



**NEW SERVICE “TP” TROLLEY FOR QUICK INKING  
CHANGEOVER SYSTEM AND  
EASY INKING DEVICE FOR INK SAVING**

# TP TROLLEY SYSTEM

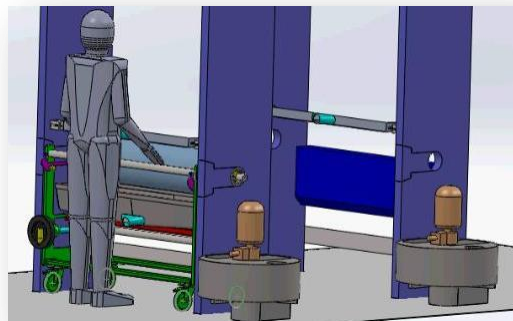
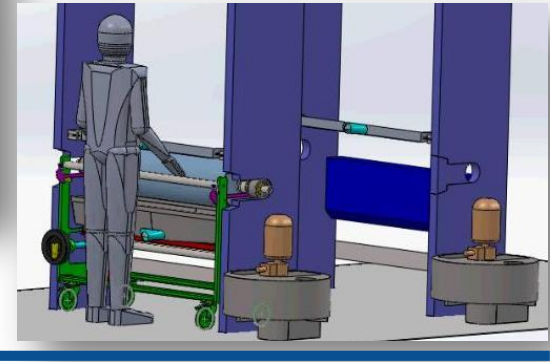
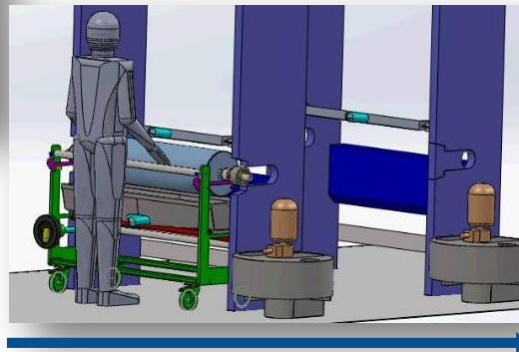
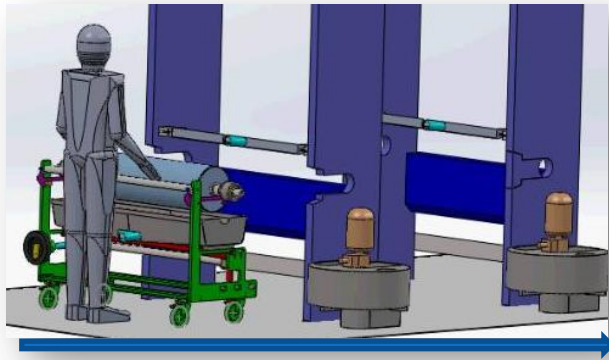
- The service **TP** trolley has been studied , conceived and designed to allow all gravure printing machines , not only reserved to the newest generation of machinery , to be able to benefit of time-saving technological innovations which reduce the dead times during job changeover and reduce the quantity of ink in circulation thus left-over ink stock.
- The innovation relates to a service trolley outside the printing unit and does not require changes to the structure of the printing unit itself.



