



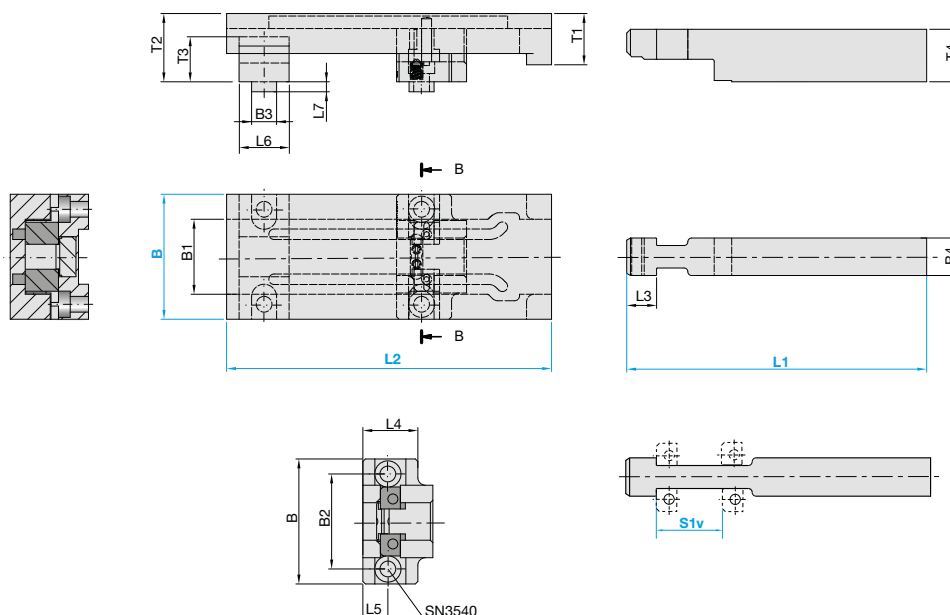
## Z41

Flat latch lock with parallel key

DLC   

Mat.: St + DLC

T: 180° C

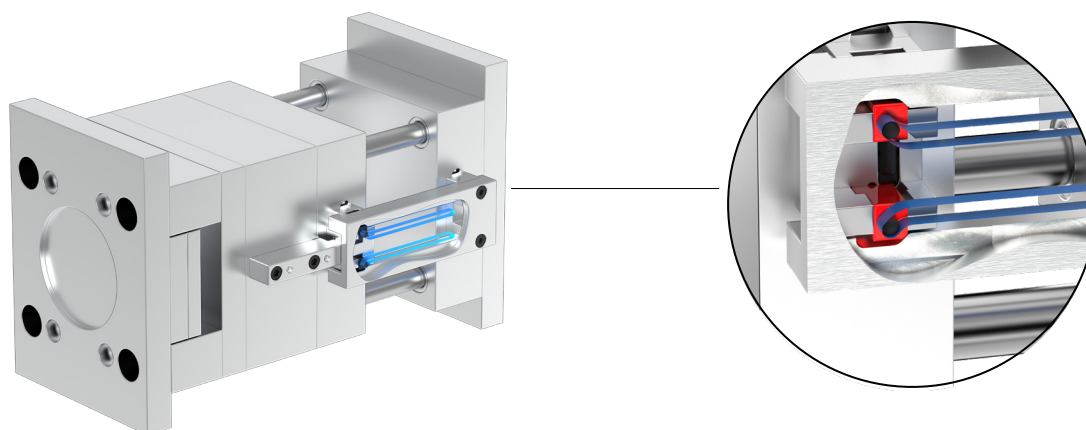


Other lengths L1, L2 and S1v on request

| B  | L1  | L2  | S1v | B1 | B2 | B3 | B4   | L3   | L4 | L5   | L6 | L7 | T1   | T2   | T3 | T4 | SN3540- | Order No.        |
|----|-----|-----|-----|----|----|----|------|------|----|------|----|----|------|------|----|----|---------|------------------|
| 50 | 146 | 146 | 0   | 30 | 38 | 10 | 15   | 12   | 22 | 10   | 20 | 4  | 22.5 | 27.3 | 18 | 21 | M6-16   | Z41-50-146-146-0 |
| 75 | 196 | 196 | 0   | 45 | 56 | 15 | 22.5 | 18   | 33 | 16.5 | 30 | 6  | 31   | 40.5 | 27 | 31 | M8-20   | Z41-75-196-196-0 |
| 90 | 246 | 246 | 0   | 54 | 72 | 18 | 27   | 21.5 | 40 | 20   | 36 | 7  | 36.5 | 49.5 | 32 | 38 | M10-30  | Z41-90-246-246-0 |

### Technical data

| B [mm] | Quantity | Tensile force Fz max [kN] | Locking force Fv max [kN] |
|--------|----------|---------------------------|---------------------------|
| 50     | 2        | 30                        | 10                        |
| 75     | 2        | 50                        | 30                        |
| 90     | 2        | 90                        | 40                        |





## Z41

Flat latch lock with parallel key

DLC

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### Operation of the STRACK Z41 Latch lock without delay

#### Figure 1 – Mold Closed

The mould is in the closed position.

