



QST SYSTEM

PRODUCT BROCHURE

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THE SOUND OF SILENCE

QST MEANS QUIET SELF TRACK.

With precise and continuous mesh between belt and pulley, the Megadyne QST System delivers an improved reduction in noise level, versus traditional types of trapezoidal and curvilinear tooth designs.

The key advantages of the QST System are:

- Low noise
- Self-tracking
- Dimensional stability
- High torque capacity
- Longer belt and pulley life

CHARACTERISTICS

MEGALINEAR QST is manufactured of a thermoplastic polyurethane 92° ShA, with high strength zinc coated steel tension members (S and Z torsion). The teeth are covered as standard with NFT (Nylon Faced Teeth).

MEGALINEAR QST has an excellent resistance to:

- Ageing
- Hydrolysis, UVA
- Ozone
- Most acids and alkalis
- Oils, grease and fat
- 100% Made in Italy

Compatible for fabrication with other thermoplastic materials, MEGALINEAR QST works at a temperature range of between -25°C and + 80C°.

ADVANTAGES

LOW NOISE

MEGALINEAR QST provides a solution where current belt applications generate too much noise.

The Helical Offset Tooth design and continuous tooth engagement, allows MEGALINEAR QST to run quieter than any other timing product.

SELF-TRACKING, NO PULLEY FLANGES REQUIRED

The MEGALINEAR QST design consists of a left and right helix, which guides the belt into the centre of the QST pulley, eliminating any belt wander and ensuring high precision linear positioning.

The self-tracking nature of the Helical Offset Tooth eliminates the need for pulley flanges.

HIGH TORQUE CAPACITY

MEGALINEAR QST features nylon facing on the Helical Offset Teeth increasing the tensile load capacity, allowing the teeth to deliver more torque.



QST SYSTEM

RANGE



HP cords available





PULLEYS

100% Made in Italy, the QST pulleys are produced with innovative equipment and made in a high quality steel for better performance, reduced wear and ensuring a longer life of any transmission system. The pulleys are treated to resist oxidation and wear. The QST pulleys range includes: QST 5M, QST 8M and QST 14M (QST 10M is available on request).

Megadyne QST System includes belts, pulleys and clamping plates: discover the wide range and find out the best combination for your application.



		QST 5M	25		
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L
16	25,46	24,50	19,0	26,0	32,0
18	28,65	27,69	22,0	26,0	32,0
20	31,83	30,87	25,0	26,0	34,0
21	33,42	32,46	26,0	26,0	34,0
22	35,01	34,05	28,0	26,0	34,0
24	38,20	37,24	32,0	26,0	34,0
26	41,38	40,42	35,0	26,0	34,0
28	44,56	43,60	38,0	26,0	34,0
30	47,75	46,79	41,0	26,0	34,0
32	50,93	49,97	44,0	26,0	34,0
36	57,30	56,34	51,0	26,0	34,0
40	63,66	62,70	57,0	26,0	37,0
44	70,03	69,07	63,0	26,0	37,0
48	76,39	75,43	70,0	26,0	37,0
60	95,49	94,53	89,0	26,0	37,0
72	114,59	113,63	108,0	26,0	37,0

Q	ST	8M	2

				20		
L	N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L
' ,0	18	45,84	44,46	38,0	26,0	38,0
9,0	22	56,02	54,66	46,0	26,0	38,0
3,0	24	61,12	59,74	51,0	26,0	42,0
3,0	26	66,21	64,84	58,0	26,0	42,0
3,0	28	71,30	69,93	62,0	26,0	42,0
3,0	30	76,39	75,02	67,0	26,0	42,0
3,0	32	81,49	80,12	72,0	26,0	42,0
3,0	34	86,58	85,21	77,0	26,0	42,0
3,0	36	91,67	90,30	82,0	26,0	42,0
3,0	38	96,77	95,39	87,0	26,0	42,0
3,0	40	101,86	100,49	92,0	26,0	42,0
3,0	44	112,05	110,67	102,0	26,0	42,0
3,0	48	122,23	120,86	112,0	26,0	42,0
3,0	60	152,79	151,42	143,0	26,0	42,0
3,0						

		QST 8M	16		
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L
18	45,84	44,46	38,0	17,0	27,0
22	56,02	54,66	46,0	17,0	29,0
24	61,12	59,74	51,0	17,0	33,0
26	66,21	64,84	58,0	17,0	33,0
28	71,30	69,93	62,0	17,0	33,0
30	76,39	75,02	67,0	17,0	33,0
32	81,49	80,12	72,0	17,0	33,0
34	86,58	85,21	77,0	17,0	33,0
36	91,67	90,30	82,0	17,0	33,0
38	96,77	95,39	87,0	17,0	33,0
40	101,86	100,49	92,0	17,0	33,0
44	112,05	110,67	102,0	17,0	33,0
48	122,23	120,86	112,0	17,0	33,0
52	132,42	131,04	123,0	17,0	33,0
60	152,79	151,42	143,0	17,0	33,0



PULLLEYS

		QST 8M	32		
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L
18	45,84	44,46	38,0	33,0	43,0
22	56,02	54,66	46,0	33,0	45,0
24	61,12	59,74	51,0	33,0	49,0
26	66,21	64,84	58,0	33,0	49,0
28	71,30	69,93	62,0	33,0	49,0
30	76,39	75,02	67,0	33,0	49,0
32	81,49	80,12	72,0	33,0	49,0
34	86,58	85,21	77,0	33,0	49,0
36	91,67	90,30	82,0	33,0	49,0
38	96,77	95,39	87,0	33,0	49,0
40	101,86	100,49	92,0	33,0	49,0
44	112,05	110,67	102,0	33,0	49,0
48	122,23	120,86	112,0	33,0	49,0
52	132,42	131,04	123,0	33,0	49,0
60	152,79	151,42	143,0	33,0	49,0

