



STANDFIX®



Standfix®-round (SFR)



Driven Standfix® - round (ASF)

HaRo®



The Standfix® system family

The STANDFIX® system family consists of three different types: SF, SFR and ASF. The systems SF (STANDFIX®) and SFR (Standfix-Round) comprise non-driven systems, ASF (driven Standfix) comprises a driven system.

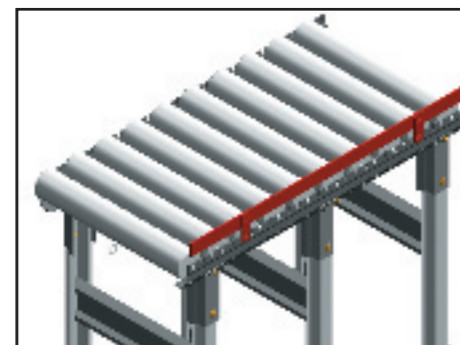
Roller bearers



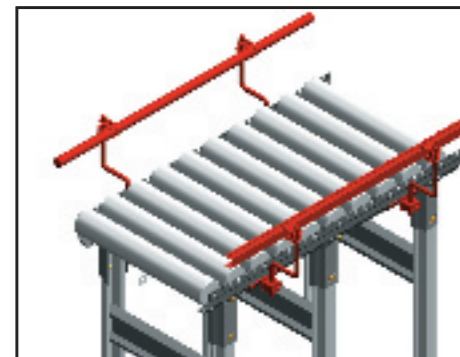
The selection of the bearing rollers is dependent on the goods to be conveyed. The "Soft" series is characterised by the light-weight roller with a plastic tube $\varnothing=30$ or $\varnothing=50$. Our "Favorit"- roller with easy-action steel ball bearings is manufactured from flat steel and galvanized steel tube

Every conveyor system is only as good as it is able to adapt to the individual requirements and details of the goods to be conveyed. Of great significance are the lateral guides, in this case. The guides ensure the safe and secure transport of the goods res. they prevent the goods from shifting position or falling from the conveyor. The roller conveyor systems STANDFIX®, SFR

Rigid bolted lateral guide



Adjustable lateral guide with steel / plastic tubes or the KS roller guide



fold throughway

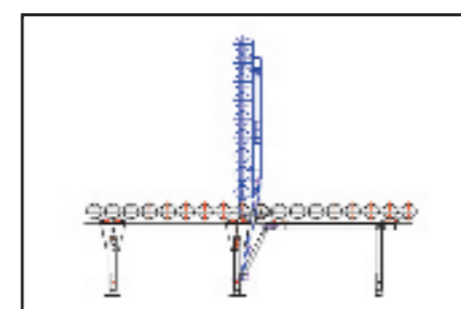
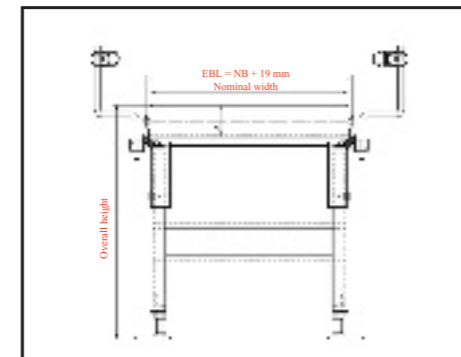
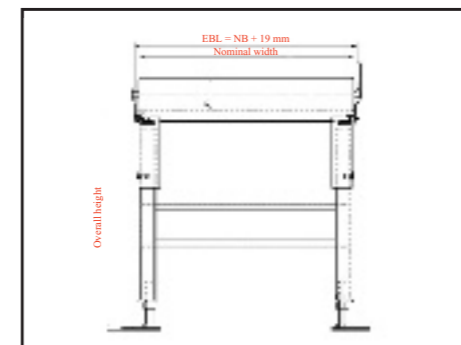
The fold throughway interrupts a continuous roller conveyor track to enable the throughway for persons or conveying devices.

The loading spectrum ranges up to 800 kg/m. The maximum load per meter of the track results from the roller design, roller pitch, trestles and clearance. The mounting of the roller conveyor elements can either be carried out by you yourself or by our specialists on site.

$\varnothing=50$ mm. $\varnothing=60$ mm or $\varnothing=80$ mm. The "Quickly" series possesses the same dimensions, however, it is equipped with grooved ball bearings from the range 6202 ($\varnothing=50 = 6001$). PVC coatings of 5 mm strength can also be supplied.

and ASF can offer various lateral guiding options.

The simplest variant consists of flat steel in different dimensions bolted to the long side. Adjustable tube layouts with steel or plastic tubing are well suited to precise and safe guiding. Many other designs are specially developed to comply with the requirements of the goods to be conveyed.

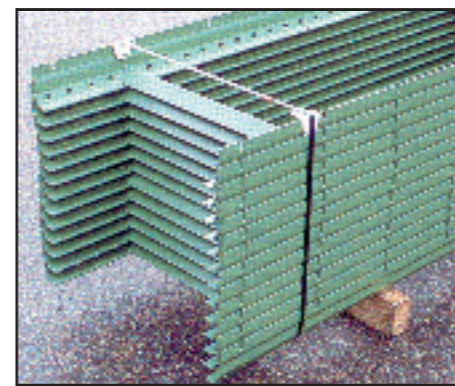
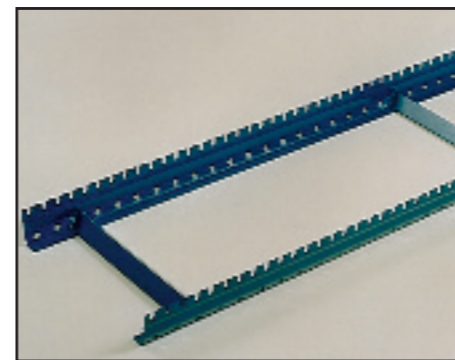


System STANDFIX® (SF)

The two lateral profiles are joined together, buckling-resistant due to the welded corners (40/40/3). The frames constructed in this manner can be mounted easily and conveniently. The widths vary from 100 mm to 2,000 mm, in increments of 50 mm. The frames are varnished with RAL 5010 (gentian blue), but every other RAL shade can be supplied at additional charge.

