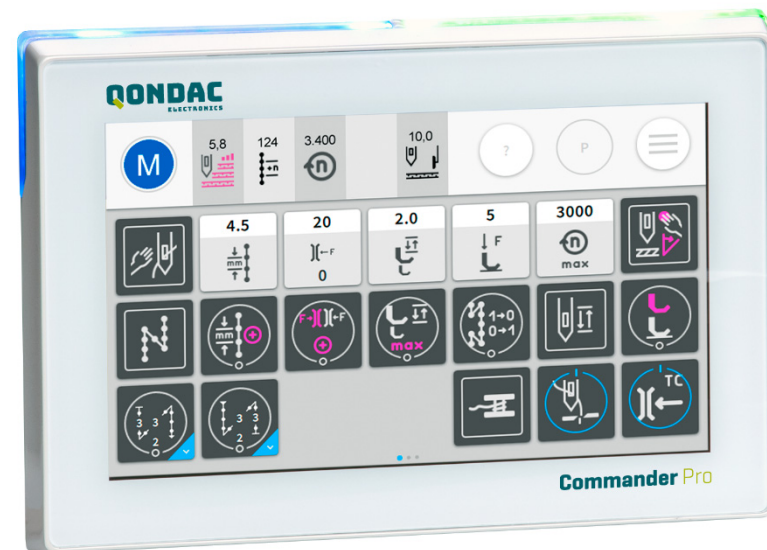


# M-TYPE PREMIUM COMMANDER

USER  
TRAINING



## Agenda Operator Training - 2 days (DAY 1)

09:00 - 09:15	Introduction, Overview of training program
09:15 - 10:00	Presentation of advantages and differences vs traditional machine (CLASSIC)  New features and functions  Advantages, Opportunities for customer
10:00 - 10:30	Machine Components <ul style="list-style-type: none"><li>• Explication</li><li>• Differences vs CLASSIC machine</li></ul>
10:30 - 10:45	Break
10:45 - 12:15	Push Buttons <ul style="list-style-type: none"><li>• Function Explication</li><li>• Favourite Button</li></ul> Control Panel Commander Pro / Commander Basic <ul style="list-style-type: none"><li>• Navigation</li><li>• Explication of the Main screen</li><li>• Explication of the function tiles</li></ul>
12:15 - 13:15	Lunch

## Agenda Operator Training - 2 days (DAY 1)

13:15 - 13:45

Operating modes, explication

Manual Mode

- Configuration of the main screen and status bar
- Description of the help button
- Explication of the parameter view
- Explication and settings of start and end backtack
- Exercise: Sewing in manual mode and backtack with pedal stop

14:00 - 14:45

- Explication of the function material thickness detection, specific settings
- Exercises:  
Parameter settings, changing between the 1st and 2nd parameter values of base parameters
- Explication of the navigation menu

14:45 - 15:00

Break

## Agenda Operator Training - 2 days (DAY 1)

15:00 - 16:15

Automatic mode

- Explication of mode and seam program
- Explication of the main screen and program selection
- Explication of the correction factors
- Exercises:  
Sewing in automatic mode, select a predefined program, identify and modify parameter settings

16:15 - 16:45

Conclusion, Questions

## Agenda Operator Training - 2 days (DAY 2)

09:00 - 09:30	Recapitulation of the 1st day Questions
09:30 - 10:30	Programming <ul style="list-style-type: none"><li>• Explication of program management</li><li>• Edit a program</li><li>• Settings of base parameters</li><li>• Explication of global program parameters</li><li>• Explication of specific parameters in the seam section</li><li>• Explication of additional parameters in automatic mode (Segment end modes, stitch counting)</li></ul>
10:30 - 10:45	Break
10:45 - 12:15	<ul style="list-style-type: none"><li>• Automatic mode – Main screen</li><li>• Modify a program</li><li>• Exercises: Modification of parameter settings, sewing in automatic mode, get used to navigation in the different menu levels</li></ul>
12:15 - 13:15	Lunch

## Agenda Operator Training - 2 days (DAY 2)

13:15 - 14:45	<p>Programming Mode, creation of programs</p> <ul style="list-style-type: none"><li>• Create a new program</li><li>• Exercises: Creation of simple programs</li></ul>
14:45 - 15:00	Break
14:30 - 16:15	<p>Programming Mode (cont.)</p> <p>Exercises:</p> <ul style="list-style-type: none"><li>• Creation of complex programs comprising multiple seam sections, forward/backward sewing in program, parameter settings in program</li></ul>
16:15 - 16:45	Conclusion, Questions

## Why M-TYPE PREMIUM?

- Productivity
  - Higher efficiency due to programming functionality / increased no. of operations per machine.
- Better Quality Results
  - Automatic and more precise adjustment / finer calibration tuning
  - Facility to reproduce parameter settings (more precise results)
  - Impressive new features and settings not feasible with traditional machine
- Saving Time
  - Rapid variation between programs
  - Reduced machine set-up times
- Flexibility
- Positive impact on environment
  - No compressed air needed (except some optional equipment)
- Universal and identical installation of software/programs
  - Quick and easy program transfer with USB
  - M2M (data transfer through network, LAN or WLAN)

## Differences PREMIUM vs. CLASSIC

 NEW

- Digital function control with panel Commander Pro
- Reproducible and reusable parameter adjustment
- Creation of automated programs
- Automation of seam sections
- End backtack settings can vary from adjustments of start backtack
- Sewing foot lift height adjustment (max. 20 mm)
- Automatic material thickness detection
- Jog Dial (electronic handwheel)



## Video

### Footstroke



## Advantages/Opportunities

### Problem:

- Small volume lot sizes
  - Numerous models
  - Dynamic model line
- } • long setup times

### Solution/Opportunity:

- Programmable sewing machine
- Execution of different seam operations using the same machine

