

## KANBAN-SYSTEM

Low stock levels and avoidance of waste are constant challenges in mass production. With consumption-based disposition procedures according to the kanban principle, these goals can be achieved with simple means. The required parts in production are requested by the consuming point in the production process with a simple kanban card from the upstream stage. The card is usually located on the material and triggers a production order when the minimum stock is reached. In order to ensure the consumption-controlled production and thus the minimization of stocks, no order may be started without this kanban card. The products are provided directly at the point of consumption in so-called kanban shelves. These shelves are equipped with inclined roller conveyors, which transport by gravity the containers or products to the collection point. The shelves are loaded from the back. The size of the shelves depends on the stock at the workplace determined according to kanban rules. So that the containers are transported safely and

gently on the shelf, the inclination of the roller tracks is easily adjustable. To avoid damage caused by impacts, brake plates or brake rollers are available which are easy to assemble. Especially with higher weights, the use of these brake plates may be required. All components required to build customized kanban shelves are available in our product range.

**Especially suitable for the management of small parts according to the kanban principle is our Kantainer.**

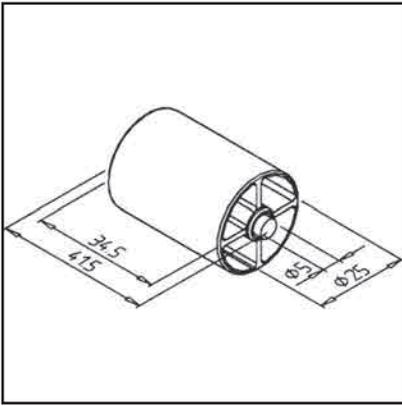
(Part no. 32.0870/0)



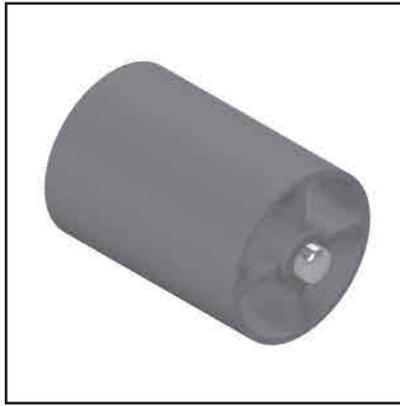
**CONVEYOR ROLLER D 25**

Part no.

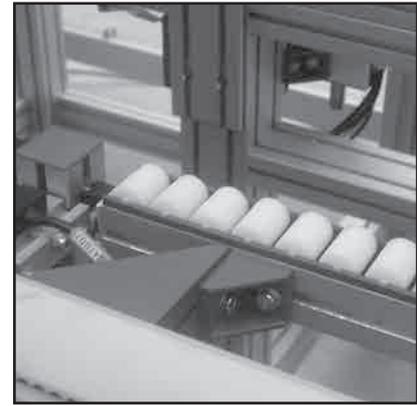
21.1701/0

**TECHN. DATA / ITEMS SUPPLIED**

- ABS, blue
- Axle  $\varnothing 5$ , stainless steel
- Bearing capacity per roller 20 N
- For higher loads use Pulley D 25 compact **part no. 21.1703/0**
- Weight = 0.008 kg/piece

**APPLICATIONS**

- Production of small roller conveyors in connection with profile 45 x 45 R, **part no. 20.1046/0**

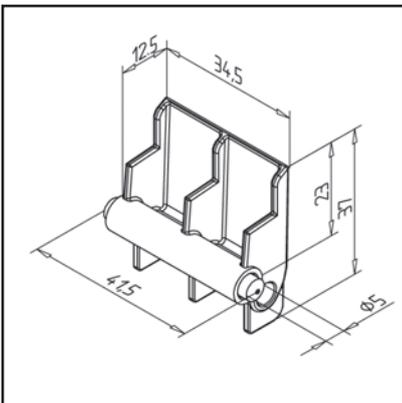
**ASSEMBLY**

- Press rollers in desired number and pitch into roller carrier
- Roller carrier 45 x 45 R with cover **part no. 22.1151/0**
- Roller carrier 45 x 45 R with SF cover **part no. 22.1152/0**

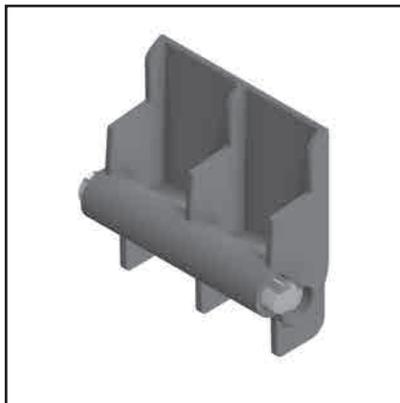
**RETURN STOP**

Part no.

