# **Instructions Manual**

## MORSØ Mitring machine Model F





MASKINFABRIK HARALDSVEJ 21 DK-8900 RANDERS TLF. + 45 86 43 51 55 FAX. + 45 86 43 51 00		Instructions mar MORSØ Mitring Model F		hin
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picture B-1-1



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## FUNCTIONAL DESCRIPTION B-1

#### General Description

MORSØ-F mitring machine is an important help to make mitres in wooden mouldings for all purposes.

MORSØ-F is a manual foot-operated machine. The operation in easy.

MORSØ-F mitring machine is provided with sliding longitudinal stop, measuring scale, adjustable fences  $(45^{\circ}-90^{\circ})$  on both sides of the knives, adjustable rebate supports.

MORSØ-F cuts\_double mitre at 45° and single mitre up to 90<sup>0</sup>.

With the MORSØ-F you achieve a quite smooth, clean, and exact cut when you cut the work piece in two cuts.

This is done manually on the MORSØ-F.

The conveying (forward movement) of the knive block is made so that the last cut is a so-called trim-cut.

A special lever system makes the operation of the machine very easy. Twin return springs bring the knife block back to starting position.

The height movement of the knife block (length of stroke) is contineously adjustable.

The pieces of moulding can be joined without any finishing. (Picture B-1-1).



Beware of the extreme sharp knives

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FUNCTIONAL DESCRIPTION B-3

# FONCTIONAL DESCRIPTION 8-2



picture B-3-1

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ng is placed on the table (8) fences (9) + (10) adjusted in the

DESCRIPTION OF THE LEVER SYSTEM

The cutting movement is carried out manually.

The length of stroke of the knives is adjusted to max. 165 mm (can be changed to max. 200 mm, see chapter F-6).

The cutting takes place by means of a foot operated lever system.

The pedal (1) is pressed down.

The foot pedal tipper (2) pulls the draw bow (3), draw bar (4), and the knife block (5) down.

By relieving the foot pressure from the foot pedal the knife block returns to top position by means of the two springs (6).

The height stop (7) is slidable.

The robate supports (11) are adjusted to the height of the rebate.

The largth of the finished moulding is adjusted by means of the stup block (12). The necessirements are read from the scales (13) on the table extension (14).



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MORSØ F -9503 B-4/gb1

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		TECHNICAL	DATES	C-
	Machine Din (max.): Length (a) Width (b) Height (c) Weight	nensions : :	2200 mm 510 mm 1150 mm 98 kg	
(2) are adjusted for the second of the second	Placing Meas Spaciousness min. Noise/Polluti	to Wall :	1000 mm	
ing. Is pressed home, then relieve	Noise Level Pollution		noiseless none/dustfree	
<ul> <li>back of the the position</li> <li>back of the position</li> <li>(4) is now moved a suitable</li> <li>(4) is now moved a suitable</li> <li>(4) is now moved a suitable</li> <li>(5) is now moved a suitable</li> <li>(6) is now moved a suitable</li> <li>(7) is now moved a suitable</li> <li>(8) is not the backness of</li> <li>(9) is not the backness of</li> <li>(10) the tractices of</li> <li>(11) the moduling is cut</li> <li>(12) the the backness cut</li> <li>(13) and you make</li> <li>(14) the tractice is cut</li> <li>(15) the tractice is cut</li> <li>(16) the last tooth</li> <li>(17) travel to appared to achieve a suitable</li> <li>(18) travel to appared to achieve a spod</li> </ul>	teo(K Ryan what a	right) ioulding m to max. : th (max.) *: ght (max.)*: ing (max) :	45 <sup>0</sup> 90 <sup>0</sup> 1500 mm 100 mm 160 mm 65/65 mm 1500 mm	
Beware of the extreme sharp knives			ris to anewait	





#### Instructions manual MORSØ Mitring machine Model F

## MOUNTING INSTRUCTIONS D-1

#### IN GENERAL

The machine is delivered ready for start and complete with standard equipment.

