



Amb PICOT

January 2015

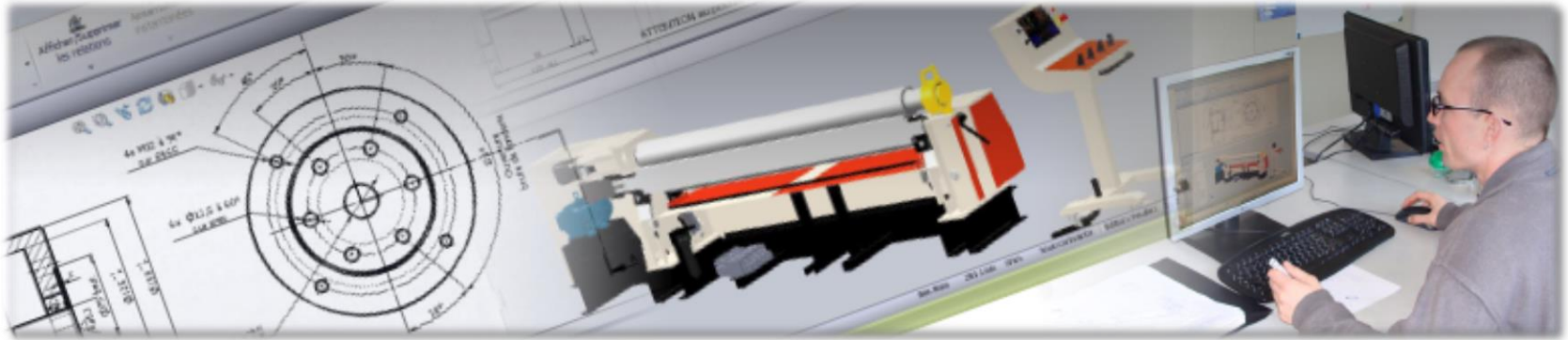
Customer applications



**Aeronautical, Energy, Public works
Building and Architecture
Transportation, Industry**



Experience and innovation



- Founded in 1870 Amb Picot, to produce machines tools and specialized in roll bending machines since 1927.
- We design our products using 3D design software in order to ensure our customers :
 - A Maximum reliability
 - A User Friendliness For the operator
 - A maximum quality in the job to be done
 - A constant innovation
- Customer satisfaction and customer return on investment are our vision

Range : 1-40 mm up to 6m

R4C



- proportional regulation (DanFoss®)
- 4 Rolls driven
- Double pinch machine & cone technology
- NC & CNC in option

RCS



- proportional regulation (DanFoss®)
- 3 Rolls driven
- Double pinch machine & cone technology
- NC & CNC in option

RCE



- 100% Hydraulic
- 3 Rolls driven – special low thickness
- Double pinch machine & cone technology
- NC in option

RAE



- Electromechanical machine – 2 speeds
- Affordable

Spe



Pro

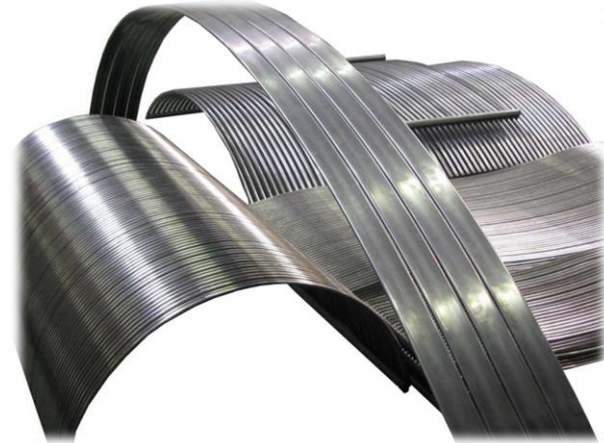


- Profile bending

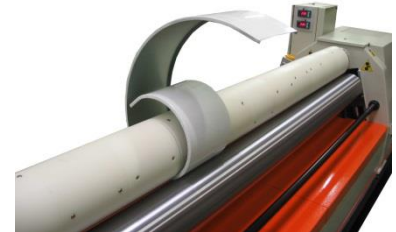
3 Rolls – Best Choice !!!