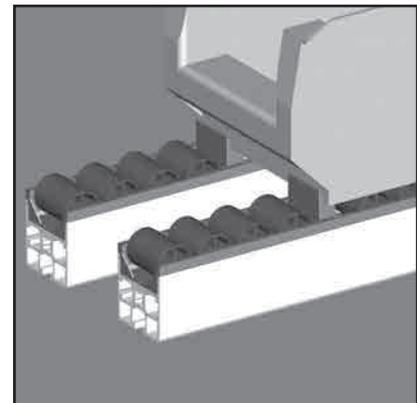
32.0586/0

**TECHN. DATA / ITEMS SUPPLIED**

- ABS, grey
- Weight = 0.015 kg/piece

**APPLICATIONS**

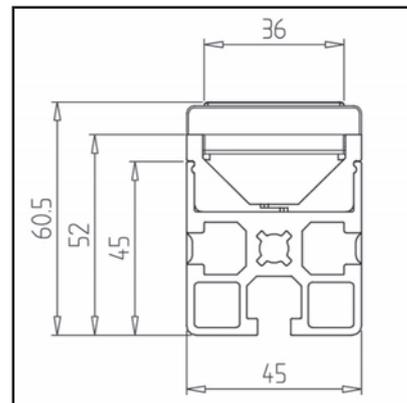
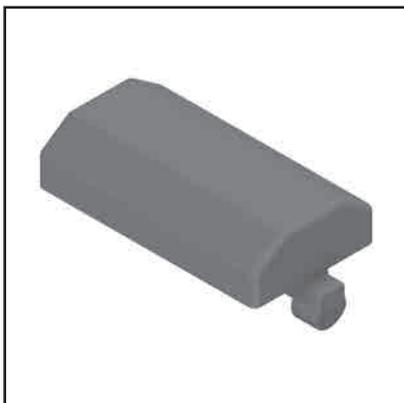
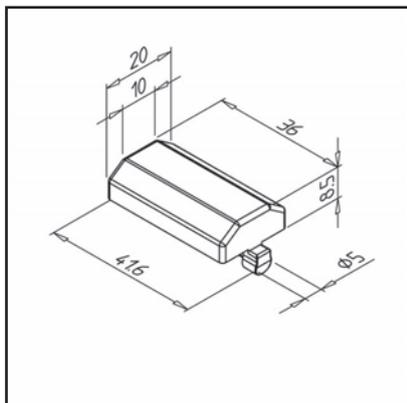
- used for decline-roller conveyors to prevent transported material from running back
- in combination with pulley carrier 45x45R

**ASSEMBLY**

- Clip into the roller carrier instead of a roller

**ROLLER CARRIER BACKING PADS**

Part no. 21.0940/0

**TECHN. DATA / ITEMS SUPPLIED**

- POM, grey RAL 7012
- Suitable for roller carrier
- Weight = 0.004 kg/piece

**APPLICATIONS**

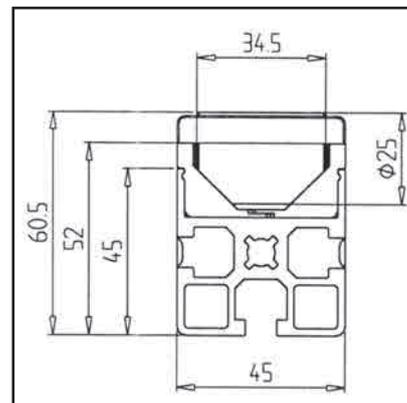
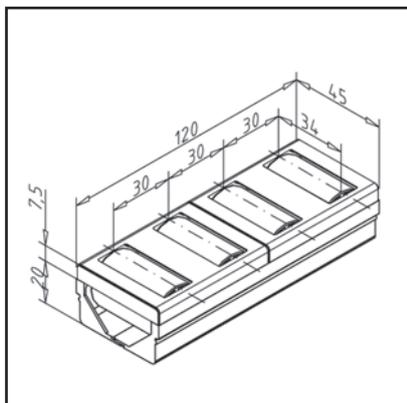
- For use in roller carriers instead of D25 roller for braking transport material
- To prevent a roll away on the installation site

**ASSEMBLY**

- Clip into the roller carrier instead of a roller

**ROLLER CARRIER 45 X 45 R WITH COVER**

Part no. 22.1151/0

**TECHN. DATA / ITEMS SUPPLIED**

- POM, grey
- 2 x pulley carriers base part POM-RAL 7012, **part no. 22.1126/0**
- 1 x Cover POM-RAL 7012 - **part no. 22.1127/0**
- 4 x pulley carriers ABS blue, **part no. 21.1701/0**
- Length: 120 mm
- Weight = 0.076 kg/piece

**APPLICATIONS**

- Production of small roller conveyors in connection with profile 45 x 45 R, **part no. 20.1046/0**

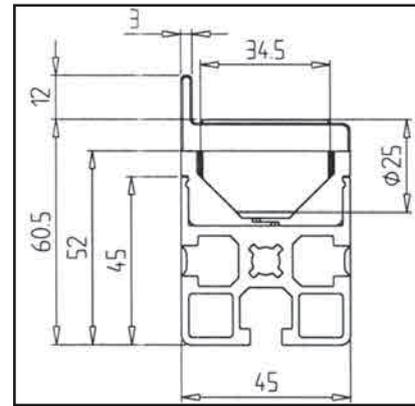
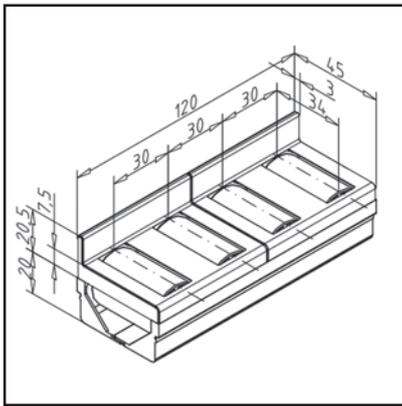
**ASSEMBLY**

- Insert roller carrier in profile
- Insert conveyor rollers
- Clipoff cap

## ROLLER CARRIER 45 X 45 R WITH SF COVER

Part no.

