

**Ordering Code**

**WMCS - TB - 080 - - - - -**

1      2      3      4      5      6      7      8  
 Model      Drive Unit      Size      Stroke      Lead      Driving Side      Mounting Kit Model      Mounting Kit Assembly

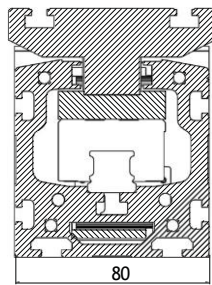
**1 - Model**

**WMCS** : Timing Belt Driven Linear Module

**2 - Drive Unit**

**TB** : Timing Belt

**3 - Size**



**WMCS - TB - 080**

**4 - Stroke**

**0000** : Maximum 4750 mm

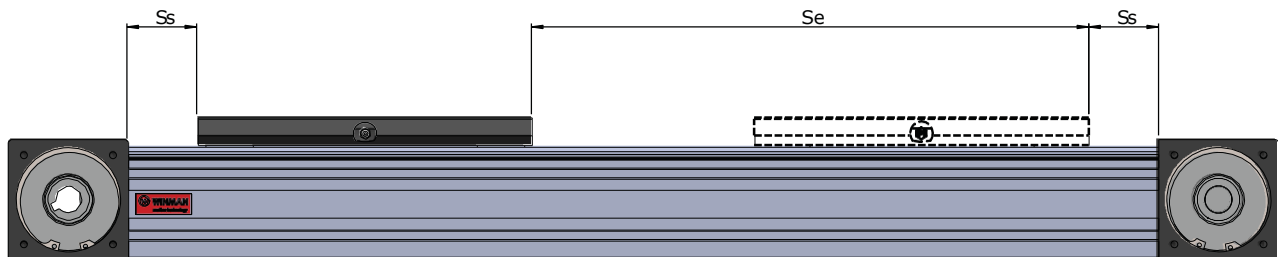
**Movement Stroke**

In addition to the desired movement stroke, it is recommended to leave a space on both sides until 2xPitch.