Only the table extension (1) and divided beam (5) are dismounted during transport.

#### NOTE before starting up first time:

- 1. Remove the locking pin in the machine
- table (marked with a yellow/black wing).
- 2. The knife block is moved halfway
- backwards, and the slide is fitted.

Placing according to the spaciousness to wall stated in C-1.

The machine can be fastened to the floor with screws in the two holes in the bottom frame of the machine.

Check before each start that all protection devices are fitted correctly.

#### MOUNTING OF THE TABLE EXTENSION AND DIVIDED BEAM

Before mounting the table extension (1) the ends of the table extension and the table (2) must be cleaned very thoroughly.

Special attention must be paid to the pin and screw holes as the smallest amount of dirt will prevent the correct alignment.

After the cleaning the table extension is pressed against the table so that the pins (4) placed in the table extension are inserted in the pin holes in the table.

Then the included screw (3) is inserted in the screw hole and fastened with a standard screw driver (nv= 19 mm).

The divided beam (5) is fitted on the table extension (pins (6) are fitted in the table extension). It is fastened with cylinder screw

(Extra extension table and supporting leg can be delivered as accessories).



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#### OPERATING INSTRUCTIONS E-3



picture E-3-1



picture E-3-2



#### DEGREE ADJUSTMENT OF FENCES

The fences (1) + (2) are adjusted as required (from the factory they are adjusted to  $45^{\circ}$  for double mitre).

If, for instance, you want to make a 6-sided (hexagonal) frame the following procedure is used:

6 pieces of moulding are cut in the normal way at  $45^{\circ}$  so that the inside measure of each piece of moulding is equal to the finished inside measure of the frame plus approx. the width of the rebate.

Hand levers (3) and (4) are loosened and the fences are turned according to the scales (5) and (6) to  $60^{\circ}$ .

The degree adjustment is read by means of the mark (7).

After the adjustment the hand levers (3) and (4) are fastened again, and all moulding ends a cut separately at  $60^{\circ}$  - single mitre.

#### EXACT ADJUSTMENT OF THE FENCES:

When the fences have been adjusted to other degrees than  $45^{\circ}$  the correct re-adjustment to  $45^{\circ}$  is made as follows:

Put a straight steel ruler (8) against the measuring scale (9) so that it also reaches along the right fence (2). Now you adjust the right fence (2) according to the steel ruler, and the right fence (2) will be exactly adjusted at  $45^{\circ}$ .

Put the steel ruler (8) against the right fence (2) (that is now exactly adjusted at  $45^{\circ}$ ), and proceed as mentioned above with the adjustment of the left fence (1).



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OPERATING INSTRUCTIONS

E-6

(2)6) 3) 1 4) (5)

#### picture E-6-1

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MORSØ F -9503 E-6/gb1

#### ADJUSTMENT OF HEIGHT STOP

The height stop (1) is used for adjustment of the knife block (2) to a suitable height compared to the moulding to be cut.

In this way you avoid unnecessary high foot movements.

The moulding is placed on the table (the knife block must be in the rear position, as shown on the picture). The knife block (2) is moved forward to the front position by means of handle (3).

With the foot pedal (4) the knife block (2) is moved down to the height required, yet min. 20 mm above the moulding.

The height stop (1) is loosened with handle (6), which can be removed from the fence. Fasten the height stop against the foot pedal tipper (5).

The height stop is also used for locking the knife block in the bottom position when the machine is not used.

#### dan-list\* MASKINFABRIK HARALDSVEJ 21 Instructions manual **DK-8900 RANDERS** TLF. + 45 86 43 51 55 FAX. + 45 86 43 51 00 **MORSØ** Mitring machine Model F OPERATING INSTRUCTIONS (5)(4)2 WORKING PROCEDURE The knife unit (1) must be in rear position and the knife block (2) in top position.

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of Sthe

in the lever system (5), incl.

Place the moulding on the machine table (3) and push it up to the adjusted stop beam (4)(see E-4).

