



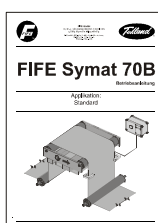
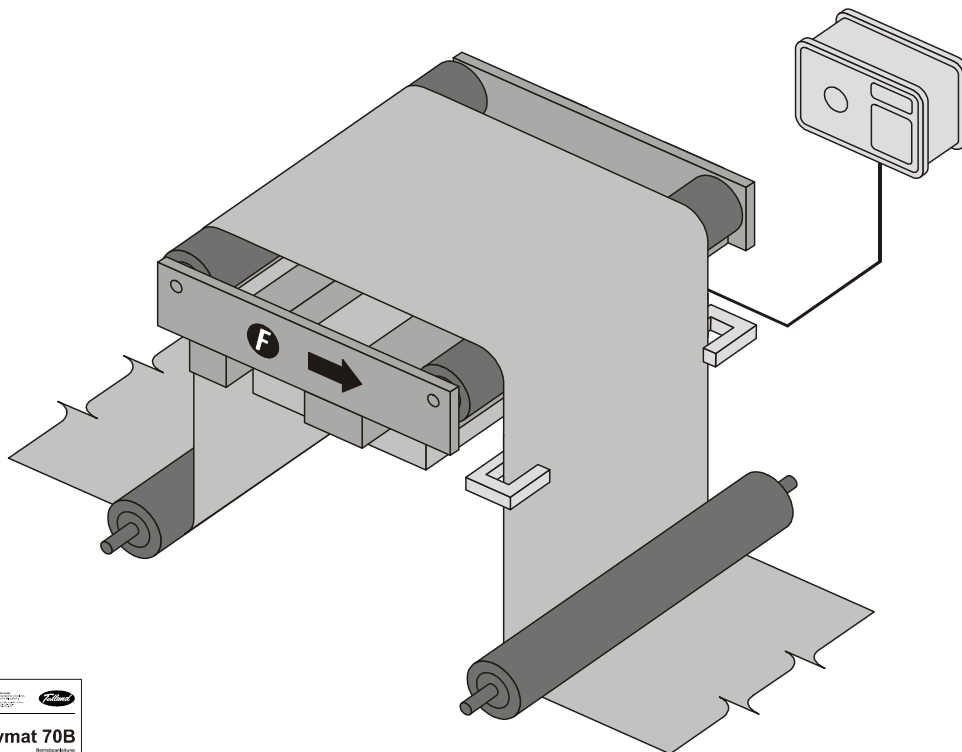
**Fife-Tidland GmbH**  
GLOBAL WEB MANAGEMENT SOLUTION  
guiding inspection slitting winding

Fifestraße1 - 65779 Kelkheim - Deutschland  
Siemensstraße 13-15 - 48683 Ahaus - Deutschland  
Telefon: +49 - 6195 - 7002 - 0 Fax: +49 - 6195 - 7002 - 933



# FIFE Symat 50G / Symat 70 Supplementary Operating Instructions

Application:  
Standard



This manual requires the documentation for the FIFE Symat 70B.





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## FIFE SYMAT 50G / SYMAT 70

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### About these Supplementary Operating Instructions

These Operating Instructions on the FIFE Symat 50G / Symat 70 offset pivot guide are a supplement to the documentation on the FIFE Symat 70B. They take into account differences in construction.

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### Safety



The power supply must be turned off for all assembly and maintenance work on the system! When working with a unit that is turned on, there is danger of hands being jammed due to the motion of the control frame.

Danger of jamming fingers, etc. is present especially

- on the drive joint due to the open mounting base
- on the servo-center transducer

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### System troubleshooting

In the case of a malfunction, check the following items first:

- the mains power voltage and the signal amplifier
- all switches and controls are set correctly
- the connection of all sensors, actuators and the servo-center transducer.



Malfunctions may only be eliminated by people who are acquainted with the FIFE Symat 50G / Symat 70 and possess the requisite qualifications!



**Differences between Symat 70B and Symat 50G / Symat 70**

Figure 1.1 and Figure 1.2 show the different design of the mounting base and the servo-center transducer.



There is danger of jamming fingers, etc.

- on the drive joint due to the open mounting base
- on the servo-center transducer