Roll diam : 460 mm => part diam : 496 mm



Heater – Welded before rolling



Rolling without deformation and lamination

Can a 4 rolls do the same ?

Picot technical highlights

- High reliability (over 30 years)
- Full proportional hydraulic machine (DanFoss ®)
 - Control your work at any step of your process
- Channel mounted rolls, driven by direct geared motor:
 - No wearing parts
 - 100% efficiency
 - No maintenance cost
- Hydraulic roll alignment (Picot patent), permitting roll inclination in both directions (For e.g. cone bending and truing)
- Specific Frame design for cones rolling
- NC technology developed in house



Picot technical highlights (1)



NC with LASER option

Roundbled

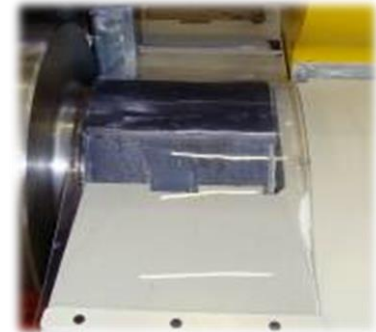


New



Economical range

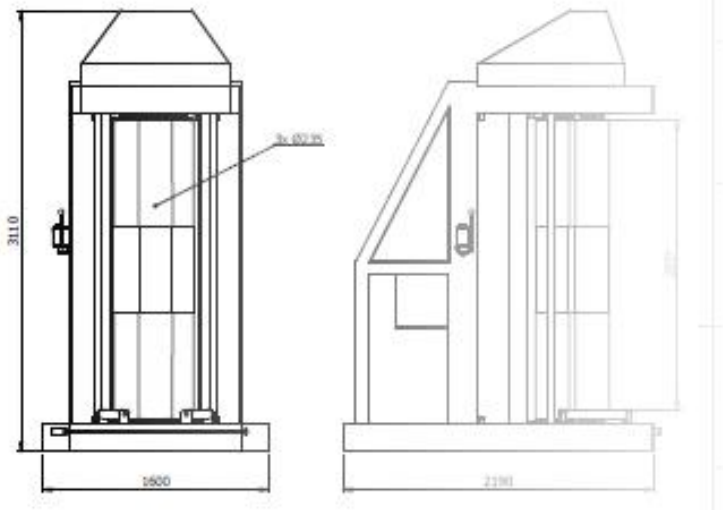
High capacity – RCS 460



Tank Process - 6 Meters



Machines built to specification

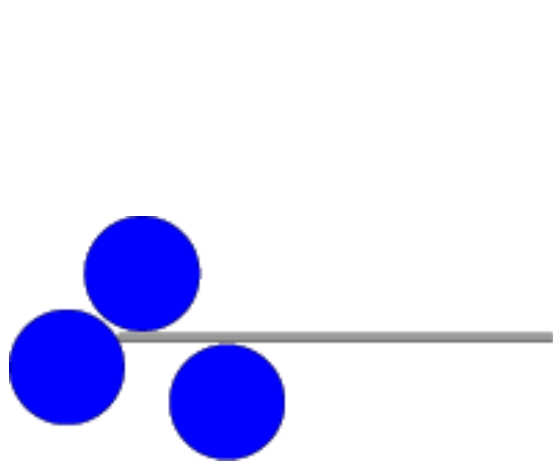


Sales Network - footprint

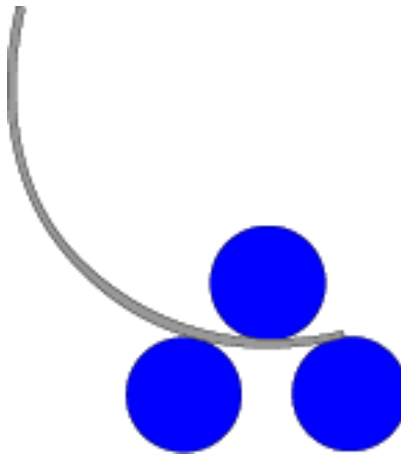


Appendix

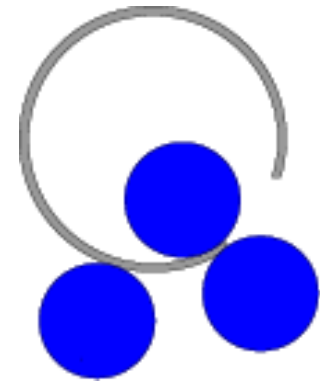
Roll bending process – 3 rolls



Step1



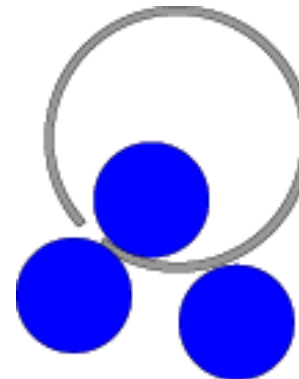
Step 2



Step 3

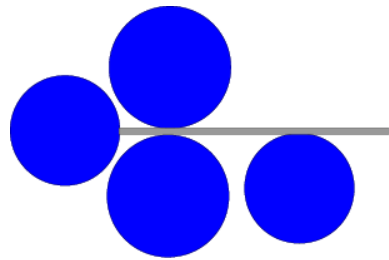


Step 4

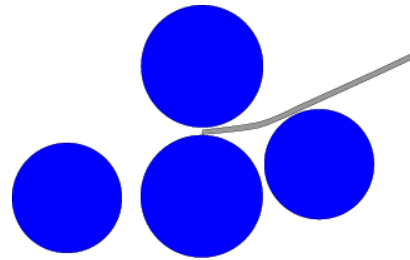


Step 5

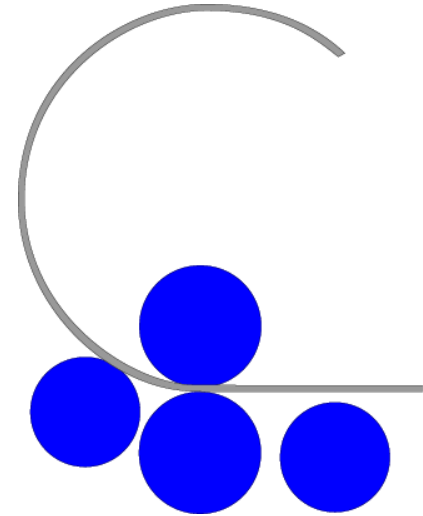
Roll bending process – 4 rolls



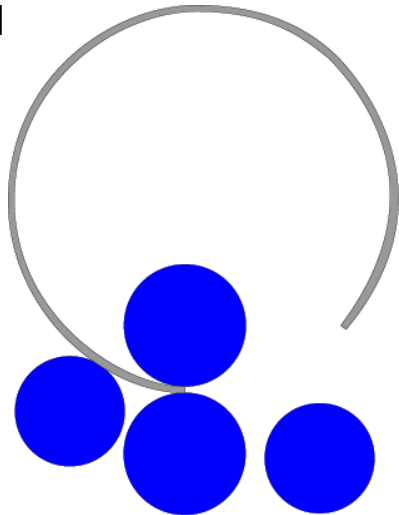
Step 1



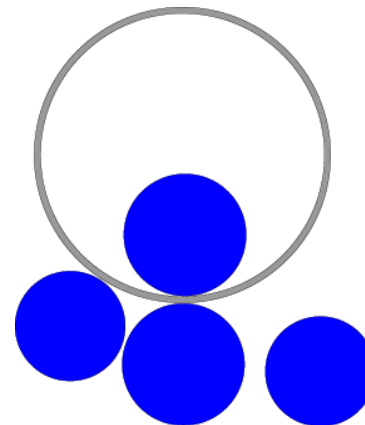
Step 2



Step 3

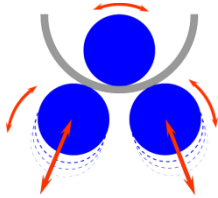


Step 4

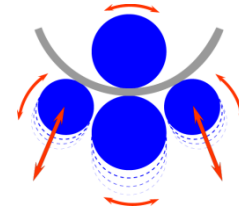


Step 5

3 or 4 Rolls ?



