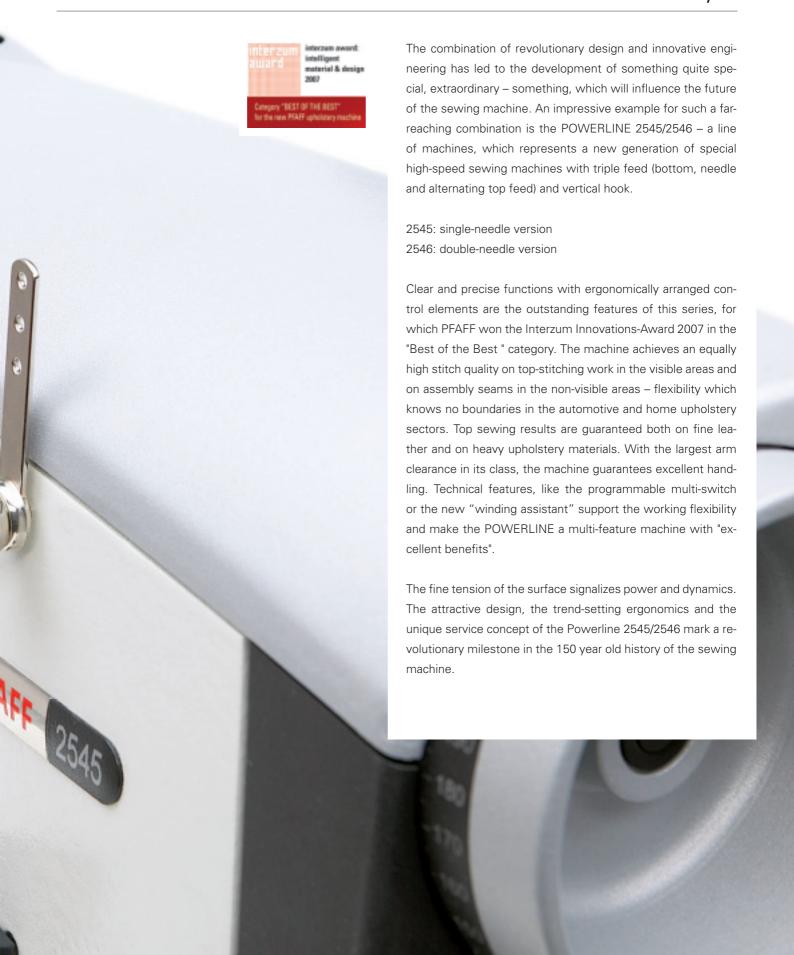
# PFAFF® Industrial





### Revolutionary...



## Overview of the 2545/2546

The POWERLINE 2545/2546 is available in the following		
versions with varying equipment:		
	$\frac{C}{C}$	S
	BASIC	PLUS
	ш	ш.
Vertical hook, large (for threads up to size 10/3 syn.)	•	•
Vertical hook, XXL extra large (for threads up to size 10/3 syn.)	0	0
Thread trimmer, < 13 mm thread ends (-900/81)		•
Thread trimmer, < 5 mm thread ends (-900/82)> on request		0
Thread nipper, controlled (-909/12)		0
Presser foot lift, manual by knee lever	•	
Presser foot lift, electro-pneumatic (-910/04)		•
Manual backtacking with hand lever (-911/35)	•	•
Automatic backtacking, electro-pneumatic		•
1 pre-selectable stitch length	•	
2 pre-selectable stitch lengths, alternately switchable		•
2 pre-selectable thread tensions (per needle), one can be switched on manually	•	
2 pre-selectable thread tensions (per needle), one can be switched on electro-pneumatically by knuckle switch		•
Top feed stroke is manually adjustable up to 9 mm	•	
2 top feed strokes are manually adjustable, alternately switchable		•
Unison feed with height adjustment of the bottom feeder	•	•
Unison feed with engageable lifting motion of the bottom feeder	0	0
Oil-level indicator	•	•
Oil-level indicator on the display, with warning light on sewing head		•
Sewing feet pressure, manually adjustable	•	•
Clutch motor	•	
DC motor	0	
DC motor P74 ED *		•
Control panel BDF-PicoTop		•
Bobbin thread monitor with stitch counter and LED display		•
Integrated panel with multi-function buttons & programmable multi-switch		•
Built in LED sewing light in the machine head, dimmable	0	•
Bobbin thread winder	•	•
Attachment slide, holder	•	•
Skip stitch detection (SSD)		0
Bobbin thread monitoring with thread detection		0
Monitoring of slide plate / Safety device for the start		0
Overload saftey clutch	•	•

