



Made in USA

HMT

HORN MACHINE TOOLS, INC.



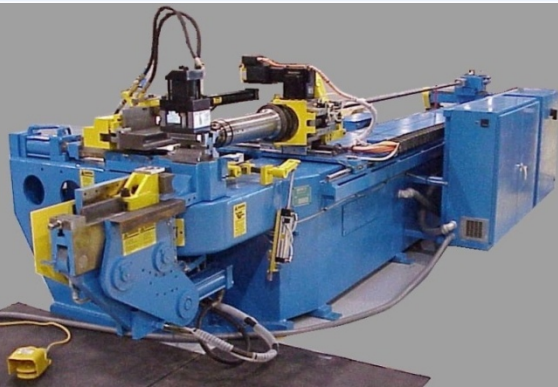
Made in USA

California – Minnesota - Indiana

We have the largest selection of heavy duty Tube Bending Machines, with the most Locations in North America.

Semi-Automatic

- Five model sizes fro ½” to 10” capacity
- The ultra heavy duty machine in the industry
- Many configurations for complex applications:
 - Boiler Tube Booster Bending
 - Aircraft Alloy Bending
 - High volume production environments
 - Large radius elbows and conduit sweeps
 - Large capacity for big OD’s or thick wall



CNC with Hydraulic Drive Bending

- Seven model sizes from ½” to 10” capacity
- Fully automatic Heavy Duty CNC Bender
- Equipped with *Bendpro CNC*, windows control
- Rugged design with quality off the shelf parts
- Can be configured to bend almost any material
- High volume high output hydraulics
- Adaptable to accept most tool mountings

CNC with Electric Drive Bending

• Four model sizes from 1 to 8” capacity
Combines the rugged HMT hydraulic bender design with a high output servo and gearbox system to drive the bending axis.

This “**Hybrid**” design results in improved production rates and decreased set-up times.





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Semi-Automatic Tube Bending Machines

MATERIAL	HMT#1	HMT#2	HMT#3	HMT#4	HMT#6	HMT#8
Schedule 80 Steel pipe	1" IPS	2" IPS	3" IPS	4" IPS	6" IPS	8" IPS
ROUND Tube	1.5" OD	3.0" OD	5.0" OD	6.0" OD	8.0" OD	10.0" OD
SQUARE Tube	1"	2"	3"	4"	6"	8"

HMT #4 Semi-Automatic

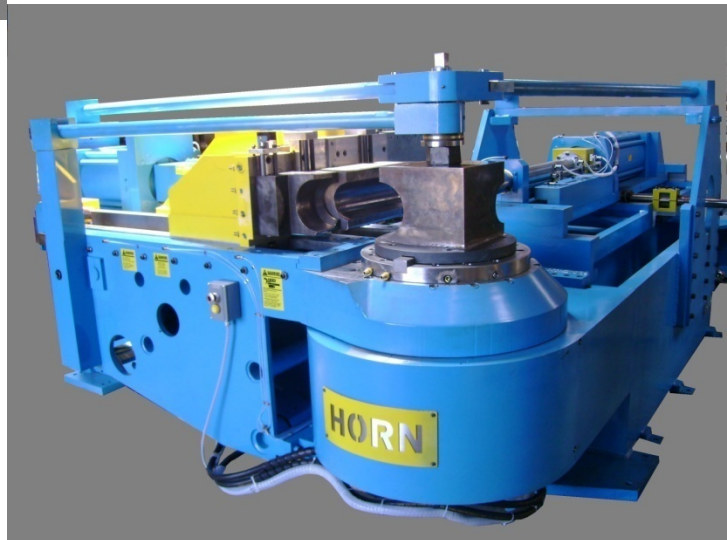


Standard Features & Equipment

- Reverse acting mandrel extractor
- Wiper die holder
- PLC based touch screen control
- Parker Hydraulic System
- Top quality off the shelf parts
- All steel construction, no castings
- Heavy floor plate for rigidity
- Large diameter induction hardened pins
- Steel slides with replaceable wear strips
- Safety Floor Mats

