

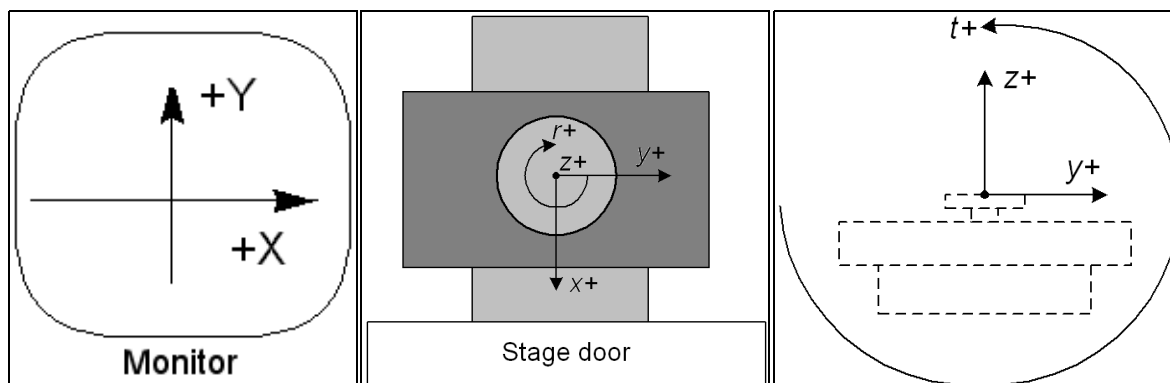
## Stage movement Limits

The motorised movements of the stage can be operated under software control for more advanced location mapping. This includes **Shift**, **Get**, **Track** and the **Stage** module functionality. A live image can be repositioned either by the stage movement (manual or software) or by the **Beam Shift**. The tilting mechanism can be locked for more stability at high magnifications using the software **Clamp** feature.

### Note:

When moving the stage or tilting the specimen, the magnification may need to be reduced not to lose the feature of interest off the screen.

**FIGURE 2-9 STAGE MOVEMENT SCHEMA**



**TABLE 2-4 STAGE FEATURES AND LIMITS**

Item	50 × 50 mm	100 × 100 mm	150 × 150 mm	Note
X [mm]	-25 to +25	-50 to +50	-75 to +75	
Y [mm]	-25 to +25	-50 to +50	-75 to +75	
Z [mm]	25 + 25	0 + 60	0 + 60	holder + stage*
R	360°	360°	360°	continuous
T	-15° to +75°	-5° to +70°	-5° to +70°	
Eucentric Position [mm]	WD = 10	11.6 *)	29.2 *)	*) distance between a sample top surface and the stage base
Clamp	No	Yes	Yes	
Maximum sample weight [g]	250	2 000	5 000	for all tilt angles

### Note:

\* **holder** Z movement means possibility to manually screw the sample holder in or out, **stage** movement means motorised stage movement.

### Caution!

The positive Z value direction depends on the **Link Z to FWD** status (see Chapter 5).

### Caution!

If the maximum sample size is near to the limit, stage tilt could be limited. Beware of hitting the objective pole piece!