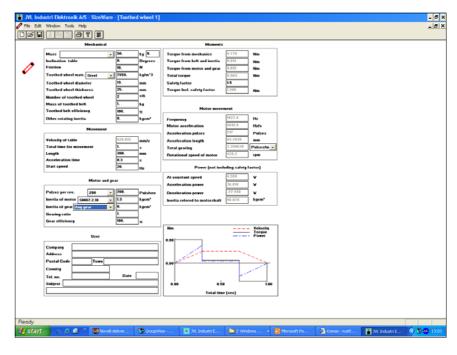
Product Data







SizeWare is a Windows-based program that makes it very easy to determine the required motor size for a specific task in applications such as machine design. education and research.

SizeWare enables you to key-in all commonly required parameter values that influence the motor torque or power required in order to achieve the desired motion.

SizeWare can be used for calculation of the correct motor size for AC-Servo, DC-Servo, and Step motors.

SizeWare runs on any PC under Windows 3.xx or Windows 98/

XP and is very easy to use. A single screen picture is used for displaying all parameters. Once the known values have been keyed in, simple select CALCU-LATE to display the results of the configuration. Results can printed out as hard copy or saved on disk for later use.

- Windows-based: runs under either Windows 3.xx or 98/XP
- Easy to use
- Single screen for all calcula
- Can be used for dimensioning Step, AC-, and DC Servo Motors

• Following parameters can be keved-in:

Velocity

Acceleration

Time

Load

Motor Inertia

Gear Inertia

Vertical/Horizontal movement Safety factor

 Can calculate with or without gearing on various drives: Spindle

Drive belt

Disk

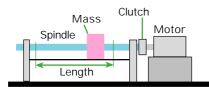
- Hard-copy printouts of results
- Storage of results on disk
- Supplied on 31/2" diskette
- Also ideal for educational purposes

LD0019-02GB Date: 24-11-04



SizeWare

Configuration Example



In the above simple example using a motor-driven spindle, a mass is to be moved a certain distance in a certain time.

Typical values are as follows:

Mass: 70kg Length: 1000mm Time of travel: 4s.

These values are keyed-in to SizeWare. Acceleration (and Deceleration) time is set to 0.1 s and the start velocity to 500 Hz.

The spindle data are keyed in. Friction is estimated to be 10 N.

The CALCULATE button is then pressed

and a suitable motor that can provide the required torque at the calculated

step frequency is found. The motor data is then keyed in. In this example an MAE step motor HY 200-2240 is selected

CALCULATE is then selected again and a check is made to ensure that the calculation still provides results within the required range.

In this example the motor must be able to provide 0.4 Nm at 3064.1 Hz, which the selected motor can. A smaller motor may also be suitable for the task. During the calculation sequence it may be necessary to adjust the selected time, acceleration and start frequency.

After pressing CALCULATE, a motor is

selected that can provide the calculated torque at the given operating fre-

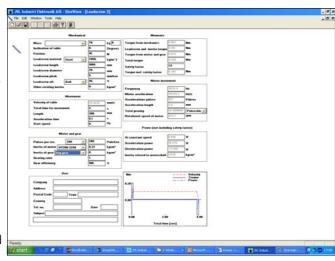
quency. The software includes data for

various manufacture. In this example a

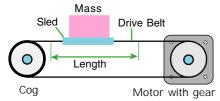
a wide range of standard motors of

Yaskawa motor SGM-04 is selected.

SizeWare immediately shows the effect of such changes on the required torque and frequency, thus greatly helping to optimise system design and configuration..



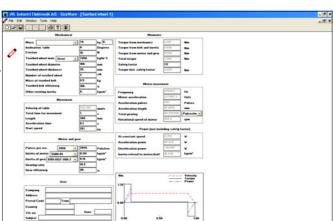
Configuration Example



In this simple example, the motor torque is transmitted via a gear to a belt-driven sled.

Typical values are

as follows: Gearing: 1:10.5 Mass of sled 70 kg Time of travel 1.5 s. Length: 300 mm These values are keyed-in to SizeWare together with data for the cogs, etc. The gear can be selected directly from Technoingranaggi's product range.



System Requirements

PC with Windows 3.1 or later, or Windows 98/XP.

Harddisk with 1 Mbyte available disk space.



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