

# m-protect® 3

*One for all*



*Insertion aid for  
transanally inserted  
circular staplers*

Rounded stapler head  
Dilatation of the sphincter  
by the stapler

The solution for  
risks associated  
with staplers

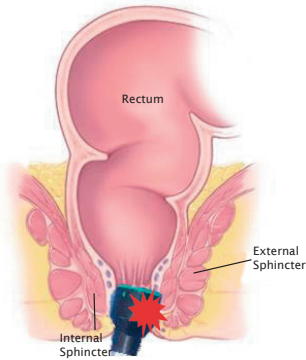
m-protect® 3  
as a bougier instrument

- Reduction of the risk of sphincter lesions
- Easily supplements existing circular staplers
- Three sizes – suitable for all staplers

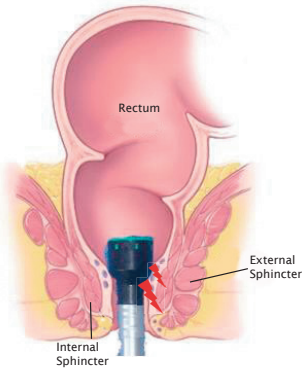


# The situation

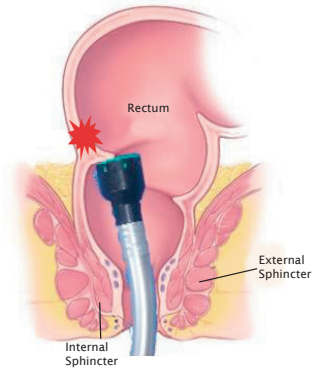
Continence-retaining resection by anastomosis using a transanally inserted circular stapler poses the following risks of injury:



Sphincter lesion



Rupture of the inner sphincter



During insertion of the stapler, the sharp edge collides with the mucosa folds:

- risk of penetration

## The consequences

- Up to 36 % of all patients suffer temporary **anal incontinence** (compare Studies 1, 2, 3, 4, 5, 6)\*
- Anal incontinence for liquid faeces („soiling“)
- 18 % of patients suffer **sphincter injuries** (endosonographically diagnosed)

Art.no.	Suitable for stapler sizes	Packaging unit
MP 0028/29	28/29	12 items per PU
MP 0031/32	31/32	12 items per PU
MP 0033/34	33/34	12 items per PU

Manufactured by

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## Studies

(1) Farouk, R; Duthie GS; Lee PW; Monson JR: Endo-sonographie evidence of injury to the internal anal sphincter after low anterior resection: long-term follow-up. (Dis Colon Rectum 1998 Jul; 41 (7):888-91)

(2) Ho YH; Tsang C; Tang CL; Nyam D; Eu KW; Seow-Choen F: Anal sphincter injuries from stapling instruments introduced transanally: randomized, controlled study with endoanal ultrasound and anorectal manometry. (Dis Colon Rectum 2000 Feb; 43 (2): 169-73)

(3) Hoffmann DC; Young JF; Sweeney JL; Hunter RA; Moore JW: A modification of single stapled colo-rectal anastomosis using the transanal insertion device (TAIS). (Aust N Z J Surg 1996 Nov; 66 (11): 768-9)

(4) Jiang JK; Lin JK: Does anastomiotic method affect functional outcome of low anterior resection for rectal carcinoma? (Chung Hua I Hsueh Tsa Chih (Taipei) 1997 Nov; 60 (5):252-8)

(5) Khoury DA; Opelka FG: Anoscopic-assisted insertion of end-to-end anastomosing staplers. (Dis Colon Rectum 1995 May; 38 (5): 553-4)

(6) Pehl C; Birkner B; Bittmann W; Cluss B; Emmert H; Fuchs M; Passern J; Wendl B; Heitland W: Stuhl-inkontinenz (Dt. Arztblatt 2000; 97: xA-1302-1308 (Heft 19))