

**DAVI**®

EXCELLENCE IN FORMING

[www.davi.com](http://www.davi.com)



**MCB**  
4 roll DIGITAL



**SOLID & COMPACT MOST ADVANCED TECHNOLOGY**  
For the best productivity

**DAVI HEAVY-DUTY PLANETARY GUIDES (1988 PATENTED)**

**6.500 Tons**  
of bending power

**Mill Scale - Proof**  
**Friction - Free**  
**Maintenance - Less**



More than 1.000  
Heavy Duty  
plate rolls  
are in production,  
since many years,  
all around the world



**GET THE TIGHTEST DIAMETER, EVER**

DAVI PSG is the only geometry  
which allows to get a minimum diameter  
as tight as 1.1 times the top roll diameter,  
instead of 1.4 - 1.5 of the linear guides



**MILL SCALE PROOF AND NO LUBRICATION**

DAVI PSG doesn't need lubrication or cleaning, anytime  
MILL SCALE doesn't scratch the guides, ever  
NO WEAR of the guides, lifetime



Linear guides: a fatal destiny of wear



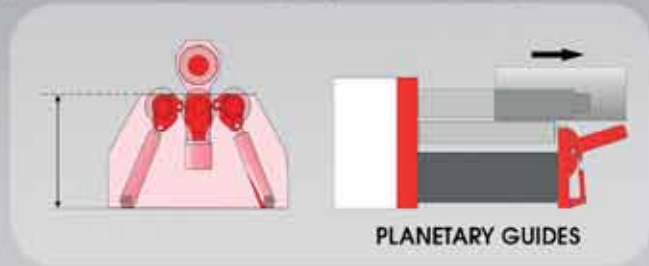
# STRONGER, PRECISE AND MORE RELIABLE... ...New DAVI MCB Plate Roll!



## THE LOW FRAME ALLOWS TO REMOVE CANS HORIZONTAL, STRAIGHT, EASIER

DAVI low frame design makes easy to remove the finished parts from the machine (straight and horizontal).

On machines with linear guides, the part needs to be tilted to clear the high frame construction.



PLANETARY GUIDES

LINEAR GUIDES

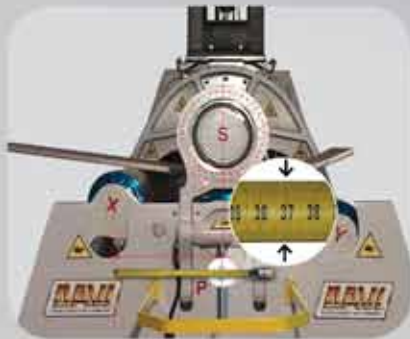
## THE LOW FRAME ALLOWS TO BEND SMALLER DIAMETERS CONES

The most extreme and radical cones bending, ever!

...not possible with higher frames linear guides.



## THE SHORTEST FLAT END !



The prebend on a small roll of a **ULTRA HEAVY** plate (much heavier than the machine capacity) may determine a very long flat end, which cannot be reduced notwithstanding the **very short** side rolls distance design of the machine.



Small machines, with a light clamp but a **very short** side roll distance, generate, ON A **HEAVIER** plate than their capacity a **VERY LONG** flat end.



The prebend of the same **ULTRA HEAVY** plate on **much heavier machines** have a virtual no flat end at all despite a **more than double** side rolls distance (the evidence the flat end **ONLY** depends on the machine power, and **NOT AT ALL** on the side rolls distance).



Heavier machines, with a heavy clamp but more than double side roll distance have **ALMOST NO FLAT END AT ALL**.







**SOLID & COMPACT MOST ADVANCED TECHNOLOGY**  
For the best productivity

With 50 years of competence and experience, we engineered an innovative plate roll geometry, with the following advantages:

- The absolute most compact and sturdy design
- Generally increased performances
- Increased life span of the main components, less stressed
- Shallow pits or no pit at all, providing a less expensive solution
- The lowest maintenance need in the plate roll industry



VIRTUAL NO FLAT END !