# TP TROLLEY SYSTEM – WORKING SEQUENCES

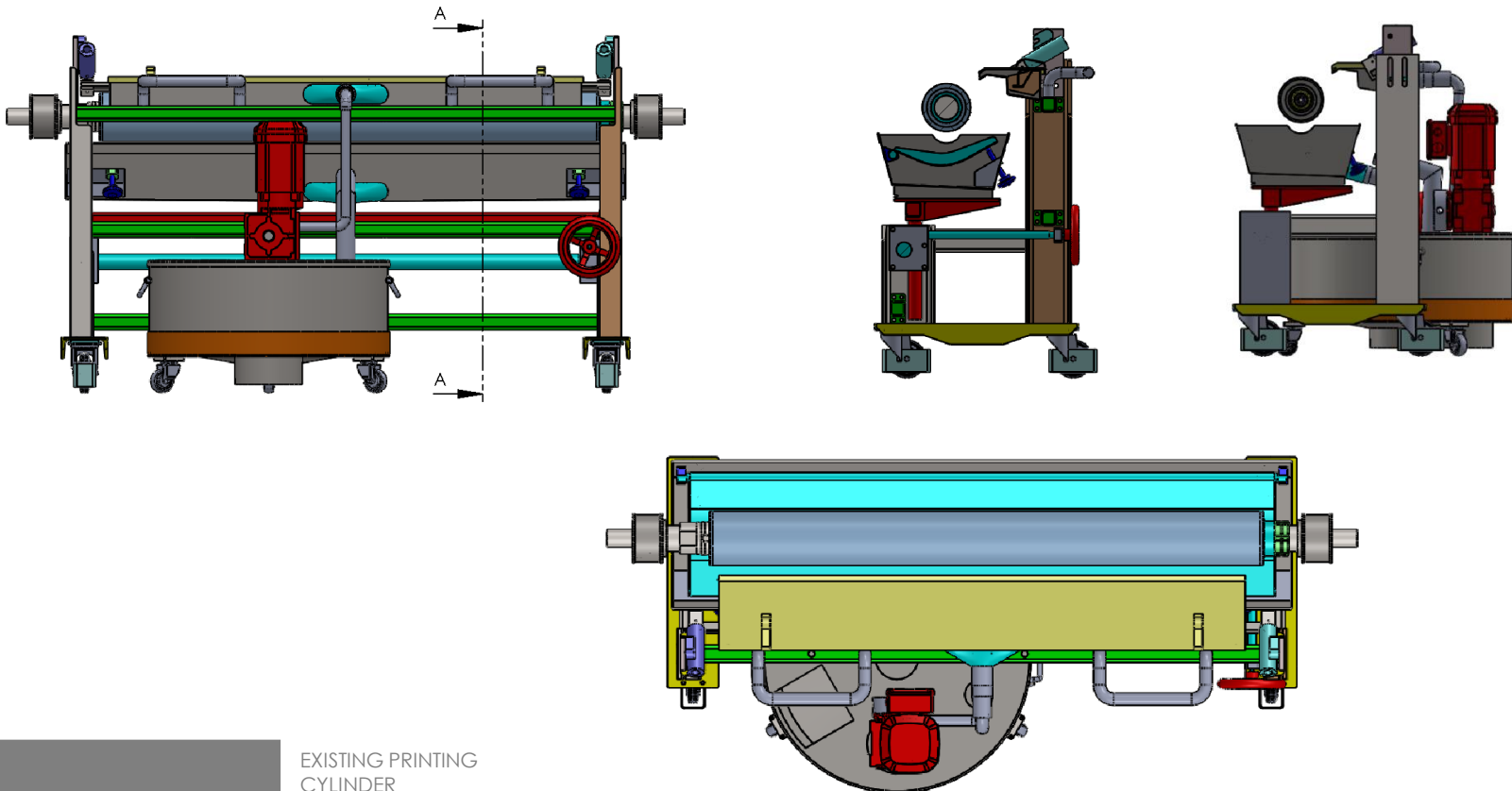
Positioning and loading the system

Solution shows the trolley without the tank



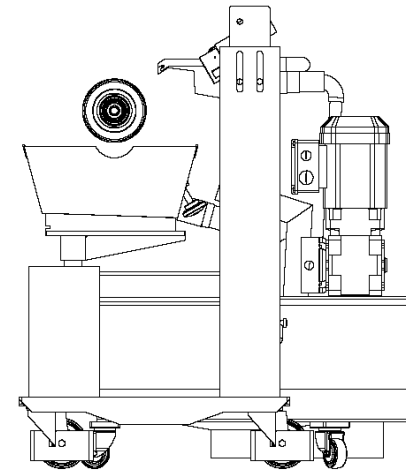
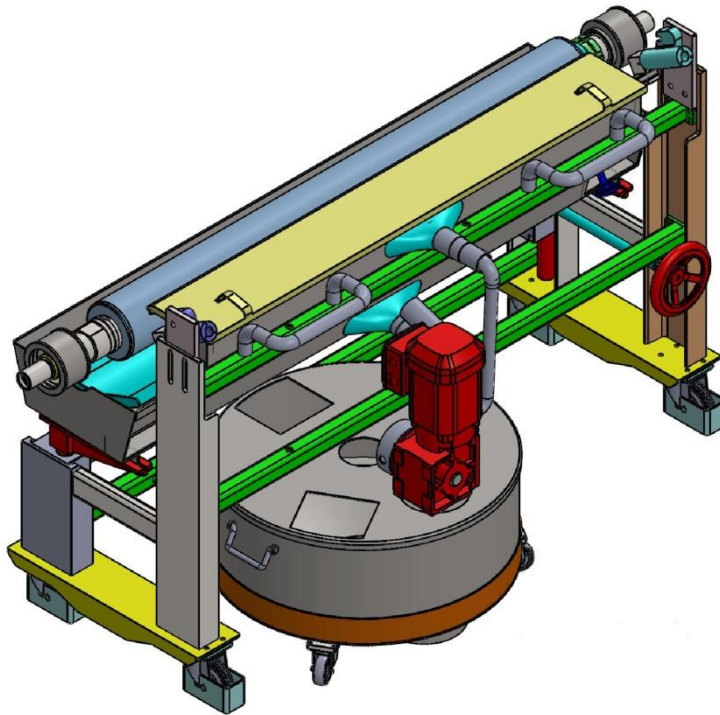
# THE **TP** SYSTEM – COMPONENTS ON THE TROLLEY EXCLUDED THE PRINTING CYLINDER

Concept: Trolley complete with ink tank



# THE **TP** SYSTEM – COMPONENTS ON THE TROLLEY EXCLUDED THE PRINTING CYLINDER

Concept: Solution with trolley holding the ink tank