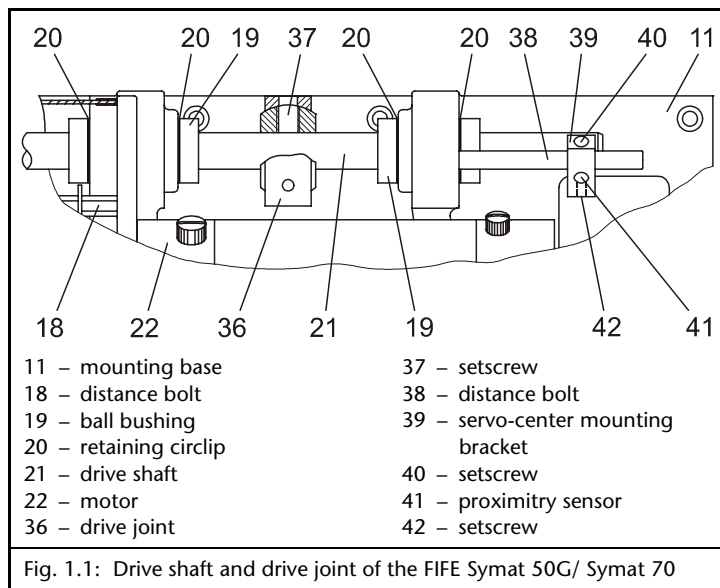
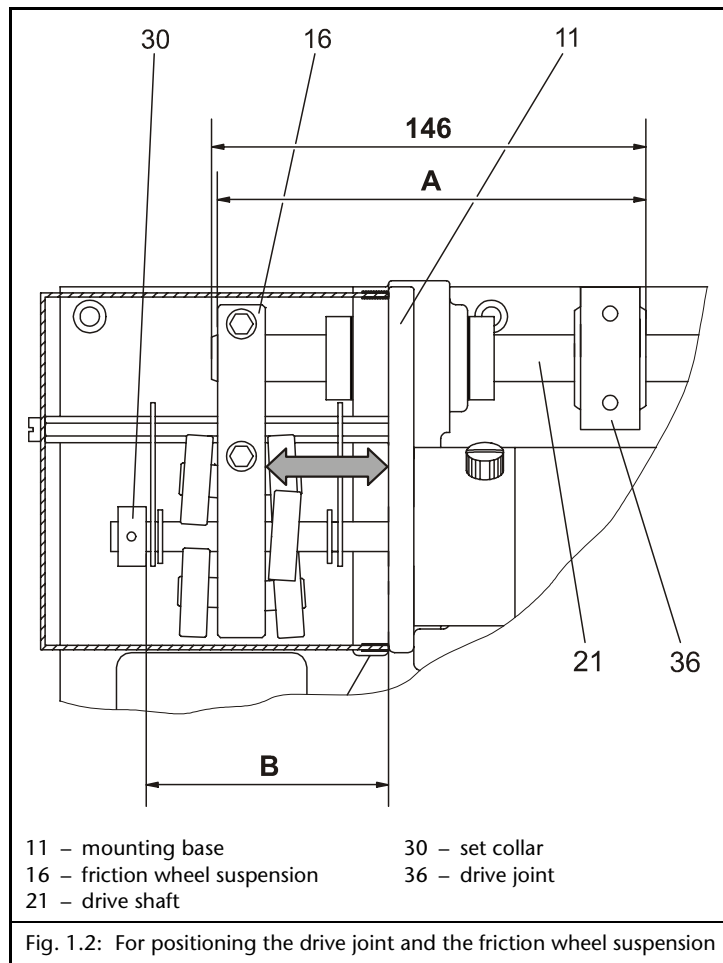


Table 1.1: Tightening torque TT

Pos.	TT /Nm
37	8
38	5

**Drive joint, drive shaft, ball bushing and and friction wheel suspension**

To exchange the drive joint, drive shaft, ball bushing and friction wheel suspension, see page 5-6 of the Operating Instructions for the FIFE Symat 70B.



**Positioning drive joint and friction wheel suspension**

The positioning of the drive joint and friction wheel suspension as well as the setting of the contact force is described on page 5-7 and 5-8 of the Operating Instructions for the FIFE Symat 70B.

**Servo-center transducer**



There is danger of jamming fingers, hands, etc. while performing this task!

If it should be necessary to readjust the servo-center transducer, which is adjusted when it leaves the factory (for example after replacing the proximity sensor), proceed as described on page 5-8 of the Operating Instructions for the FIFE Symat 70B.

It should be noted, however, that the distance between the servo-center transducer and the drive bar must be about 1 mm.



## Spare parts

Table 1.2: Spare parts

Description	Number	Part No.	Remark
Trunnion	4	517 916	
Drive (complete)	1	536 317	FIFE SYMAT 70
		660 795	FIFE SYMAT 50G
Drive joint	1	M133924	
Drive shaft	1	M132857	
Brake lever	2	M132877	
EP lubricating grease	1	M133273	
Guide joint	2	M132854 M132853	
Guide shaft	2	517 337	Determine the current length on the shaft
Ball bushing	2	M126739	
Molybdenum disulfide grease	1	M133274	
Motor	1	M136112	
Motor brushes	1	M135999	Set with two brushes and brush caps for motor and tachometer generator
Friction wheel drive	1	M133167	
Varifluid	1	M133275	
Roller bearing	4		Determine current diameter of bearing on trunnion
Servo-center transducer ISCT-03	1		Part No. see cable marker

Table 1.3: Optional accessories

Description	Number	Part No.	Remark
Motor current measuring device	1	M160398	

Please have the order confirmation ready when making inquiries to the customer service.