The stackable roller conveyor frames require little space and can therefore be transported safely and space-saving (export). The specific profile shape permits a highly compact stacking of up to 50 roller conveyor frames and simple transport via the stacking machine res. the lifting truck.

Profile dimensions
Height: 80,0 mm
Width: 44,0 mm
Profile strength: 3,9 mm



The roller conveyor frame

Stackable frames

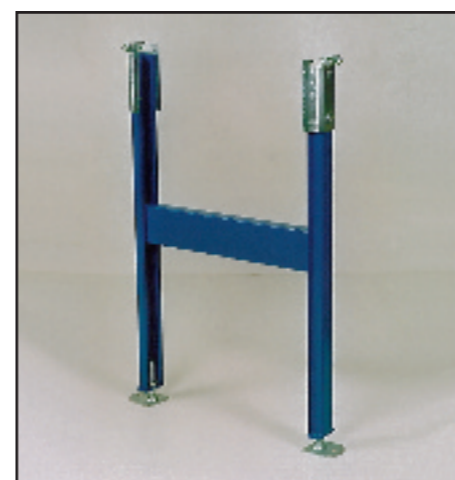
Trestle



The continuous bottom incremental perforation (50 mm) in the lateral profile permits a variable leg clearance. One leg stands at the interjection of two track frames which bolts the tracks together rigidly.



Leg types "SFA" and "SFB"



Leg type "SFC"

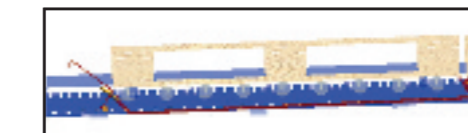
Three types SFA, SFB, SFC can be supplied according to the required height. All legs are adjustable by ± 30 mm increments to balance floor unevenness, in the SFA and SFB options by means of slotted hole, in the SFC version by means of an elevating truck.

The Leg types SFA/SFB are single legs, which are supplied in pairs. The top parts are galvanized with zinc. The SFA leg can be supplied in the overall heights of 230, 250, 280 and 300 mm (for rollers $\varnothing = 80$ mm); the SFB type is supplied for overall heights from 300 - 600 mm.

The trestle SFC is a trestle with a welded cross section. The top of the leg is galvanized; the bottom part is serially varnished in RAL 5010 (gentian blue). The overall heights range from 600 mm to 1,500 mm. Higher overall heights are reinforced with additional cross and diagonal profiles. The trestles are mounted to the floor by mounting brackets (SFA), res. by dowels in the borings of the foot plate (SFB/SFC) ($\varnothing=12.5$ for 10 mm dowel).

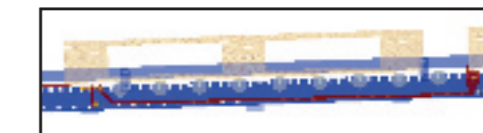
System STANDFIX® (SF)

The roller conveyor system STANDFIX is also very suitable for continuous shelf stacking. The sorting of the pallets is effected by an optimally set sorting unit. The integrated stop mechanism prevents the accumulation of pallets before the required pallet has been removed from the system.



Stop mechanism open

This will be stopped until the pallet which is ready for discharge has been removed from the roller conveyor via the fork elevator or the fork lift truck. Furthermore, direct or indirect braking rollers regulate the tracking speed.



Stop mechanism closed

An end stop mechanism should be installed at the ends of the conveyor to prevent accidents caused by transported goods falling from the track. For the diameter 80 mm, an end stop mechanism (gravity block) can be selected, which returns to the vertical stop position following the transfer of the goods via the carriage. The roller pitch must be at least 100 mm in this case. A fixed stop mechanism consisting of a welded cross profile is recommended for "open" track ends. The stop mechanism must be positioned at least 20 mm above the upper edge of the roller.

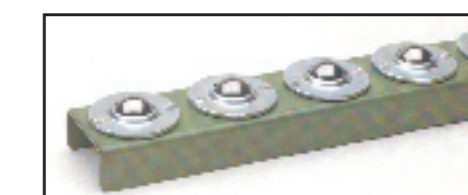


End stop mechanism

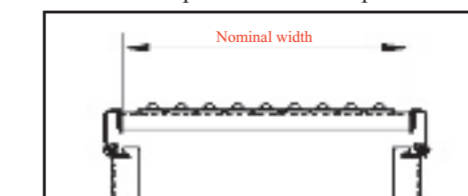
The ball roller table permits the flexible, manual discharging of smooth surface materials (with a flat base surface) from one conveyor to another. The ball roller table consists of ball roller strips (U-Profile with riveted ball rollers, transverse roller pinch 65 or 100 mm), which are welded to an angular frame. The angular frame can be embedded flexibly in every location in the STANDFIX® frame.



SFK (Ball roller table)



Ball roller strip transverse roller pitch 65 mm



Ball rollers- angular frame in SFR



Basic Technical Data

Length: 2,000 mm, 2,500 mm and 3,000 m
Width: 400- 1,200 mm
 Lengthwise and transverse roller
pitch: 65 or 100 mm
Load: 200 kg/m
Colour: RAL 5010, other colours can be supplied at additional charge

We reserve the right to make technical alterations and further developments.