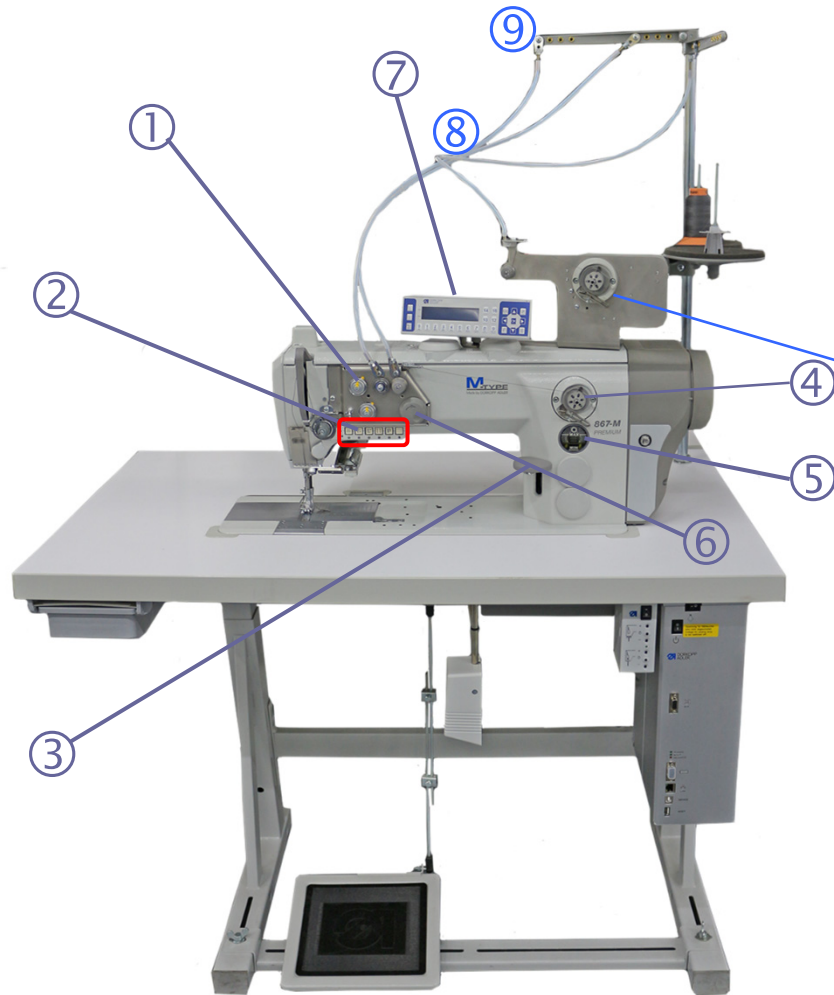


## M-TYPE PREMIUM

### Operation panel Commander Basic / Commander Pro

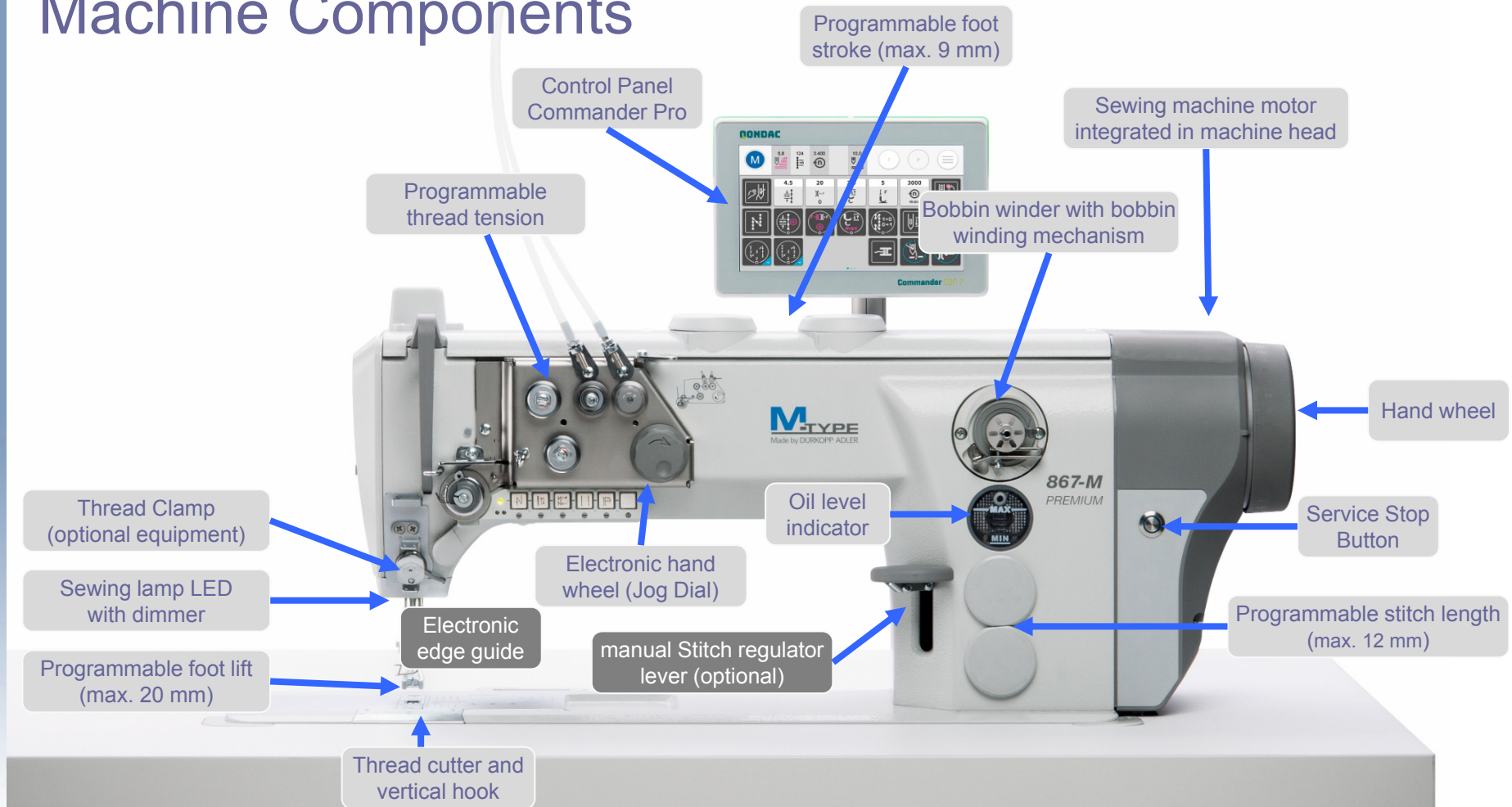


# Machine Components



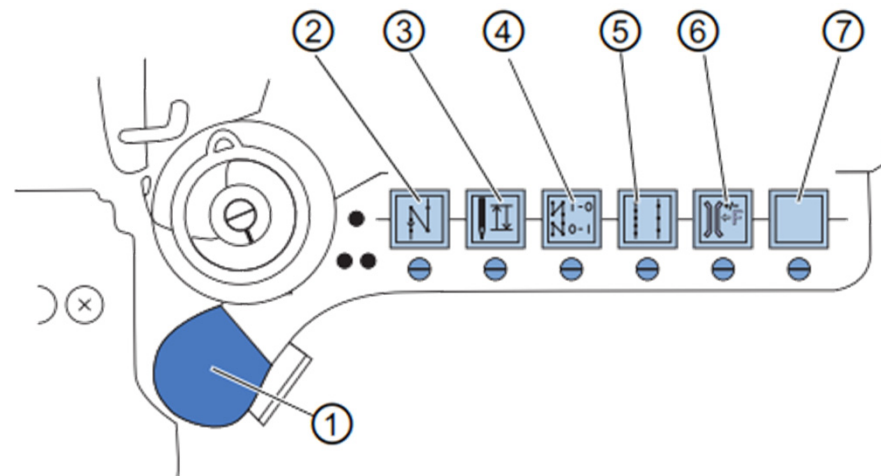
- (1) Programmable thread tension
- (2) Push buttons
- (3) Stitch adjustment lever
- (4) Bobbin winder /  
(4a) motorized winder
- (5) Oil level indicator
- (6) Jog Dial (electronic hand wheel)
- (7) Control panel OP3000 (standard)  
Optional Commander Basic / Pro
- (8) Hose guide
- (9) Thread guide

# Machine Components



# Push buttons (soft keys)

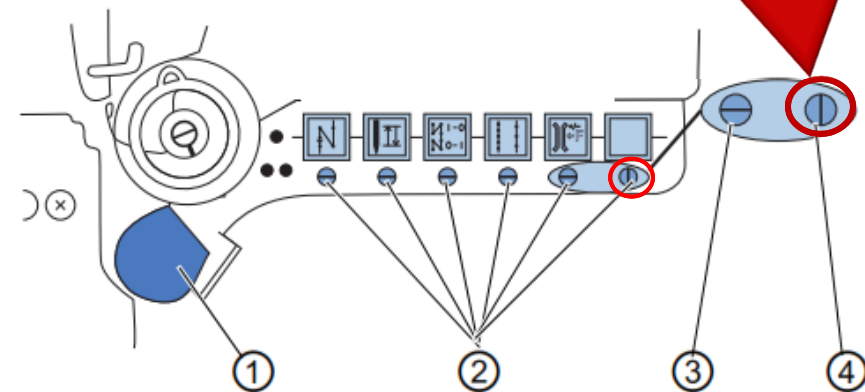
## Function Buttons



- (1) - Favorite button
- (2) - Sewing backwards
- (3) - Needle position
- (4) - Start bartack/end bartack

- (5) - Stitch length preselection
- (6) - Auxiliary thread tension
- (7) - fully customizable button

## Favorite Button



- (1) - Favorite button
- (2) - Screws

- (3) - Initial position
- (4) - Screw vertical



# M-TYPE PREMIUM

## Operation panel Commander Basic / Commander Pro



© Dürkopp Adler AG, all rights reserved

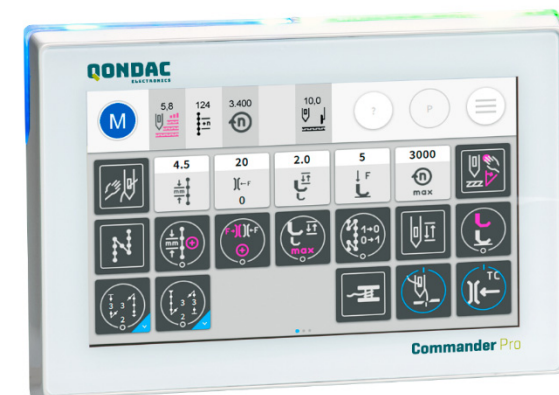
# Operation panel Commander Basic / Commander Pro

## Commander Basic:

- 7" touch screen
- 4 GB Internal storage capacity
- Media formats: PDF / WebM VP8
- LED status indicator
- 2 USB ports

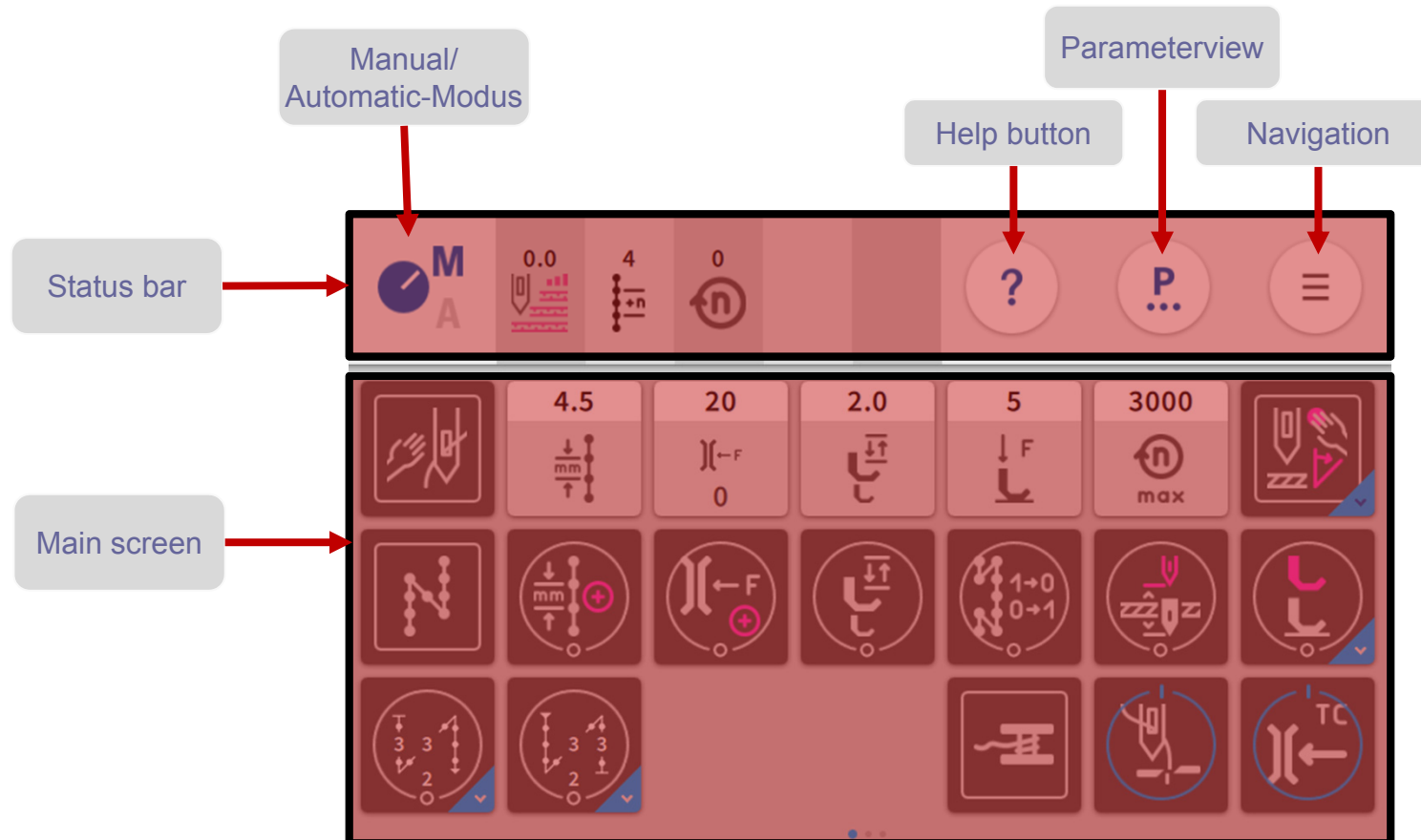
## Commander Pro:

- In addition to the basic features, the Commander Pro has an Ethernet interface (for easy communication with QONDAC) and an NFC-module