Necessary for thread trimmer, backtacking, thread nipper, presser foot lift,
 2 switchable stitch lengths,
 2 switchable top feed strokes

standard

option

### Versions of the 2545\*

#### 2545-021/100 BASIC

Special single-needle high-speed seamer with unison feed (lockstitch)

- Large vertical hook for threads up to 10/3\*\*
- Top feed stroke up to 9 mm, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,800 stitches/min.
- Overload saftey clutch

### 2545-041/100 BASIC

Special single-needle high-speed seamer with unison feed (lockstitch)

- Extra large vertical hook with 70% more thread capacity, for threads up to 10/3\*\*
- Top feed stroke up to 9 mm, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,400 stitches/min.
- Overload saftey clutch

### 2545-521/001 PLUS

Special single-needle high-speed seamer with unison feed (lockstitch)

- Large vertical hook for threads up to 10/3\*\*
- Thread trimmer, automatic presser foot lift, automatic backtacking device electro-pneumatically controlled
- Quick-change stepping control of top feed, second thread tension, quick adjustment of second stitch length (electro-pneumatically controlled)
- Adjustable top feed stroke up to 9 mm with automatic speed setting, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,800 stitches/min.
- Built in LED sewing light in the machine head
- DC motor P74 ED
- Overload saftey clutch

- \* further on request
- \*\* depending on parts set

### Versions of the 2545\*

#### 2545-521/002 PLUS

Special single-needle high-speed seamer with unison feed (lockstitch)

- Large vertical hook for threads up to 15/3\*\*
- Thread trimmer for short thread ends, automatic presser foot lift, automatic backtacking device electro-pneumatically controlled
- Quick-change stepping control of top feed, second thread tension, quick adjustment of second stitch length (electro-pneumatically controlled)
- Thread nipper, controlled
- Adjustable top feed stroke up to 9 mm with automatic speed setting, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,800 stitches/min.
- Built in LED sewing light in the machine head
- DC motor P74 ED
- Overload saftey clutch

### 2545-541/001 PLUS

Special single-needle high-speed seamer with unison feed (lockstitch)

- Extra large vertical hook with 70% more thread capacity, for threads up to 10/3\*\*
- Thread trimmer, automatic presser foot lift, automatic backtacking device electro-pneumatically controlled
- Quick-change stepping control of top feed, second thread tension, quick adjustment of second stitch length (electro-pneumatically controlled)
- Top feed stroke up to 9 mm, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,400 stitches/min.
- Built in LED sewing light in the machine head
- DC motor P74 ED
- Overload saftey clutch

### Versions of the 2546\*

#### 2546-021/100 BASIC

Special double-needle high-speed seamer with unison feed (lockstitch)

- Large vertical hook for threads up to 10/3\*\*
- Top feed stroke up to 9 mm, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,800 stitches/min.
- Overload saftey clutch

#### 2546-041/100 BASIC

Special double-needle high-speed seamer with unison feed (lockstitch)

- Extra large vertical hook with 70% more thread capacity, for threads up to 10/3\*\*
- Top feed stroke up to 9 mm, presser foot lift up to 20 mm, stitch length up to 12.0 mm
- Max. sewing speed 3,400 stitches/min.
- Overload saftey clutch

### 2546-521/001 PLUS

Special double-needle high-speed seamer with unison feed (lockstitch)