		QST 8M	50		
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L
18	45,84	44,46	38,0	51,0	63,0
22	56,02	54,66	46,0	51,0	63,0
24	61,12	59,74	,74 51,0 51,0		67,0
26	66,21	64,84	58,0 51,0		67,0
28	71,30	69,93	62,0 51,0		67,0
30	76,39	75,02	67,0	51,0	67,0
32	81,49	80,12	72,0	51,0	67,0
34	86,58	85,21	77,0	51,0	67,0
36	91,67	90,30	82,0	51,0	67,0
38	96,77	95,39	87,0	51,0	67,0
40	101,86	100,49	92,0	51,0	67,0
44	112,05	110,67	102,0	51,0	67,0
48	122,23	120,86	112,0	51,0	67,0
60	152,79	151,42	143,0	51,0	67,0

	QST 14M 52,5								
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L				
32	142,60	139,81	126,5	54,5	74,5				
34	151,52	148,72	135,5	54,5	74,5				
36	160,43	157,63	141,0	54,5	70,5				
38	169,34	166,55	150,0	54,5	70,5				
40	178,25	175,46	159,0	54,5	70,5				
48	213,90	211,11	195,0	54,5	70,5				

QST 14M 105								
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L			
32	142,60	139,81	126,5	107,0	133,0			
34	151,52	148,72	135,5	107,0	133,0			
36	160,43	157,63	144,0	107,0	133,0			
38	169,34	166,55	153,0	107,0	133,0			
40	178,25	175,46	162,0	107,0	133,0			
48	213,90	211,11	197,0	107,0	123,0			

QST 10 pulleys available on request.

QST 14M 35							
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L		
32	142,60	139,81	123,0	37,0	53,0		
34	151,52	148,72	132,0	37,0	53,0		
36	160,43	157,63	141,0	37,0	53,0		
38	169,34	166,55	150,0	37,0	53,0		
40	178,25	175,46	159,0	37,0	53,0		
48	213,90	211,11	195,0	37,0	53,0		

QST 14M 70								
N. Of Teeth	Dp (mm)	De (mm)	Dm (mm)	B (mm)	L			
32	142,60	139,81	126,5	72,0	98,0			
34	151,52	148,72	135,5	72,0	98,0			
36	160,43	157,63	144,0	72,0	98,0			
38	169,34	166,55	153,0	72,0	98,0			
40	178,25	175,46	162,0	72,0	98,0			
48	213,90	211,11	197,0	72,0	88,0			



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CLAMPING PLATES

The clamping plates are used to fix the tail of the open belts. As the belt can't be stretched with the fixing plates we suggest to use other tension system.

The plates are delivered in aluminium alloy.

The Megadyne Technical Staff is ready to study special or particular applications.

ALUMINIUM

CLAMPING PLATES FOR QST 5									
Pitch	BELT WIDTH	F	d	Α	S	x	У	z	С
00T 5*	12	6	5,5	50	8	7,5	35	3	43
Q315"	24	6	5,5	50	8	7,5	35	3	43

ALUMINIUM

CLAMPING PLATES FOR QST 8									
Pitch	BELT WIDTH	F	d	Α	S	x	У	z	С
007.04	16	7,5	9	74	14,5	13	48	3	40
	25	8	9	74	14,5	13	48	3	50
Q510"	32	8	9	74	14,5	13	48	3	57
	50	8	9	74	14,5	13	48	3	75

ALUMINIUM

CLAMPING PLATES FOR QST 14									
Pitch	BELT'S WIDTH	F	d	Α	S	x	У	z	С
QST 14	35	9,5	11	130	22	23	84	3	65
	52,5	9,5	11	130	22	23	84	3	82,5
	70	9,5	11	130	22	23	84	3	100
	105	10	11	130	22	23	84	3	136

*Available in customized length | Dimensions in mm

QST SYSTEM

DATA SHEET

CUSTOMER DATA

Company Name		Date
Address		Zip Code
City	State	Country
Customer Name/Surname		
Office	Tel	e-mail

DRIVE INFORMATION TRANSMISSION LAYOUT

DRIVE INFORMATION (FOR CONVEYOR)



Driver pulley's diameter			Driven pulley's diameter		
Center distance			Minimum safety factor needed		
Are there any size limitation?					
(if yes, please indicate Max diam	eter, Max	width and Max ce	enter distance):		
Max diameter	Ma	ax width	Max center distance		
Linear speed	Ac	celeration	Mass		
Is there any sliding surface?	Yes	No	(if yes please indicate friction coefficient):		
Is there any cover on the back?	Yes	No	(if yes please indicate the type)		
Are cleats required?	Yes	🗌 No	(if yes please indicate cleats code, otherwise attach drawings)		
Working time C < 8h From 8h up to 16h 24h					

QST SYSTEM



DRIVE INFORMATION (FOR LINEAR MOTION)

Driver pulley's diameter	_ Driven pulley's diameter		
Center distance	Minimum safety factor needed		
Are there any size limitation?			
(if yes, please indicate Max diameter, Max width and Max	x center distance):		
Max diameter Max width	Max center distance		
Linear speed Acceleration	Mass		
Working time	24h		
WORK'S ENVIRONMENT INFORMATION (FOR ALL LA	YOUT TRANSMISSION SYSTEM)		
work remperature (please indicate constant temperature			
Humidity Standard No standard Other			
Chemical agents: (oils, grass, aggressive compounds)	Yes No		
In case please indicate type and percentage			

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Discover Your Local Contacts

The local partner of choice for sustainable power transmission belting solutions around the globe.



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Scan the QR code and find your local contact



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