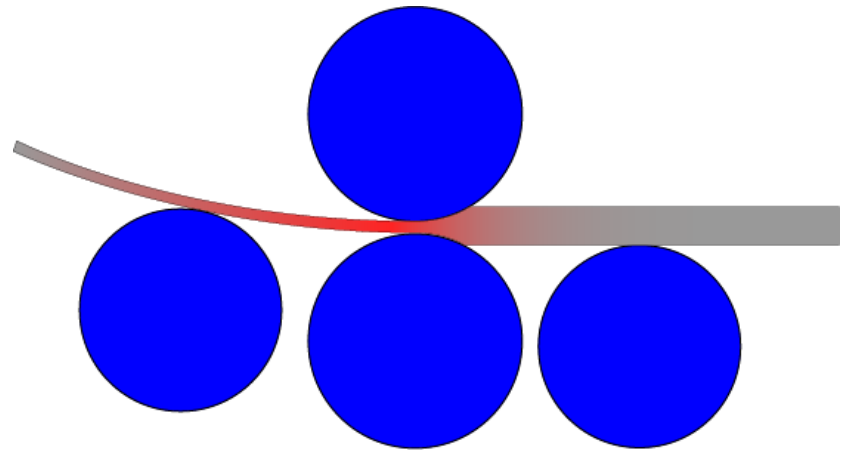
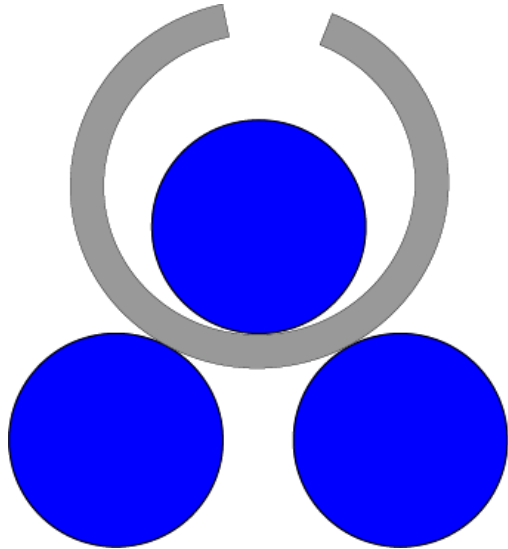
- 3 Rolls driven
- No risk of lamination
- More powerful pre bending
- High distance between rolls
 - High profile bending possibilities
- Possibility of rolling fragile material without damages:
 - Composite material
 - Coated material, ...
- Best for cones
- Best for calibration with no damage on welding line



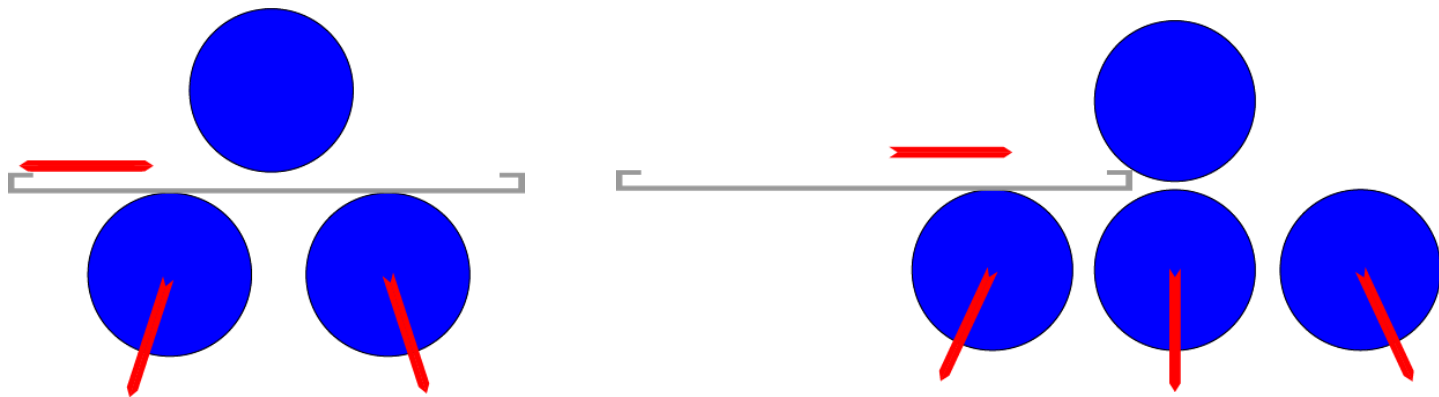
- 2 Rolls driven (Picot=4rolls)
- Risk of lamination
- Pre bending with losses
- Small distance between rolls
 - No profile to be rolled
- No fragile material only can be rolled
- Cones not easy
- Can damage welding line