- Large vertical hook for threads up to 10/3\*\*
- Thread trimmer, automatic presser foot lift, automatic backtacking device electro-pneumatically controlled
- Quick-change stepping control of top feed, second thread tension, quick adjustment of second stitch length (electro-pneumatically controlled)
- Adjustable top feed stroke up to 9 mm with automatic speed setting, Nähfußlüftung bis 20 mm, Stichlänge bis 12,0 mm
- Max. sewing speed 3,800 stitches/min.
- Built in LED sewing light in the machine head
- DC motor P74 ED
- Overload saftey clutch

#### 2546-541/001 PLUS

Special double-needle high-speed seamer with unison feed (lockstitch))

- Extra large vertical hook with 70% more thread capacity, for threads up to 10/3\*\*
- Thread trimmer, automatic presser foot lift, automatic backtacking device electro-pneumatically controlled
- Quick-change stepping control of top feed, second thread tension, quick adjustment of second stitch length (electro-pneumatically controlled)
- Adjustable top feed stroke up to 9 mm with automatic speed setting, N\u00e4hfu\u00dfl\u00fcftung bis 20 mm, Stichl\u00e4nge bis 12,0 mm
- Max. sewing speed 3,400 stitches/min.
- Built in LED sewing light in the machine head
- DC motor P74 ED
- Overload saftey clutch

<sup>\*</sup> further on request

<sup>\*\*</sup> depending on parts set

### **Applications**



Top-stitching applications in the automotive industry

### Application:

Top-stitiching (double-needle) on voluminous car seat covers

### Parts sets / attachments:

parts kit 63/24 C N9 (needle distance: 8 mm)



Decorative ornamental stitching in the automotive industry

### Application:

Ornamental stitching on centre section of back rests

### Parts sets / attachments:

parts kit 6/14 C N9



Lap-felling seams in the automotive industry

### Application:

One-sided top-stitching of the assembly seam for seat section and attached headrest on front car seat

### Parts sets / attachments:

parts kit 6/14 C N9

+ edge guide (91-156-765-91)



Closing seams/assembly seams during pre-assembly work in the automotive industry

#### Application:

Attaching the side sections to the centre seat sections during pre-assembly of highquality car seats

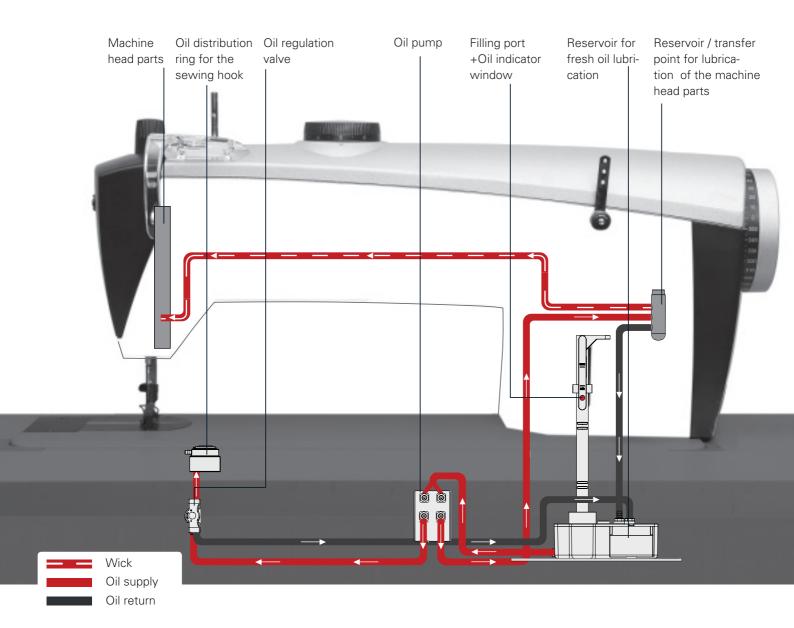
### Parts sets / attachments:

parts kit 6/14 C N9

+ edge guide (91-156-763-91)

## Innovative lubrication system

New lubrication system for accurate adjustment of the fresh oil supply to the hook. Prevents oil leakage (soiling of workpiece).