22.1152/0



### TECHN. DATA / ITEMS SUPPLIED

- POM, grey
- 2 x pulley carriers base part POM-RAL 7012, **part no. 22.1126/0**
- 1 x cover POM-RAL 7012, **part no. 22.1128/0**
- 4 x pulley carriers ABS blue, **part no. 21.1701/0**
- Length: 120 mm
- Weight = 0.083 kg/piece

### APPLICATIONS

- Production of small roller conveyors in connection with profile 45 x 45 R, **part no. 20.1046/0**

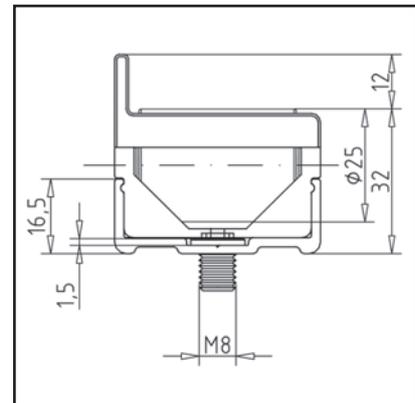
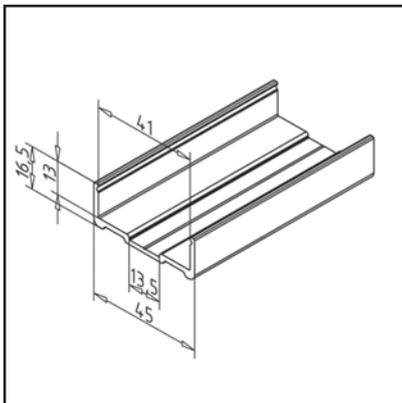
### ASSEMBLY

- Insert roller carrier in profile
- Insert conveyor rollers
- Clipoff cap

## CARRIER PROFILE 45 R

Part no.

20.1133/0



### TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1
- $I_x = 0.289 \text{ cm}^4$
- $I_y = 0.428 \text{ cm}^4$
- $w_x = 0.128 \text{ cm}^3$
- $w_y = 0.966 \text{ cm}^3$
- Weight = 0.414 kg/m
- Bar length = 6 m

### APPLICATIONS

- For the manufacture of miniature roller tracks
- For use with the following roll carriers:  
roll carrier 45 x 45R with cover **part no. 22.1151/0**  
Roller carrier 45 x 45R with SF cover **part no. 22.1152/0**

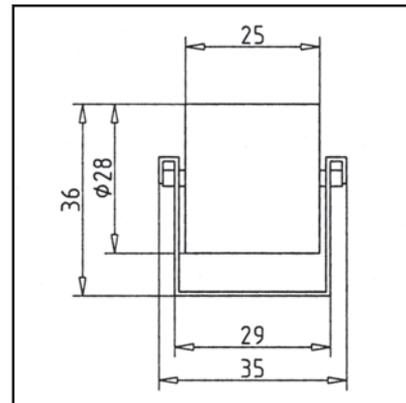
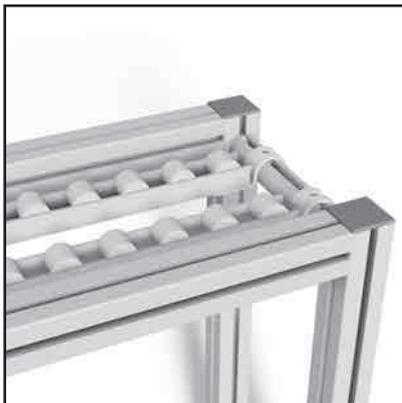
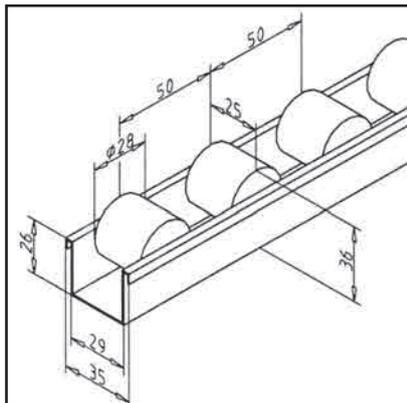
### ASSEMBLY

- Bore  $\varnothing 8,5$  bring in desired positions
- Assemble with pan head screw **part no. 21.1666/0** and sliding nut 08 with spring sheet **part no. 21.1351/2**
- Put in desired roller carrier

## MINIATURE ROLLER STRIP WITH CYL. MINIATURE ROLLER

Part no.

32.0550/0



### TECHN. DATA / ITEMS SUPPLIED

- Length according to costumers specification
- max. length 6 m
- Division 50 mm
- Supporting profile: Steel, zinc plated
- Roller colour: yellow
- Weight = 0.595 kg/m

### APPLICATIONS

- The rollers can be used over a temperature range from -30°C up to +100°C
- **part no. 32.0555/0** highly conductive roller to avoid electrostatic charge. Roller colour: black

