



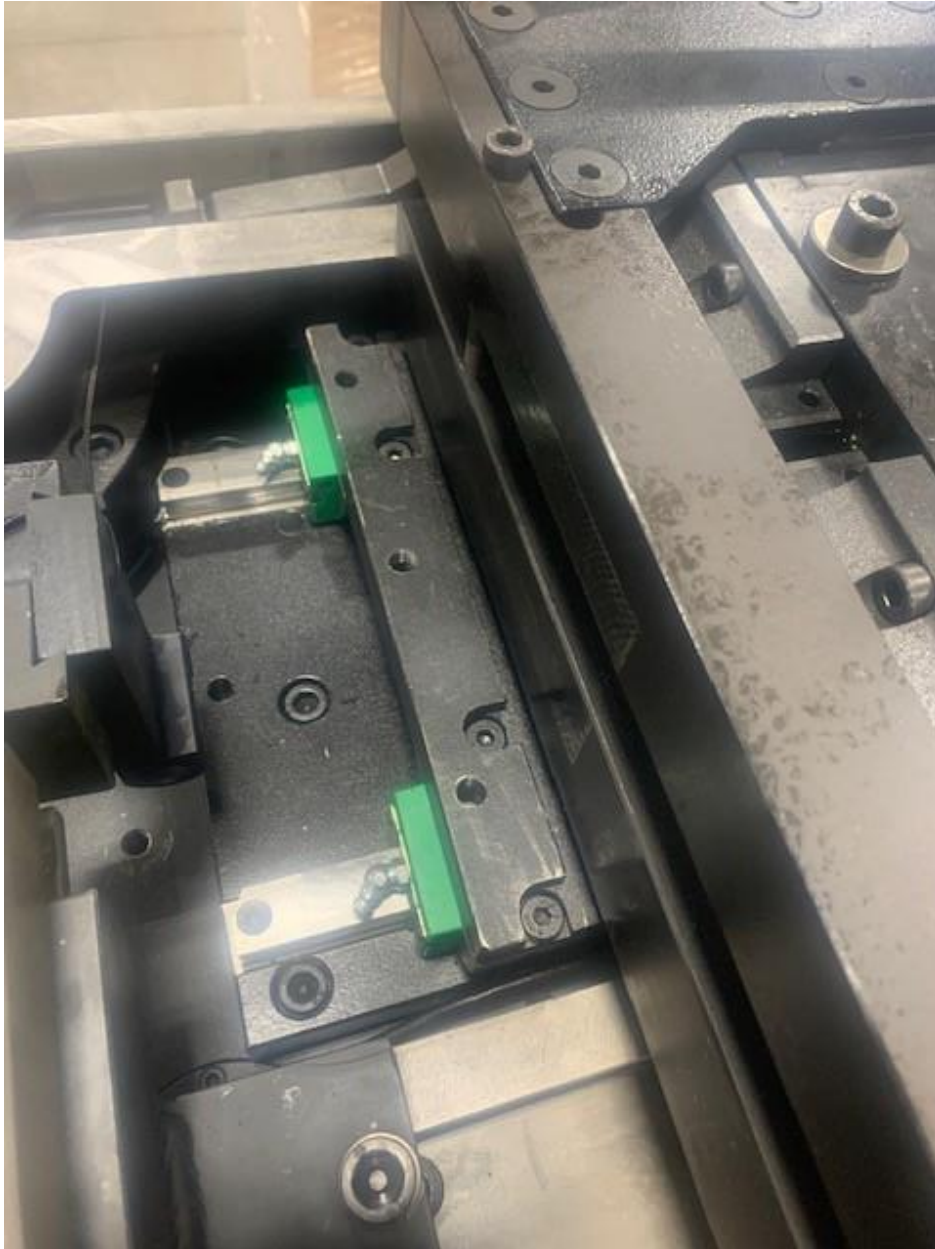
# ERCOBENDER LUBRICATION AND MAINTENANCE