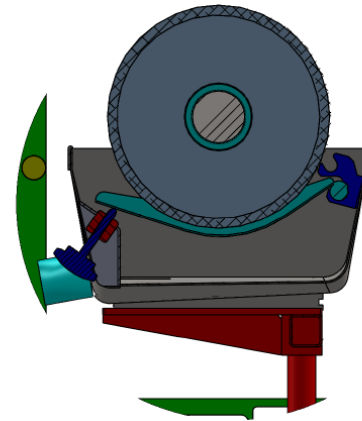
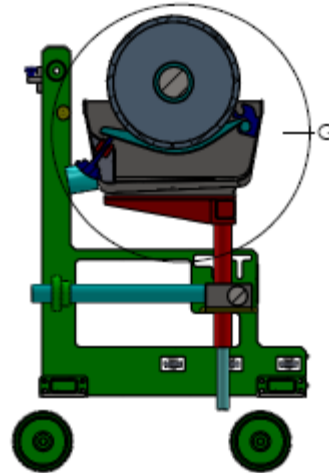
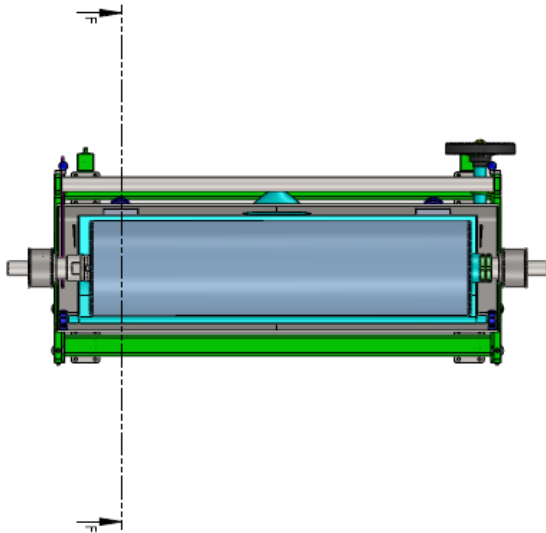


EXISTING PRINTING  
CYLINDER



# THE **TP** SYSTEM – COMPONENTS ON THE TROLLEY EXCLUDED THE PRINTING CYLINDER

Easy-Inking concept:



EXISTING PRINTING  
CYLINDER



# THE **TP** SYSTEM – WITH EASY INKING DEVICE

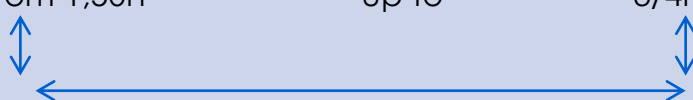
Benefits deriving from using Easy Inking device :