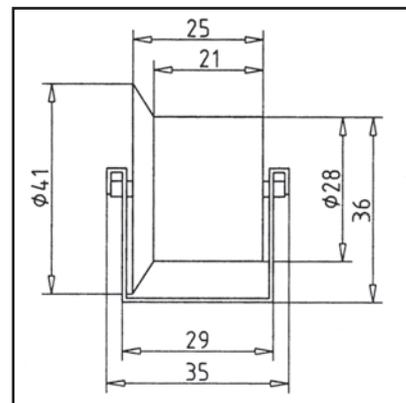
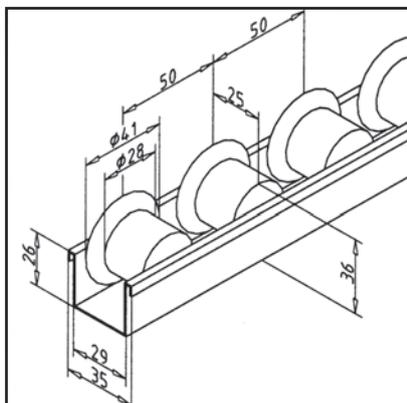
### ASSEMBLY

- Fasten with fastening **part no. 32.0574/0** and end stop **part no. 32.0569/0** onto profile
- With screws directly on the carrier profile

## MINIATURE ROLLER STRIP WITH MINIATURE FLANGE ROLLERS

Part no.

32.0560/0



### TECHN. DATA / ITEMS SUPPLIED

- Length according to costumers specification
- max. length 6 m
- Division 50 mm
- Supporting profile: Steel, zinc plated
- Roller colour: yellow
- Weight = 0.615 kg/m

### APPLICATIONS

- The rollers can be used over a temperature range from -30°C up to +100°C
- **Part no. 32.0565/0** Highly conductive wheels to prevent static charges. Roller colour: black

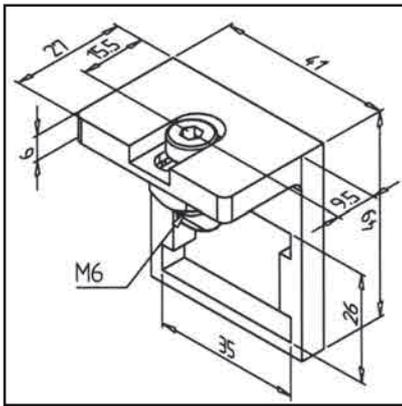
### ASSEMBLY

- Fasten with fastening **part no. 32.0574/0** and end stop **part no. 32.0569/0** onto profile
- With screws directly on the carrier profile

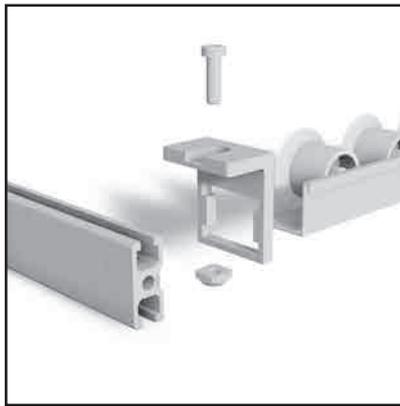
**BRACKET FOR MINIATURE ROLLER STRIP 19**

Part no.

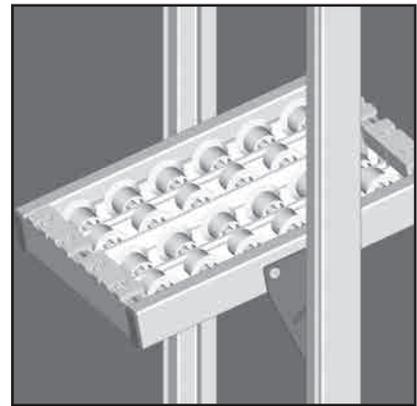
32.0575/0

**TECHN. DATA / ITEMS SUPPLIED**

- Steel, galvanized
- Fastening kit
- Thickness 6 mm
- Weight = 0.095 kg/piece

**APPLICATIONS**

- For attaching miniature roller strip to profiles 19 and 32
- Holder also serves as bedstop
- also available for profile 30 serie (see **part nr. 32.0575/1**)
- Fitting for all profiles of profile series 45

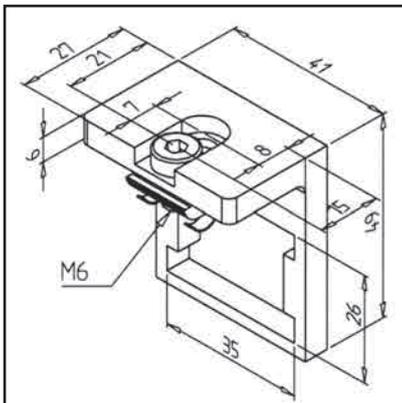
**ASSEMBLY**

- Cut out the miniature roller strip
- Insert the miniature roller strip into the holder and screw it to the profile using the fastening material included

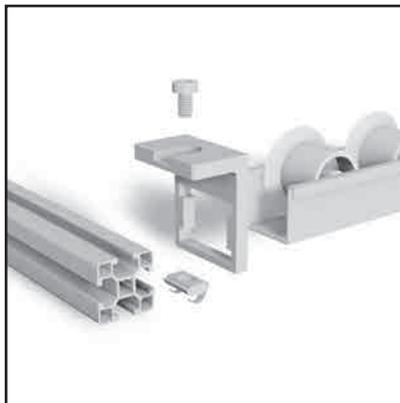
**BRACKET FOR MINIATURE ROLLER STRIP 30**

Part no.