4 rolls Picot allows all

Risk of lamination – 4 Rolls

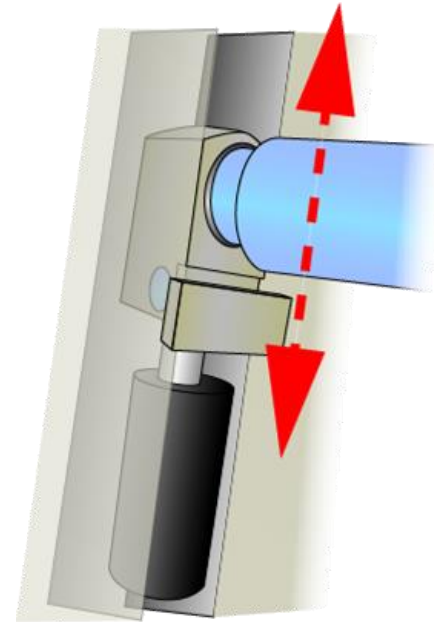
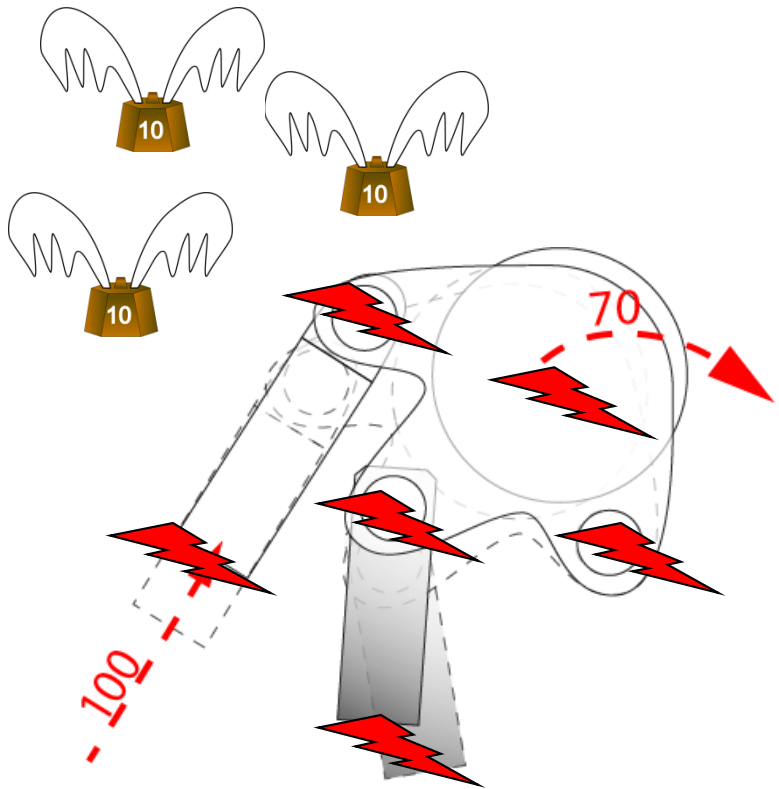


