HYSON
Metal Forming Solutions™

Product Announcement

Subject:	Date:	Issue:
Controllable Spring Configurator Tool	2/12/2021	21-01 CS Configurator
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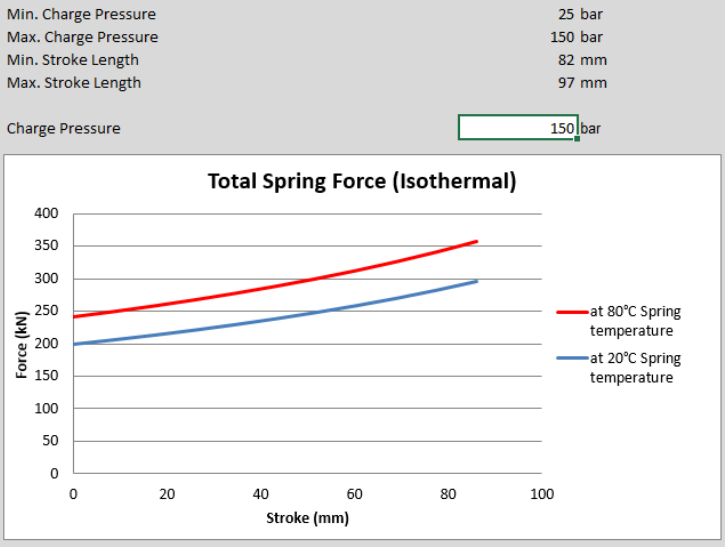
HYSON Metal Forming Solutions announces the launch of the Controllable Springs Configurator tool! Available for download from the HysonSolutions.com website, this latest interactive tool assists in the selection of CS2 springs and shows the performance and operating conditions for the application, making it easier to choose the ***RIGHT springs for your specific application***.

To utilize the configurator, you will need to know the type of application (low, or high volume) in addition to the cylinder's force, stroke and quantity. For a basic understanding of the CS2 cylinders, review the CS2 Catalog which can be downloaded from the HysonSolutions.com website.

Step 1: Select Spring Type (based on application volume, along with size, stroke length and quantity):
A: Adjustable – these springs can have their stroke adjusted from +7/-8mm from nominal. This makes them ideal for applications with lower volumes so the cylinders can be used in a future tool at a similar stroke or in try-out when the needed stroke is not fully determined.

B: Non-Adjustable – these springs are ideal for high volume application

From there you will input your charge pressure to achieve the required tonnage for your application; limits for the chosen cylinder is displayed above the input.



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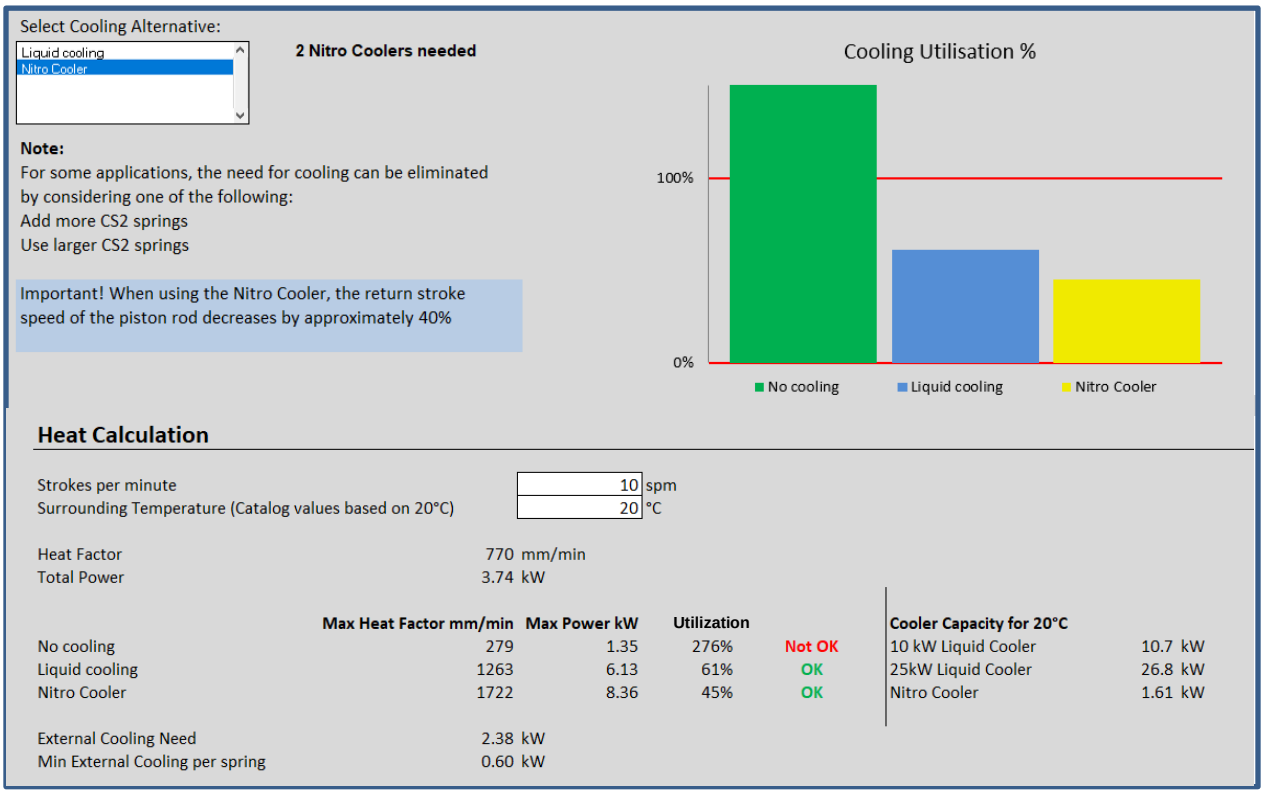
Step 2: Heat Calculation