### Features







### **Bobbin winder**

Equipped with an aid for a secure and fast start of the bobbin winding process and within easy reach of the operator ("winding assistant")



### Top feed stroke adjustment

Guarantees quick and accurate adjustment of the first and second top feed stroke. Adjustments are made in small increments.

- outer dial: up to 5 mm stroke

- inner dial: up to 9 mm stroke

### **POWERLine** 2545/46



### Thread nipper

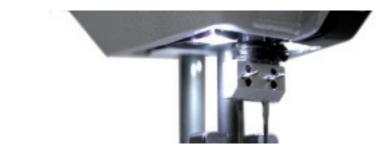
Ensures a neat seam start (no thread tail on top of the work piece)





### **LED** light

Integrated in the sewing head



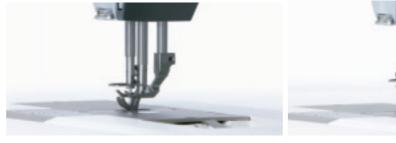


### Increased top feed stroke

Up to 9 mm

### Clearance under the sewing

foot Up to 20 mm





### **Hook saddle / Thread trimmer**

Reliable and exellent cutting performance:

Threads up to 10/3 (metric) can be cut without any problems





### Large clearance

Under the machine arm of 345 x 120 mm.





### Scale disk

An adjustment aid for the mechanic:

- Needle bar rise
- Needle height
- Take-up lever



### Features: control panels

From left to right:	From	left	to	right:
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Reverse sewing/intermediate backtacks

Needle position change (w/o trimming)

Recall preset top feed lift and adding second thread tension (programmable)

Backtack on/off

Recall preset stitch length

Second thread tension switched on / Switch for threading position (all pedal functions are blocked)

### Safety switch:

Brings the machine in threading position and blocks all pedal functions. This prevents the operator from accidentally starting the machine and adds an additional safety feature.

### From top to bottom:

Oil level warning

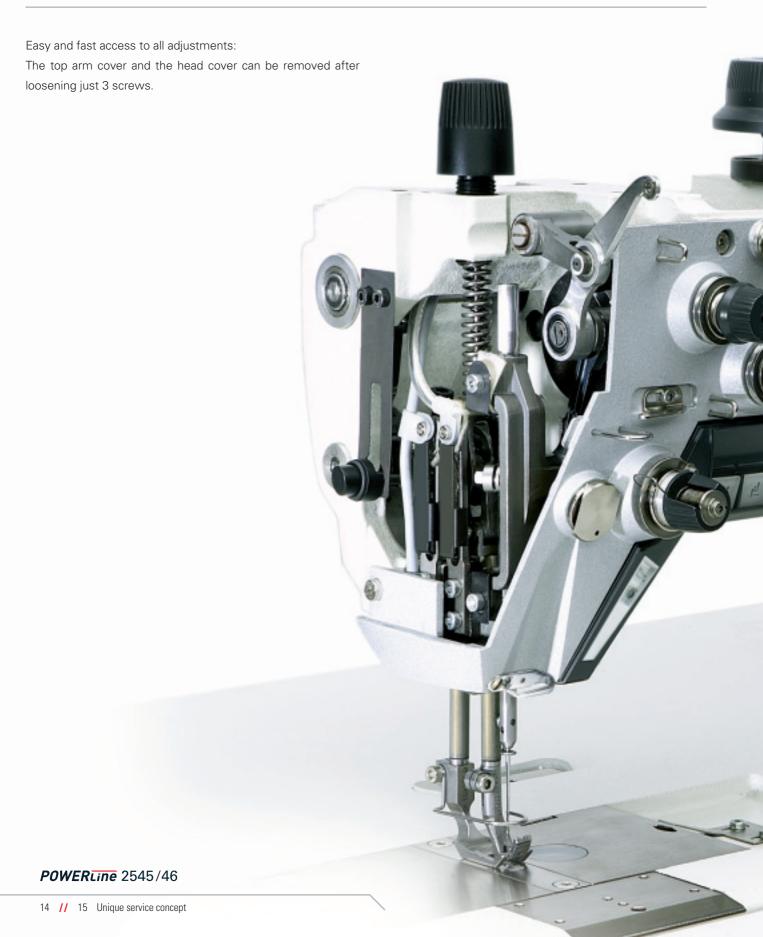
Bobbin thread control indicator

Programmable multi-switch

Functions, which are needed for the current sewing application, can be transferred to the soft switch (multi function switch) on the sewing head