$$S_m = S_e + 2.S_s$$

$$S_s = 50 \text{ mm}$$

$S_m$  : Movement Stroke  
 $S_e$  : Safety Stroke



**5 - Lead**

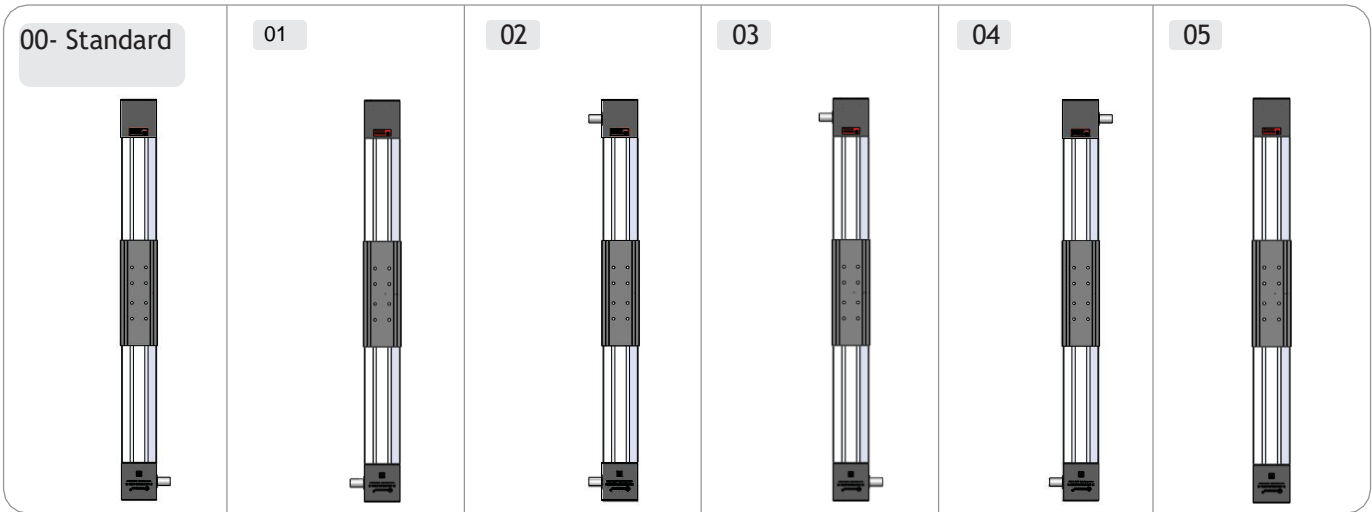
**200** : 200 mm/rev

**Ordering Code**

**WMCS - TB - 080 - - - - -**

- |       |            |      |        |      |              |                    |                       |
|-------|------------|------|--------|------|--------------|--------------------|-----------------------|
| 1     | 2          | 3    | 4      | 5    | 6            | 7                  | 8                     |
| Model | Drive Unit | Size | Stroke | Lead | Driving Side | Mounting Kit Model | Mounting Kit Assembly |

**6 - Driving Side**



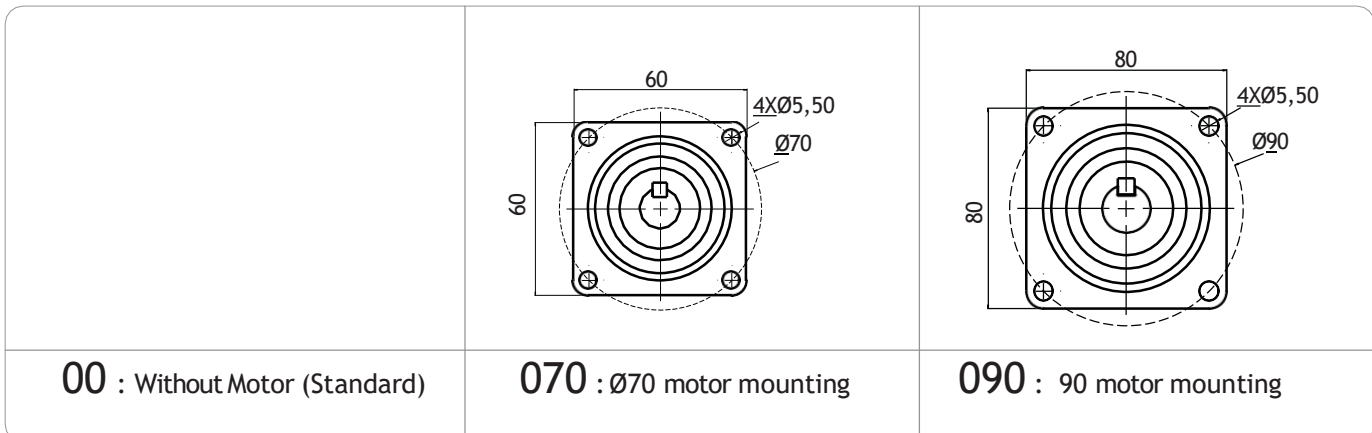
**7 - Mounting Kit Model**

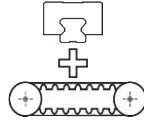
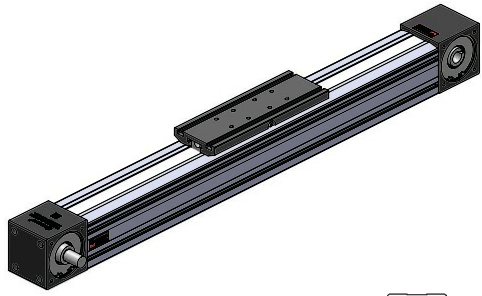


Note 1 : Please contact for different motor types and mounting sizes.

Note 2 : Please contact for to use gearbox.