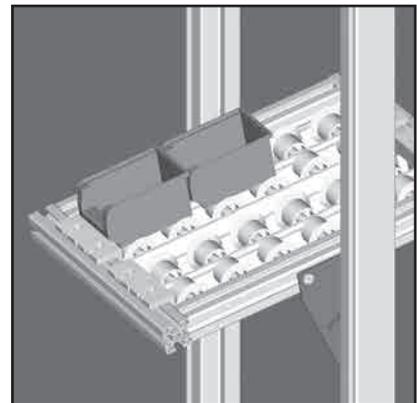
32.0575/1

**TECHN. DATA / ITEMS SUPPLIED**

- Steel, galvanized
- Fastening kit
- Thickness 6 mm
- Weight = 0.092 kg/piece

**APPLICATIONS**

- For fastening roller bars
- Fitting for all profiles of profile series 30

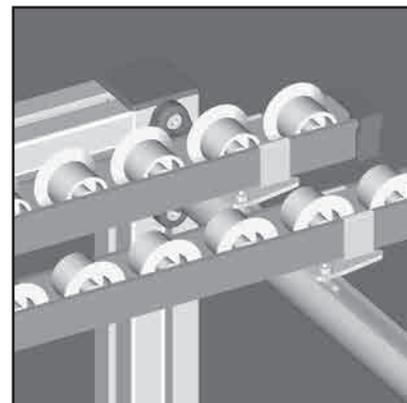
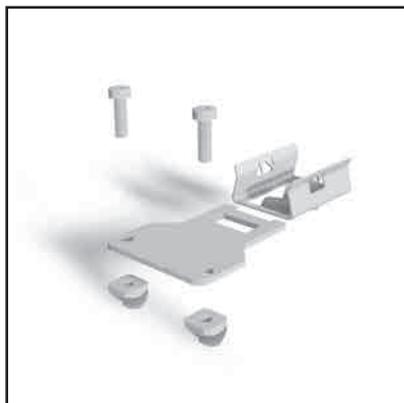
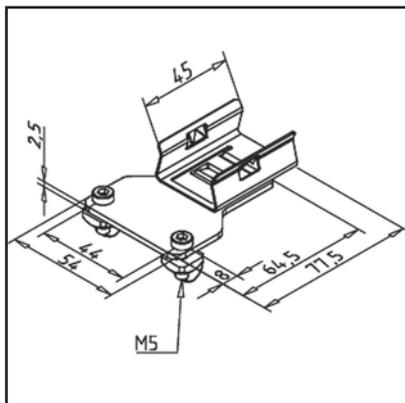
**ASSEMBLY**

- Cut out the miniature roller strip
- Insert the miniature roller strip into the bracket; screw it to the profile using the fastening material included

## ROLLER STRIP FASTENING

Part no.

32.0574/0



### TECHN. DATA / ITEMS SUPPLIED

- Stainless steel
- Thickness 3 mm
- With fastening material and spring clip for miniature roller strip
- Weight = 0.091 kg/piece

### APPLICATIONS

- For attaching miniature roller strip without machining
- Fitting for all profiles of profile series 45

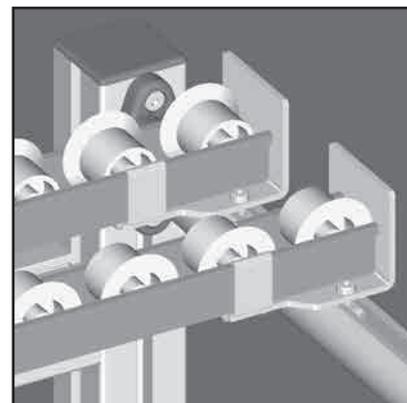
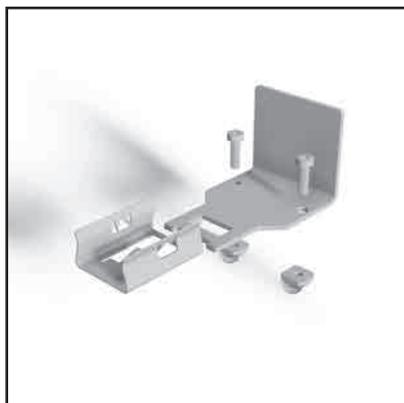
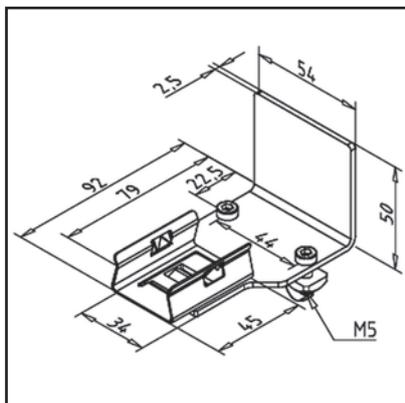
### ASSEMBLY

- For roller conveyors use handle profile **part no. 20.1088/0** in connection with flange bearing 32 **part no. 22.1016/0** or clip 32 **part no. 22.1022/0**

## END STOP MINIATURE ROLLER STRIP

Part no.