Next, enter the application's stroke per minute and the surrounding temperature (Catalog data assumes 20° C). This will calculate the Heat Factor defining the amount of cooling the application will requires. Each cooling option will be marked with an "OK" or "Not OK" status; directing you towards an appropriate option. A graph is displayed showing the cooling utilization to show how efficient the cooling is being used. Choosing the cooling option will callout the quantity required to properly cool the system.



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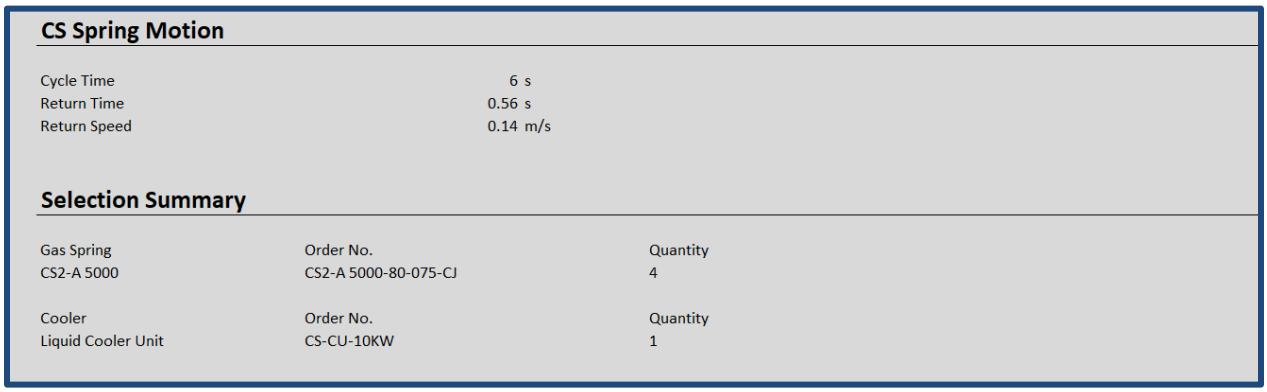

CS Spring Motion

Cycle Time	6 s
Return Time	0.56 s
Return Speed	0.14 m/s

Selection Summary

Gas Spring	Order No.	Quantity
CS2-A 5000	CS2-A 5000-80-075-CJ	4

Cooler	Order No.	Quantity
Liquid Cooler Unit	CS-CU-10KW	1

The Controllable Spring Configurator tool can be accessed at https://www.hysonsolutions.com/en-us/resource-center/cs-Configurator/ It includes images and descriptions for each section to explain options throughout the tool.

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