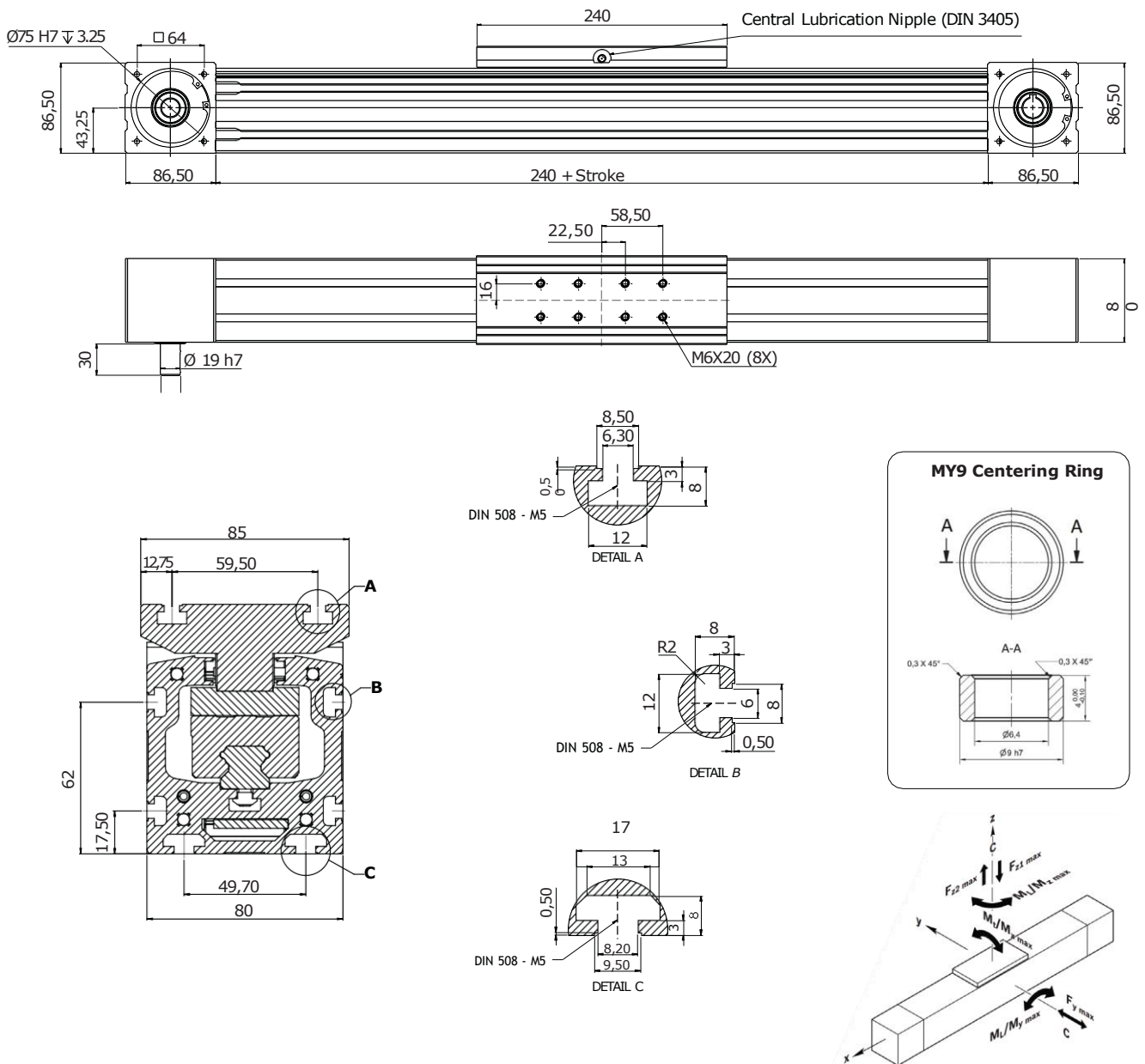
**8 - Mounting Kit Assembly**

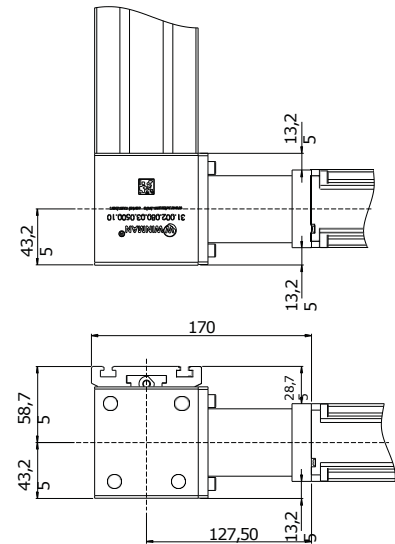
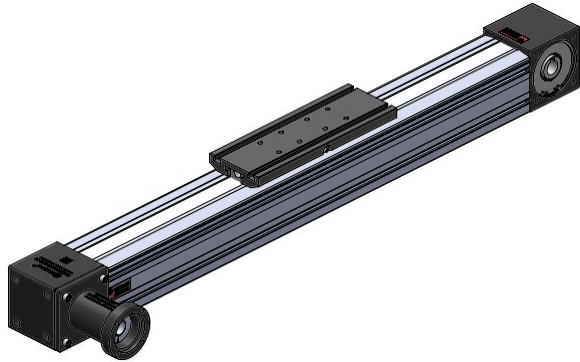
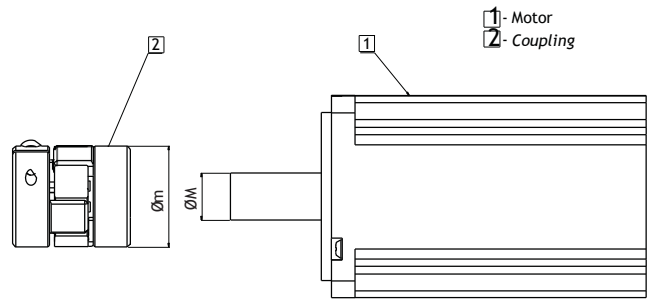
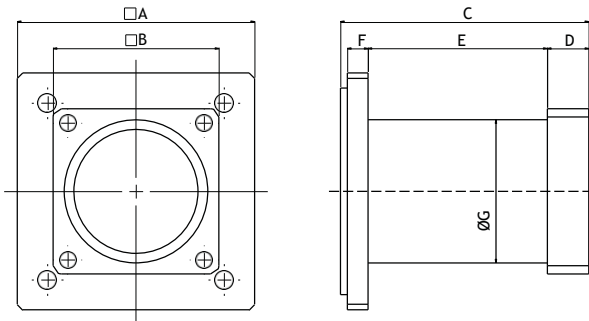


**WINMAN WMCS-080 Series Timing Belt Driven Linear Modules**

**Specification**

Maximum Stroke [mm]	4750				
Minimum Stroke [mm]	60				
Repeating Accuracy [mm]	< 0,1				
Speed [m/s]	≤5,0				
Acceleration [m/s <sup>2</sup> ]	50				
Dynamic Load Capacity [kN]	Dynamic Torsional Moment Load Capacity [Nm]				