*** Optional Equipment:**

- High speed hydraulic system
- Inline Linear bearing pressure die assist
- Independent pump system for PDA
- Programmable pressures
- High Force Boosting System
- Overhead tie bars
- Drop away swing arm
- Direct acting pressure die
- Long arm extended radius capability
- Special tooling requirements – Split Die



HMT #8 Semi-Automatic



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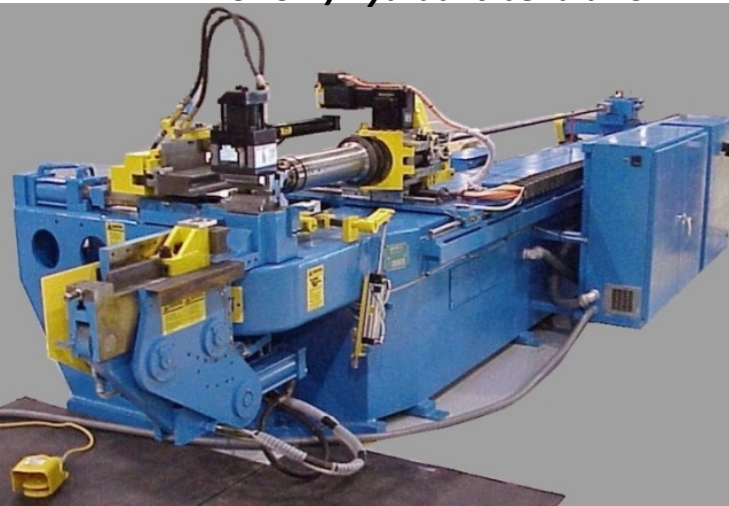


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CNC Tube Bending Machines – Hydraulic Bending

MATERIAL	HMT#1 CNC	HMT#1.5 CNC	HMT#2 CNC	HMT#3 CNC	HMT#4 CNC	HMT#6 CNC	HMT#8 CNC
Schedule 80 Steel pipe	1" IPS	.5" IPS	2" IPS	3" IPS	4" IPS	6" IPS	8" IPS
ROUND Tube	1.5" OD	2.0" OD	3.0" OD	5.0" OD	6.0" OD	8.0" OD	10.0" OD
SQUARE Tube	1"	1.5"	2"	3"	4"	6"	8"

HMT #2 CNC w/Hydraulic bend axis



Standard Features & Equipment

- Mandrel extractor & Wiper die holder
- Overhead tie bar to pressure die arm
- *Bendpro* CNC control
- Drop away swing arm
- Parker Hydraulic System – HIGH SPEED
- Top quality off the shelf parts
- All steel construction, no castings
- Heavy floor plate for rigidity
- Large diameter induction hardened pins
- Direct Acting Programmable Pressure Die
- Safety Floor Mats

*** Optional Equipment:**

- Inline Linear bearing pressure die assist
- Independent pump system for PDA
- Electric Carriage Boosting System
- Multi-Stack Tool Mounting
- Retractable Wiper Die
- Overhead tie bar to Swing Arm
- Auto Loading and Un-loading
- Square Tube Package
- Laser floor scanner instead of safety mats
- Automatic mandrel Lube



HMT #4 CNC w/Hydraulic bend axis



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CNC Tube Bending Machines – Electric Bending

MATERIAL	HMT#2E CNC	HMT#3E CNC	HMT#4E CNC	HMT#6E CNC
Schedule 80 Steel pipe	2" IPS	3" IPS	4" IPS	6" IPS
ROUND Tube	3.0" OD	5.0" OD	6.0" OD	8.0" OD
SQUARE Tube	2"	3"	4"	6"