# Unique service concept





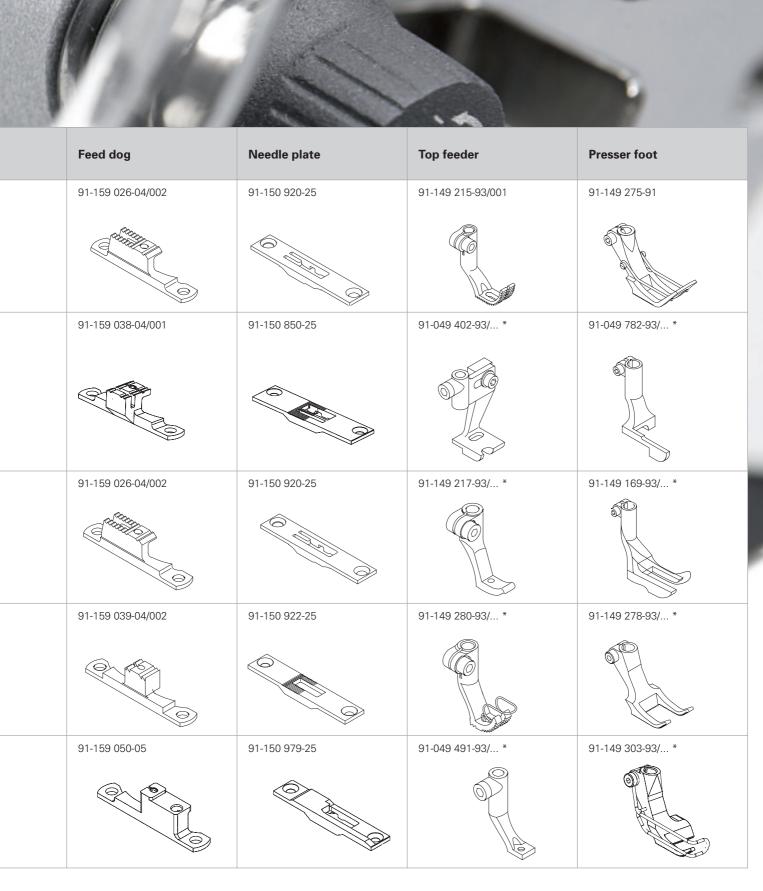
# Parts kits 2545

Parts kit	Seam construction	Operation			
-6/14 N (N = 6 mm) C medium weight material D heavy weight material		Standard parts kit for all types of sewing work, e.g.:  • Closing seams  • Edge sewing work on fitted covers  • Fancy seams			
-6/14 N9 (N9 = 9 mm) C medium weight material D heavy weight material		Standard parts kit for all types of sewing work, e.g.:  • Closing seams  • Edge sewing work on fitted covers  • Fancy seams			
-6/14 N12 (N12 = 12 mm) C medium weight material D heavy weight material		Standard parts kit for all types of sewing work, e.g.:  Closing seams  Edge sewing work on fitted covers  Fancy seams			
-2/04 N (N = 6 mm) C medium weight material Top-stitch width: 1.5 (standard), 2, 3, 4 mm		Work on right edge e.g.  • Attaching fastening sections  • Sewing zip on one side			
-3/04 N (N = 6 mm) C medium weight material Top-stitch width: 1.5 (standard), 2, 3, 4 mm		Work on left edge e.g.  • Attaching fastening sections  • Sewing zip on one side			
-6/07 N (N = 6 mm) C medium weight material		Closing seams, topstitching work on edges with cross seams (Climbing parts set)			
-6/07 N9 (N9 = 9 mm) C medium weight material		Closing seams, topstitching work on edges with cross seams (Climbing parts set)			