C	M <sub>t</sub>		M <sub>L</sub>		
28,7	616		2260		
Max. Permissible Torsional Moment Around The Axis [Nm]			Max. Dynamic Load in Directions [N]		
M <sub>x</sub> max	M <sub>y</sub> max	M <sub>z</sub> max	F <sub>y</sub> max	F <sub>z1</sub> max	F <sub>z2</sub> max
246	904	904	11500	11500	11500

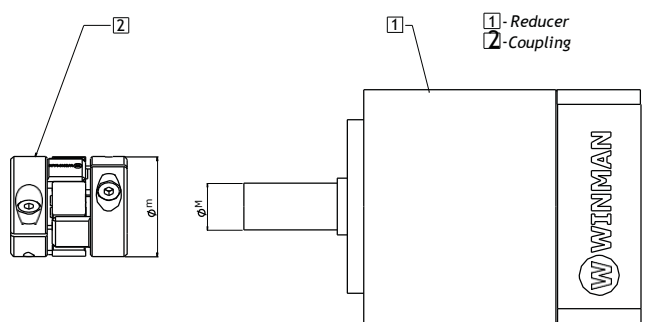
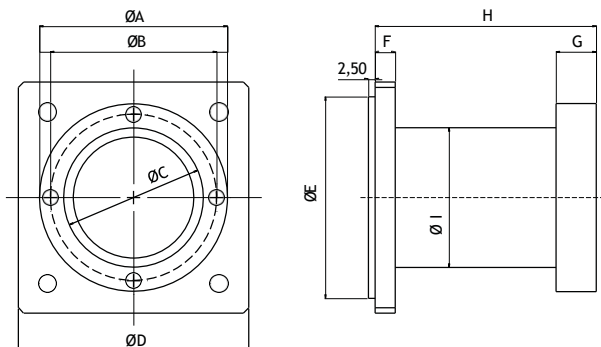
Note : Calculated value are theoretical values. We recommend you to calculate safety factor as five(5).