HMT #2E CNC w/Electric bend axis



Standard Features & Equipment

- High output Servo Controlled Bend Axis
- Mandrel extractor & Wiper die holder
- *Bendpro* CNC control
- Overhead tie bar to pressure die arm
- Drop away swing arm
- Parker Hydraulic System – HIGH SPEED
- All steel construction, no castings
- Heavy floor plate for rigidity
- Large diameter induction hardened pins
- Direct Acting Programmable Pressure Die
- Safety Floor Mats

* Optional Equipment:

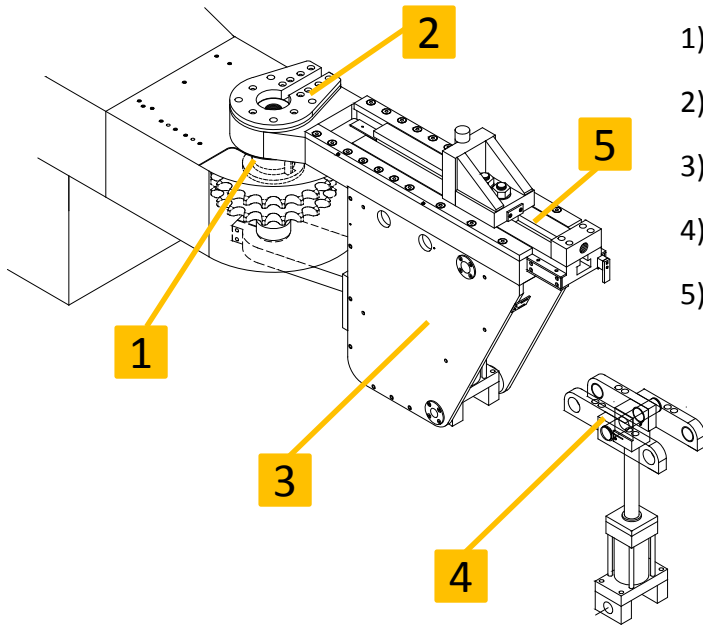
- Automatic Pressure Die
- Independent pump system for PDA
- Electric Carriage Boosting System
- Multi-Stack Tool Mounting
- Retractable Wiper Die
- Overhead tie bar to Swing Arm
- Auto Loading and Un-loading
- Square Tube Package
- Laser floor scanner instead of safety mats
- Automatic mandrel Lube



HMT #3E CNC w/Electric bend axis

HMT Tube Bending Machine Features

HD Straight Clamping Swing Arm



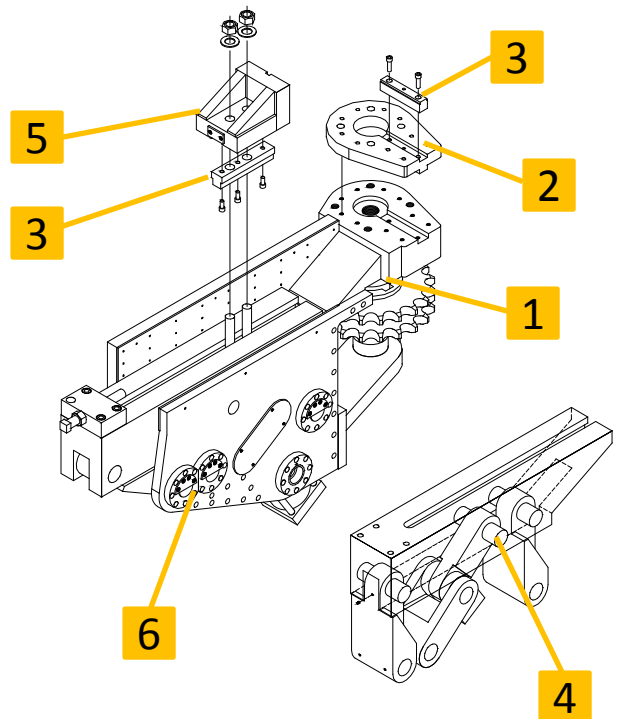
- 1) Main Bearing & shaft is 1" larger in diameter
- 2) Replaceable bend tool plate
- 3) All Steel construction – No Castings
- 4) Largest pivot pins and links available
- 5) All steel slides with replaceable inserts

It's all about Speed!

