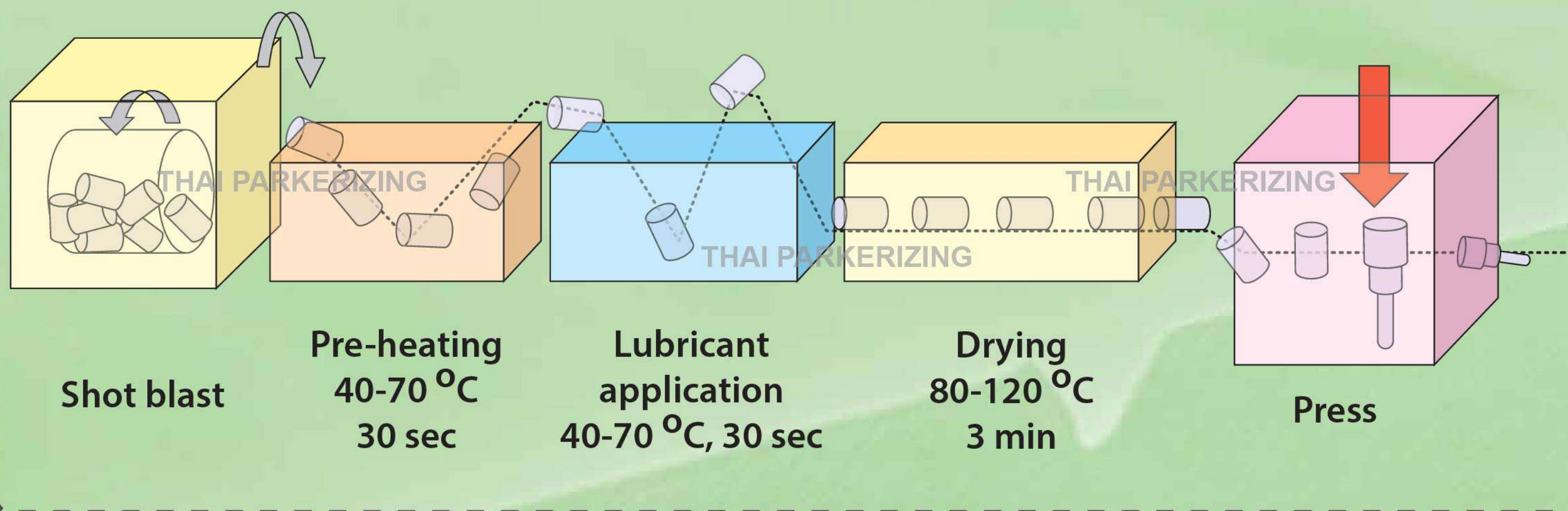


# PULS

## (Parker Ultimate Lubrication System)

Revolutionary system developed as single coating lubricant for cold forming

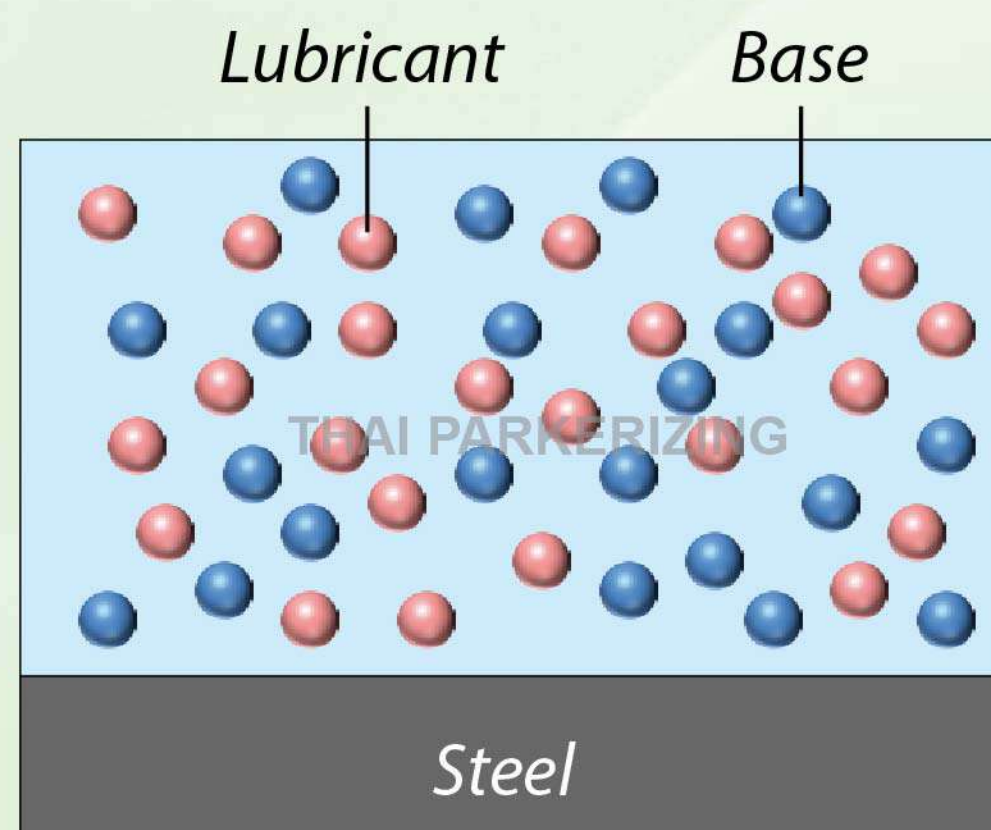
### Process Image



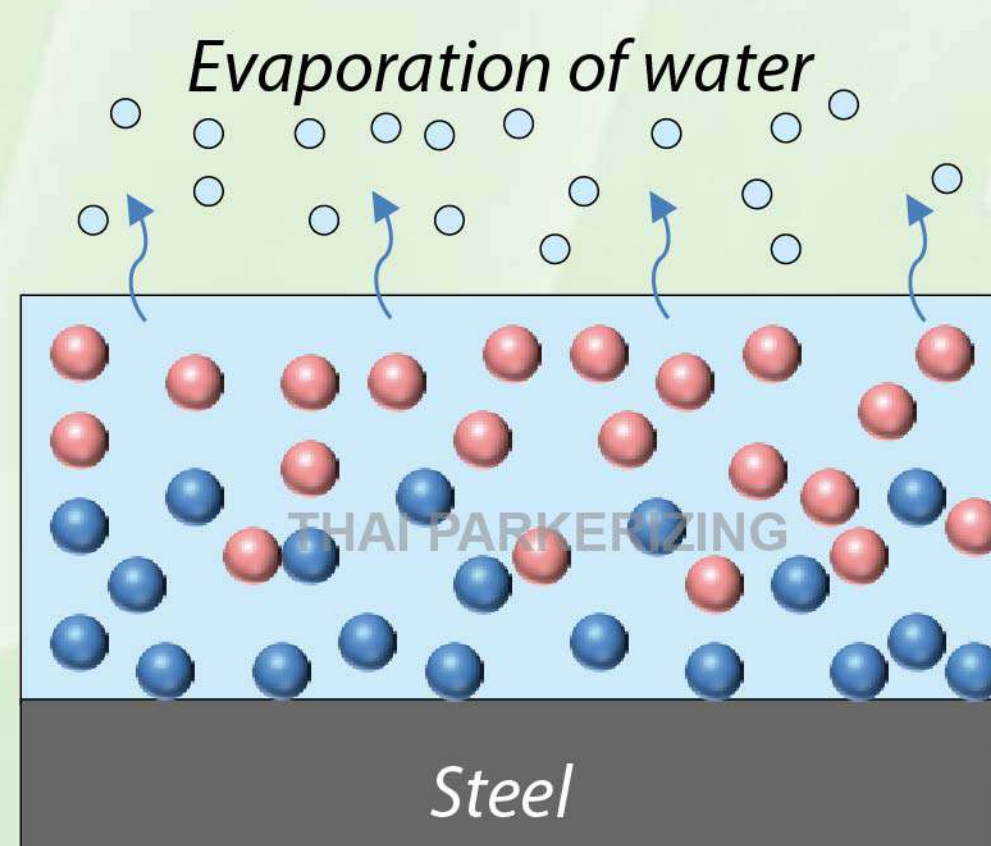
Compact process

### PULS's Film Structure

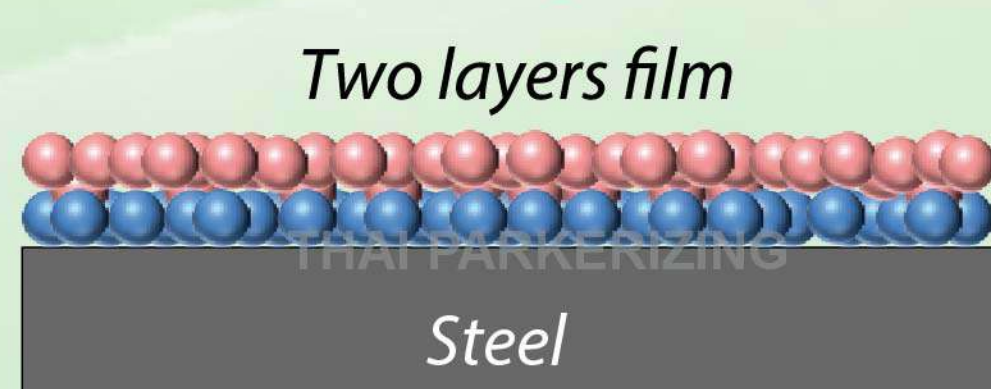
#### Dipping



#### Drying



#### Forming Film



### Comparison between conventional system

	No.of process	Space	Cost ratio	Chemical control
Conventional lubricant	11	90 m <sup>2</sup>	100	By manual
PULS	3	9 m <sup>2</sup>	60	By automatic
Advantage	<b>73% shortening</b>	<b>90 % reduction</b>	<b>40% reduction</b>	<b>Reduce cost</b>

### Line up of chemicals

Chemicals	FL-E 700	FL-E 740C	FL-E 739B	FL-E 760
Appearance	White	White	White	Metallic grey
Temp (°C)	40 - 70	40 - 70	40 - 70	40 - 70
Cwt (g/m <sup>2</sup> )	5 - 15	5 - 15	5 - 15	10 - 15
Characteristic	<ul style="list-style-type: none"> <li>• Low coefficient friction</li> <li>• Better drying small absorbent</li> </ul>	<ul style="list-style-type: none"> <li>• Better process for in line only</li> </ul>	<ul style="list-style-type: none"> <li>• Prevent lubricant mark</li> </ul>	<ul style="list-style-type: none"> <li>• Better process longer life on tool</li> <li>• Better heat resistance</li> </ul>
Forging type	Medium press			Strong press

