

rope pulleys

Based on the groove shapes we offer 3 main types of rope pulleys:



RETURN TRANSFER SEPARATOR

Return Pulley

Deep groove 50° pulley mainly used when ropes are straight in line between rope stretcher and dryer groove. 90° groove pulleys are used to move rope in line with dryer groove in the rope Nip formation and generally for making a rope deviation without the rope rubbing against pulley flank.

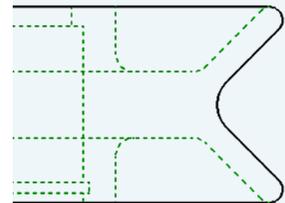
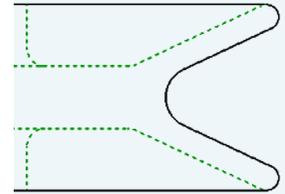
| PRODUCT CODES | External diameter | Groove diameter |
|---------------|-------------------|-----------------|
|---------------|-------------------|-----------------|

Return pulley, 1 groove 50°

| | | |
|------|-----|-----|
| 1105 | 198 | 125 |
| 1106 | 225 | 152 |
| 1108 | 278 | 205 |
| 1110 | 328 | 255 |
| 1112 | 378 | 305 |
| 1114 | 428 | 355 |
| 1116 | 478 | 405 |

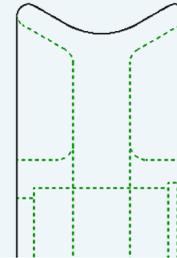
Return pulley, 1 groove 90°

| | | |
|--------------|------|-----|
| CH8-10020800 | 117 | 80 |
| 1401 | 150 | 110 |
| 1402 | 170 | 130 |
| 1403 | 192 | 152 |
| 1404 | 218 | 178 |
| 1405 | 1405 | 208 |



Transfer Pulley

Used for free transfer area where the tail is carrying on long distance without support like in the press section, size press or pope reel. The transfer groove profile allows a tight grip of the tail between the 2 or 3 ropes thanks its special V groove design. Transfer groove profile is also used for roll pulleys.



| PRODUCT CODES | External diameter | Groove diameter |
|---------------|-------------------|-----------------|
|---------------|-------------------|-----------------|

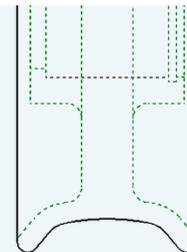
Transfer pulley, 2 ropes

| | | |
|------|-----|-----|
| 2101 | 141 | 120 |
| 2103 | 226 | 205 |
| 2102 | 173 | 152 |

Transfer pulley, 3 ropes

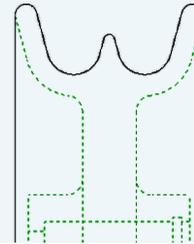
| | | |
|--------------|-----|-----|
| CH8-11110400 | 106 | 80 |
| 3106 | 178 | 152 |
| 3108 | 231 | 205 |
| 3111 | 316 | 290 |

The "Curved groove profile" keeps a continuous lateral pressure on the ropes to hold the tail tightened.



Separator Pulley

Mainly used for design the Nip point on a 3 rope system or used for tail releasing area with limited available space.



**PRODUCT
CODES**

**External
diameter**

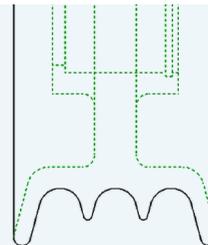
**Groove
diameter**

Separator pulley, 2 grooves

| | | |
|------|-----|-----|
| 2204 | 162 | 110 |
| 2206 | 204 | 152 |
| 2208 | 257 | 205 |
| 2210 | 307 | 255 |

Separator pulley, 3 grooves

| | | |
|------|-----|-----|
| 3306 | 206 | 152 |
| 3308 | 259 | 205 |

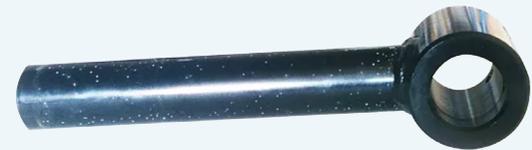


Mounting Hardware

T-ARM

Made in solid steel with black powder treatment for avoid rust formation. Two mounting holes and screws are available on the T-arm head for allow a proper pulley axis tightening.

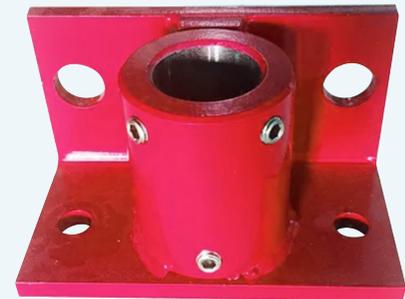
| PRODUCT CODES | diameter |
|----------------|----------|
| T-ARM, Ø 40 mm | 40 |
| T-ARM, Ø 45 mm | 45 |



FASTENING BLOCK

Made in solid steel with double epoxy coating for avoid rust formation. Horizontal or vertical block installation possible with the 4 mounting holes available + available pre-drilled pinning hole. T-arm or straight pulley axis can be directly installed into the block. Special custom designed equipment and stainless steel range is also available onrequest

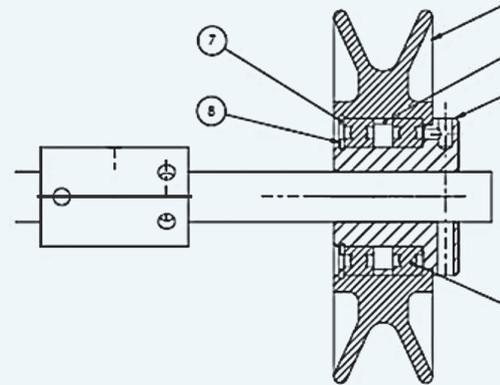
| PRODUCT CODES | diameter |
|--------------------------|----------|
| Fastening Block, Ø 40 mm | 40 |
| Fastening Block, Ø 45 mm | 45 |