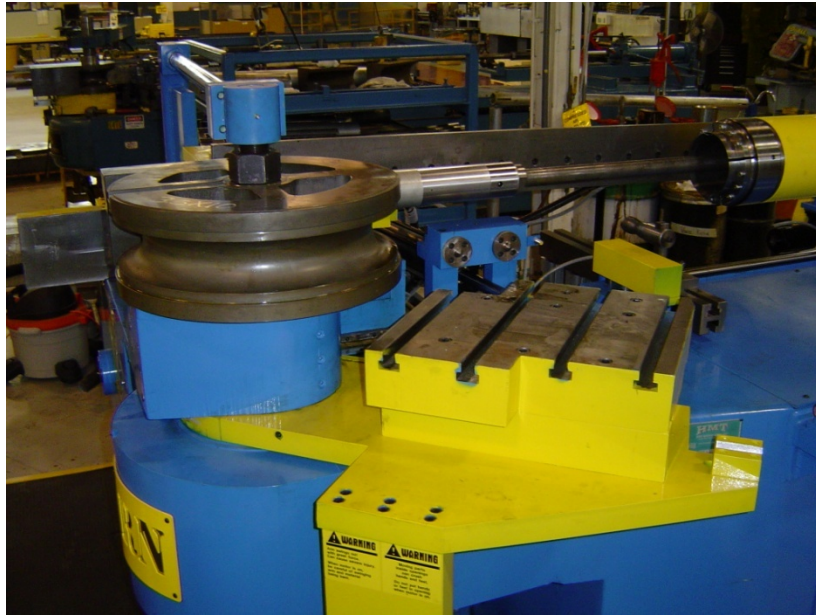
Our high speed drive system is proportional Controlled.... Fast, Accurate & Smooth!

HD Drop Away Swing Arm

- 1) Main Bearing & shaft is 1" larger in diameter
- 2) Replaceable bend tool plate
- 3) All tooling keys are replaceable
- 4) Largest pivot pins and links available
- 5) Larger bearings with more surface area
- 6) All steel tool holders – No Castings