#### Figure 2 – Opening of Mold Plate H1 (Stroke S1)

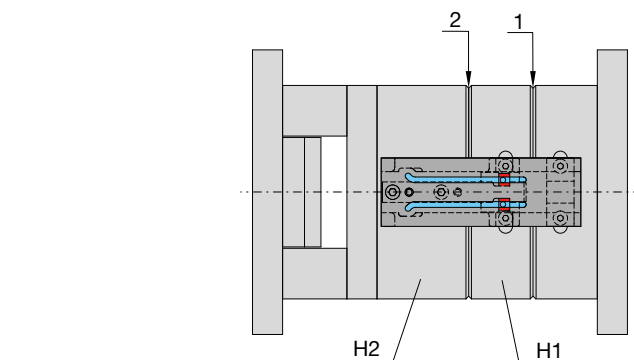
During mould opening, mould plate H1 is initially pulled at parting line 1 by the defined stroke S1. The movement ends when the latch housing (1) contacts the control plate (2). At the same time, mould plate H1 is locked and positioned by the latch elements (6).

#### Figure 3 – Opening of the Main Parting Line (Stroke S2)

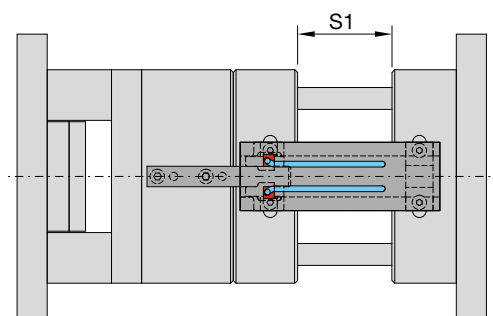
Once stroke S1 has been completed, mould plate H1 is fully positioned and securely locked. As the moving mould half continues to travel, the main parting line 2 opens by stroke S2, allowing the moulded parts to be safely removed. During mould closing, the movement sequence takes place in the reverse order, returning all components to their initial position for the next moulding cycle.

The STRACK Z41 Latch Lock ensures a precise, safe and highly repeatable opening sequence for moulds with multiple parting lines.

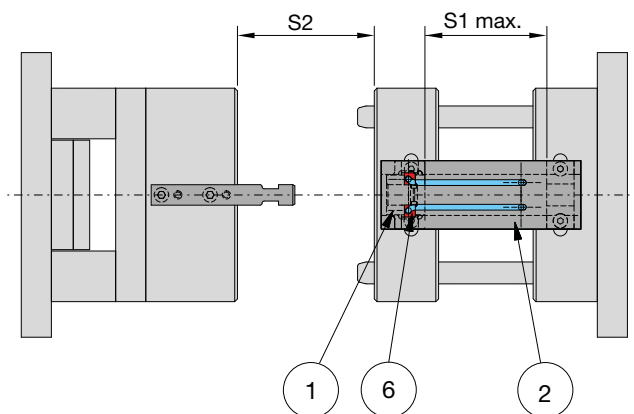
| STRACK Norm      | S1min | S1max |
|------------------|-------|-------|
| Z41-50-146-146-0 | 5     | 89    |
| Z41-75-196-196-0 | 7,5   | 110   |
| Z41-90-246-246-0 | 9     | 142   |



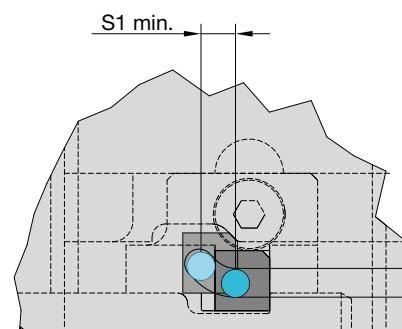
1



2



3





## Z41

Flat latch lock with parallel key



### Operation of the STRACK Z41 Latch lock with delayed stroke

#### Figure 1 – Mould closed

The mould is in the closed position.

#### Figure 2 – Delayed stroke S1v

At the beginning of the mould opening sequence, parting line 1 between mould plates H1 and H2 opens by the defined delayed stroke S1v. During this movement, mould plate H1 in parting line 2 remains closed due to frictional forces.

#### Figure 3 – Opening of parting line 2 (Stroke S2)

After the delayed stroke S1v has been completed, the Z41 is released by the control cams of the control plate. Mold plate H1 is then pulled in a controlled manner by stroke S2 while being securely positioned at the same time.

#### Figure 4 – Opening of the main parting line (Stroke S3)

Once stroke S2 has been completed, mould plate H1 is fully positioned and locked. The main parting line 1 between H1 and H2 then opens to its final position by stroke S3, allowing the moulded parts to be safely removed. During mould closing, the movement sequence takes place in the order S3 -> S2.

The STRACK Z41 Latch lock provides a precise and highly repeatable opening sequence for moulds with multiple parting lines.