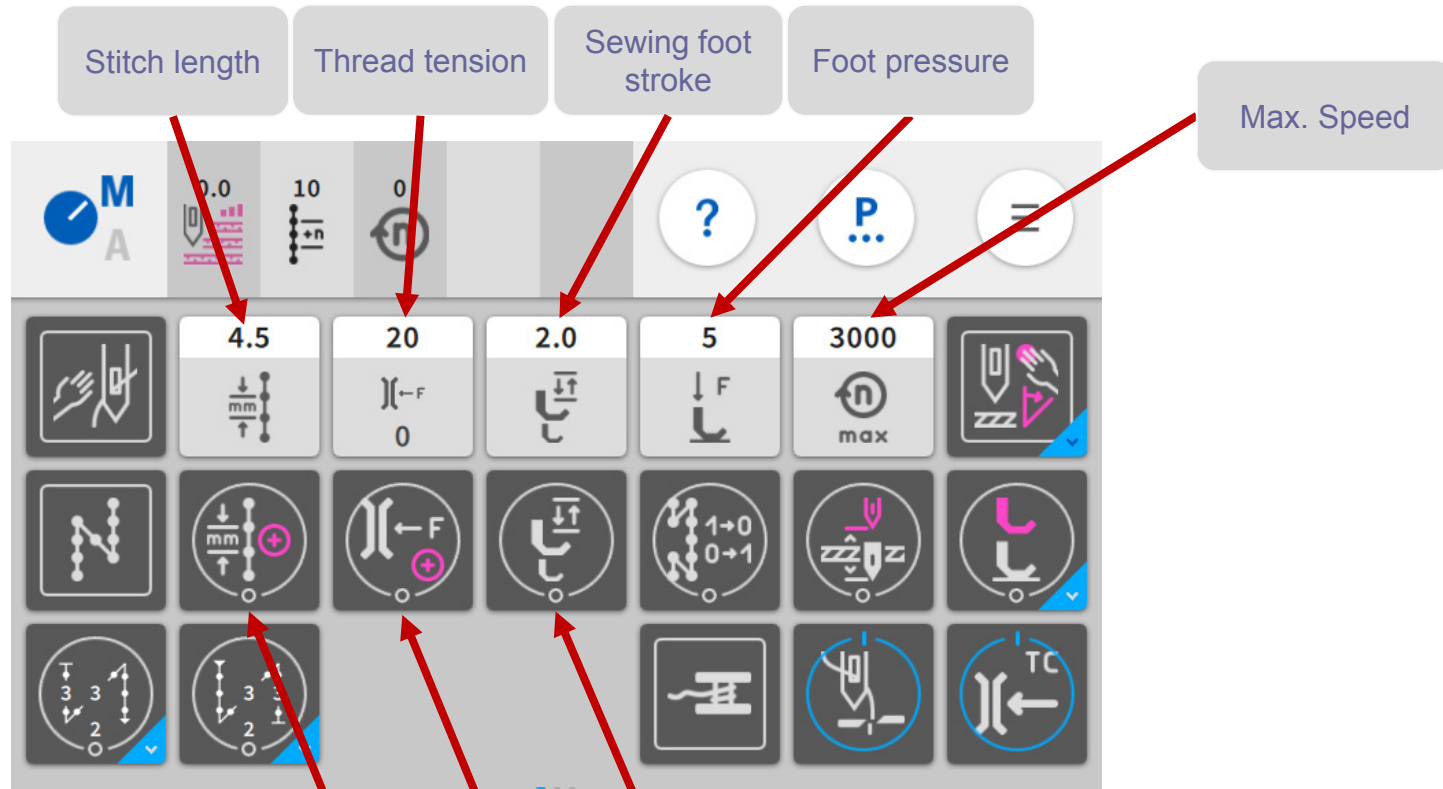




# Main screen – Manual Mode



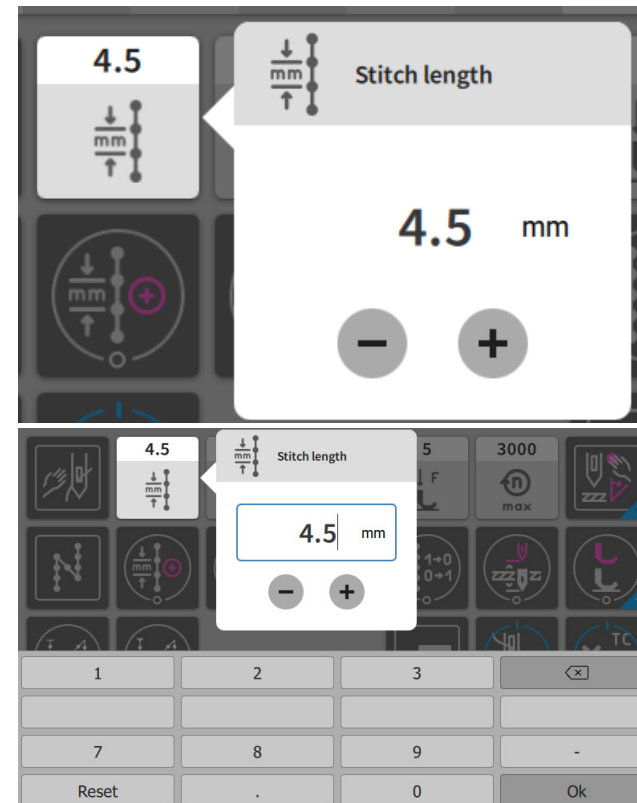
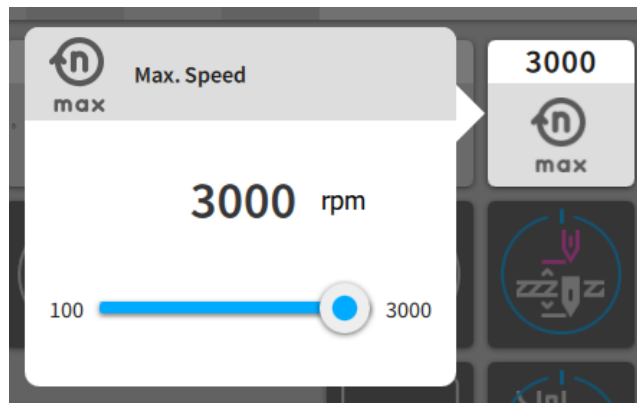
# Commander Basic / Pro – Main screen



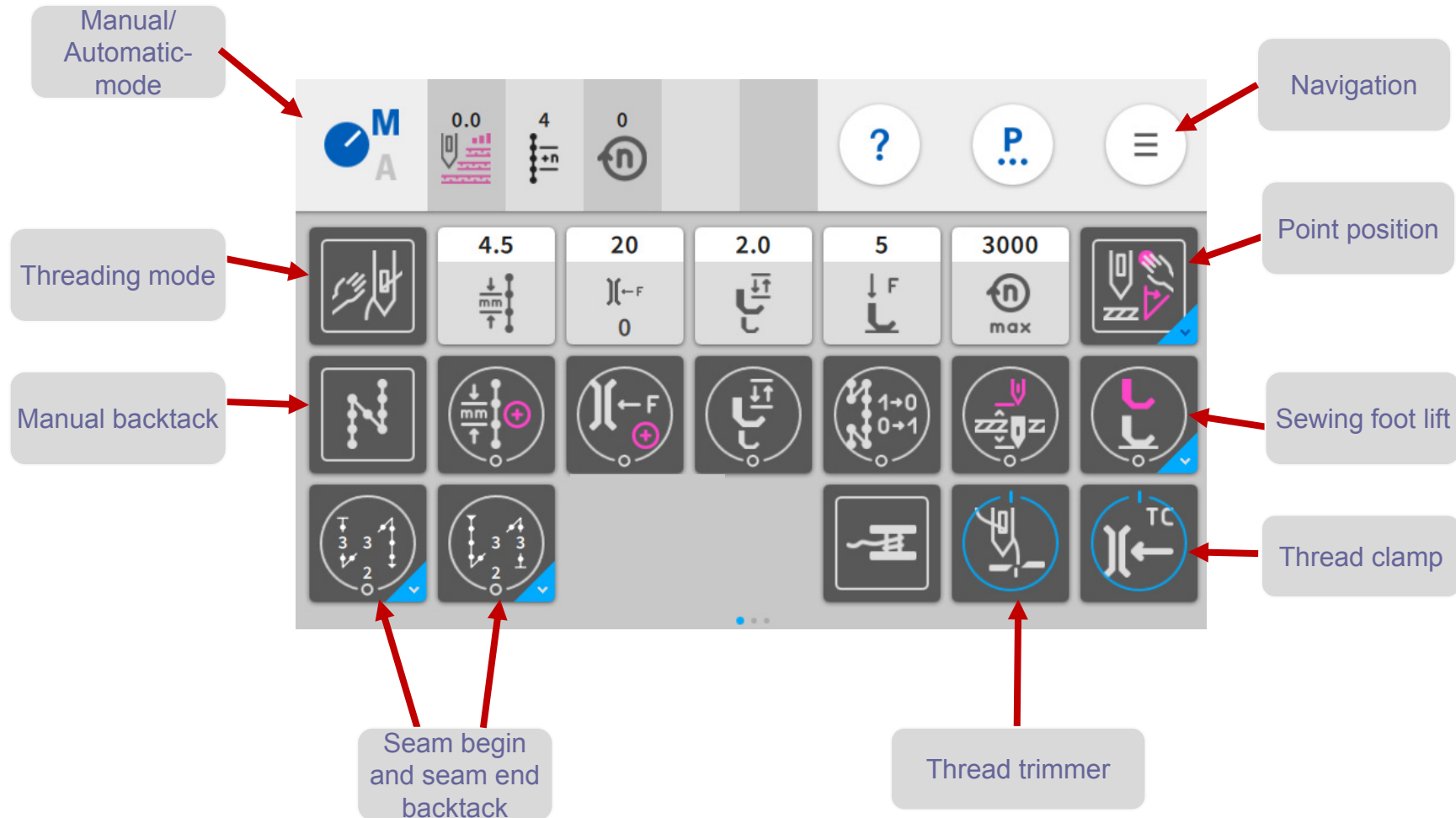
the additional parameters  
are indicated with the + sign

# Value Tiles with popover menu

- Settings of parameters which are used often (light grey buttons)
- Adjustment in steps (plus and minus button), overwriting the value directly or continuous adjustment (Slide bar)



## Functional Tiles (resting/tentative) – Freely configurable



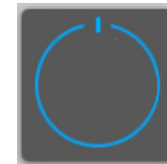


# Multi-Functional Tiles with popover menu

- SingleTap



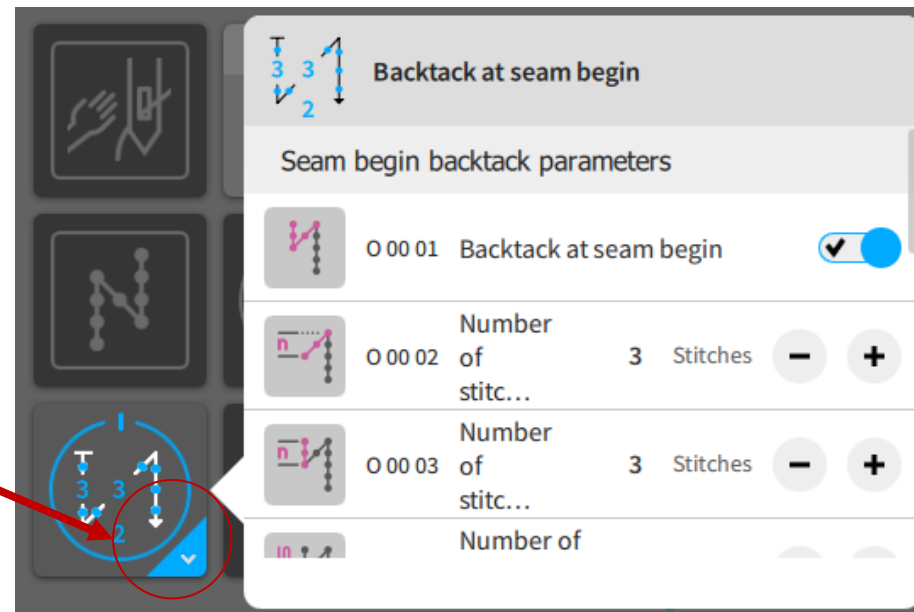
On



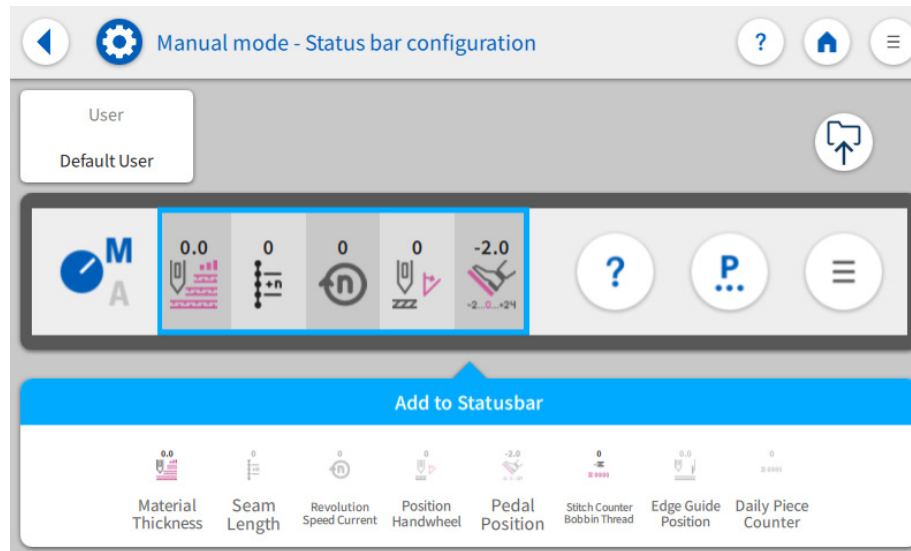
Off



- Longpress  
(1s press and hold)  
Opening of backtack  
popover


Indicator for  
Longpress-  
Popover


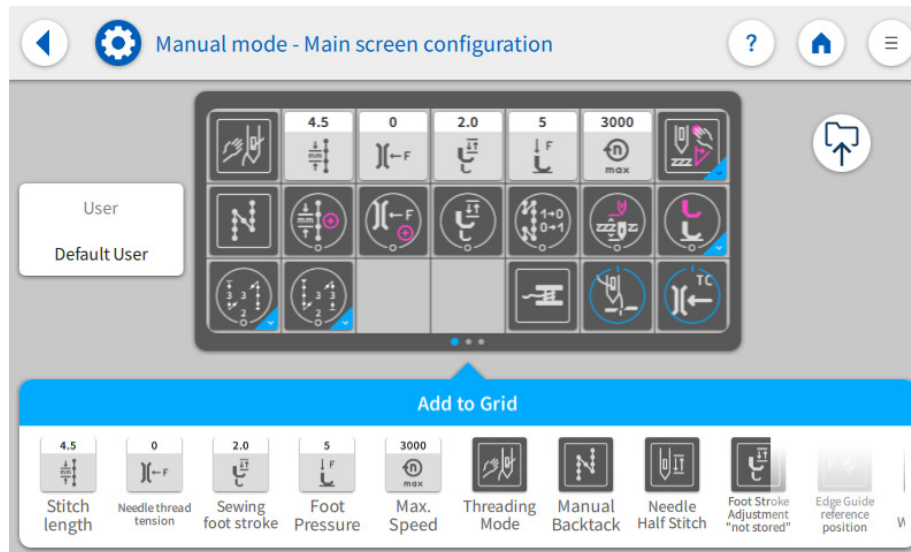
# Status bar - Configuration



**Select tiles via Drag and Drop**

- Material thickness
- Seam length (Number of stitches)
- Speed
- Handwheel position
- Pedal position
- Stitch Counter Bobbin Thread
- Edge Guide Position
- Daily Piece Counter

# Main screen - Configuration



Select tiles via Drag and Drop

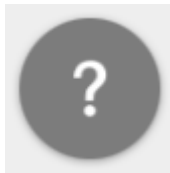
- Freely configurable
- 3 pages
- Every user can configure his own main screen
- Function tiles for each function



## Help Button



Help Button



Single Tap: Help mode is activated for single function.  
Next tap opens an information advice.  
Closing of the information window deactivates the help button.