E-7

With mouldings with rebate the rebate supports (5) are adjusted as described under E-5.

With the handle (6) the knife unit (1) is moved to a suitable starting position on the moulding. E.g. Working with a 60 mm wide moulding the knife unit (1) is moved about 40 mm forward.

The foot pedal (7) is presed home, then the foot pressure is relieved so that the springs can take the knife block back to top position.

The handle (6) is moved a suitable distance forward in the tooth arc (8) and you make the next cut.

Proceed in this way until the moulding is cut through.

The last cut must always be a small cut (trim-cut). Even with small mouldings that could easily be cut in one cut you must make the last small cut in order to achieve a good result.

The tooth arc is constructed so that the last tooth only has half the travel compared to the other teeth.

#### AFTER WORKING PROCEDURE

Clean the machine.

Remove the waste.

Check the whole machine.

The knife block is locked in bottom position.



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(1)

(5)

(3)

picture E-7-1

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F-1

picture F-1-1

#### LUBRICATION INSTRUCTIONS

Approx. every two weeks lubricate:

Service

The guidings for

1. knife block (1)

2. slide frame (2)

- 3. cross (3) (lubricates simultaneously the forward movement of the knife block)
- 4. Links for the draw bar (4) of the knife block.
- 5. all links in the lever system (5), incl. spring suspension

Lubricant: SHELL TONNA TX 68 or a similar oil of another make.

#### CLEANING

Check the wh

MORSØ-F must be cleaned thoroughly after use.

Remove any waste wood from all the guidings.

Remove the waste wood from behind the machine.



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F-3



#### GRINDING OF KNIVES

When grinding the knives you may <u>only</u> grind on the reverse of the cutting edge. You must under <u>no</u> circumstances grind on the front or ends of the knives, because the knives will then be destroyed.

The angle of the cutting edge compared to the front of the knife must be  $30^{\circ}$ .

Hollow grinding (recommended), figure I.

Using a grinding wheel the diameter must be between 200 - 300 mm. Using a cup wheel the diameter must be 150 mm.

Surface grinding figure II

Honing figure III

By setting the cutting edge you shall use a soft fine-grained silicon carbide hand flat stone that must be kept in oil or kerosine.

By setting the cutting edge you must under <u>no</u> circumstances sharpen lengthwise of the cutting edge, always crosswise.

First sharpen on the reverse side of the knife. The flat stone is to be kept in an angle of  $31^{\circ}$  compared to the front of the knife.

Take off burrs, figure IV

After the honing the burrs on the front of the knife are taken off with a slate flat stone that must be quite straight.

The flat stone must here be completely in line with the knife, because otherwise the outer cutting edge will get an incorrect angle.

Even the slightest error here will cause that the knife presses too hard against the wood during the cutting.

Please also see page F-4 Regulation of Draw Bar.









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LOCATING FAULTS

G-1

Faults	Cause	Repair
Incorrect cuttings	Dull knives	Replace knives See page F-2
101, be used without the vices:	Knives incorrectly installed	Check the installation See page F-2
Moulding with rebate tips	Rebate supports incorrectly adjusted	Correct the adjustment See page E-5
The moulding is not firm on the table during cutting	Fences loose	Fasten fences See page E-3
Incorrect length measures	The length measure incorrectly set	Correct the length measur See page E-4
- All	Stop beam loose	Fasten stop beam
The basic position of the knife block is changed	The height stop is displaced	correct the adjustment see page E-7
The moulding is not cut guite through	The forward movement is not correct adjusted	correct the adjustment see page F-4



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Grundmaskine - Basic machine - Grundmaschine

