PRODUCT DATA

HOBSON ENGINEERING

Tygabolt® CSK Sleeve Anchor - Zinc Yellow Passivate

✚ Phillips

The **Tygabolt®** (Countersunk head) is a pre-assembled single unit wedge-type anchors used in solid concrete applications. Fixing is achieved by controlled torquing of the head which draws the cone section up in the sleeve, thereby expanding it outward and forcing the Tygabolt® against the sidewall of the pre-drilled hole.

Applications
• Hand rail fastening
• Form-work support fastening
• Mechanical, electrical and pipe bracket fastening

Material	**8.8**	ISO Property Class 8.8

Finish	**ZYP**	Zinc Yellow Passivate

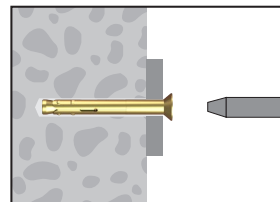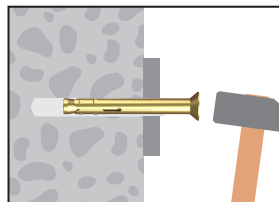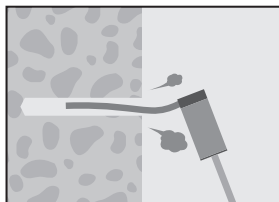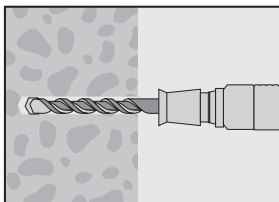| Part	QFind	Diam	Length	Drive Size	Pack Qty
		(mm)	(mm)	Phillips	
MTC88YM080060	**MTC104**	8.0	60	3	50
MTC88YM080085	**MTC105**	8.0	85	3	50
MTC88YM100075	**MTC106**	10.0	75	3	50
MTC88YM100100	**MTC107**	10.0	100	3	25
MTC88YM100120	**MTC108**	10.0	120	3	25

Features

• Suitable for light to medium duty loads
• Quick and easy to install
• Immediate loading is possible
• Internally threaded countersunk head for flush finish
• Expansion claws that prevent rotation during tightening
• Cold formed cone for efficient expansion

Installation

TygaBolt®

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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Installation Guide

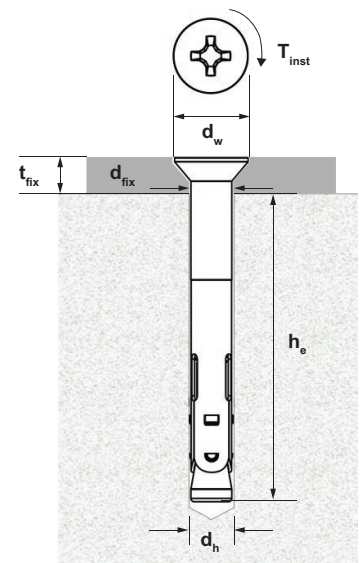| Tygabolt® Size	Thread Size	Hole	Minimum Depth	Hole on Fixture	Torque Guide	Drive	Head Diameter	Minimum Concrete Thickness	Minimum Spacing	Minimum Edge Distance
d_h (mm)	D	d_h (mm)	$h_{e\ min}$ (mm)	d_{fix} (mm)	T_{inst} (N-m)	Phillips	d_w (mm)	h_{min} (mm)	S_{min} (mm)	C_{min} (mm)
8	M6	8.0	40	10	8	#3	15	100	50	50
10	M8	10.0	50	12	25	#3	18	100	60	60

Basic Load Performance in 32 MPa non-cracked concrete

[1] *Design Resistance* is the governing minimum load resistance obtained by comparing relevant concrete and steel resistances. Strength reduction of ϕ = 0.60 for concrete and ϕ =0.80 for steel are already included.

[2] *Working Load* is the governing minimum allowed load obtained by comparing relevant concrete and steel working loads. Factor of safety FOS = 2.5 for steel and FOS = 3.0 concrete are already included.

Size	Embedment Depth	Design Tensile Resistance[1]	Working Load in Tension[2]
	h_e (mm)	$\phi\ N_d$ (kN)	N_{WLL} (kN)
ø8 (M6)	40	6.4	3.2
	60	6.4	3.2
	80	6.4	3.2
ø10 (M8)	60	11.7	5.8
	80	11.7	5.8
	100	11.7	5.8

Size	Embedment Depth	Edge Distance	Design Shear Resistance[1]	Working Load in Shear[2]
	h_e (mm)	c_1 (mm)	$\phi\ V_d$ (kN)	V_{WLL} (kN)
ø8 (M6)	50	50	3.2	1.6
		60	3.2	1.6
		80	3.2	1.6
ø10 (M8)	60	60	5.8	2.9
		80	5.8	2.9
		100	5.8	2.9

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