Long Press: Demo mode  
No automatical deactivation of the help button after closing of information advice.  
Every following tap on functions opens information advices.

# Parameter view

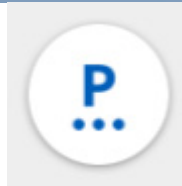














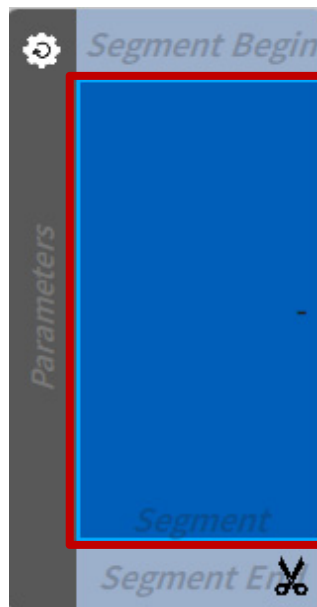
Diagram illustrating the parameter view structure with labels and arrows pointing to the corresponding elements in the interface:








- Seam Begin** points to the **Segment Begin** header.
- Seam** points to the main parameter list area.
- Global Parameter** points to the **Parameters** sidebar.
- Seam End** points to the **Segment End** footer.

The interface shows a sidebar labeled **Parameters** and a main area titled **Seam** containing a **Seam Parameter** table.

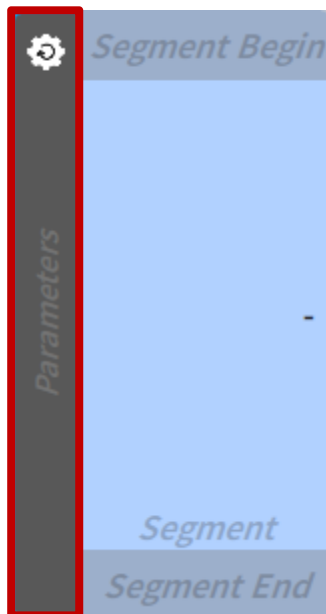
Seam Parameter					
	O 30 01	Stitch length	4.5	mm	 
	O 09 01	Needle thread tension	20	%	 
	O 33 01	Foot Pressure	5		 
	O 10 01	Sewing foot stroke	2.0	mm	 

# Parameter view – Segment



Seam Parameter					
	O 30 01	Stitch length	4.5 mm	-	+
	O 09 01	Needle thread tension	20 %	-	+
	O 33 01	Foot Pressure	5	-	+
	O 10 01	Sewing foot stroke	2.0 mm	-	+
	O 08 00	Max. Speed	3000 rpm	-	+
	O 03 00	Sewing foot lift at stop			<input checked="" type="checkbox"/>
	O 03 10	Hight of sewing foot lift at stop	18 mm	-	+

## Parameter view – Parameter




- Additional values (+)
  - Stitch length
  - Sewing foot stroke
  - Needle
- Main parameter
  - Bobbin monitor mode
  - Point position
- Correction speed effect
- Correction material thickness effect

# Parameter Seam begin / Seam end


Seam begin




## Parameter Seam Begin

 TC 0 01 00 Needle thread clamp ☒

## Parameter Seam End

 0 03 01 Sewing foot lift after trim ☐








 0 03 11 Hight of sewing foot lift after trim 18 mm

 0 02 00 Thread trimmer ☒

Seam end








# Settings seam begin backtack / seam end backtack

Seam begin backtack parameters

	0 00 01	Backtack at seam begin	<input checked="" type="checkbox"/>	On/Off
	0 00 02	Number of stitche...	3 Stitches	Single tap onto value opens numerical keyboard
	0 00 03	Number of stitche...	3 Stitches	Increase or decrease value
	0 00 04	Number of backtack sections	2	
	0 00 05	Stop-Time for direction change	100 ms	
	0 00 06	Stitch length default	<input checked="" type="checkbox"/> 	Indicator for Drop-Down menue, opens further settings

If the function „Stitch length default“ is activated, the same stitch length is used in the backtack as in the seam

# Settings backtack

Speed of automatical backtack		0 00 09	Speed	1000 rpm	-	+	
Single stitches per pedal during backtack 0 = Off 1 = Single stitches with backtack speed 2 = Single stitches with pedal-dependent sewing speed		0 00 10	Single stitches per pedal	0	-	+	
		0 00 11	Needle thread tension default	<input checked="" type="checkbox"/>			▼
		0 00 14	Catch backtack	<input type="checkbox"/>	✕		▼
Modification of number of stitches in first or last backtack section		0 00 17	First backtack section	<input type="checkbox"/>	✕		▼
		0 00 21	Last backtack section	<input type="checkbox"/>	✕		▼
		0 00 19	Invert backtack direction	<input type="checkbox"/>	✕		

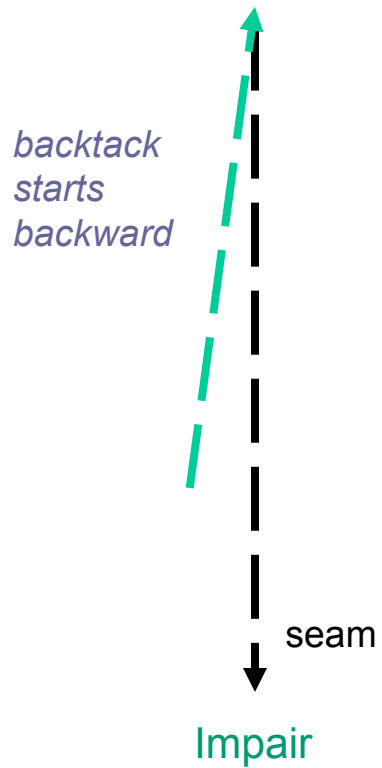
If the function „Needle thread tension default“ is activated, then the same tension is used in the backtack as in the seam

Additional backtack sequence before proper backtack

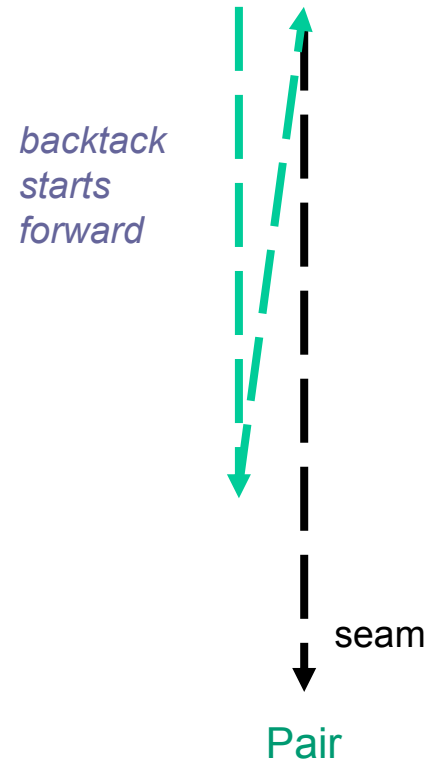
Invert the direction of the backtack

# Start backtrack - Repetitions

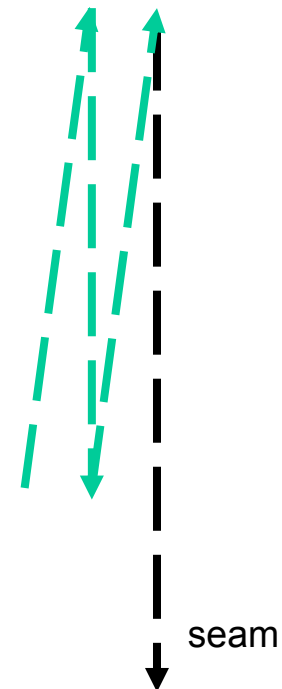
1 Repetition



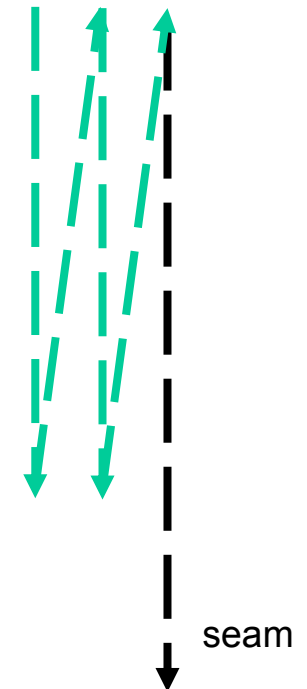
2 Repetitions



3 Repetitions




4 Repetitions





# Exercise: Sewing in Manual Mode, other parameters

## Pre-setting in Manual Mode


- modify the base parameters:
  - stitch length 5.0 mm
  - needle thread tension 25%
  - sewing foot pressure 5
  - sewing foot stroke 1,5 mm
- modify the other parameters 
  - Thread Trim active On
  - Start bartack active (On)
    - Number of backward stitches (3 points)
    - Number of forward stitches (3 points)
    - **St.Len.Def** – Default stitch length active (On)
  - End bartack active (On)
    - Number of backward stitches (4 points)
    - Number of forward stitches (4 points)
    - **St.Len.Def** – Default stitch length inactive (Off)
      - backward stitch length (2.5 mm)
      - forward stitch lengths (2.5 mm)
  - Gap (edge guide): 10 mm

## During sewing process

- start sewing  
(automatic start backtack)
- activate/deactivate the auxiliary values:
  - activate 2<sup>nd</sup> stitch length
  - activate 2<sup>nd</sup> foot stroke
  - activate 2<sup>nd</sup> thread tension
  - deactivate the secondary values
- interrupt the sewing process (pedal)
  - lift your foot from pedal
  - continue sewing process / resume
- stop sewing, end of seam (pedal -2)  
(automatic end backtack)

# Exercise: Backtack with Pedal Stop

## Adjustment of backtacks

- other parameters 
- Start backtack active (On)
  - Number of backward stitches (3 points)
  - Number of forward stitches (3 points)
  - St.Len.Def – Default stitch length active (On)
  - reduced Speed: 200
  - Pedal Stop active (On)
- End backtack active (On)
  - Number of backward stitches (3 points)
  - Number of forward stitches (3 points)
  - St.Len.Def – Default stitch length active (Off)
    - Backward stitch length (3 mm)
    - Forward stitch length(3 mm)
  - reduced Speed: 200
  - Pedal Stop active (On)