STRONGER,  
PRECISE,  
RELIABLE:  
DAVI MCB  
PLATE ROLL

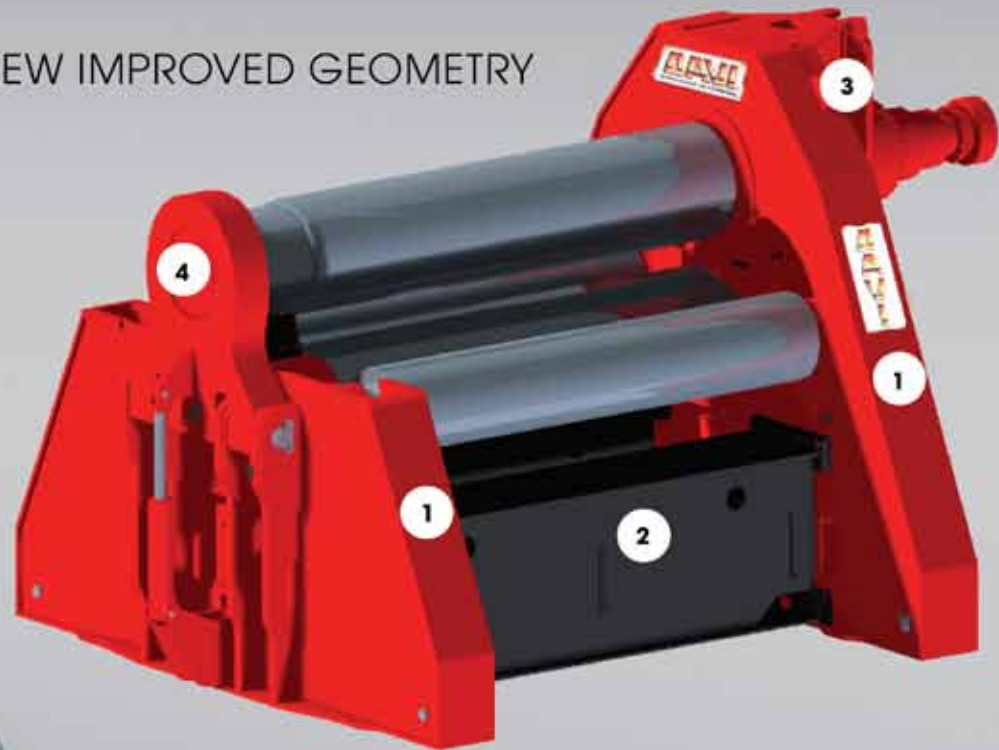




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## NEW IMPROVED GEOMETRY



- 1** = Frames, with new geometry allowing high performances improvements
- 2** = New "H-Beam" shape intra-frames base design
- 3** = New top roll transmission, stress-free
- 4** = New sturdy, ultra-wide, solid yoke





**STRONGER, PRECISE AND MORE RELIABLE...**  
**...New DAVI MCB Plate Roll!**



4000 x 200 mm



3500 x 260 mm



4000 x 200 mm



3000 x 200 mm



3000 x 170 mm



**SOLID & COMPACT MOST ADVANCED TECHNOLOGY**  
For the best productivity

## KNOW-HOW

DAVI engineering has 50 years of technological experience in the heavy plate rolling industry.



## DAVI UTMOST LEVEL OF QUALITY CONTROL

100% Made in Italy, total quality management (ISO 9001).



## DAVI iRoll: MAKES IT ALL!







DAVI provides 3 and 4 roll plate rolls with capacity in thickness up to 400 mm and in width up to 12 mt, suitable for any application. Plate rolls can be equipped with many different accessories, to provide the most ergonomic and productive solutions, such as: in-feed conveyors, front, side and vertical supports for large diameters. **DAVI** provides the most advanced **AUTOMATION**, with software from the simplest to the most highly technical state of the art systems for plate rolls.

DAVI products portfolio includes high quality angle rolls, the ideal machine for any type of beams, sections and pipes, especially the heaviest.



DAVI partner

**DAVI**  
EXCELLENCE IN FORMING

**UCIMU**



**ISO  
9001**

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