



Picture 1

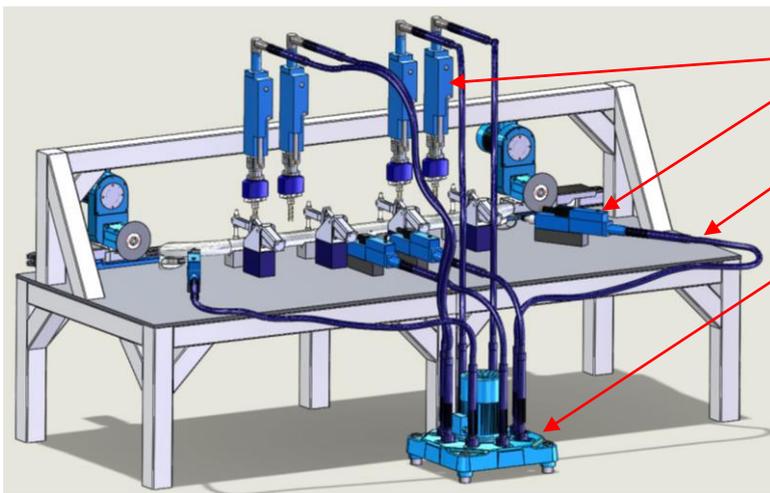
MULTImaster system with 7 output shafts driving 7 pcs. BEW12 drilling spindles

Machining of “Bulky parts”

What is a Bulky Part? Any part that is too large or difficult to handle using normal work holding or machining methods. For example, to machine a aluminum profile that is 6 feet long would require a CNC mill with a large enough bed to handle the part length (see Figure 1).

What to do? With standard components, *SUHNER* offers several options to accomplish the task. One option would be to use the *SUHNER* MULTImaster system, which can drive up to eight (8) drilling spindles with a single electric motor via flexible shafts (figure 2 A & B). This is a worldwide unique solution, thousand times proven since decades.

How it works? The MULTImaster system is made up of three (3) main components:



- 1.) Drilling spindle
 - Available in (3) sizes of quill feed units & (3) sizes of basic drilling spindles.
- 2.) Flexible shaft (Cable which transfers rotary motion)
 - (3) standard lengths & sizes available.
- 3.) Base unit (figure 2 A & B) (Electric motor with flex shaft connections)
 - Available in different motor sizes.

Figure 1

MULTImaster system with 8 output shafts & drilling spindles



Figure 2-A

MULTImaster base with up to 8 flex shaft connections

Instead of directly driving a spindle with a motor, the base unit uses a 3 kW motor and belt & pulley combination to drive the drilling spindles through flexible shafts (figure 2 B). The flexible shaft can then be connected to a variety of *SUHNER* drilling spindles (figure 1).

This setup offers several advantages:

- **Efficiency:** one motor & controls rather than multiple
- **Versatile mounting:** mount units in any direction
- **Remote operation:** move motor away from coolant
- **Weight:** units are lighter without motor directly coupled
- **Close mounting:** allows for close hole distances

What is the greatest advantage of the modular *SUHNER* products?

In one word, it would simply be flexibility. With the available options of varying speed, flexible shaft length, motor size and a wide variety of spindle types, there is no part too 'Bulky' for the *SUHNER* spindle system.

It is this kind of flexibility and ingenuity that has made *SUHNER* a leader in Automation Equipment for 100 years. Visit the www.SUHNER.com to see the full line of Drilling, Tapping, Milling, Multiple Spindle heads and Slide units that *SUHNER* has to offer.

Call today and let *SUHNER* help you find the best solution to your 'Bulky Part' problem.

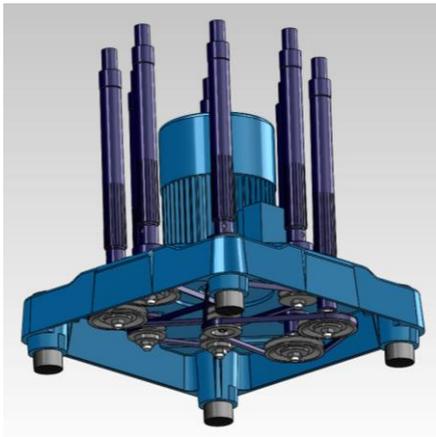


Figure 2-B

MULTImaster base showing pulley & V-belt combinations (available speeds from 260 to 9,320 rpm)

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