32.0569/0



### TECHN. DATA / ITEMS SUPPLIED

- Steel
- Stainless steel end stop
- Thickness 3 mm
- With fastening material and spring clip for miniature roller strip
- Weight = 0.166 kg/piece

### APPLICATIONS

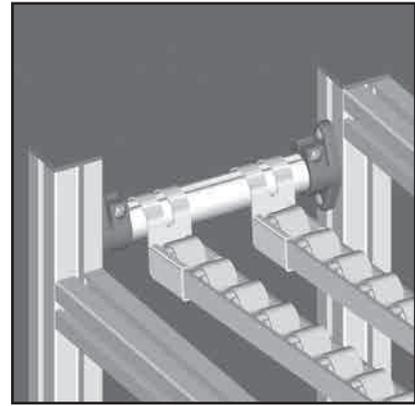
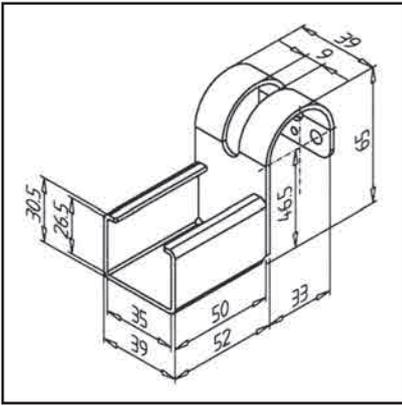
- Use as end stop for miniature roller strip
- Install without drilling
- Fitting for all profiles of profile series 45

### ASSEMBLY

- Fasten to any profile groove with the fastening material provided
- For roller conveyors use handle profile **part no. 20.1088/0** in connection with flange bearing 32 **part no. 22.1016/0** or clip 32 **part no. 22.1022/0**

## MINIATURE ROLLER STRIP BRACKET H

Part no. 32.0553/0



### TECHN. DATA / ITEMS SUPPLIED

- Steel, galvanized
- Thickness: 2 mm
- Weight = 0.141 kg/piece

### APPLICATIONS

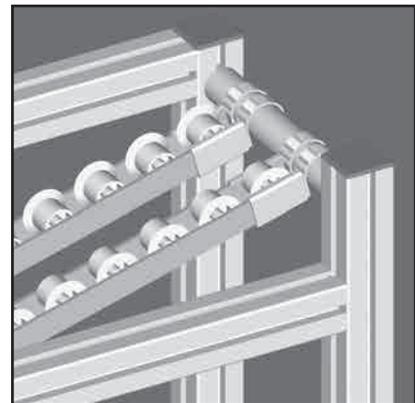
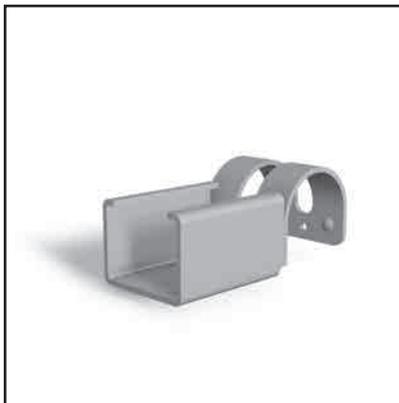
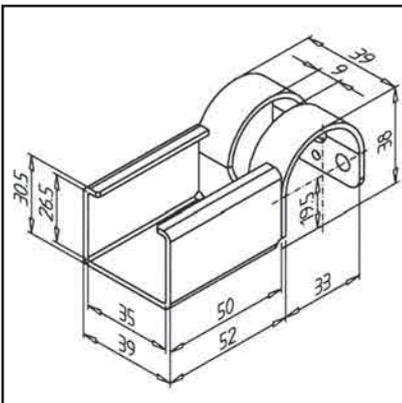
- For attaching roller tracks to grip profile 32  
**part no.: 20.1088/0**
- used as end stop for e.g. containers

### ASSEMBLY

- Cut out the miniature roller strip
- Attach bracket to the miniature roller strip
- Hang over handle profile 32
- If necessary, the bracket can be secured with a setscrew

## MINIATURE ROLLER STRIP BRACKET F

Part no. 32.0554/0



### TECHN. DATA / ITEMS SUPPLIED

- Steel, galvanized
- Thickness: 2 mm
- Weight = 0.124 kg/piece

### APPLICATIONS

- For attaching roller tracks to grip profile 32  
**part no.: 20.1088/0**
- Height of edges on the bracket corresponds the travelling height of rollers

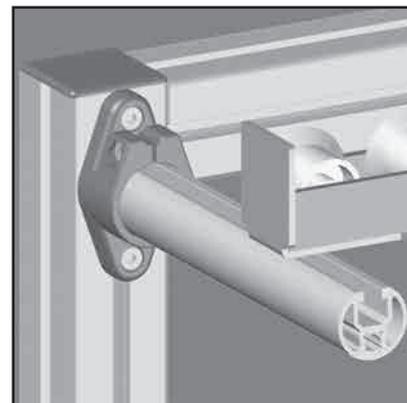
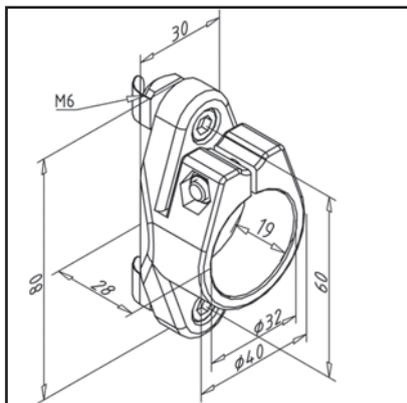
### ASSEMBLY

- Cut out the miniature roller strip
- Attach bracket to the miniature roller strip
- Hang over handle profile 32
- If necessary, the bracket can be secured with a setscrew

## FLANGE BEARING 32

Part no.

