



BASELINE

voortman V845

HEAVY-DUTY LASER CUTTING OF MEDIUM TO BIG OPEN PROFILES



› High precision & clamping

The Voortman V845's advanced centering and clamping system ensures precise support for various profiles with ± 0.1 mm precision. It minimizes setup time and allows effortless switching between profile dimensions, making the V845 ideal for efficient tube and profile processing.



› H / I profile cutting

The V845 machine processes various profiles, including H and I beams up to 400 x 400 mm. Its versatile design suits diverse applications, ensuring reliable performance and precision for both large beams and smaller profiles.



› Ready products after cutting

Save time and costs, delivering high-quality cuts with clean edges and minimal post-processing, unlike traditional plasma cutting. Enhance operational efficiency and streamline your workflow for immediate, exceptional results.



TECHNICAL SPECIFICATIONS V845

GENERAL

| | V845-500 | V845-650 |
|---------------------------------|-------------------|-------------------|
| Processing window | 60 – 500 mm | 80 – 630 mm |
| Max. total positioning weight | 2.400 kg | 3.000 kg |
| Max. linear positioning weight | 200 kg/m | 250 kg/m |
| Max. product length | 6, 9 or 12 m | 6, 9 or 12 m |
| Positioning speed | Max. 45 m/min | Max. 45 m/min |
| Laser power | 6, 12 or 20 kW | 6, 12 or 20 kW |
| Max. rotational speed of chucks | 40 rpm | 40 rpm |
| Rotational axis travel | Infinite rotating | Infinite rotating |
| Amount of rotating chucks | 3 pcs. | 4 pcs. |
| Positioning accuracy | +/- 0.05 mm | +/- 0.05 mm |
| Repetitive accuracy | +/- 0.03 mm | +/- 0.03 mm |



PROFILE DIMENSIONS

| | V845-500 | V845-650 |
|-------------------|-----------------------------|-----------------------------|
| Round tubes | Ø60 mm - Ø500 mm | Ø80 mm - Ø630 mm |
| Square tubes | 60 x 60 mm - 350 x 350 mm | 80 x 80 mm - 440 x 440 mm |
| Rectangular tubes | 60 x 60 mm - 400 x 200 mm | 80 x 80 mm - 500 x 300 mm |
| U-profiles | 160 x 40 mm - 400 x 104 mm | 100 x 48 mm - 400 x 104 mm |
| Angles | 60 x 60 mm - 350 x 350 mm | 80 x 80 mm - 250 x 250 mm |
| H / I-profiles | 100 x 100 mm - 350 x 350 mm | 100 x 100 mm - 400 x 400 mm |

LASER CUTTING SYSTEM

| | | | | |
|--------------------------------------|-------|-----------------|-----------------|-----------------|
| Oxygen cutting | Yes | | | |
| Nitrogen cutting | Yes | | | |
| | | 6 kW | 12 kW | 20 kW |
| Cutting speed mild steel O2 (mm/min) | 4 mm | 2.600 – 3.600 | 3.300 – 3.800 | 3.500 – 3.900 |
| | 6 mm | 2.200 – 3.200 | 2.800 – 3.200 | 2.600 – 3.300 |
| | 8 mm | 1.200 – 2.700 | 2.400 – 2.800 | 2.400 – 3.100 |
| | 10 mm | 1.100 – 2.300 | 2.100 – 3.500 | 2.300 – 3.500 |
| | 12 mm | 1.000 – 2.100 | 1.800 – 3.200 | 2.000 – 3.500 |
| | 14 mm | 900 – 1.800 | 1.700 – 3.000 | 1.900 – 3.200 |
| | 16 mm | 750 – 1.600 | 1.500 – 2.800 | 1.800 – 3.100 |
| | 20 mm | | | 1.500 – 2.600 |
| Cutting speed mild steel N2 (mm/min) | 4 mm | 14.000 – 16.000 | 19.000 – 20.000 | 27.000 – 32.000 |
| | 5 mm | 12.000 – 14.000 | 16.000 – 20.000 | 23.000 – 25.000 |
| | 6 mm | 8.000 – 9.000 | 10.000 – 13.000 | 19.000 – 21.000 |
| | 8 mm | 4.000 – 4.800 | 8.000 – 9.000 | 14.000 – 18.000 |
| | 10 mm | | 6.000 – 7.000 | 10.000 – 15.000 |