## Linear Guide Lubrication Points

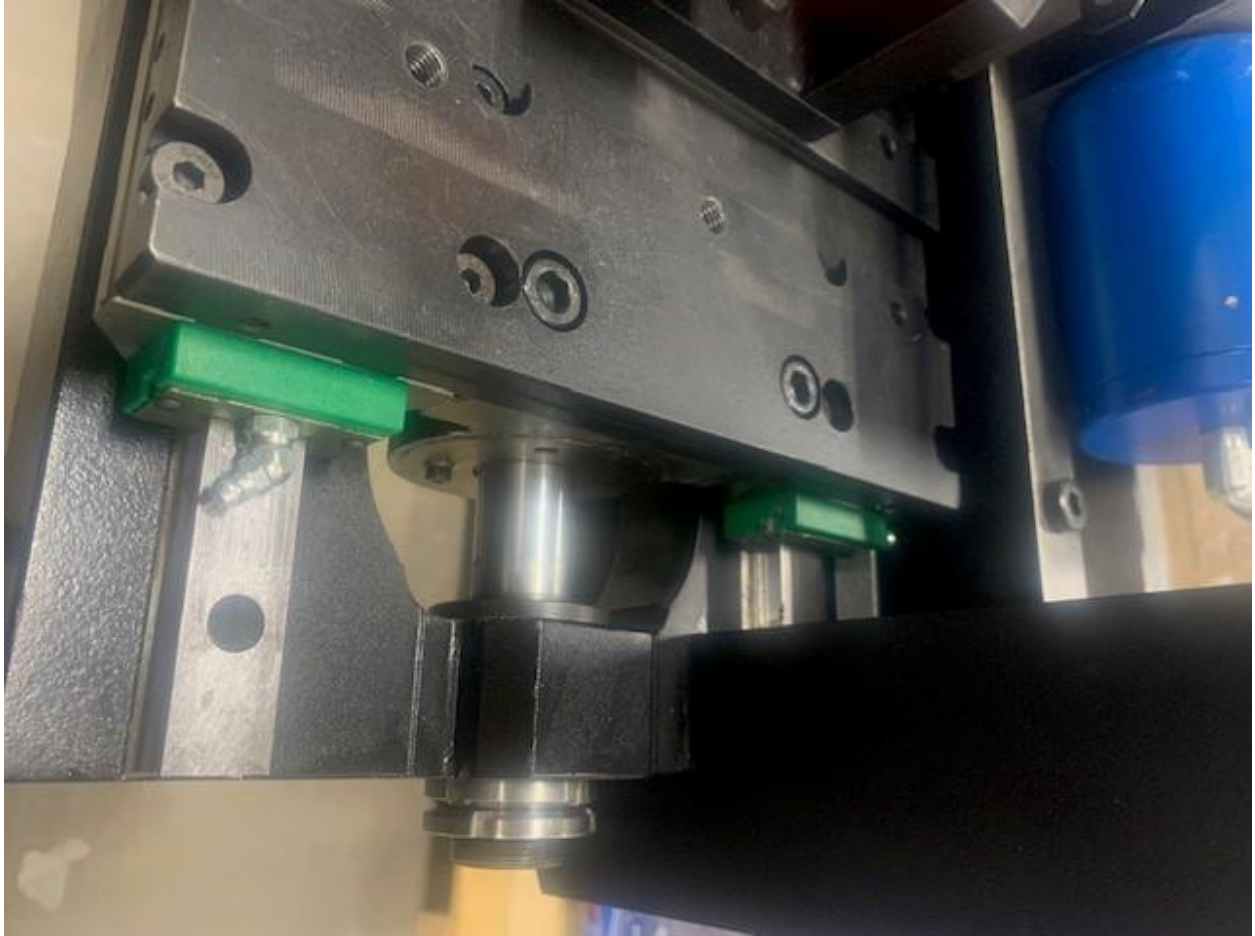
The Erco Bender series of bending machines is equipped with several linear guides. These guides require lubrication, which varies with the production level and hours of machine use.

The recommended lubrication is type NLG1 1 at least once a week or as workload dictates.