## During sewing process

- start sewing  
(automatic start backtack)
- **interrupt the sewing process** (pedal)
  - lift you foot from pedal
- **continue sewing process / resume**
- **stop sewing**, end of seam (pedal -2)  
(automatic end backtack)

**With Pedal Stop you  
can stop sewing during  
bartack execution.**

## Parameter Material thickness detection

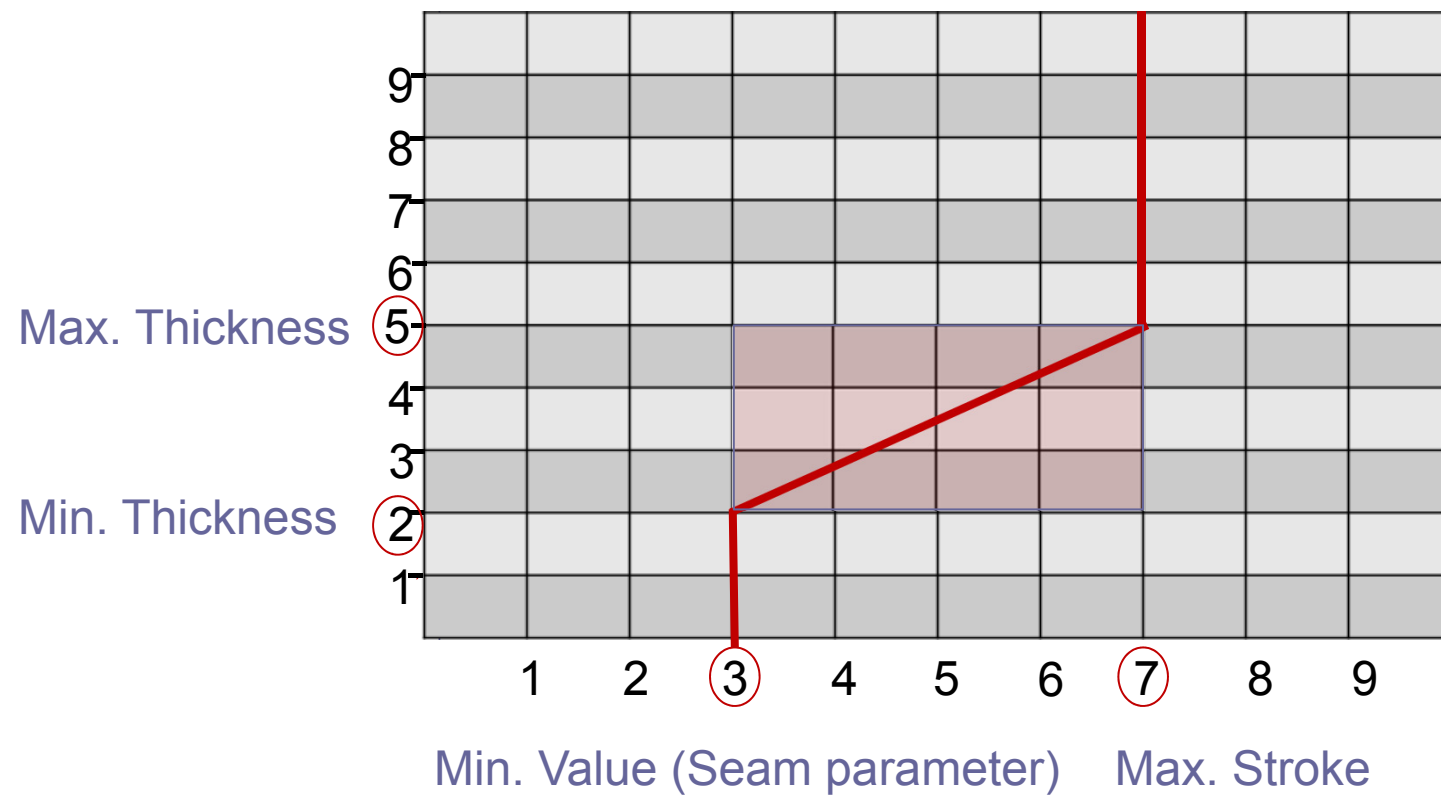
**Goal:**  
consistent good  
sewing results



**Material  
Thickness  
Detection**

- Material thickness detection On/Off
  - Sewing foot stroke
  - Stitch length
  - Needle thread tension
  - Sewing foot pressure
  - Max. Speed – Maximum speed
- Modes
  - linear
  - 2. Value On/Off
  - 2. Value On

## Example: Material thickness - Foot Stroke



## Exercises: Adjustment Material thickness detection

### Mode linear

- Active (On)
- **Stroke**
  - **Mode linear**
  - Sewing foot stroke 8.0
  - Min. Material thickness 2.0 mm
  - Max. Material thickness 5.0 mm
- **Stitch length**
  - **Mode linear**
  - Stitch length (10 %)
  - Min. Material thickness 2.0 mm
  - Max. Material thickness 5.0 mm

### Mode 2. Value On/Off


- **Stitch length**
  - Mode 2. Value On/Off
  - Min. Material thickness 3.0 mm

### Mode 2. Value On

- **Stitch length**
  - Mode 2. Value On
  - Min. Material thickness 2.0 mm

# Exercise: Sewing in Manual Mode, Gap and Gap+

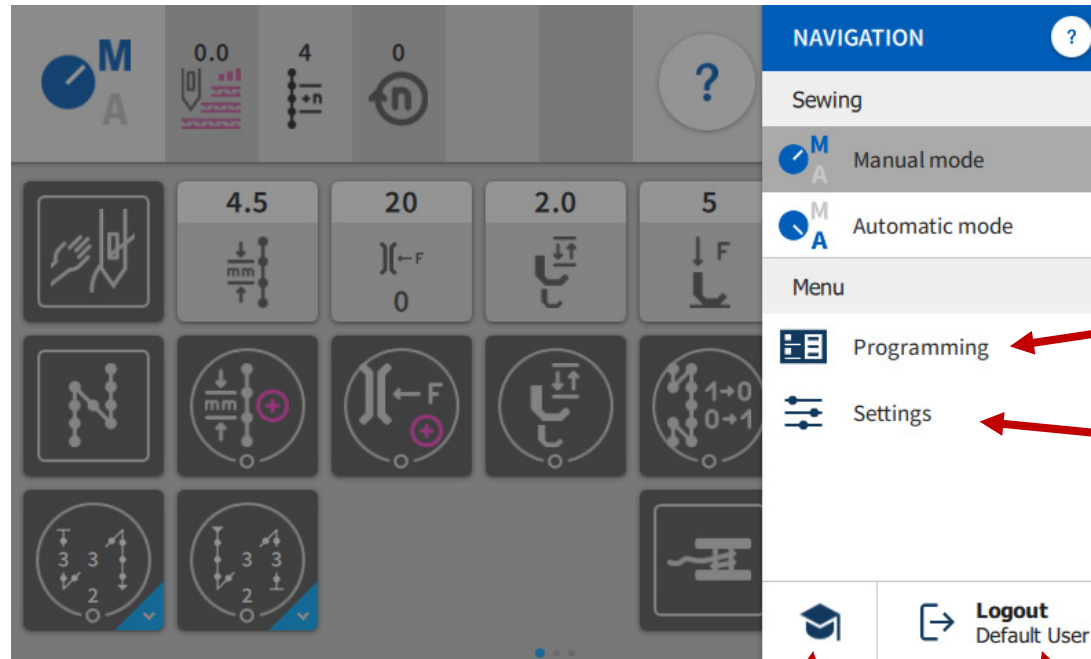
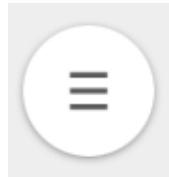
## Pre-setting in Manual Mode

- modify the base parameters :
  - stitch length 3.8 mm
  - thread tension 25%
  - sewing foot pressure 5
  - sewing foot stroke 3 mm
- modify the other parameters 
  - Thread trimmer active (On)
  - Backtack at seam begin active (On)
    - Number of stitches backward (3 points)
    - Number of stitches forward (3 points)
    - Stich length default active (On)
  - End backtack active (On)
    - Number of backward stitches (3 points)
    - Number of forward stitches (3 points)
    - Stich length default active (On)
  - Gap (edge guide): 10 mm
- adjust the additional values:
  - 2<sup>nd</sup> stitch length 6.0 mm
  - 2<sup>nd</sup> thread tension 30%
  - **2<sup>nd</sup> gap (edge guide distance) 20 mm**

## During Sewing Process

- start sewing  
(automatic start backtack)
  - activate/deactivate the additional values
    - activate 2<sup>nd</sup> stitch length
    - activate 2<sup>nd</sup> foot stroke
    - activate 2<sup>nd</sup> thread tension
    - **activate 2<sup>nd</sup> gap (gap+)**
    - deactivate the secondary values
- stop sewing, end of seam (pedal -2)  
(automatic end backtack)

# Navigation Mode



Program-Management  
to create, delete, copy  
or edit programs

All types of settings  
(depends of access  
level)

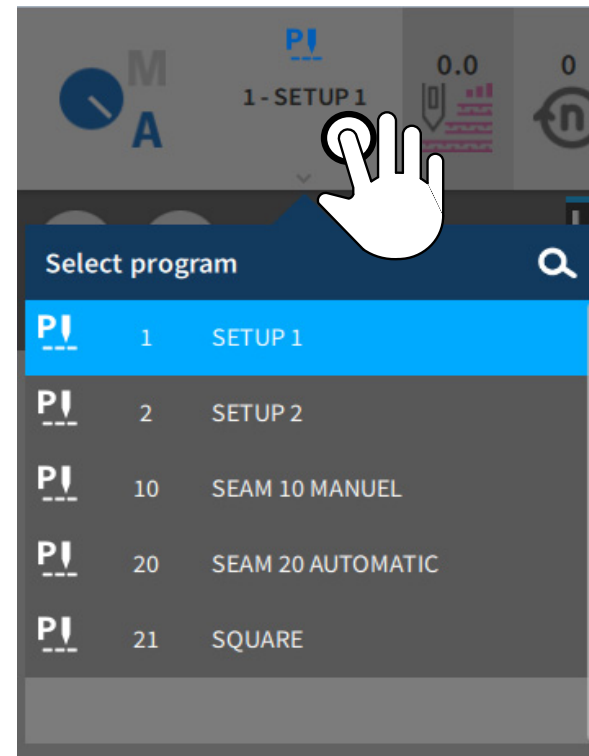
Tutorials: PDFs  
and videos

Logout and  
opening of  
Login-Screens

## Automatic mode



- Program selection
  - Select from the program list or search for the right program by clicking on the magnifying glass.

