

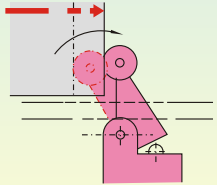
## SHOCKLESS STOPPER CYLINDERS

### MSBD series

( $\phi$  32-20,  $\phi$  50-30,  $\phi$  60-30,  $\phi$  80-40)



The built-in shock absorber softly catches and stops the work carrier. The strength of absorber can be easily adjusted, which makes the cylinder work in the best condition, conforming to the speed of the conveyor line and the weight of the work carrier.



## STOPPER CYLINDERS with ROLLER

### MSBR series

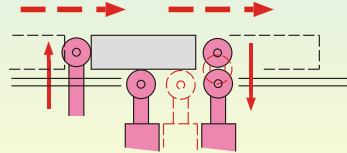
( $\phi$  20 /  $\phi$  32-20,  $\phi$  40 /  $\phi$  50-30)

### MSAR series

( $\phi$  32 /  $\phi$  50 /  $\phi$  80-30)



The top rollers with the built-in spring return in touch with the bottom of the work carrier. Automatically returns up to the original position as the work carrier pass by, and immediately works as a stopper for the next work carrier. Therefore the timing carriers does not need to be taken.



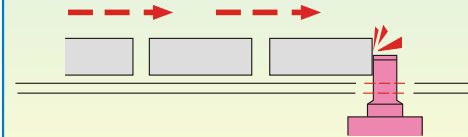
## DIRECT STOPPER CYLINDERS

### MSBS series

( $\phi$  20-10,  $\phi$  32-20,  $\phi$  50-30)



Rod and cylinder are designed for toughness against the large side load. Also suitable for the relatively slow-moving conveyor line with the heavy work carriers.



## HORIZONTAL STOPPER CYLINDERS

### MSLD series

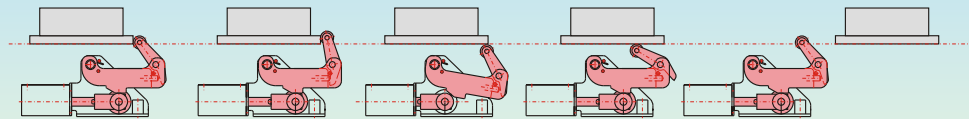
( Shockless )

(  $\phi$  50-50 )



● MSLD type application

WORKS CONVEYING DIRECTION



### MSLL series

( Roller )

(  $\phi$  25 /  $\phi$  40-30 )



Horizontal stopper cylinder of lower height for conveying the heavy work carriers. Suitable as a stopper cylinder for accumulating line, ageing line, and mult-stage conveyor line. Softly stops the work carriers of heavy weight and high speed.

## HORIZONTAL PUSH & PULL STOPPER CYLINDERS

### MSLP series

Push type MSLP-P

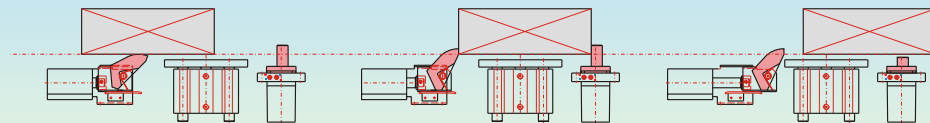
Pull type MSLP-CP

(  $\phi$  32-40 )



● Push type application

WORKS CONVEYING DIRECTION



Conveying pass freely from left.

Use lever to prevent from reverse direction of work when stopped by cylinder to make sure of high accurately location.

After processing, use cylinder to push off position.