```
FUNCTION BLOCK FB SCHMALZ
 1
        VAR INPUT
            st_pilz : ST PILZ;
 3
            rMechanicalAngle : REAL;
 4
 5
            iState : INT ;
            i xVacumOK : BOOL;
 7
       END VAR
 8
       VAR_OUTPUT
            q_xVacum
 9
                        : BOOL ;
            q xBlowOff :
10
                            BOOL ;
11
       END_VAR
       VAR
12
            _StartBlowOffAngle : REAL;
13
           _StopBlowOffAngle : REAL;
14
           _StartVacumAngle : REAL;
15
                               : REAL ;
           _StopVacumANgle
16
17
           iSstate: INT;
            stPilz
18
                                : ST PILZ ;
           fbVacumComtron
                             : FB_isInAngleRange; // VACUM CONTROL
: BOOL;
19
20
           bVacumInRange
           fbBlowOffControl : FB isInAngleRange;
21
                               : BOOL ;
22
           bBlowOfInRange
23
      END_VAR
24
 1
       //Kopiraj vrednosti iz inputa
 2
        _stPilz := st_pilz;
 3
 5
        //vklop samo v state 30 ali state 35 -> ko je sinhronizirano
 6
       IF iState = 30 OR iSstate = 35 THEN
 7
                                                       //----TURN ON
        ANGLE----, TURN OFF ANGLE ----, MECHANICAL ANGLE---//
              P_VacumOnOff := M_AngleControlStatus(
 8
        \_stPilz.rTurnOnAngleVacum, \ \_stPilz.rTurnOffAngleVacum, \ rMechanicalAngle);
 9
              P BlowOffOnOff
        M AngleControlStatus ( stPilz.rTurnOnANgleBlowOff,
       stPilz.rTurnOffAngleBlowOff, rMechanicalAngle);
10
11
        ELSE
               P VacumOnOff
12
                                  := FALSE;
               P_BlowOffOnOff
13
                                    := FALSE;
14
       END IF
15
16
       fbVacumComtron (rOnAngle:= _stPilz.rTurnOnAngleVacum , rOffAngle:= _stPilz.rTurnOffAngleVacum , rMechanicalAngle:= rMechanicalAngle ,
17
        xisInRange => bVacumInRange );
       fbBlowOffControl (rOnAngle := _stPilz .rTurnOnANgleBlowOff , rOffAngle := _stPilz .rTurnOffAngleBlowOff , rMechanicalAngle := rMechanicalAngle ,
18
        xisInRange => bBlowOfInRange );
19
20
       //**********
21
22
       IF iState = 30 OR iState = 35 THEN
23
           //Vakum
```

```
\textbf{IF} \quad ( \,\, \texttt{rMechanicalAngle} \,\, \gt \,\, \, \, \, \texttt{st\_pilz.rTurnOnAngleVacum} \,\, ) \quad \textbf{AND}
25
                ( rMechanicalAngle < st pilz .rTurnOffAngleVacum ) THEN</pre>
26
27
                q_xVacum := NOT TRUE;
                q xBlowOff := FALSE;
28
29
30
            //IZPIH
31
            32
                ( rMechanicalAngle > st_pilz . rTurnOffAngleBlowOff ) AND
33
                i_xVacumOK THEN
                    //q_xVacum := NOT FALSE;
34
                    q_xBlowOff := TRUE;
35
36
            ELSE
37
                    q_xVacum := NOT FALSE;
                    q_xBlowOff := FALSE;
38
39
            END IF;
40
41
       ELSE
            //Izklop vakuma in BlowOffa
42
43
           q xVacum := NOT FALSE; //Ngacija izhoda
44
           q xBlowOff := FALSE;
45
       END_IF
46
47
       //*********
48
49
       IF iState = 30 OR iState = 35 THEN
50
              P VacumOnOff := bVacumInRange;
51
               P BlowOffOnOff := bBlowOfInRange AND i xVacumOK;
52
       ELSE
53
               P VacumOnOff := FALSE;
               P_BlowOffOnOff := FALSE;
54
55
       END_IF
56
        *)
57
```