# Parts kits 2545

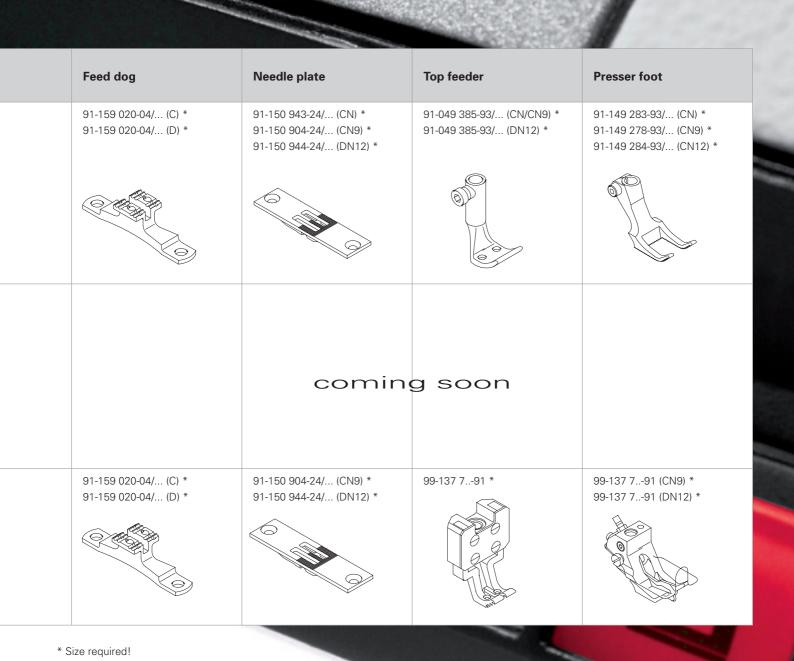
Parts kit	Seam construction	Operation
-6/13 N9 (N9 = 9 mm) C medium weight material		Closing seams on quilted covers
-40/12 N9 (N9 = 9 mm)  C medium weight material for piping sizes from 3 - 10 mm (standard: 7 mm)		Piping work: side adjustment of feed dog for pre-piping and piping work
-40/14 N9 (N9 = 9 mm) C medium weight material for piping sizes from 5 - 11 mm (standard: 5 + 7 mm)		Piping work: pre-piping and piping work
-113/05 N9 (N9 = 9 mm) C medium weight material Top-stitch width: 3.5 (standard) + 4 + 4.5 mm (in connection with edge guide: 91-156-765-91)	<del></del>	Top-stitching and closing Seam on one side
-17/01 N9 (N9 = 9 mm) C medium weight material		Binding work



<sup>\*</sup> Size required!