Pos	Vare-nummer Part-No. Teile-Nummer	Betegnelse	Designation	Benennung
1	00000326-F	Stativ	Frame	Gestell
2	00000120	Bord	Table	Tisch
3	80862576	Skive	Washer	Scheibe
4	55716034	Stålbolt	Hexagon screw	Sechskantschraube
5	00000177	Styretap	Steering pivot	Steuerzapfen
6	00000170 -FV	Anslagsliste	Fence	Anschlagleiste
7	00000170 -FH	Anslagsliste	Fence	Anschlagleiste
8	80570071	Bolt	Bolt	Bolzen
9	80570071	Bolt	Bolt	Bolzen
10	40003008	Skive	Washer	Scheibe
11	80600073	Møtrik	Hexagon nut	Sechskantmutter
12	80600073	Møtrik	Hexagon nut	Sechskantmutter
13	69131262	O-ring	O-ring	O-Ring
14	00000172	Håndtag kompl.	Handl compl.	Handgriff kompl.
14-1	80590712	Håndtagshoved	Handle head	Handgriffkopf
14-2	65300076	Kugle	Ball	Kugelknopf
15	17600076	Plastikskærm	Safety guard	Unfallschutz
16	50005010	Cylinderskrue	Cylinder screw	Zylinderschraube
17	20000061	Bordforlænger	Table extension	Tischverlängerung
18	55716015	Stålbolt	Hexagon screw	Sechskantschraube
19	48005020	Kærvstift	Notched pin	Kerbstift
20	74501012	Målskinne	Divided beam	Meßschiene
21	50006010	Cylinderskrue	Cylinder screw	Zylinderschraube
22	74801010	Målskinne	Divided beam	Meßschiene
23	47004012	Spændestift	Clamping pin	Spannstift
24	60785009	Stopklods	Stop block	Endanschlag
25	60785008	Stjernehjul	Star wheel	Sterngriff
26	67785007	Fjeder	Spring	Feder
27	74001011	Stopskinne	Stop beam	Anschlagschiene
28	53005012	Sætskrue	Hexagon screw	Sechskantschraube
29	11040000	Slidske	Waste slide	Rutsche

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os	Vare-nummer Part - No. Teile-Nummer	Betegnelse	Designation	Benennung
1	00000160	Kryds	Cross	Kreuzstück
2	43000012	Møtrik	Hexagon nut	Sechskantmutter
3	47005030	Spændestift	Clamping pin	Spannstift
4	14700302 V	Underkniv	Bottom knife	Untermesser
5	14700302 H	Underkniv	Bottom knife	Untermesser
6	50160304	Cylinderskrue	Cylinder screw	Zylinderschraube
7	80820052	Pindbolt	Stud	Stiftschraube
8	00000130	Slæderamme	Slide frame	Schlittenrahmen
9	26500050 V	Styreliste	Long guide rail	Steuerleiste
10	50008020	Cylinderskrue	Cylinder screw	Zylinderschraube
11	47005020	Spændestift	Clamping pin	Spannstift
12	26500050 H	Styreliste	Long guide rail	Steuerleiste
13	52008016	Pinolskrue	Centre screw	Gewindestift
14	20000064	Styreliste	Short guide rail	Steuerleiste
15	00000140	Knivhoved	Knife block	Messerkopf
16	01000101	Trækstang	Draw bar	Verbindungsstange
17	4000008	Skive	Washer	Scheibe
18	53008025	Sætskrue	Hexagon screw	Sechskantschraube
19	00000301 V	Kniv	Knife	Messer
20	00000301 H	Kniv	Knife	Messer
21	80870303	Skrue	Hexagon screw	Sechskantschraube
22	17700077	Spændestykke	Clamping device	Spannstück
23	49006025	Undersænkskrue	Countersunk screw	Senkschraube
24	17701078	Skærm	Safety guard	Schutzschirm
25	60785007	Stjernehjul	Star wheel	Sterngriff
26	00000406	Trækstroppe	Tie-rod	Zughebel
27	00000407	Vinkelarm	Bell crank lever	Exzenterhebel
28	81110408	Bøsning	Bushing	Buchse
29	81124001	Støttebolt	Pivot	Stützbolzen
30	44000010	Møtrik	Hexagon nut	Sechskantmutter
31	13504004	Håndtag kompl.	Hand lever compl.	Stellhebel kompl.
31-1	10350035	Håndtag	Hand lever	Stellhebel
31-2	08394003	Kugleholder	Ball holder	Kugelhalter
31-3	47004016	Spændestift	Clamping pin	Spannstift
31-4	65304003	Kugle	Ball	Kugel
32	55714114	Stålbolt	Steel bolt	Sechskantschraube
33	43007004	Møtrik	Hexagon nut	Sechskantmutter
34	19504005	Tandbue	Tooth arc	Rastbogen
35	53006025	Sætskrue	Hexagon screw	Sechskantschraube
36	43000006	Møtrik	Hexagon nut	Sechskantmutter
37	10000099	Topnøgle	Spanner	Steckschlüssel