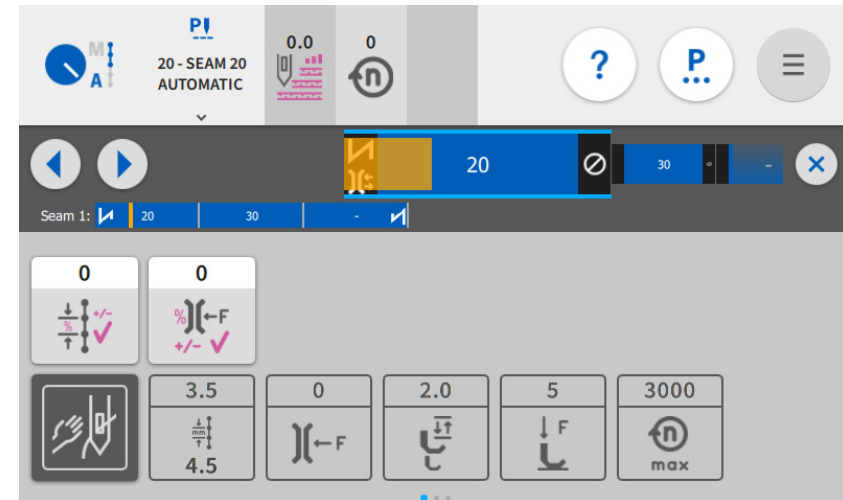




# Automatic mode



- During sewing process
  - Indication of actual seam section
  - Display of parameter values defined in the seam section
  - Program progress (program bar)
  - Predefined number of stitches per section
  - Backtacks
  - Switch between two seam sections with a stop and with/without thread cutting
  - Switch between two seam sections without stopping
- Cut off the program (pedal fully back, Pos. -2)
  - Backtack and thread trim, if set in program



# Automatic mode: Main screen

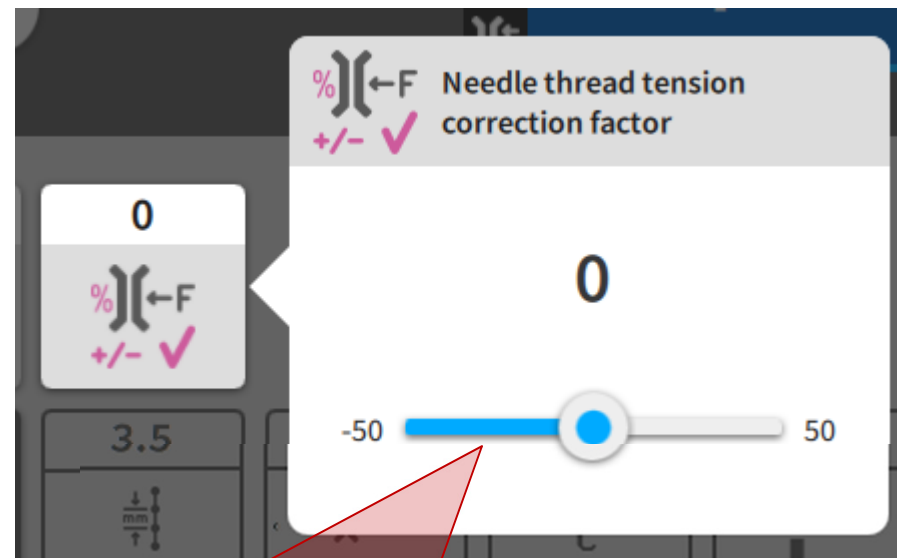
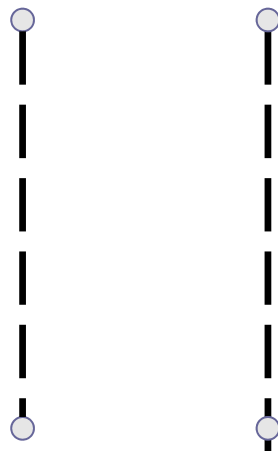
The screenshot shows the main interface of the sewing machine in Automatic mode. The top bar displays '20 - SEAM 20 AUTOMATIC' and various status icons. Below this is a control panel with buttons for navigation, a sketch of the sewing progress, and a row of information tiles. Callouts provide detailed explanations of these elements:

- Current seam-progress:** Points to the top status bar showing '20 - SEAM 20 AUTOMATIC'.
- Switch to previous or next section:** Points to the left and right navigation arrows.
- Sketch of sewing progress:** Points to the graphical representation of the seam.
- Predefined number of stitches per section:** Points to the '20' value in the progress bar.
- Pop over tiles: correction parameters could be changed:** Points to the top row of two tiles showing '0' and correction icons.
- Threading mode:** Points to the icon of a hand threading a needle.
- Information tiles:** A detailed view of the first tile showing a 'Preset value' of 3.5 and a 'Current value' of 4.5, with a unit icon (mm) in between.

## Automatic Mode: Correction actors

- correction %age for stitch length and thread tension
  - Test results
  - Due to the influence of different material

**GOAL**      **REALITY**



Test the correction values  
and adjust alteration %age

## Exercise: Identify configurations / settings

- Selection of programme no.10 SEAM 10 MANUEL
- Which program settings can you identify?
  - Number of seam sections ?
  - Backtacks ?
  - Thread Trim ?
  - Stop between seam sections ?
  - Predefined number of stitches ?


## Automatic Mode: Sewing a program

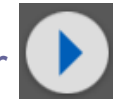
- Program Selection
- Start sewing process
- Switch to previous and following seam section



- Function Button no. 6
  - **USEFUL!** Favourite button (assign feature of function buttons)
- Skip a seam section of the program
- Cut off or cancel the program in the seam and resume sewing process
  - Pedal -1 (program remains stopped at cut off point)
  - Pedal -2 (complete cancellation of program and return to starting point) / or switch to following seam section (program switch by pedal)

## Exercise: Sewing in Automatic Mode

- Utilise a **program** consisting of several seam sections
  - Select a program using the program selection:  
Program 10 – SEAM 10 MANUEL
  - Sew the program
    - start backtack automatically executed
    - **switch to next seam section** (function button no. 6 or )
    - stop sewing in the program (foot lift)
    - resume sewing process / continue
  - Terminate program (Pedal -2)
    - end backtack automatically executed
    - thread trim
  - Cancel the program



## Exercise: Sewing in Automatic Mode

- Sewing of a program consisting of several seam sections and specific number of stitches per section
  - Select a program using the program selection:  
Program 20 – SEAM 20 AUTOMATIC
  - Sew the program
    - Start backtack automatically executed
    - **Automatic stop at the end of the section** (after specific number of stitches)
    - Change to next section by sewing again after stopping at end of section
  - Terminate program (pedal -2)
    - End backtack automatically executed
    - Thread trim



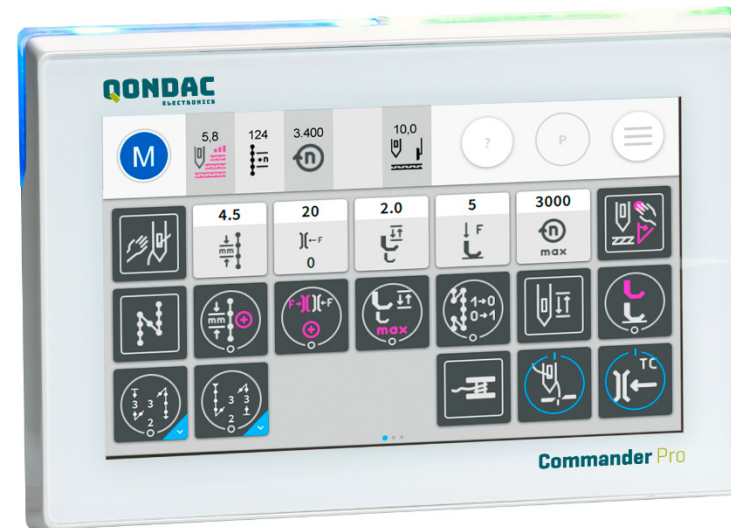
## Conclusion Day 1

- Introduction to the M-TYPE PREMIUM machine
  - Advantages, new functions
  - Components of the machine
- Control Panel Commander Basic / Pro
- Manual Mode
  - Parameter adjustment
  - Start backtack / end backtack
  - Material thickness detection
- Automatic Mode
  - Sewing in automatic mode
  - Correction Factors






**QUESTIONS?**

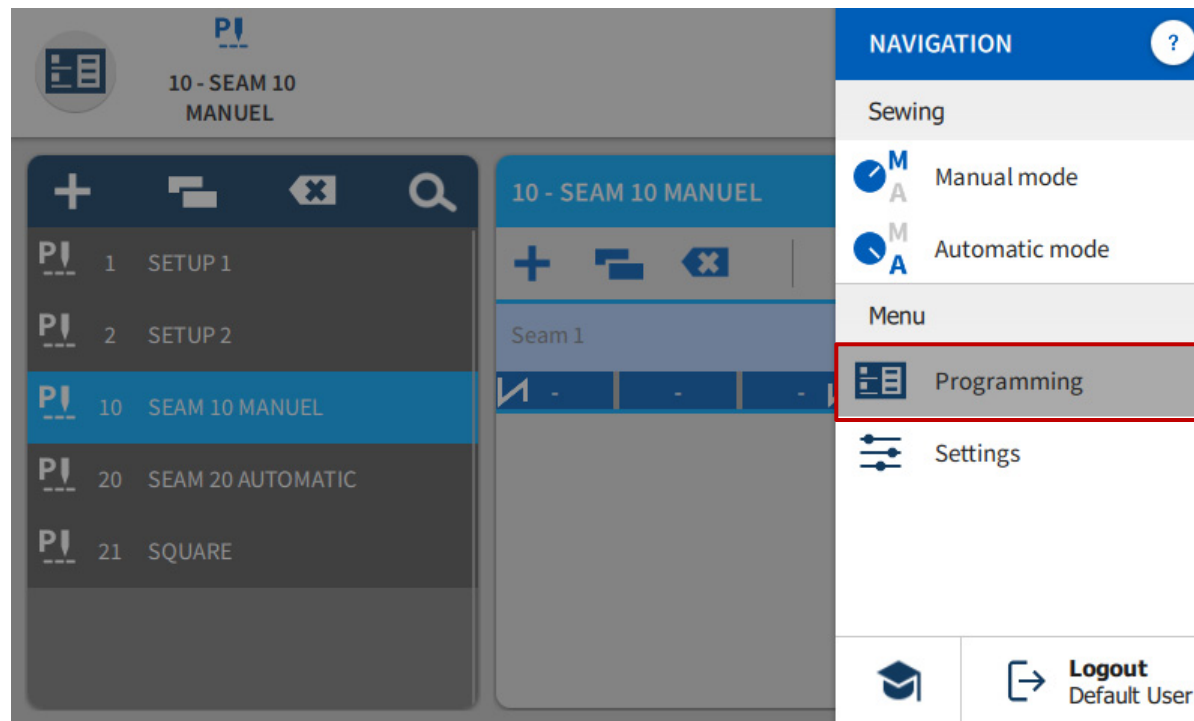


**THANK YOU  
FOR YOUR ATTENTION**

## Recapitulation of First Day

- Control panel Commander Pro
  - How to navigate in the menus
  - Use of Softkey Menu, favourite button
- Manual Mode
  - Adjustment of base parameters
  - Adjustment of other parameters 
    - Thread trimmer
    - Start backtack / End backtack
    - Edge guide
    - Parameter material thickness detection
- Automatic Mode
  - Selection of a program
  - Sewing in automatic mode