**Technical Drawing**


**WDAK Axial Mounting Kit**
**Technical Drawing**

**Bellhousing-Coupling**
**Motor Mounting**


Motor Type	A	B	C	D	E	F	G	H
WDAK - 070	86	60	90	15	65	7,5	52	75
WDAK - 090	86	80	92,7	15	64,5	10	55	75

Motor Tipi Motor Type	M	m	Kaplin Modeli Coupling Model
WDAK-070	14	30	WWJCL - 30CRD
WDAK-090	19	40	WWJCL - 40CRD

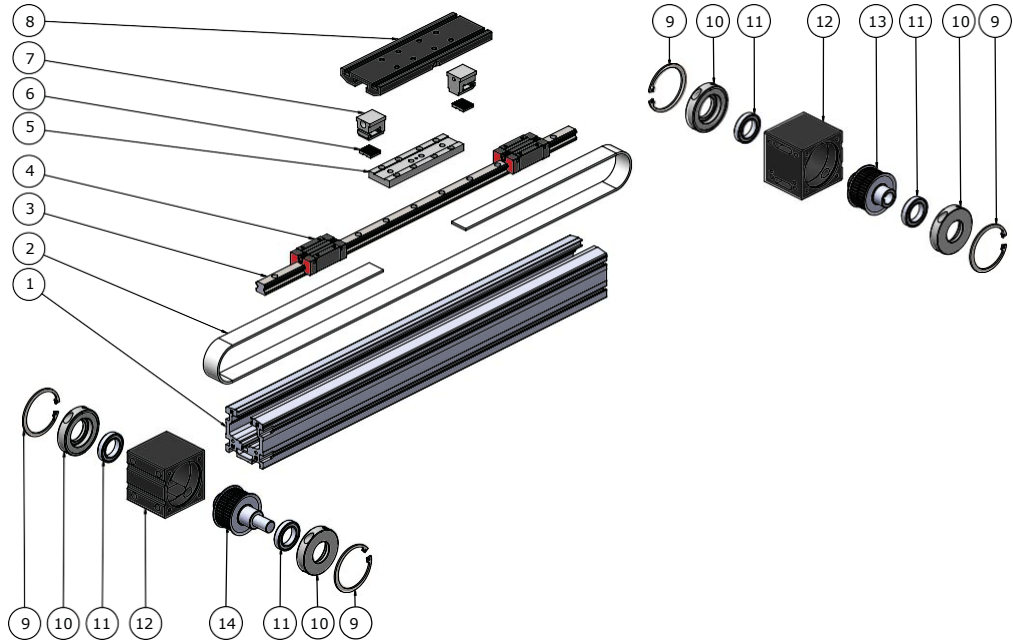
**Reducer Mounting**


Reducer Type	A	B	C	D	E	F	G	H	I
WPL - 070	70	62	52	86	75	7,5	15	82,5	52
WPL - 090	90	80	68	86	75	7,5	15	97,5	60