Distance between rolls



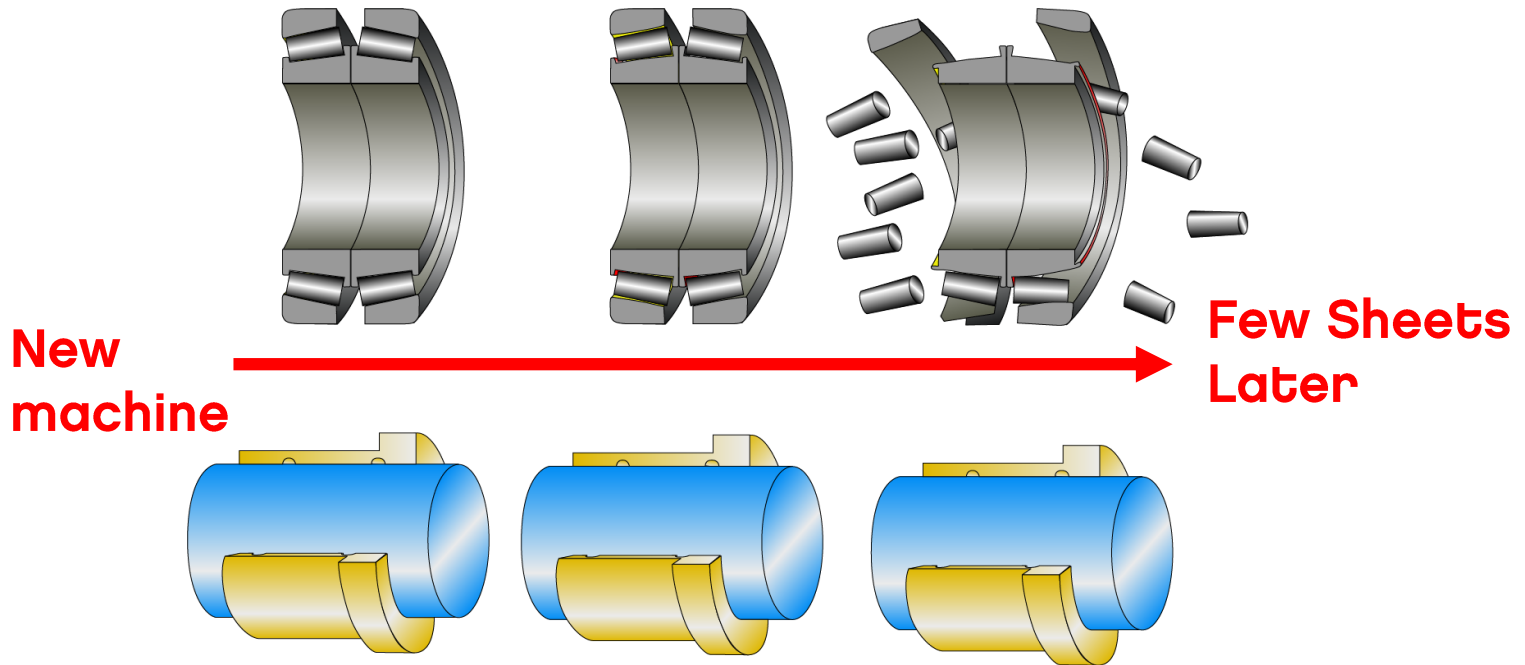
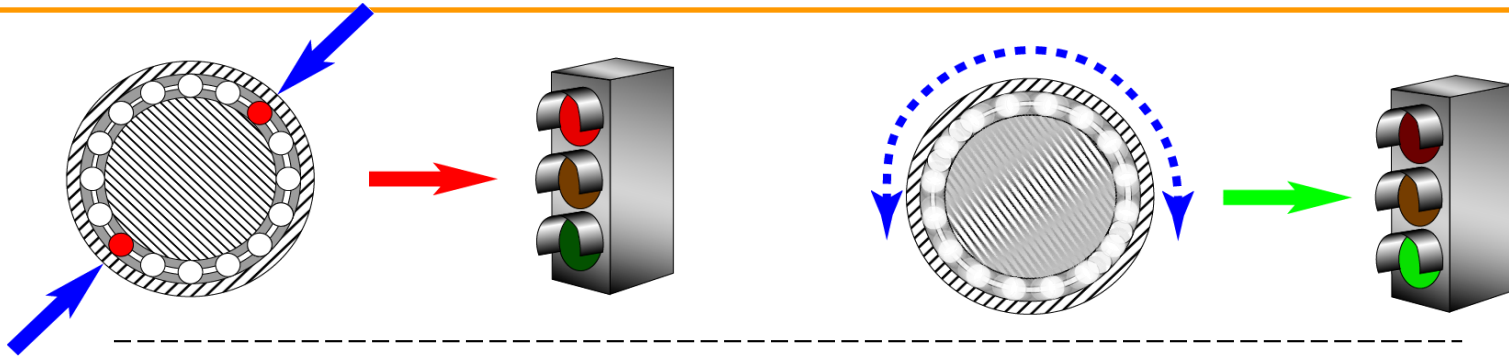
3 rolls allow profile bending