Mounting Hardware

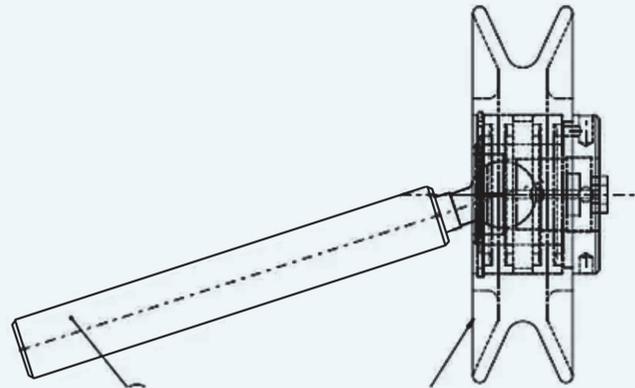
Simple mounting

The pulley is mounted on a straight shaft where no orientation of the pulley on its own shaft is possible.



Swivel mounting

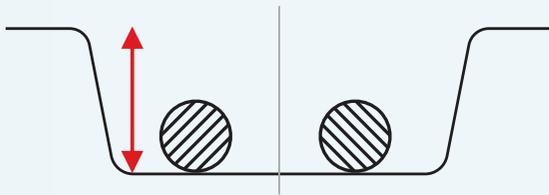
The angle of the pulley can be modified (max 30° angle) to change rope direction. The pulley is directly mounted on a shaft with a spherical ball head. When the pulley angle is determined the pulley is locked with the locking nut



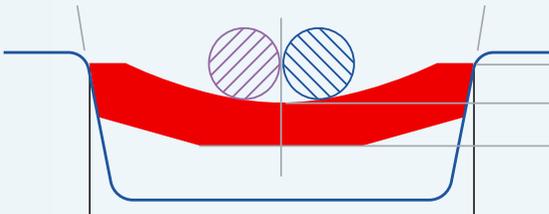
The Optirings

When dryer groove depth is too important, the speed difference between the ropes and the dryer surface (paper web) cause tail breaks during threading operations due to tail slack buildup. This problem is easily solved by installing our well know Optiring™ who will give the optimum level of the rope groove diameter.

EXCESSIVE GROOVE DEPTH



PROPER GROOVE DEPTH



PRODUCT DESCRIPTION

Standard ring (below 10 units)

Standard ring (10 – 15 units)

Standard ring (over 15 units)

Machined Optiring (below 10 units)

Machined Optiring (10 – 15 units)

Machined Optiring (over 15 units)

Rope Stretchers

OPTITENSION™ pneumatic stretcher having a direct connected slide carriage/cylinder construction, the rope system will run with a sufficient and constant rope tension. This construction makes the rope stretcher less sensitive to all possible contaminations existing on the machine. MATECH Paper stretchers have a robust designed with a minimum number of moving parts. Made for easy maintenance.

Vertical rope stretcher

2 ropes / 4 meters

2 ropes / 5 meters

2 ropes / 6 meters

2 ropes / 7 meters

2 ropes / 8 meters

Horizontal rope stretcher

2 ropes / 4 meters

2 ropes / 5 meters

2 ropes / 6 meters

2 ropes / 7 meters

2 ropes / 8 meters

Stretcher guards

upper guard for horizontal stretcher

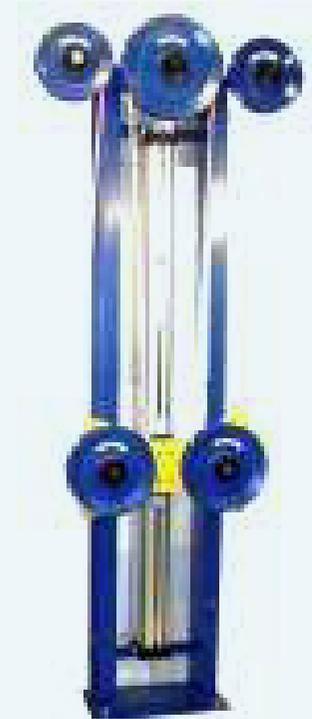
full guard horizontal stretcher

full guard vertical stretcher

Stretcher Control Box

manual control box

control box hi / low 2 ropes





Map of the World

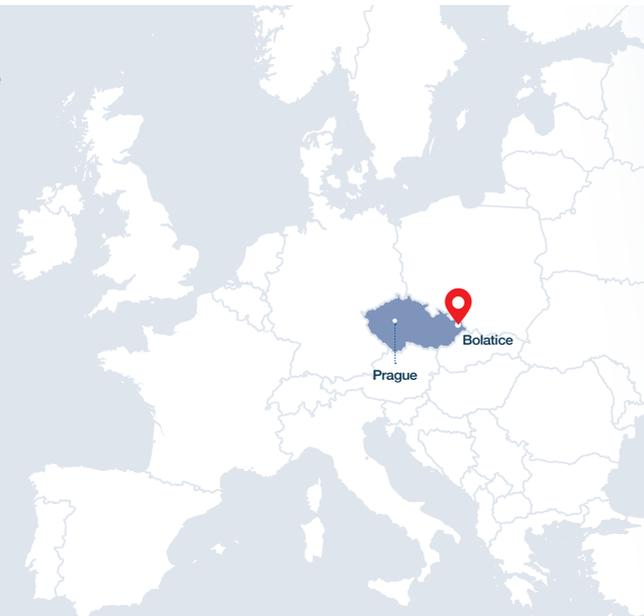
Europe



Map of Europe

Czech Republic

Map of Czech Republic



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