

## Titan Bending Rolls 8344 CNC

The versatile solution to produce any shape from elliptical shapes to simple rounds without flat run out and lead in - repeatable and reliable.

Titan is the world leader for thin gauge irregular shape rolling applications such as in example the lighting industry or automotive exhaust manufacturing. Made in Sweden, Titan products are represented with sales and service all over the world. We welcome you to review the capabilities of this unique machine, which will enhance your productivity and quality for a quick return on your investment.

Daniel Dechamps  
CEO  
Metal Finish



### Features of Titan 8344 CNC rolls:

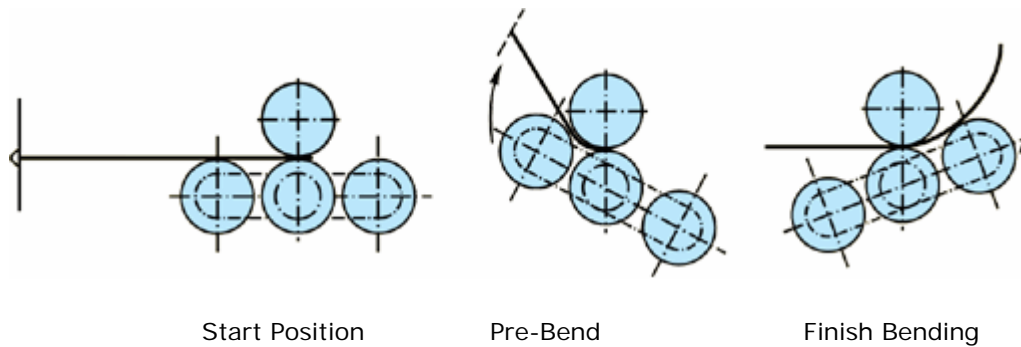
- CNC-controlled with the capacity to store 200 programs.
- Pre-bending and final bending in one cycle.
- All four rolls are driven.



**8344 12-25  
Top Support optional**

- All axis are programmable.
- All movements are mechanical for highest accuracy.
- Can bend complicated elliptical shapes.
- Rolls mounted in inter-changeable cassette system.
- Adjustable crowning of the lower roll.

## The Titan 4-Roll Bending Principle



### **Flexibility - lower bending rolls are mounted in one exchangeable cassette**

The three lower bending rolls are mounted in a cassette, which is swiveling and adjustable in height. This allows bending of very complex profiles in one single operation.

The three rolls of the cassette are used as pre-bending rolls, bottom rolls and final bending rolls. The cassette system also allows exchange of the rolls to other dimensions (standard dimension diameters are 55, 60, 70, 80 and 90 mm).

### **The principle of 4 roll bending – pre-bending and final bending in one operation**

The sophisticated design of the machine and the location of the four rolls eliminate all intermediate handling of the sheet between pre-bending and final bending. The simplified process reduces buffer space around the machine, achieves a higher repeatability as well as higher productivity.

### **Clever Mechanics – fast and precise bends**

The movement of the cassette into the programmed position is accomplished by precision ball screws.

After bending is finished the locking arm on the right hand side opens allowing removal of the profile. In order to reduce cycle time further, this function may be turned off in the control program.



### **The new Control for the high speed intelligent Nord Drives**

### **Programming – quick and easy**

The programming of the machine is facilitated by just a few menus available on the screen. In order to further simplify the programming, the control buttons are soft keys, whose functions are automatically changed when changing menus.

The CNC has a storage capacity of 200 programs with up to 50 lines in each program.

The program consists of sections, where each section is provided with a bending value. This enables easy and quick programming of the machine as well as super fast program alterations to adjust for material variation. The CNC model can also operate with "interpolation", where the rolls are adjusted simultaneously overlaying the feed motion.

### **Straight outcomes – adjustable crowning**

The rolls can be optionally equipped with crowning supports, which are easily adjusted under the support rolls with a simple screw. Thus the crowning support can be used for fine adjustments during production as well as for crowning in case the machine is equipped with completely cylindrical rolls.



### **Accessories and optional equipment**

First of all you have a choice of rolls beyond Titan's standard:

- Hardened and ground
- Chromium plated
- Adiprene coated
- Contoured rolls with relieves for formed parts

And you can customize the machine with additional accessories.

