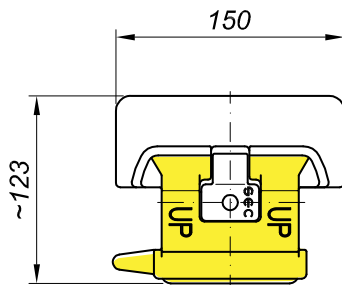
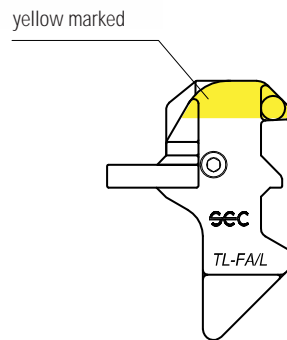
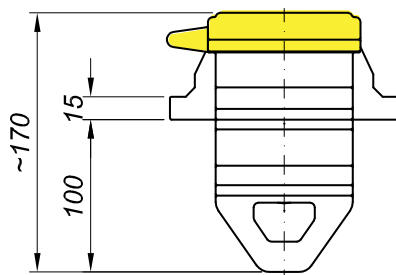


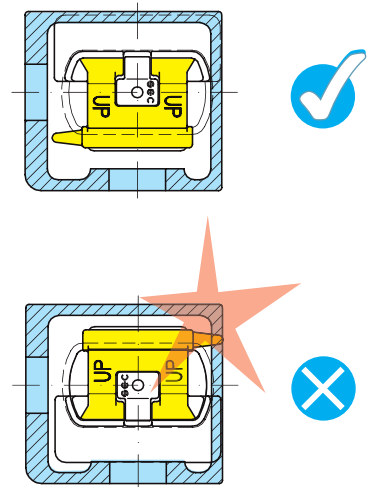
Fully-automatic twistlocks

PATENTED

TL-FA/L
~ 5.7 kg



Function of pin



Patented

Wrong insert is not possible because the pin interferes with corner casting.

Specification

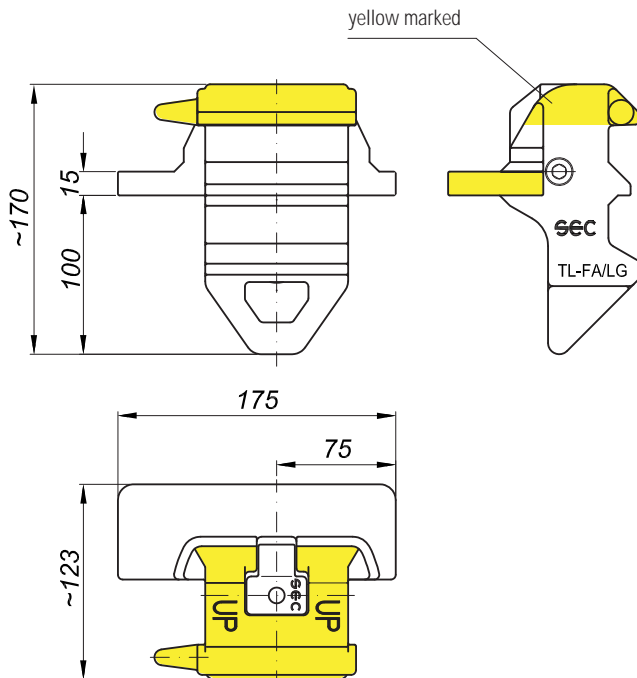
- Min. breaking loads tension 500 kN / shear 420 kN
- Approved by ABS, BV, DNV, GL and LRoS
- Fully automatic locking / unlocking function when loading and unloading
- No need to use operation rods for unlocking
- Safe locking against lifting forces during voyage
- Fully complies to OSHA regulations
- Large resting area according GL rules for highest pressure forces
- No restrictions for the application of different lashing systems
- Vertical clearance same as for semi-automatic twistlocks
- Hot dip galvanised with stainless steel components
- Upper cone marked yellow
- Suitable for lifting with twin spreader
- One piece housing made of high tensile cast steel
- Hot dip galvanised with stainless steel components
- Maintenance is not required
- Minimized thickness of flange but still it can be seen from deck level whether a FAT has been inserted between upper tiers or not

Fully-automatic twistlocks

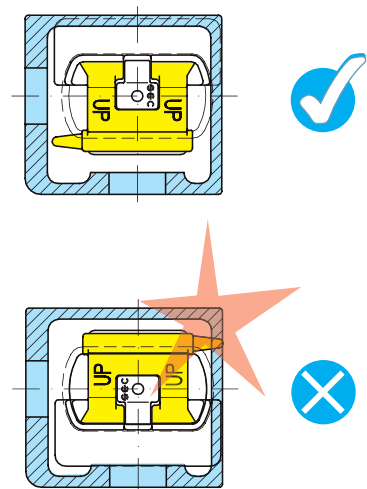
PATENTED



TL-FA/LG
~ 5.9 kg



Function of pin



Patented

Wrong insert is not possible because the pin interferes with corner casting.