The pictures below show the location of the grease fittings.



(Front of the X2, Pressure Die Axis)

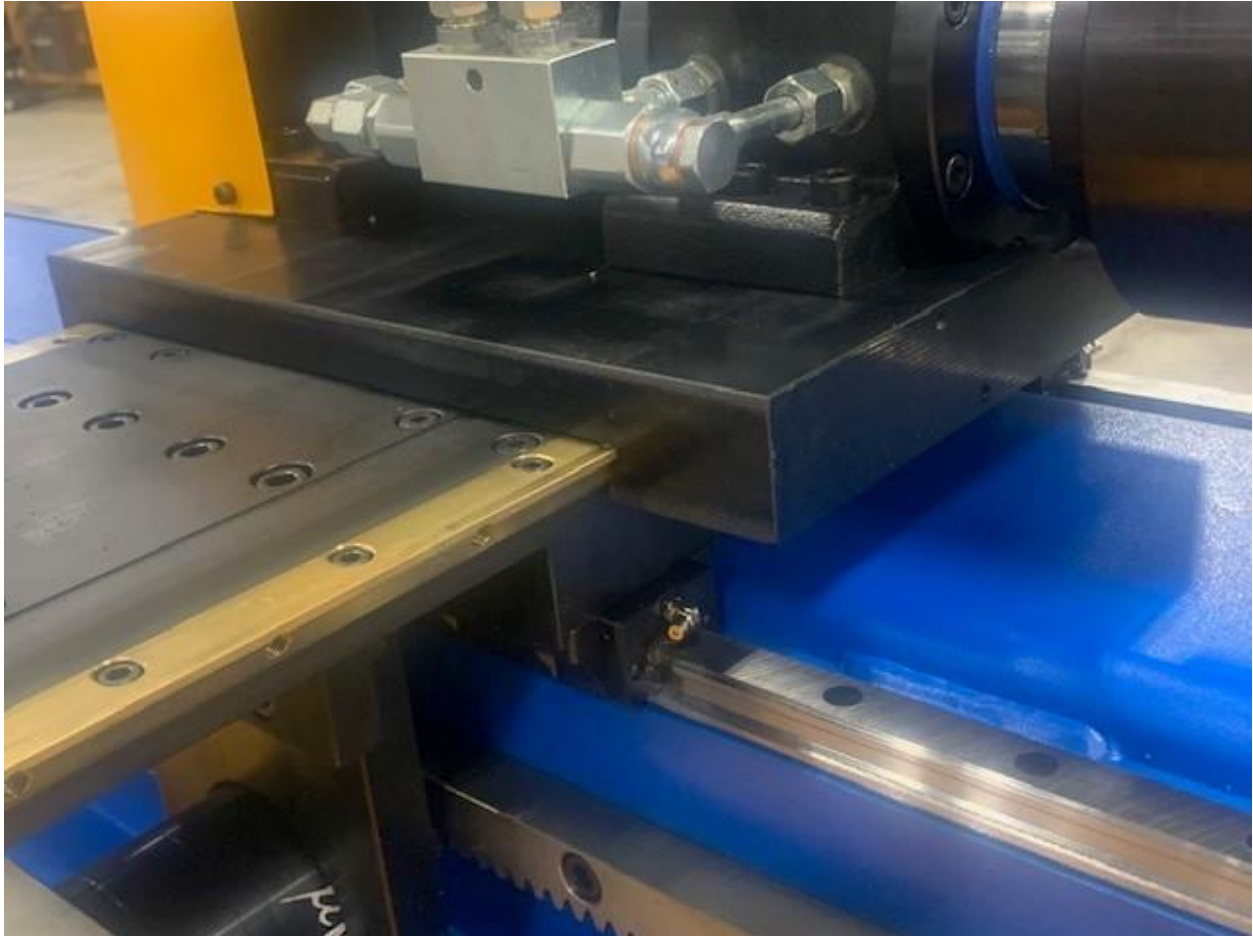


(Rear of X2, Pressure Die Axis)