- In feed and out feed automation
- Enhanced safety features
- Stacking Tables
- External memory back up



**8344 10-08 -40 Lighting Master  
With Top Crowning Bar**

### **Titan bending roller equipped with cassette for louvers and reflectors**

The design of the machine is based on the same principles as the other models of the 8344 series with the exception of the cassette. The rolls are here provided with roller supports along the whole bending length for adjustable crowning of the rolls. The rolls are hardened and have chromium-plated and polished surfaces in order to avoid marks in the sheet. The crowning of the top roll is carried out by means of a cross beam, which tilts 90 degrees to the cradle, to make room for the bent part of the sheet. The machine with 40 mm diameter rolls is only intended to form aluminum. Mild steel can be formed with 60 mm diameter rolls.

Configuration Data / Model

<b>Model 8344</b>	<b>Working Width (inch)</b>	<b>Max Sheet Thickness in Steel (inch)</b>	<b>Roll Diameter (inch)</b>	<b>Main Feed Motor Output (kW)</b>	<b>Max Feed Rate (inch/min)</b>	<b>Net Weight (lbs)</b>
<b>7/15</b>	29.1	0.060	2.15	0.75	220	1430
<b>7/20</b>	29.1	0.078	2.35	0.75	240	1430
<b>10/10</b>	40.1	0.040	2.35	0.75	240	1430
<b>10/20</b>	40.1	0.078	2.75	0.75	260	1430
<b>10/25</b>	40.1	0.100	3.15	0.75	300	1540
<b>10/30</b>	40.1	0.125	3.55	0.75	330	1650
<b>12/08</b>	49.2	0.032	2.35	0.75	240	1540
<b>12/15</b>	49.2	0.060	2.75	0.75	260	1540
<b>12/20</b>	49.2	0.078	3.15	0.75	300	1650
<b>12/25</b>	49.2	0.100	3.55	0.75	330	1760
<b>15/10</b>	60.2	0.040	2.75	0.75	260	1650
<b>15/15</b>	60.2	0.060	3.15	0.75	300	1760
<b>15/20</b>	60.2	0.078	3.55	0.75	330	1870
<b>17/07</b>	70.4	0.028	2.75	0.75	260	1760
<b>17/12</b>	70.4	0.048	3.15	0.75	300	1820
<b>17/16</b>	70.4	0.065	3.55	0.75	330	1925
<b>20/10</b>	80.3	0.040	3.15	0.75	300	1870
<b>20/15</b>	80.3	0.060	3.55	0.75	330	1980

<b>Model 8344 Lighting Master</b>	<b>Working Width (inch)</b>	<b>Max Sheet Thickness in Steel (inch)</b>	<b>Roll Diameter (inch)</b>	<b>Main Feed Motor Output (KW)</b>	<b>Max Feed Rate (inch/min)</b>	<b>Net Weight (lbs)</b>
<b>10/10 - 40</b>	40.1	0.040	1.575	0.75	220	1430
<b>12/08 – 40</b>	49.2	0.032	1.575	0.75	220	1540
<b>17/06 – 40</b>	70.4	0.024	1.575	0.75	220	1760
<b>20/05 - 40</b>	80.3	0.020	1.575	0.75	220	1870

Further roll configurations are available on request.

Also review Titan Models 8268 to process materials in thicker gauges or the

8835 to meet the new demands of the lighting industry for longer reflectors and other open shapes featuring tight radii in very thin gauges.

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## About the NOSSEBRO factory



Titan is a Swedish machine tool supplier with a long history of bringing innovative, productivity enhancing products to today's fabricating industries.



Dedicated people design, develop, manufacture and test Titan rolls in a quality work environment to produce a quality product for you – the end user

Titan covers the range from hand operated bending rolls up to full automatic CNC machines.



The wide range of high quality bending rolls covers the needs for all kinds of products. Typical applications, such as forming reflectors and louvers for the lighting industry, custom and prototype mufflers for the automotive industry as well as ventilation products etc. Titan Bending Rolls has been exporting from Sweden for more than 25 years.



Titan Bending Rolls is the right choice for all kinds of radii forming applications in light gauge materials.