22.1016/0



### TECHN. DATA / ITEMS SUPPLIED

- ABS, grey
- Fastening kit
- Weight = 0.050 kg/piece

### APPLICATIONS

- For angle-adjustable assembly of handle profile 32 for roller track **part no. 20.1088/0**

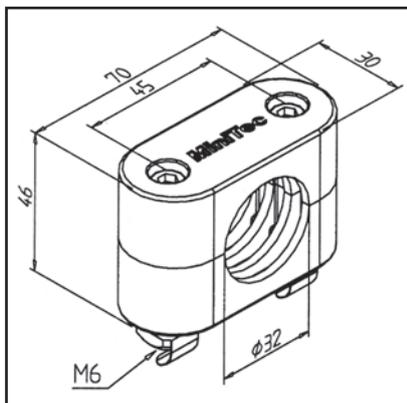
### ASSEMBLY

- Use fastening kit to fasten to base frame
- Push in handle profile 32 and clamp using screws

## GRIP PROFILE CLAMP 32

Part no.

22.1022/0



### TECHN. DATA / ITEMS SUPPLIED

- ABS, grey
- Fastening kit
- Weight = 0.036 kg/piece

### APPLICATIONS

- For handle profile 32 **part no. 20.1088/0**
- Handle with adjustable angle
- Simple equipment and frames

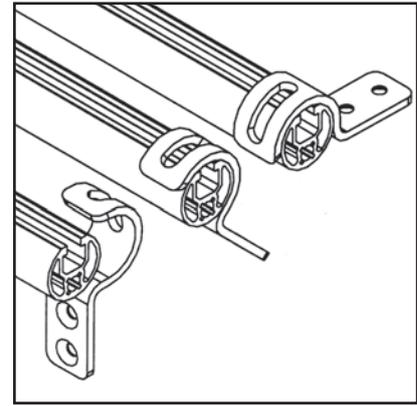
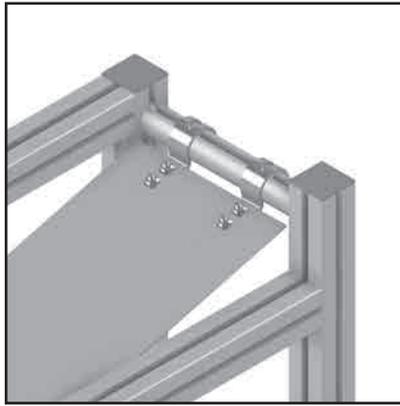
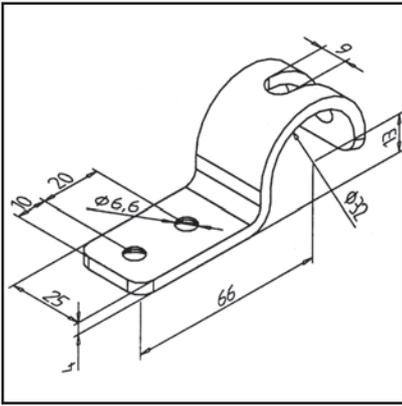
### ASSEMBLY

- Swivel the sliding nuts
- Insert handle profile into the 2 half-shells
- Fasten with screws

## CATCH 32 FOR HANDLE PROFILE

Part no.

21.0005/0



### TECHN. DATA / ITEMS SUPPLIED

- Steel, galvanized
- Countersunk screw M6 x 16
- With sliding nut M6
- Weight = 0.100 kg/piece

### APPLICATIONS

- Angle-independent attachment of roller conveyors, plates, shelves, etc. on the handle profile 32nd **part no. 20.1088/0**

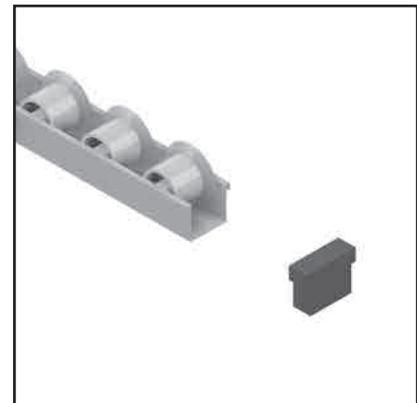
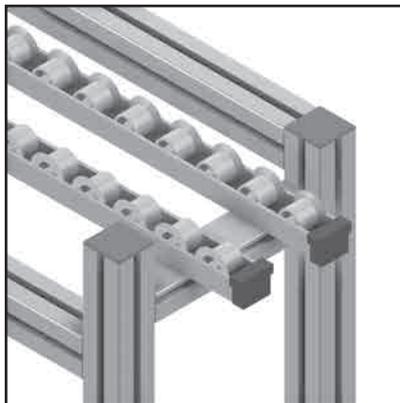
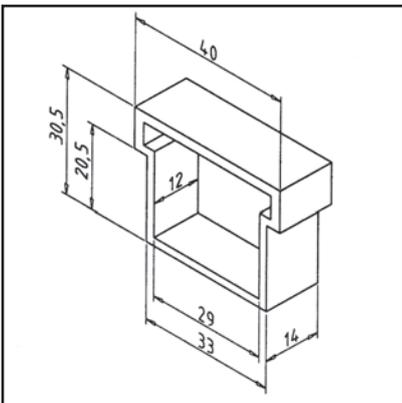
### ASSEMBLY

- Attach plates or similar with M6 countersunk screw
- Hang over handle profile 32
- If necessary, secure against dislocation with set screw M8 x 20 and sliding nut M8

## EDGE PROTECTION

Part no.