(Front of Y2, Booster Die Axis)

In addition to the linear guides, there are grease fittings on the Y1 carriage for rotation. The pictures below show their respective location. The required lubrication is the same as the linear guides. Type NLG1 1



(Linear guides on front of carriage both right and left-hand side)





(Left hand, front of Y1 carriage)



(Rear of Y1 carriage)



(Right rear of Y1 carriage)





(B Axis Rotation)



(Rear of barrel, B Axis rotation)

## Hydraulic Maintenance

The chart shown below is a listing of recommended hydraulic oils with weights and manufacturers. Change entire fluid and filters after the initial 200 hours of pump operation. The pump hours are visible in the upper left corner of the SERVICE page on the control tower. Change the hydraulic oil every six months or when indicated by the pressure gauge on the canister assembly.

### *OIL RECOMMENDED FOR THE HYDRAULIC CIRCUIT*

<b>BRAND</b>	<b>TYPE</b>	
AGIP	OSO 32	OSO 46
BP	ENERGOL HLP 32	ENERGOL HLP 46
CASTROL	HYSPIN AWS 32	HYSPIN AWS 46
ELF	ELFOLNA 32	ELFOLNA 46
ESSO	NUTO H 32	NUTO H 46
FINA	HYDRAN 32	HYDRAN 46
IP	HYDRUS 32	HYDRUS 46
MOBIL	DTE 24	DTE 25
Q8	HAYDN 32	HAYDN 46
SHELL	TELLUS 32	TELLUS 46
TEXACO	RANDO HD 32	RANDO HD 46
TOTAL	AZOLLA ZS 32	AZOLLA ZS 46

There is a sight glass located on the front of the reservoir. Fill the reservoir to three fourths up the glass. This will allow for fluid expansion as the oil temperature rises.



(Reservoir Sight Glass)

The machine has three hydraulic oil filters. The main canister filter is located on top of the reservoir tank and has a pressure gauge.



To change, remove the three bolts on the perimeter and lift the top cap off.



There are also screw on filters on each hydraulic pump motor. Access the screw on filters through the cover on top of the reservoir.



(Access panel, top lid of tank)



(Sample pic of Screw On filter)

## Recommended Spare Parts EB65/EB76

Qty	Item Code	Description
1	6022879	Dead Man Switch TB100
1	BML-S2C0-Q53G	X2 Axis Encoder for Erco Bender (Must confirm Serial #)
1	SG10-2000-IV28M	Wire Pull Encoder for ErcoBender / SIKO
1	YC012	Cable for Encoder Connection TB100/130
2	PLC-RSC-240C121	Relay 6A/250V
1	TFO00026	Mandrel Cylinder Hose Assembly EB76
1	FAPC004-TM76	TM76 Clamp Switch Box Assembly
1	MF0062215	Hydraulic Filter, C-Axis pump for Erco Bender
1	MF0062175	Hydraulic Filter, Auxillary pump for Erco Bender
1	MF0062306	Hydraulic Filter, Cannister Pressure Gauge for ErcoBender
1	PCO00063	Flow Control Valve, Erco Booster & 030 Locking Block
2	EB76-B002-02	Clamp Finger for TM76 Erco Bender
1	FAP004/4	Lower Clamp Finger Pin
2	FAP004/3	Clamp Finger Pin
2	FAP004/2	Lower Clamp Finger Spring
1	TB76-250	Air Pressure Switch
1	PCO00092	Alumi. Block for Pressure Die, Clamp, Collet for EB65/76
1	A0603PF00300-02	Gear Spacer
1	P370	Key 5X5X10 UNI 660A4
1	A0603PF00200	Former Return Bushing TM76
1	IL008BE25VB	TB100/130 Hex Shaft Selector Proximity Switch
1	6024893	Handheld Control Relay Switch
1	2966171	KA Relay TM76 Complete Assembly- PLC-RSC-24DC/21
4	FCPN17	Copper Washer 1/2" Pressure Die Cylinder
6	FCP212	Copper Washer for Pressure Die Cylinder TM76