# Program management



# Program management

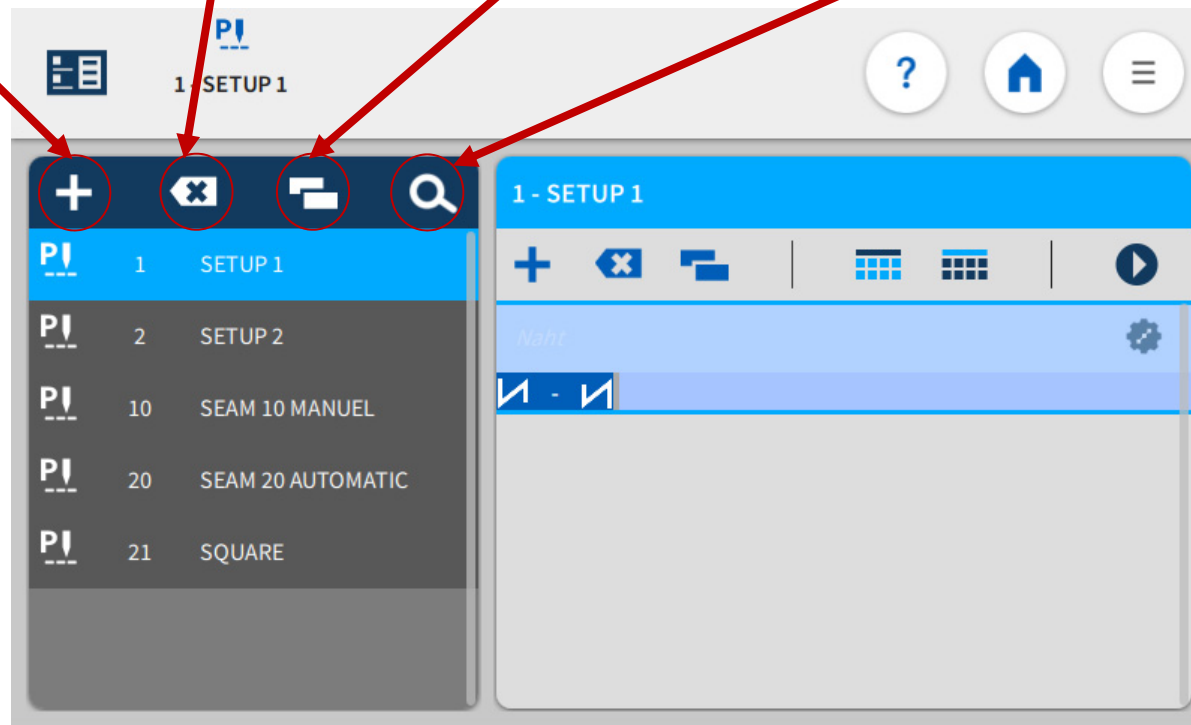
Create a new program

Delete highlighted program

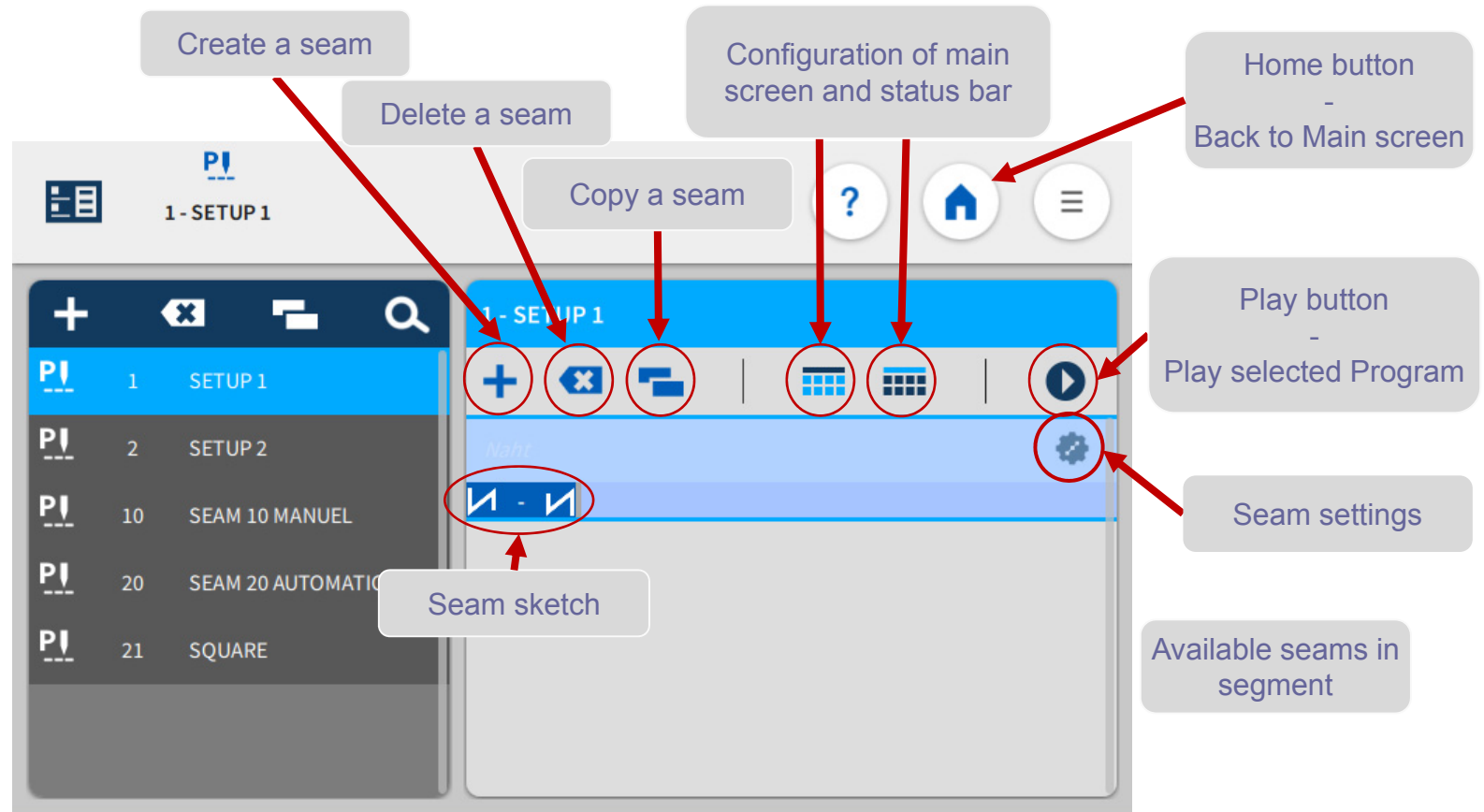
Copy highlighted program

Searching function

Available programs



# Program management



# Edit a program

The screenshot shows the M-TYPE software interface for editing a program. The top bar includes a back arrow, a '1 - SETUP 1' label, a 'SEAM 1/1' label with navigation arrows, and icons for help, home, and menu. The main area is divided into two panels. The left panel, titled 'Program parameters', shows a list of segments. The first segment is highlighted with a red box and labeled '1. Segment (Sketch)'. A callout explains that a seam segment consists of a segment begin, the segment itself, and a segment end. The right panel, titled 'SEGMENT 1/3', shows 'Seam Parameter' settings for the selected segment, including stitch length (3.5 mm), needle thread tension (15 %), foot pressure (5), and sewing foot stroke (2.5 mm). A callout points to the 'Global seam parameter' section. Another callout at the bottom states that thread cutting is only available at the end of seams.

Back to program management

Switch between Seams

1 - SETUP 1

SEAM 1/1

1. Segment (Sketch)

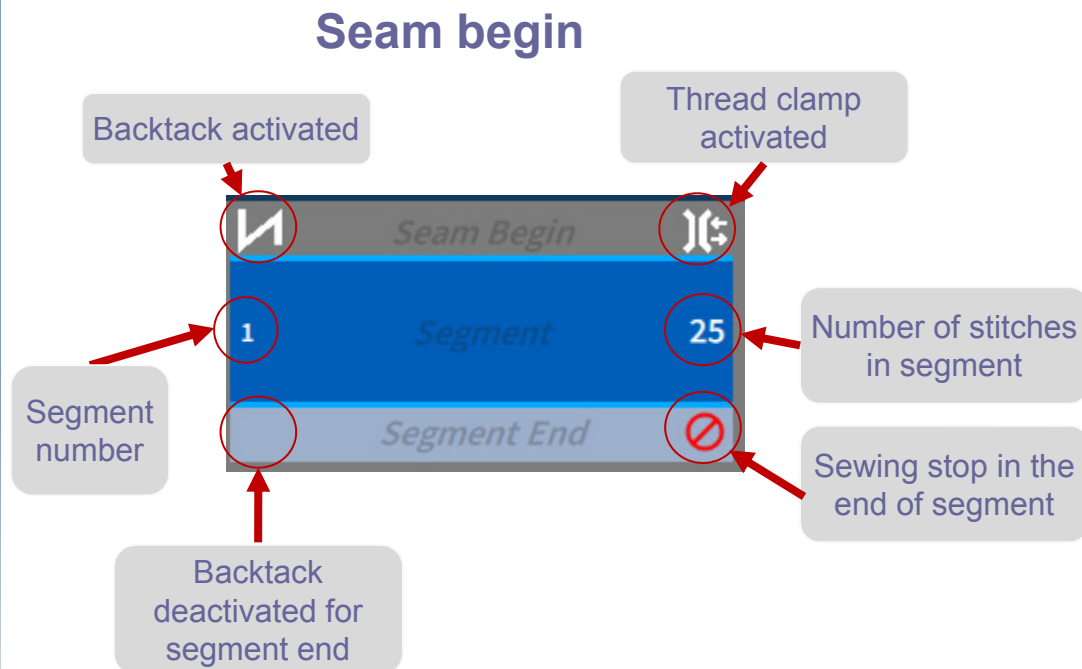
A seam segment consist of segment begin, segment and segment end

Global seam parameter

Thread cutting is only available in the end of seams

SEGMENT 1/3			
Seam Parameter			
	0 30 01	Stitch length	3.5 mm
	0 09 01	Needle thread tension	15 %
	0 33 01	Foot Pressure	5
	0 10 01	Sewing foot stroke	2.5 mm
Number of			

## Segment parameter – Seam begin

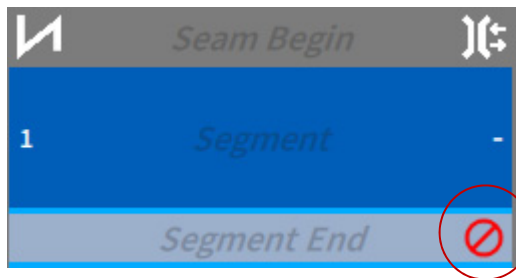


Backtack parameters are similar to manual mode



# Segment parameter – Seam end – Sewing stop

## Segment end

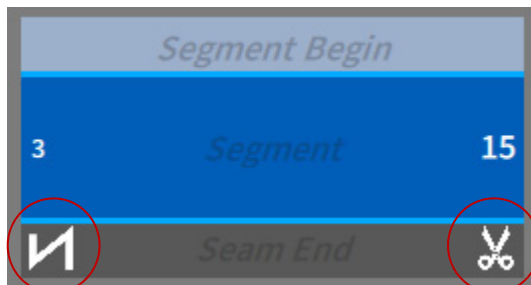


Stop at segment  
end  
+  
Function at  
segment end

### Parameter Seam End

	0 07 20	Sewing stop	<input checked="" type="checkbox"/>	^
	0 07 21	Needle up position	<input type="checkbox"/>	x
	0 03 01	Sewing foot lift at segment end	<input type="checkbox"/>	x
	0 03 11	Hight of sewing foot lift at seg...	15	mm - +

## Seam end (last segment)













Sewing Stop &  
Thread Trimming

### Parameter Seam End

	0 07 20	Sewing stop	<input checked="" type="checkbox"/>	^
	0 07 21	Needle up position	<input type="checkbox"/>	x
	0 02 00	Thread trimmer	<input checked="" type="checkbox"/>	
	0 03 01	Sewing foot lift at segment end	<input type="checkbox"/>	x

Backtack activated  
for seam end

# Segment parameter

Seam Parameter					
	O 30 01	Stitch length	3.5 mm	-	+
	O 09 01	Needle thread tension	15 %	-	+
	O 33 01	Foot Pressure	5	-	+
	O 10 01	Sewing foot stroke	2.0 mm	-	+
	O 07 11	Number of stitches...	0 Stitches	-	+
	O 08 00	Max. Speed	3000 rpm	-	+
	O 08 01	Needle position		<input checked="" type="checkbox"/>	
	O 03 00	Sewing foot lift at stop		<input checked="" type="checkbox"/>	
	O 03 10	Hight of sewing foot lift at stop	15 mm	-	+
	O 07 30	Backwards		<input checked="" type="checkbox"/>	

## Global seam parameters

- Additional values(+):
  - Stitch length(+)
  - Needle Thread tension(+)
  - Sewing foot stroke(+)
- Program Cycle
  - Next program
  - Program cycle
- Main Parameters
  - Needle thread clamp
  - Bobbin monitor mode
  - Counter mode (Daily piece counter)
  - Point position
  - Correction speed effect
  - Correction material thickness


# Automatic mode: Main Screen

The screenshot shows the main screen of the sewing machine in automatic mode. The interface includes a top status bar with mode indicators (M, A, P), a central display showing '10 - SEAM 10 MANUEL', and several control buttons. Red arrows point to specific features with explanatory text boxes:








- Switch to previous or next section:** Points to the left and right arrow buttons in the top left.
- Sketch of sewing progress:** Points to the blue bar graph in the top center.
- Pop over tiles: Parameters could be changed:** Points to two small tiles in the middle left showing '0' and adjustment icons.
- Threading mode:** Points to the icon of a hand threading a needle on the bottom left.
- Bobbin wind mode:** Points to the icon of a bobbin being wound on the bottom right.
- Information tiles:** A detailed callout for the '2.0' tile, showing a 'Preset value' of 2.5 and a 'Current value' of 4.5, with an example of 'Speed Correction / Material Thickness'.