32.0572/0



### TECHN. DATA / ITEMS SUPPLIED

- Plastic, black
- ESD-compatible
- Weight = 0.004 kg/piece

### APPLICATIONS

- Protection against injury

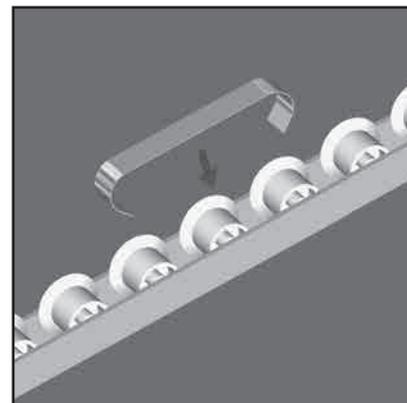
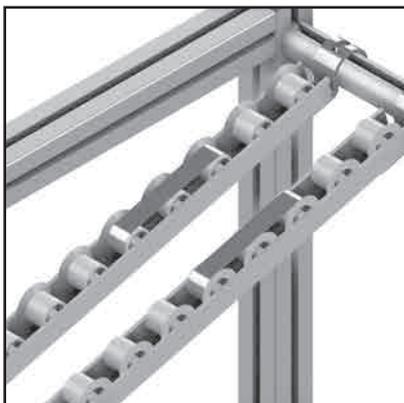
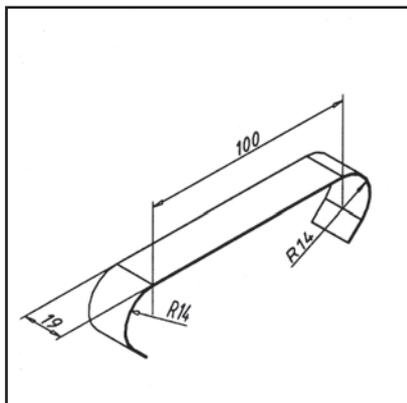
### ASSEMBLY

- Attach to the miniature roller strip

**BRAKE PLATE**

Part no.

32.0571/0

**TECHN. DATA / ITEMS SUPPLIED**

- Steel
- Brake plate on spring steel for 50 mm division
- In connection with conductive roller ESD conductive
- Weight = 0.017 kg/piece

**APPLICATIONS**

- The brake plate can be fastened at any desired location

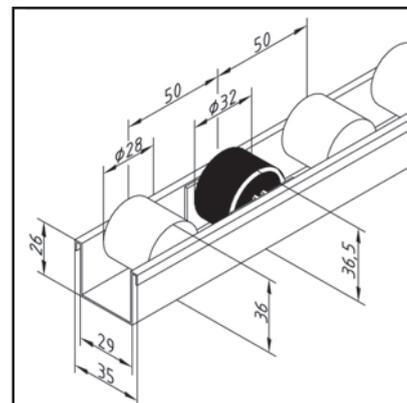
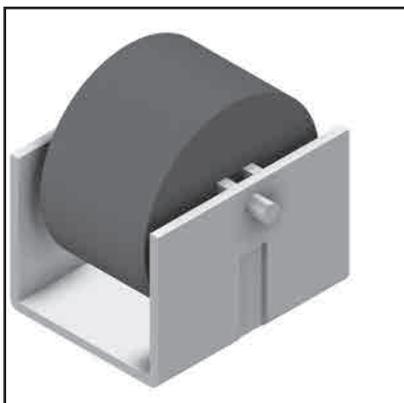
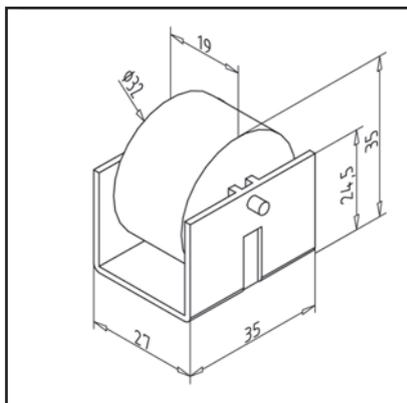
**ASSEMBLY**

- Attach to the miniature roller strip

**MINIATURE ROLLER BRAKE**

Part no.

32.0562/0

**TECHN. DATA / ITEMS SUPPLIED**

- Plastic, black
- Weight = 0.022 kg/set

**APPLICATIONS**

- For use with roller rails with a slope, for braking the conveyed material

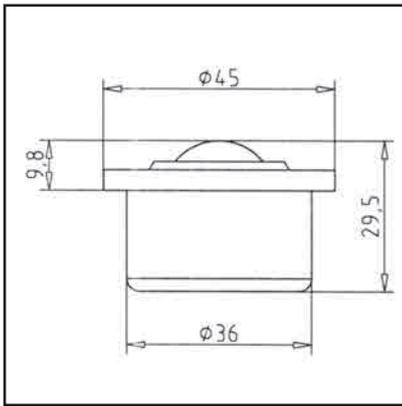
**ASSEMBLY**

- Remove the existing miniature rollers from the roller strip
- insert support at the same place and clip brake-roller in
- When installing, pay attention to the direction of the bracket and the miniature rollers

**BALL ROLLER**

Part no.

35.0041/0

**TECHN. DATA / ITEMS SUPPLIED**

- Housing made of steel sheet, galvanized, steel balls
- DW 22,2 mm
- Load factor C 1200 N
- Weight = 0.130 kg/piece

**APPLICATIONS**

- Ball rollers for conveyor systems and automation systems
- Enable a simultaneous longitudinal and transverse movement
- Installation in work tables or roller tracks
- Ball roller also as suspension for boxes, devices, furniture and appliances

**ASSEMBLY**

- Insert into prepared bore
- Or install with tolerance ring **part no. 35.0001/0**
- Caution: for mounting with tolerance ring of other bore diameter ( $37.7 + 0.2$  mm)