



### PROGRAMACIÓN ROBOT KUKA

Programación krl para robot kuka en final de mesa nº3 :

Programación de Main-program

The screenshot shows the KUKA robot programming software interface. At the top, there is a status bar with 'OL0841' and several control buttons: 'S' (Stop), 'I' (Interlock), 'R' (Reset), 'Aut' (Auto), a speed selector set to '100' and '10', a robot icon, 'T1 B0', and a refresh icon. Below this is a message bar showing the time '16:30:08 23/03/2021 LOS 120' and a notification: 'El usuario registrado cambió de Experto a Operario.' with 'OK' and 'Todo OK' buttons. The main area is an 'Editor' window displaying the following KRL code:

```
1 DEF Main_KUKA_Parking( )
2 INI
3
4 PTP HOME Vel= 100 % DEFAULT
5 ; -----Se?al d inicio
6 WAIT FOR ( IN 1 'TRUE' )
7
8 PTP P1 Vel=100 % PDAT1 Tool[1]:CONO_1 Base[0]
9 $OUT[2] = TRUE ; -----ABRIR PINZA
10
11
12 WAIT Time=1 sec
13 ; -----BAJAR A RECOGER CAR
14
15 LIN P2 Vel=2 m/s CPDAT1 Tool[1]:CONO_1 Base[0]
16
17 WAIT Time=1 sec
18 $OUT[2] = FALSE ;-----ABRIR PINZA
19
20 WAIT Time=1 sec
21
22 ;-----SUBIR A POSICION SEGURA
23 LIN P1 Vel=2 m/s CPDAT2 Tool[1]:CONO_1 Base[0]
24
25 IF $IN[0] == TRUE THEN ;-----ELEGIR MODELO
26 KUKA_MONDEO()
27 ELSE
28 KUKA_KUGA()
29 ENDIF
30
31 ; -----SENYAL DE FIN TRABAJO
32 PULSE 3 '' State=TRUE Time=3 sec
33
34 PTP HOME Vel= 100 % DEFAULT
35 |
36 END
37
```

At the bottom of the editor, there is a status bar showing the file path 'KRC:\R1\PROGRAM\2B\SSM\_M\OSCAR\MAIN\_' and the current cursor position 'Ln 35, Col 0'. Below the status bar are several control buttons: 'Modificar', 'Instruccio...', 'Movimiento', 'Abrir/cerrar Fold', 'Última instrucción', and 'Editar'.



## PROYECTO MEJORA LINEA DE MONTAJE

Programacion modelo "Mondeo"

The screenshot displays the KUKA robot programming software interface. At the top, there is a status bar with the ID 'OL0841' and several control buttons: 'S' (Stop), 'I' (Interlock), 'R' (Reset), 'Aut' (Automatic), a speed dial set to 100/10, a person icon, a 'T1 B0' button, and a refresh icon. Below this is a message bar indicating a tool/base update at 16:40:40 on 23/03/2021. The main area is an editor window titled 'Editor' containing the following macro code:

```
1 DEF KUKA_MONDEO( )
2 INI
3
4 PTP HOME Ve1= 100 % DEFAULT
5 IF $IN[2] == TRUE ; -----POSICION 1 LIBRE
6 |
7 ;-----IR A POSICION SEGURA 1
8 PTP P10 Ve1=100 % PDAT1 Tool[1]:CONO_1 Base[0]
9
10 LIN P11 Ve1=2 m/s CPDAT1 Tool[1]:CONO_1 Base[0]
11
12 WAIT Time=1 sec
13 $OUT[2] = TRUE;-----ABRIR PINZA
14 WAIT Time=1 sec
15 ;-----VOLVER A POSICION SEGURA 1
16
17 LIN P10 Ve1=2 m/s CPDAT2 Tool[1]:CONO_1 Base[0]
18 ELSE ;-----POSICION 2 LIBRE
19 ;-----POSICION SEGURA 2
20 PTP P12 Ve1=100 % PDAT2 Tool[1]:CONO_1 Base[0]
21
22 LIN P13 Ve1=2 m/s CPDAT3 Tool[1]:CONO_1 Base[0]
23
24 WAIT Time=1 sec
25 $OUT[2] = TRUE;-----ABRIR PINZA
26 WAIT Time=1 sec
27
28 ;-----VOLVER A POSICION SEGURA 2
29 LIN P12 Ve1=2 m/s CPDAT4 Tool[1]:CONO_1 Base[0]
30
31 PTP HOME Ve1= 100 % DEFAULT
32
33 END
34
```

The interface also features a vertical toolbar on the right with buttons labeled A1 through A6, and a bottom toolbar with buttons for 'Modificar', 'Instruccio...', 'Movimiento', 'Abrir/cerrar Fold', 'Última instrucción', and 'Editar'. The status bar at the bottom indicates the current position as 'KRC:\R1\PROGRAM\2B\SSM\_M\OSCAR\KUKA\_' at line 6, column 0.



## PROYECTO MEJORA LINEA DE MONTAJE

Programación modelo "Kuga"

The screenshot displays a KUKA robot programming interface. At the top, there is a status bar with the program name 'OL0841' and several control buttons: 'S' (Stop), 'I' (Interlock), 'R' (Reset), 'Aut' (Auto), and a speed selector set to '100' and '10'. There are also buttons for 'T3 B2' and a refresh icon. Below the status bar, a message indicates '17:12:27 23/03/2021 KSS01421' and '/R1/KUKA\_KUGA : 8 Error en análisis'. The main area is an 'Editor' window showing the following G-code program:

```
1 DEF KUKA_KUGA( )
2 INI
3
4 PTP HOME Ve1= 100 % DEFAULT
5
6 IF $IN[3] == TRUE ; -----POSICI?N 1 LIBRE
7
8 ;-----IR A POSICION SEGURA 1
9 PTP P14 Ve1=100 % PDAT1 Tool[3]:HERR_MARIO Base[2]:Jones
10
11 LIN P15 Ve1=2 m/s CPDAT1 Tool[3]:HERR_MARIO Base[2]:Jones
12
13 WAIT Time=1 sec
14 $OUT[2] = TRUE;-----ABRIR PINZA
15 WAIT Time=1 sec
16 ;-----VOLVER A POSICION SEGURA 1
17
18 LIN P14 Ve1=2 m/s CPDAT2 Tool[3]:HERR_MARIO Base[2]:Jones
19 ELSE ;-----POSICION 2 LIBRE
20 ;-----POSICION SEGURA 2
21 PTP P16 Ve1=100 % PDAT2 Tool[3]:HERR_MARIO Base[2]:Jones
22
23 LIN P17 Ve1=2 m/s CPDAT3 Tool[3]:HERR_MARIO Base[2]:Jones
24
25 WAIT Time=1 sec
26 $OUT[2] = TRUE;-----ABRIR PINZA
27 WAIT Time=1 sec
28
29 ;-----VOLVER A POSICION SEGURA 2
30 LIN P16 Ve1=2 m/s CPDAT4 Tool[3]:HERR_MARIO Base[2]:Jones
31 PTP HOME Ve1= 100 % DEFAULT
32
33 END
34
```

At the bottom of the editor, there is a status bar showing the file path 'KRC:\R1\PROGRAM\2B\SSM\_M\OSCAR\KUKA\_' and the current cursor position 'Ln 1, Col 0'. Below the status bar, there are several buttons: 'Modificar', 'Instruccio...', 'Movimiento', 'Abrir/cerrar Fold', 'Última instrucción', and 'Editar'.