Technology choice (1) – Slide guide



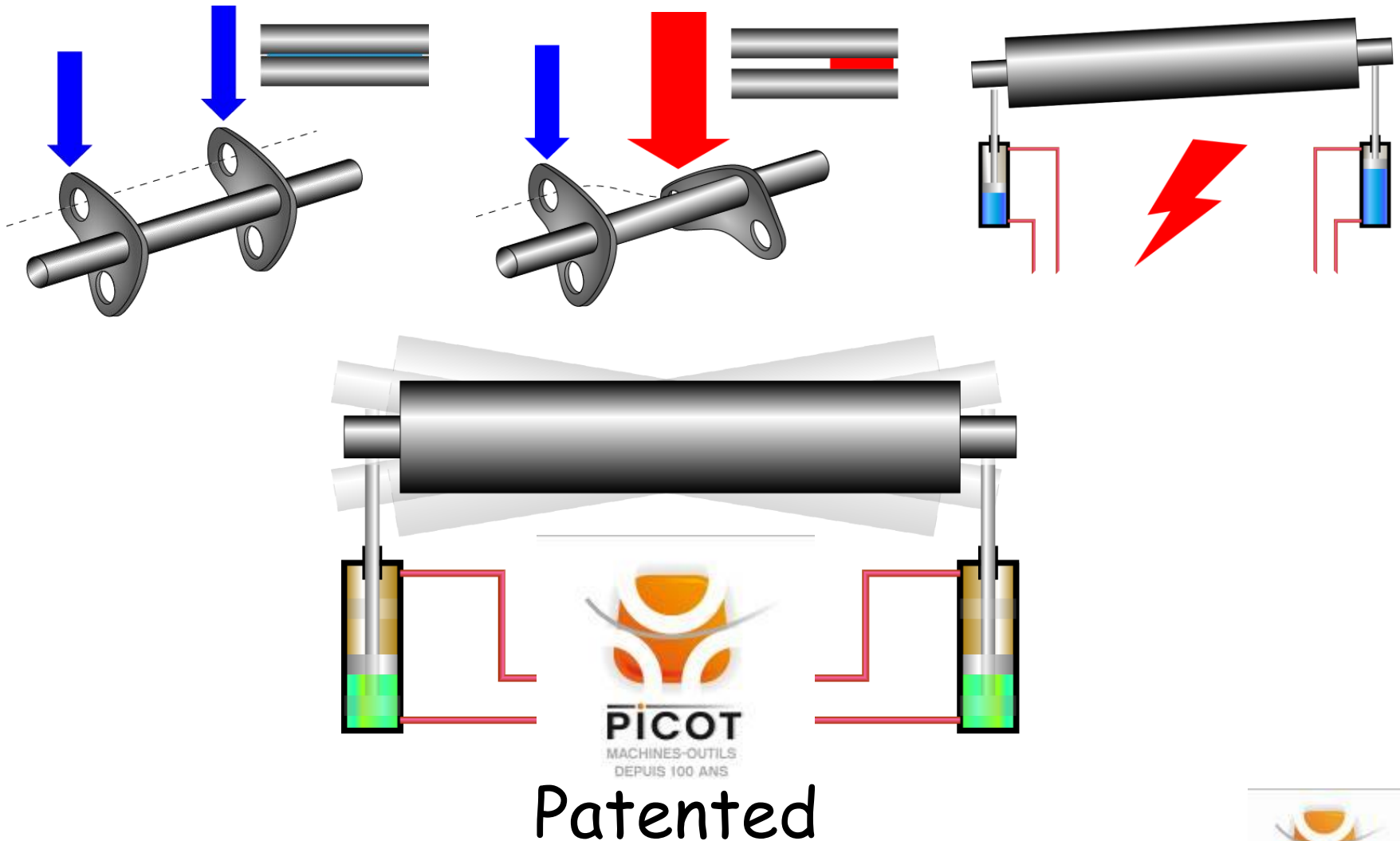
No wear – No Losses

Technology choice (2)- Brass Bearing

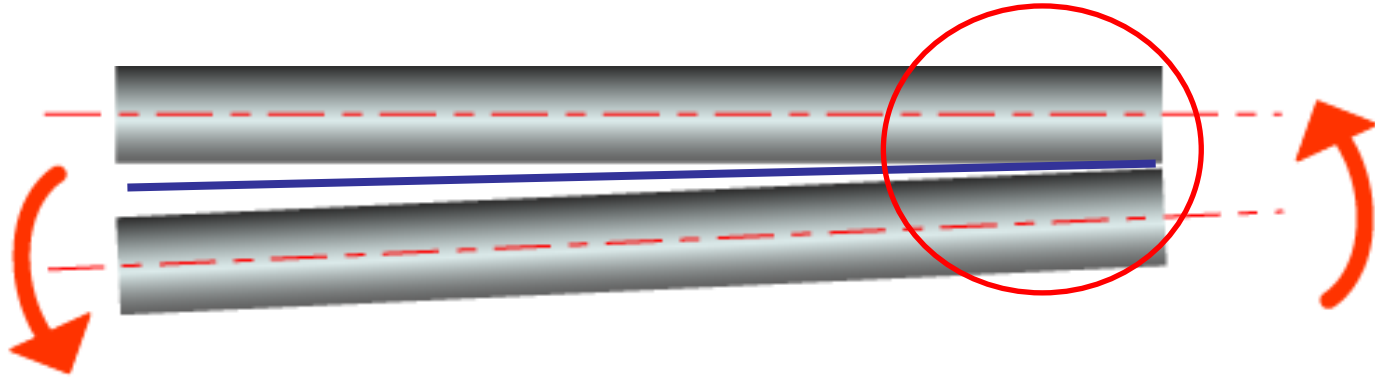


No wear – no maintenance

Technology choice (3)- synchronization

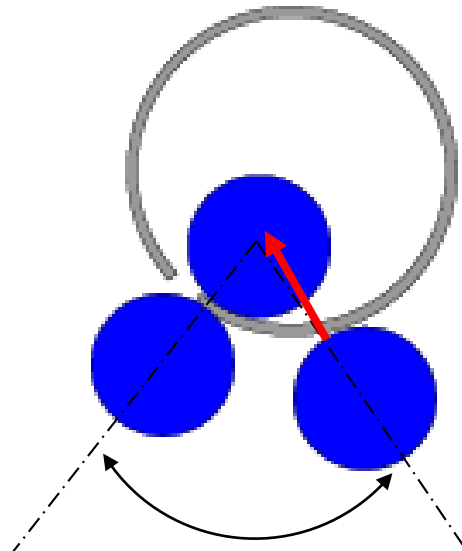


Technology choice (4)- Cone rolling