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ivmeka	anisme - Dh		Antriebsmechani	Benennung
Pos 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1 1 1	Vare-nummer Part - No. Teile-Nummer 00000217 01102121 80022124 51006008 4000010 53010016 01000070 01101716 00000219 43007016 80971915 67600214 80271420 80281415	Betegnelse Fodvipper Aksel Stopring Pinolskrue Sværskive Sætskrue Pedal Tap Trækbøjle kompl. Møtrik Trækbøjleholder Trækfjeder Fjederholder Skive Møtrik Møtrik Skive Højdestop	Foot pedal tipper Shaft Set collar Centre screw Washer Hexagon screw Pedal Pivot Draw bow, compl. Hexagon nut Draw bow holder Extension spring Spring holder Washer Hexagon nut Hexagon nut Washer Height stop Washer Screw	Fußhebel Achse Stellring Gewindestift Scheibe Sechskantschraube Pedal Zapfenschraube Zugbügel Sechskantmutter Zugbügelhalter Zugfeder Federhalter Scheibe Sechskantmutter Scheibe Höhenbegrenzur Scheibe Schraube

picture

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	oate support - Falz	Designation	Benennung
Pos Vare-numm Part - No. Teile-Numm 2 02100355 3 22103403 4 22103403 5 12203203 6 12203203 6 12203003 8 12203003 9 10 50006020 11 8023360 12 8024370	her V Falsstøtte kompl. H Falsstøtte kompl. V Holder H Holder V Vinkeljern H Vinkeljern V Underpart H Underpart H Underpart O Cylinderskrue Roulerede møtrik	Rebate support compl. Rebate support compl. Holder Holder Angle iron Bottom part Bottom part Cylinder screw Knurled nut Knurled nut	Falzauflage kompl. Falzauflage kompl. Halter Halter Winkelstahl Unterteil Unterteil Zylinderschraube Rändelmutter Rändelmutter

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usatza	usrustung .	ter, autom Access alzauflagen, autom. Betegnelse	Designation	Benennung
POS	Vare-nummer Part - No. Teile-Nummer	thire block must b	Rebate support,	Falzauflage, autom. kompl.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	05000900 V 05000900 H 05000120 V 05000120 H 49005008 05000121 V 05000121 H 60785007 05000123 05000124 05000125 50004012 05000126 50008030 05000122 47003016 50006035	Falsstøtte, autom. kompl. Falsstøtte, autom. kompl. Overplade Overplade Rundhoved skrue Underpart Underpart Stjernehjul Holder Glider Underlagskive Cylinderskrue Bøsning Cylinderskrue Trækstang Spændestift Cylinderskrue	autom. compl. Rebate support, autom. compl. Top plate Top plate Round screw Bottom part Bottom part Star wheel Holder Slide bar Washer Cylinder screw Bushing Cylinder screw Draw bar Clamping pin Cylinder screw Bushing	Falzauflage, autom. kompl. Oberplatte Oberplatte Rundkopfschraube Unterteil Unterteil Sterngriff Halter Gleitstück Unterlegscheibe Zylinderschraube Buchse Zylinderschraube Verbindungsstange Spannstift Zylinderschraube Buchse

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