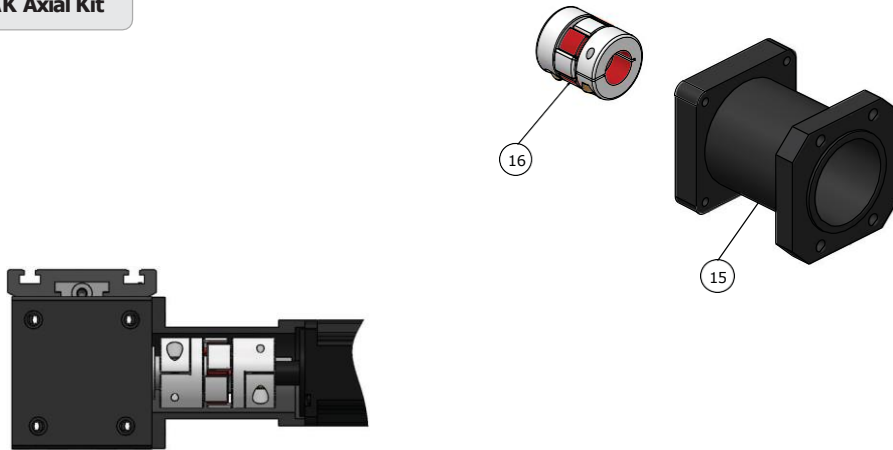
Reducer Type	M	m	Coupling Model
WPL-070	14	30	WWJC - 30CRD
WPL-090	22	40	WWJC - 40CRD

**Assembly**

**WMCS Linear Module**



**WDAK Axial Kit**



Piece	Qty	Part Name	Assembly
1	1	Profile	Module
2	1	Timing Belt	
3	1	Linear Guide	
4	2	Linear Carriage	
5	1	Interface Plate	
6	2	Belt Mounting Parts	
7	2	Belt Mounting Parts 2	
8	1	Mounting Plate	
9	4	Security Clip	
10	4	Bearing Block	
11	4	Bearing	
12	2	Block	
13	1	Transmission Pulley	
14	1	Male Timing Belt Pulley	
15	1	Bellhousing	
16	1	Coupling	

**Maintenance**

Basic lubrication is done in-factory before shipment.

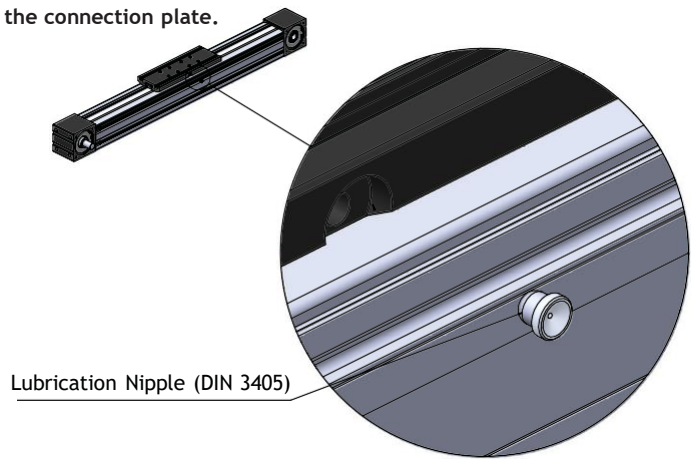
Bearings of the timing belt pulleys have been lubricated for life and will not require in-service lubrication under normal operating conditions.

For lubrication of the compact module, link for lubrication is in the connection plate.

Compact Modules are designed for grease lubricants only!

Lithium soap grease should be used.

**Caution: Do not use grease containing graphite or MoS!**



Lubrication is performed every 400 hours or 800 km total working distance by normal operating conditions.

Lubrication quantity is provided in table by normal operating conditions.

After lubrication, move the linear module along the stroke distance at least three times. Meanwhile, the moving speed should not exceed 10 mm/s.

Belt tension adjustment; It is done at the factory during assembly. Get information to adjust the belt tension during maintenance.

**Normal Working Conditions**

Note : The lubrication quantity specified in the table is valid for normal operating conditions. The lubrication quantity may vary in different operating conditions. Get information for the lubrication quantity in different working conditions.

Ambient Temperature	°C	10 - 40
Speed	m/s	≤ 4,0
Load	kN	≤ 0,2 C
Stroke	mm	> 60
Lubrication Period	Km	800
	Hour	400
Lubricate Dose	cm <sup>3</sup>	5