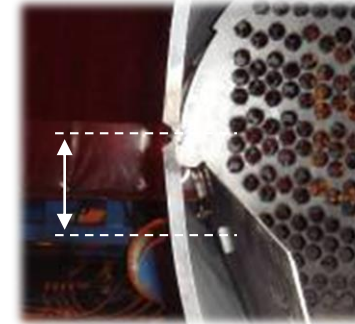
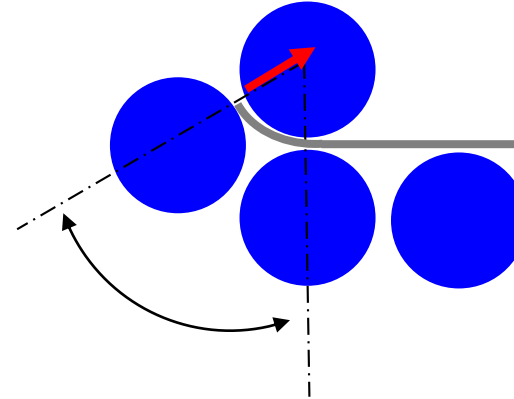


Loss of power on 4 roll bending machines if only 2 rolls driven

Technology choice (5)- Pre bending



Croirage avec 3 rouleaux / Pre-bending with 3 rolls / Anbiegen mit 3 Walzen



**Pre bending force higher
with 3 Rolls bending machine**

Thank you for your attention!!!