# Parts kits 2546

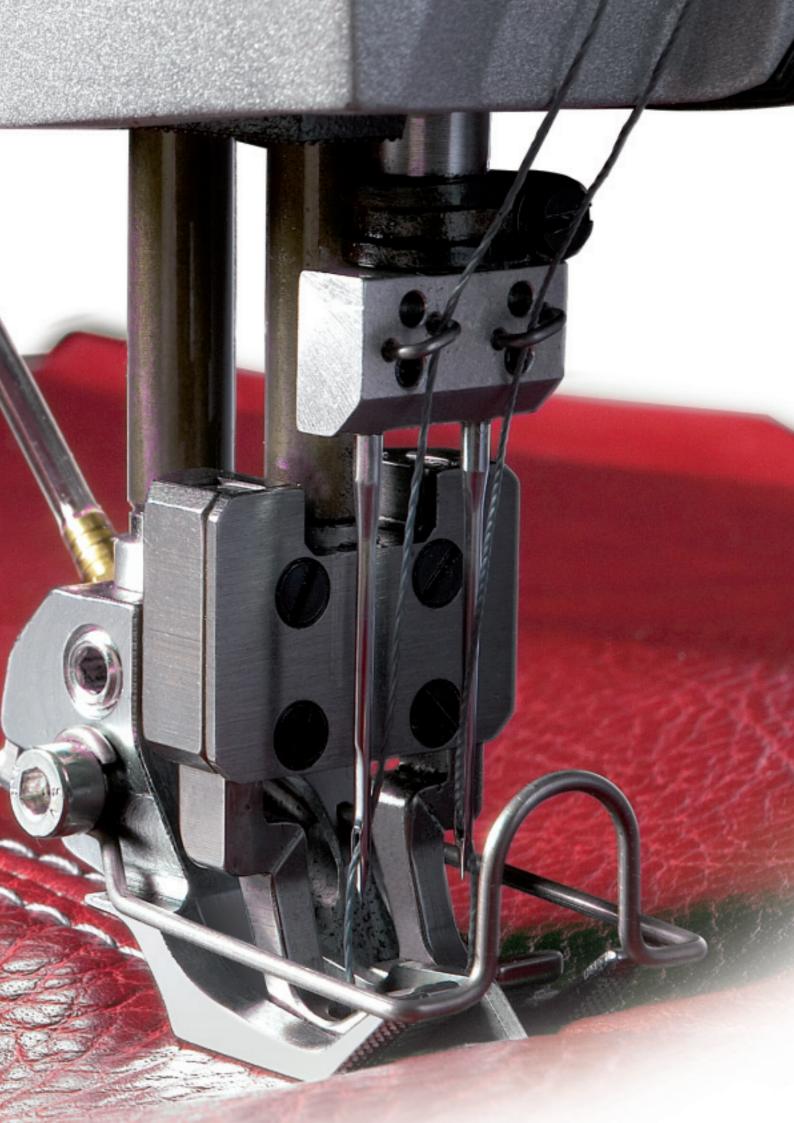
Parts kit	Needle gauges ( _ = standard )	Seam construction	Operation
-6/01 N (N = 6 mm) C medium weight material	4;4,8; <b>6</b> ;6,4;		
-6/01 N9 (N9 = 9 mm) C medium weight material	8; 10; 12; 16 mm 6; 6,4; 8; 10; 12; 16 mm		Standard parts kit for all types of sewing work , e.g.:  Top-stitching work Fancy seams
-6/01 N12 (N12 = 12 mm) D heavy weight material			
-6/03 N (N = 6 mm) C medium weight material	<u>6</u> ; <u>8</u> ; 10 mm		
-6/03 N9 (N9 = 9 mm) C medium weight material	<u>6</u> ; <u>8</u> ; 10; 12 mm	44	Parts kit with compensating presser foot for top-stiching work (on both sides)
-6/03 N12 (N12 = 12 mm) D heavy weight material	<u>8</u> ; <u>10</u> ; 12 mm		
-63/24 N9 (N9 = 9 mm) C medium weight material	<u>6</u> ; <u>8</u> ; 10; 12; 16 mm		Parts kit with compensating
-63/24 N12 (N12 = 12 mm) D heavy weight material	<b>8</b> ; <b>10</b> ; 12, 16 mm	<del></del>	presser foot und seam-center guide for top-stiching work. (with or without tape from below)



# Edge guides 2545/2546

Educacido	Doute No.	Suitable for parts kit			
Edge guide	Parts No.	2545	2546		
25 mg	91-156 763-91	-2/04 -6/07 -6/13 -6/14 -40/14	-6/01		
as mm	91-156 764-91	-3/04 -6/07 -6/13 -6/14	-6/01		
38 mm	91-156 765-91	-6/07 ** -6/13 ** -6/14 ** -113/05	-6/01		
	91-156 767-91	-2/04 -6/07 -6/13 -6/14	-6/01		
	91-156 768-91	-2/04 -6/07 -6/13 -6/14 -40/14	-6/01		