Specification

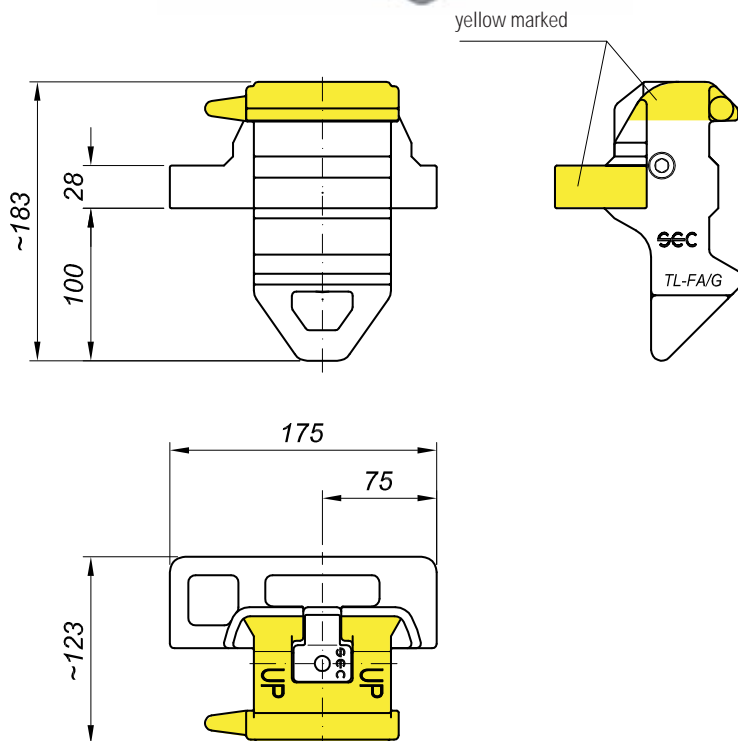
- Min. breaking loads tension 500 kN / shear 420 kN
- Approved by ABS, BV, DNV, GL and LRoS
- Fully automatic locking / unlocking function when loading and unloading
- No need to use operation rods for unlocking
- Safe locking against lifting forces during voyage
- Fully complies to OSHA regulations
- Large resting area according GL rules for highest pressure forces
- No restrictions for the application of different lashing systems
- Vertical clearance same as for semi-automatic twistlocks
- Hot dip galvanised with stainless steel components
- Upper cone marked yellow
- Suitable for lifting with twin spreader
- One piece housing made of high tensile cast steel
- Hot dip galvanised with stainless steel components
- Maintenance is not required
- Compared to TL-FA/L this FAT has an enlarged flange area which is flush with the front of the corner casting and with additional yellow colour marking so that it is easier to see if the FATs have been inserted in all four corners.

Fully-automatic twistlocks

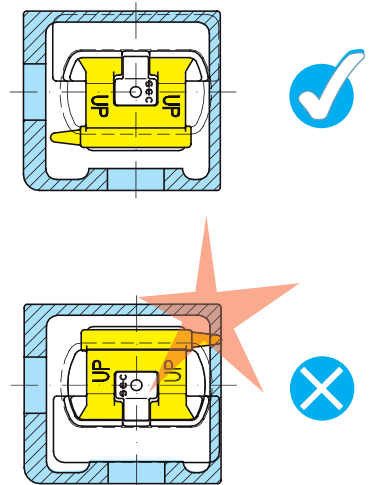
PATENTED



TL-FA/G
~ 6.8 kg



Function of pin



Patented

Wrong insert is not possible because the pin interferes with corner casting.

Specification

- Min. breaking loads tension 500 kN / shear 420 kN
- Approved by ABS, BV, DNV, GL and LRoS
- Fully automatic locking / unlocking function when loading and unloading
- No need to use operation rods for unlocking
- Safe locking against lifting forces during voyage
- Fully complies to OSHA regulations
- Large resting area according GL rules for highest pressure forces
- No restrictions for the application of different lashing systems
- Vertical clearance same as for semi-automatic twistlocks
- Hot dip galvanised with stainless steel components
- Upper cone marked yellow
- Suitable for lifting with twin spreader
- One piece housing made of high tensile cast steel
- Hot dip galvanised with stainless steel components
- Maintenance is not required
- Preferably to be used for replacement of existing SAT equipment because flange thickness is same so that there is no effect on the lashing length