

NORMACLAMP® – Hose Clamps

Variants



NORMACLAMP® TX

One more clamp type rounding off this range is the NORMACLAMP® TX. These clamps are specially used in applications in the commercial vehicle sector where extremely high band tensile forces and high fracture torques are required. This is why NORMACLAMP® TX hose clamps are only made with 12 mm band width and in W3 material quality.

Features

- Only 12 mm band width
- Only W3 material



NORMACLAMP® HD

HD clamps are suitable for special areas of application where high tightening torques and high contact pressures are required, for example, for fastening steel reinforced silicon, plastic and rubber hoses.

The extended bridge prevents the hose from protruding and being damaged.

The NORMACLAMP® HD clamp is an add-on type to our range of worm drive hose clips and therefore only available in 16 mm band width and W4 material quality.

Features

- Only 16 mm band width
- Only W4 material

NORMACLAMP® – Hose Clamps

Table with torques

TORRO 9 W1										
Diameter (mm)	8–12	10–16	12–18	12–22	16–27	20–32	25–40	30–45	35–50	40–60
AD	2.5 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
LD max	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
PD	3.3	4	4	4	4	4	4	4	4	4
BD min	4	4.5	4.5	4.5	4.5	4.5	6	6	6	6
TORRO 9 W2										
Diameter (mm)		8–16		12–22	16–27	20–32	25–40	30–45	35–50	40–60
AD		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
LD max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
PD		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5
TORRO 9 W3–W5										
Diameter (mm)		8–16		12–22	16–27	20–32	25–40	30–45	35–50	40–60
AD		2 +0.5		3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5
LD max		0.7		0.7	0.7	0.7	0.7	0.7	0.7	0.7
PD		2.6		4	4	4	4	4	4	4
BD min		4		4.5	4.5	4.5	4.5	4.5	4.5	4.5
TORRO 12 W1										
Diameter (mm)					16–27	20–32	25–40	30–45	35–50	40–60
AD					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
LD max					1.2	1.2	1.2	1.2	1.2	1.2
PD					6.5	6.5	6.5	6.5	6.5	6.5
BD min					10	10	10	10	10	10
TORRO 12 W2/W3										
Diameter (mm)					16–27	20–32	25–40	30–45	35–50	40–60
AD					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
LD max					1	1	1	1	1	1
PD					6.5	6.5	6.5	6.5	6.5	6.5
BD min					8.0	8.0	8.5	8.5	8.5	8.5
TORRO 12 W4/W5										
Diameter (mm)					16–27	20–32	25–40	30–45	35–50	40–60
AD					5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
LD max					1	1	1	1	1	1
PD					6.5	6.5	6.5	6.5	6.5	6.5
BD min					8	8	8.5	8.5	8.5	8.5
TORRO TX12										
Diameter (mm)				12–22	16–27	20–32	25–40	30–45	35–50	40–60
AD				5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5
LD max				0.8	0.8	0.8	0.8	0.8	0.8	0.8
PD				6.5	6.5	6.5	6.5	6.5	6.5	6.5
BD min				9.8	9.8	9.8	9.8	9.8	9.8	9.8

Legend:

AD = recommended tightening torque in Nm;
PD = test torque in Nm;

LD = no-load torque in Nm;
BD = fracture torque in Nm

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TORRO 9 W1

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	AD
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	LD max
4	4	4	4	4	4	4	4	4	4	PD
6	6	6	6	6	6	6	6	6	6	BD min

TORRO 9 W2

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	AD
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	LD max
4	4	4	4	4	4	4	4	4	4	PD
4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	BD min

TORRO 9 W3–W5

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	3 +0.5	AD
0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	LD max
4	4	4	4	4	4	4	4	4	4	PD
4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	BD min

TORRO 12 W1

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	AD
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	LD max
6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	PD
10	10	10	10	10	10	10	10	10	10	BD min

TORRO 12 W2/W3

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	AD
1	1	1	1	1	1	1	1	1	1	LD max
6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	PD
8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	BD min

TORRO 12 W4/W5

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	AD
1	1	1	1	1	1	1	1	1	1	LD max
6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	PD
8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	BD min

TORRO TX12

50–70	60–80	70–90	80–100	90–110	100–120	110–130	120–140	130–150	140–160	Diameter (mm)
5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	5 +0.5	AD
0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	LD max
6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	PD
9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	BD min

NORMACLAMP® – Hose Clamps

Survey of sizes, band widths & materials NORMACLAMP® TORRO® TX

Band width (mm)	Description	Clamping Range		Packaging IC	B	h	L	s	W3
		in mm	in Inches						
12	TX 12-22/12	12-22	1/2-7/8	500	15.0	12.5	30.0	0.8	X
12	TX 16-27/12	16-27	5/8-11/16	500	15.0	12.5	30.0	0.8	X
12	TX 20-32/12	20-32	13/16-11/4	500	15.0	12.5	30.0	0.8	X
12	TX 25-40/12	25-40	1-19/16	500	15.0	12.5	30.0	0.8	X
12	TX 30-45/12	30-45	13/16-13/4	500	15.0	12.5	30.0	0.8	X
12	TX 35-50/12	35-50	13/8-2	500	15.0	12.5	30.0	0.8	X
12	TX 40-60/12	40-60	19/16-23/8	250	15.0	12.5	30.0	0.8	X
12	TX 50-70/12	50-70	115/16-23/4	250	15.0	12.5	30.0	0.8	X
12	TX 60-80/12	60-80	23/8-31/8	250	15.0	12.5	30.0	0.8	X
12	TX 70-90/12	70-90	23/4-39/16	250	15.0	12.5	30.0	0.8	X
12	TX 80-100/12	80-100	31/8-315/16	100	15.0	12.5	37.0	1.0	X
12	TX 90-110/12	90-110	39/16-45/16	100	15.0	12.5	37.0	1.0	X
12	TX 100-120/12	100-120	315/16-43/4	100	15.0	12.5	37.0	1.0	X
12	TX 110-130/12	110-130	45/16-51/8	100	15.0	12.5	37.0	1.0	X
12	TX 120-140/12	120-140	43/4-51/2	100	15.0	12.5	37.0	1.0	X
12	TX 130-150/12	130 - 150	51/8-57/8	100	15.0	12.5	42.0	1.0	X
12	TX 140-160/12	140 - 160	51/2-65/16	100	15.0	12.5	42.0	1.0	X
12	TX 150-170/12	150 - 170	57/88-611/16	100	15.0	12.5	42.0	1.0	X
12	TX 160-180/12	160 - 180	65/16-71/16	50	15.0	12.5	42.0	1.0	X
12	TX 40-55/12	40-55	19/16-23/16		15.0	12.5	30.0	0.8	X
12	TX 45-65/12	45-65	13/4-29/16		15.0	12.5	30.0	0.8	X
12	TX 55-75/12	55-75	23/16-215/16		15.0	12.5	30.0	0.8	X
12	TX 65-85/12	65-85	29/16-33/8		15.0	12.5	30.0	0.8	X
12	TX 75-95/12	75-95	215/16-33/4		15.0	12.5	37.0	1.0	X

■ Special sizes for OEM