The bottom row of buttons includes numerical values (3.5, 15, 2.0, 5, 3000) and icons for various sewing functions.

## Exercise: Edit Mode – Modify program P10

1. Select the program **P 10 – SEAM 10 Manuel** and press 
2. Select segment 1.
3. Modify the following parameter settings:
  - **Segment 1:**
    - stitch length 6 mm
    - sewing foot stroke 2.5 mm
    - thread tension 30
    - stitch count : mode 1 (count stitches), number of stitches 10
    - Segment End Mode : Stop active On, Thread trim inactive Off, Needle Up inactive Off, Foot lifted inactive Off
    - start backtack: inactive Off
    - end backtack: inactive Off
    - Foot lifted: when sewing stops on the seam: inactive Off
  - **Segment 2:**
    - stitch length 3 mm
    - sewing foot stroke 5 mm
    - stitch count: mode 0 (not counted)
    - Segment End Mode: Stop active On, Thread trim active On, Needle Up active On, Foot lifted active On
    - start backtack: inactive Off
    - end backtack: active On
  - **Global parameters of program:**
    - name of the program: TEST TRAINING
    - FabricThickness: active On
      - Sewing foot stroke: Mode 2.Value On/Off, Min. Material thickness: 3 mm
      - stitch lengths: Mode linear, Stitch Length 6mm, Min. Material thickness: 2 mm, Max.Material thickness: 5 mm

## Programming Mode: Create a program

- Open the navigation  and press „Programming“
- Press  in the left box
- Edit the name of the program via double tap on the name
- Press  (in the right box) to edit the first seam in the program.
- Set the parameters for the seam segment (Field „Segment“)
- Adjust the global parameters of the program (Field „Program parameters“ (vertical bar))
- Add a new seam segment via pushing 
- Delete a seam section with 
- Press  or  to save program and quit programming mode.

## Exercise: Create a Simple Program

Create a program consisting of one seam section only

- Create program **P 7 PROGRAM SIMPLE**
- Add a segment
- Set the **seam section parameters**:
  - stitch length 4 mm
  - sewing foot stroke 3 mm
  - needle thread tension 25
  - Segment End Modes:  
Stop active On, Thread trim active On, Needle Up inactive Off, Foot lifted inactive Off
  - start backtack: active On
  - end backtack: active On
  - Foot lifted: inactive Off
- Adjust the **global parameters** of the program:
  - Program Name: **P 7 PROGRAM SIMPLE**
  - Bobbin: Mode Software, counter 500 points, MotorStop active On, Reset necessary active On
  - Counter Mode: On, Up.
- Sew the program (test with material)
- Modify any parameter settings in the edit mode if necessary

## Exercise: Create a complex Program

### Create a program consisting of several seam sections

- Create the program  
**P 8 COMPLEX PROGRAM**
- **Segment 1:**
  - stitch length 3.8 mm
  - sewing foot stroke 1.5 mm
  - needle thread tension 25
  - stitch count: number of stitches 12
  - Seg.End Mode: Stop active On, Thread Trim inactive Off, Needle Up inactive Off, Foot lifted inactive Off
  - start backtack: active On
  - end backtack: inactive Off
  - Foot lifted: Off  
(foot lift at sewing stop on the seam)
- **Segment 2:**
  - stitch length 6 mm
  - sewing foot stroke 5 mm
  - stitch count: mode 0 (not counted)
  - Seg.End Mode: Stop active On, Thread Trim active On, Needle Up active On, Foot lifted On
  - start backtack: inactive Off
  - end backtack: active On
- **Global parameters of program:**
  - program name: **COMPLEX PROGRAM**
  - FabricThickness: active On
    - Stroke: Mode 2.Value On/Off, Min. Material thickness 3 mm
  - stitch lengths: Mode linear, Min. Material thickness: 2 mm, Max. Material thickness: 5 mm



## Exercise: Create a program BACKTACK

### Creation of a program with backward sewing

- Create the program  
**P 9 BACKTACK**
- **Segment 1:**
  - stitch length 4 mm
  - sewing foot stroke 4 mm
  - sewing foot pressure 3
  - thread tension 25%
  - maximum speed: 200
  - Foot lifted: inactive Off
  - Seg.End Mode: Stop On, Thread Trim Off, Needle Up Off, Foot lifted Off
  - number of stitches **backward**: 2 pt
- **Segment 2:**
  - Stitch count.: number of stitches 4 pt
- **Segment 3:**
  - number of stitches **backwards**: 2 pt

## Exercise: Programme « Cross »

stitch length: 3,5 mm  
sewing foot stroke 3 mm  
sewing foot pressure 3  
thread tension 20%  
maximum speed: 200

Segment 1: 2 forward stitches

Segment 2: 4 backward stitches

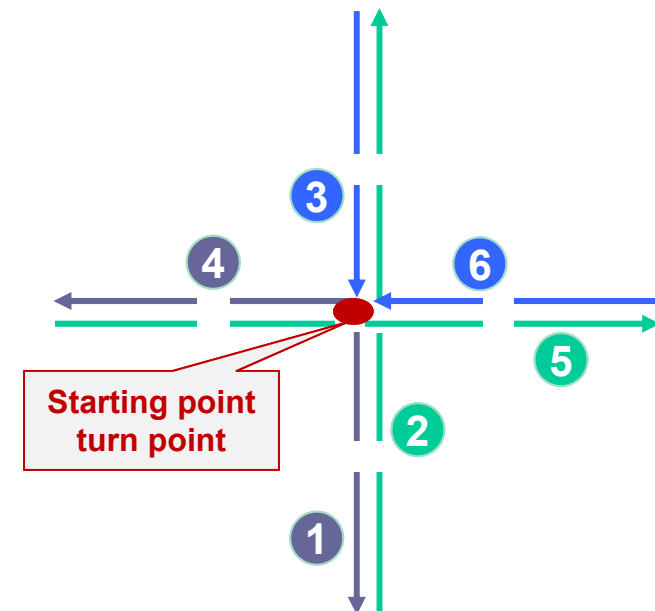
Segment 3: 2 forward stitches, **Foot lifted active On**

--> turn the material 90°

Segment 4: 2 forward stitches,  
**Foot lifted inactive Off**

Segment 5: 4 backward stitches

Segment 6: 2 forward stitches





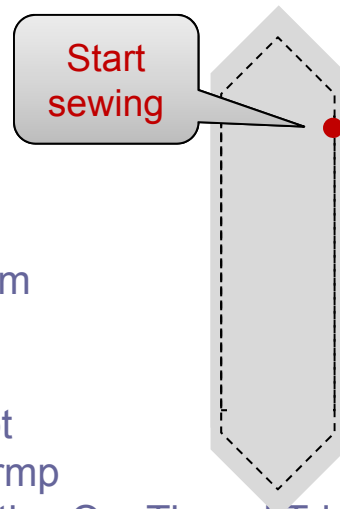
## Practice various programs

- Basic parameters
  - stitch length: 3,4 mm
  - thread tension: 20
  - sewing foot pressure: 2
  - sewing foot stroke: 10
- Programs for chapes (bag handles, etc.)
- Backtacks




# Exercise: Create a complex program

## Create a program consisting of divers seam sections

- Create the program  
**P 30 SEWING TEST**
- **Section 1:**
  - stitch length 4 mm
  - sewing foot stroke 4 mm
  - sewing foot pressure 3
  - thread tension 25
  - number of stitches: 0 pt
  - maximum speed: 200 rpm
  - Segment End: Stop active On, Thread Trim inactive Off, Needle Up inactive Off, Foot lifted active On, H. Foot lifted 13 mm
  - start backtack: inactive Off
  - end backtack: inactive Off
  - Foot lifted (at stop in the seam): inactive Off
  - Guide: Gap 3 mm
- **Section 2:**
- stitch count: number of stitches 7
- **Section 3:**
  - stitch count: number of stitches 7
- **Section 4:**
  - stitch count: number of stitches 0
- **Section 5:**
  - stitch count: number of stitches 7
- **Section 6:**
  - stitch count: number of stitches 7
- **Section 7:**
  - stitch count: number of stitches 2
  - Segment End: Thread Trim inactive Off, Needle Up inactive Off, Foot lifted inactive Off



## Programming Mode: Copy / Delete a program

1. Select the program you want to copy
2. Press 
3. Press  to adjust a seam in the program and adjust the parameters of the selected section
4. To **delete a program** press button  in the program management

## Conclusion Day 2

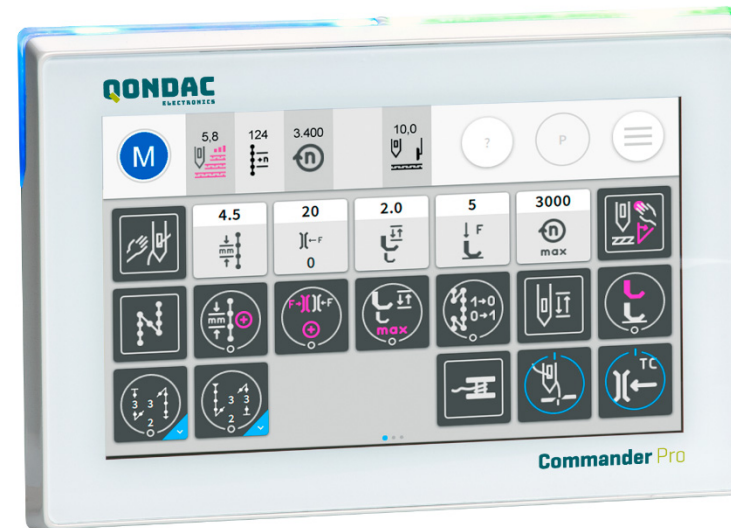
- Edit Mode: Modify / Edit programs
- Global program parameters
  - Parameters of seam section
- Programming Mode
  - Create programs
  - Adjust basic parameters, parameters for the seam sections and global program parameters
- Copy / Delete a program

## BEST PRACTICE

- Useful sequence for creation of programs  
(Adding a new section in the program copies the values of the previous section)
- Pre-set of default values for programs in technical mode  
(values used for first section)
- Copy a program and modify settings

**QUESTIONS?**





**THANK YOU  
FOR YOUR ATTENTION**



**DÜRKOPP ADLER AG**

Potsdamer Str. 190

33719 Bielefeld

Allemagne

Tél. : +49 (0) 521 925 00

E-Mail: [service@duerkopp-adler.com](mailto:service@duerkopp-adler.com)

[www.duerkopp-adler.com](http://www.duerkopp-adler.com)