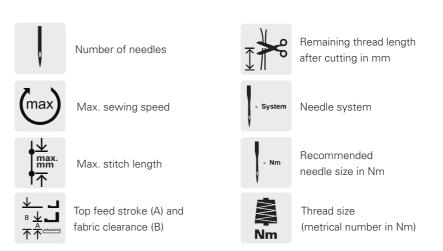
<sup>\*\*</sup> feet have to be adapted



## Technical data + Specifications 2545

Types	(max) <sub>*</sub>		$ \begin{array}{c c} \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		₹	- System	- Nm	Nm
<b>2545 BASIC</b> 2545 - 021/100	•	3,800	12	A: 9 mm B: 20 mm		134-35	90 - 180	80/3 - 10/3
<b>2545 BASIC</b> 2545 - 041/100	•	3,400	12	A: 9 mm B: 20 mm		134-35	90 - 180	80/3 - 10/3
<b>2545 PLUS</b> 2545 - 521/001	•	3,800	12	A: 9 mm B: 20 mm	<= 13	134-35	90 - 180	80/3 - 10/3
<b>2545 PLUS</b> 2545 - 521/002	•	3,800	12	A: 9 mm B: 20 mm	<= 5	134-35	90 - 160	80/3 - 15/3
<b>2545 PLUS</b> 2545 - 541/001	•	3,400	12	A: 9 mm B: 20 mm	<= 13	134-35	90 - 180	80/3 - 10/3

<sup>\* =</sup> the max. sewing speed depends on pre-selected stroke and stitch length



For 0	••••	<b>P</b>		224 222		<u></u>	V			1
C:345 x D:120	•		•						•	
C:345 x D:120		•	•						•	
C:345 x D:120	•		•	•	0	•	•	•		•
C:345 x D:120	•		•	•	•	•	•	•		•
C:345 x D:120		•	•	•	0	•	•	•		•

standard

option



Arm clearance in mm



Vertical hook, large



Vertical hook, extra large



Bottom feed, needle and alternating unison feed



Thread trimmer



Thread nipper



Presser foot lift



Automatic backtacking



Control for two different stitch lengths



Top feed lift adjustable by knob

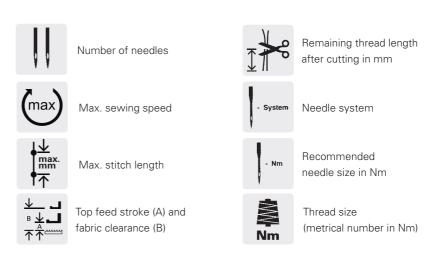


Top feed lift pre-selectable and recallable by knuckle switch, with automatic speed limitation

## Technical data + Specifications 2546

Types	Į Į	(max)	₩ max. mm	<u>₩</u>	₹	- System	- Nm	Nm Nm
<b>2546 BASIC</b> 2546 - 021/100	•	3,800	12	A: 9 mm B: 20 mm		134-35	90 - 180	80/3 - 10/3
<b>2546 BASIC</b> 2546 - 041/100	•	3,400	12	A: 9 mm B: 20 mm		134-35	90 -180	80/3 - 10/3
<b>2546 PLUS</b> 2546 - 521/001	•	3,800	12	A: 9 mm B: 20 mm	(= 13	134-35	90 - 180	80/3 - 10/3
<b>2546 PLUS</b> 2546 - 541/001	•	3,400	12	A: 9 mm B: 20 mm	(= 13	134-35	90 - 180	80/3 - 10/3

<sup>\* =</sup> the max. sewing speed depends on pre-selected stroke and stitch length



Fe C P D		<b>P</b>	<b>=</b>	- <b> </b>			<u>J</u>	W			
C:345 x D:120	4.0 - 50.0	•		•						•	
C:345 x D:120	4.0 - 50.0		•	•						•	
C:345 x D:120	4.0 - 50.0	•		•	•	0	•	•	•		•
C:345 x D:120	4.0 - 50.0		•	•	•	0	•	•	•		•

- standard
- option



Arm clearance in mm



Needle gauge in mm



Vertical hook, large



Vertical hook, extra large



Bottom feed, needle- and alternating unison feed



Thread trimmer



Thread nipper



Presser foot lift



Automatic backtacking



Control for two different stitch lengths



Top feed lift adjustable by knob



Top feed lift pre-selectable and recallable by knuckle switch, with automatic speed limitation



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