	STANDARD SYSTEM	TP TROLLEY SYSTEM	Saving
Ink volume in circulation when using the standard inking system and considering a printing cylinder circumference from 400 to 550 mm.	<b>5,45 liters</b>	<b>2,89 liters</b>	<b>- 47% of ink</b>
Ink volume in circulation when using the standard inking system and considering a printing cylinder circumference from 400 to 550 mm.	<b>5,20 liters</b>	<b>3,44 liters</b>	<b>- 34% of ink</b>



# BENEFITS DERIVING FROM THE USE OF TP TROLLEY SYSTEM COMPARING THE DEAD-TIMES DURING JOB CHANGEOVER BETWEEN A STANDARD SYSTEM TO THE NEW TP TROLLEY SYSTEM

Calculation made assuming an 8 colour press

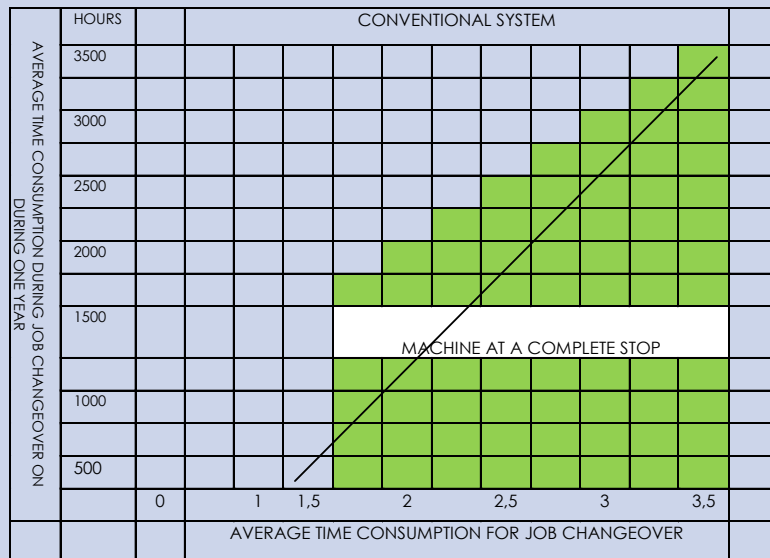
STANDARD SYSTEM	TP TROLLEY SYSTEM
<p>Time used for job changeover</p> <p>From 1,50h                      up to                      3/4h</p> 	<p>TP trolley system : Approx. <b>5 MINUTES FOR EACH PRINTING UNIT .</b></p>



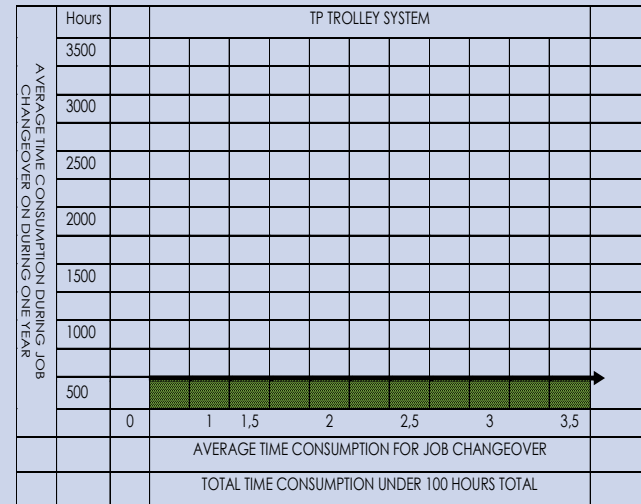
# COMPARING THE STANDARD SYSTEM TO THE NEW TP TROLLEY SYSTEM

Calculation made assuming an 8 colour press

## STANDARD SYSTEM



## TP TROLLEY SYSTEM



# COMPARING THE STANDARD SYSTEM TO THE NEW TP TROLLEY SYSTEM

Calculation made based an 8 colour press

## TOTAL ANNUAL BENEFIT