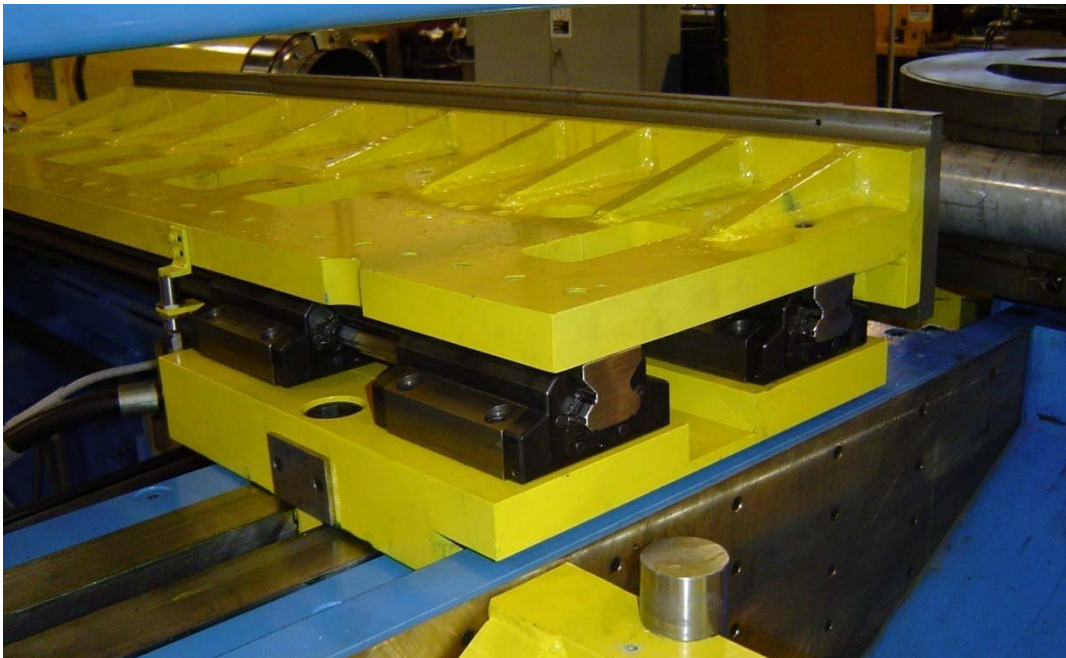


Retractable Wiper Die



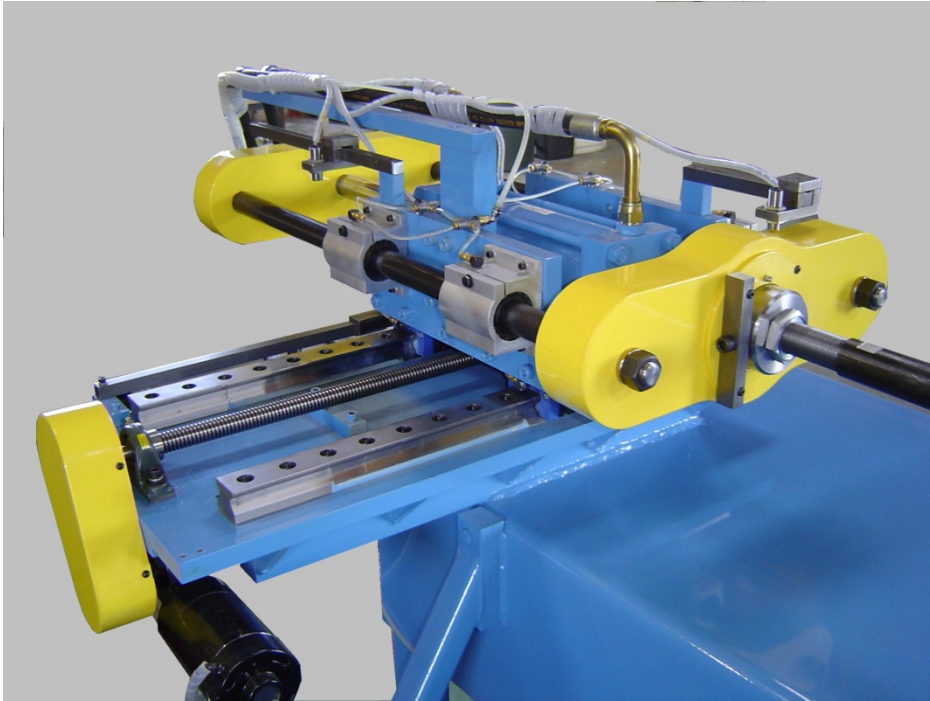
- Allows collet carriage to get closer to the bend die, saving material.
 - Uses several interlocks and hydraulic clamping to secure Wiper Base
- Use under arm support to hold base stable during movement.

Inline linear bearing pressure die assist *an exclusive HMT feature...*



- This feature eliminates the old type guiding systems that wear out quickly.
 - No wear plates, cam followers, guides, etc. to replace
 - Bearings are automatically lubricated.
- Inline design places two bearings inline with force on tube. More support and longer life.

Reverse Acting Mandrel Extractor *an exclusive HMT feature...*



- The hydraulic cylinder is turned around and faced backwards, then guide rods on linear bearings with heavy end plates are used to attach the mandrel rod. The following benefits are realized:
- This feature eliminates the load being placed on hydraulic cylinder rod, which greatly extends seal life
- Produces 30% more extraction force using same size cylinder
- When the mandrel rod is jammed, the hydraulic cylinder rod is not ruined
- Rotating bearing built into mandrel rod connection. Allows operator to turn the tube easier.
- Shown with optional electric centerline radius adjustment cross slide.

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You name the application we have a tube bending machine for it!