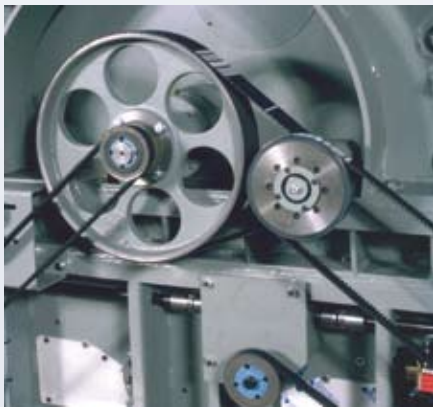
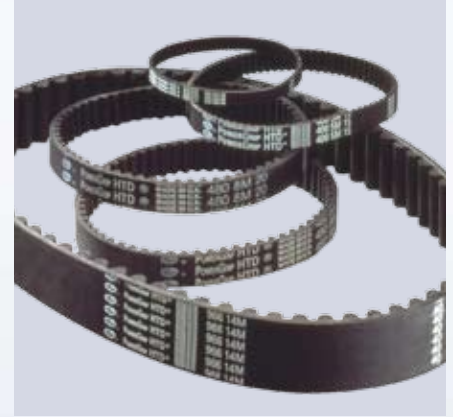


SYNCHRONOUS BELTS FOR HIGH TORQUE DRIVES

## POWERGRIP® HTD® 8M, 14M & 20M

Rubber synchronous belt with HTD® tooth profile

The curvilinear PowerGrip® HTD® tooth geometry eliminates stress concentration at tooth roots and allows higher power capacity and longer life. PowerGrip® HTD® 8M, 14M and 20M belts are used in high performance drives in the machine tool, paper and textile industries where durability and low maintenance are required.



### Identification

Three part number on the back of the belt indicating pitch length, tooth pitch and belt width in millimeters.

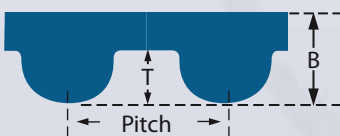
### Construction

- Special curvilinear tooth form improves stress distribution and allows higher overall loading.
- Precisely formed and accurately spaced elastomeric teeth ensure correct positioning in the pulley grooves.
- Tough nylon facing protects the tooth surfaces.
- Tensile member provides the required strength combined with excellent flex life and high resistance to elongation.
- Durable elastomeric backing protects against environmental pollution as well as frictional wear if power is transmitted from the back of the belt.
- 8M and 14M pitch belts conform to ISO 13050.

### Advantages

- Load capacities up to 1,000 kW.
- No slippage. PowerGrip® HTD® belt teeth mesh smoothly with pulley grooves, reducing speed variations.
- Wide speed range.
- Economical operation. No lubrication needed, no need for adjustment due to stretch and wear.
- High mechanical efficiency. The belt construction minimises heat build-up and, since friction is not required to transmit the load, belt tensions are reduced.
- Constant driven speeds.
- Long trouble-free service life (because of excellent abrasion resistance) in many applications where metal components like chains and gears wear out in a matter of months.
- PowerGrip® HTD® 14M: **static conductive (ISO 9563)** and can as such be used in the conditions described in the Directive 94/9/EC - ATEX.

### Sections and nominal dimensions



	Pitch mm	T mm	B mm
<b>8M</b>	8.0	3.4	6.0
<b>14M</b>	14.0	6.1	10.0
<b>20M</b>	20.0	8.4	13.2

NOTE

For correct usage of the belt please request Gates' Synchronous Belt Drive Design Manual (E2/20099).



8M		
Pitch: 8 mm		
Description	Pitch length mm	Number of teeth
264-8M	264	33
<b>320-8M</b>	<b>320</b>	<b>40</b>
<b>376-8M</b>	<b>376</b>	<b>47</b>
<b>384-8M</b>	<b>384</b>	<b>48</b>
<b>424-8M</b>	<b>424</b>	<b>53</b>
<b>480-8M</b>	<b>480</b>	<b>60</b>
512-8M	512	64
<b>520-8M</b>	<b>520</b>	<b>65</b>
<b>560-8M</b>	<b>560</b>	<b>70</b>
<b>576-8M</b>	<b>576</b>	<b>72</b>
<b>600-8M</b>	<b>600</b>	<b>75</b>
<b>608-8M</b>	<b>608</b>	<b>76</b>
<b>624-8M</b>	<b>624</b>	<b>78</b>
<b>640-8M</b>	<b>640</b>	<b>80</b>
<b>656-8M</b>	<b>656</b>	<b>82</b>
<b>720-8M</b>	<b>720</b>	<b>90</b>
<b>760-8M</b>	<b>760</b>	<b>95</b>
<b>776-8M</b>	<b>776</b>	<b>97</b>
<b>800-8M</b>	<b>800</b>	<b>100</b>
<b>856-8M</b>	<b>856</b>	<b>107</b>
<b>880-8M</b>	<b>880</b>	<b>110</b>
<b>912-8M</b>	<b>912</b>	<b>114</b>
<b>920-8M</b>	<b>920</b>	<b>115</b>
<b>960-8M</b>	<b>960</b>	<b>120</b>
<b>968-8M</b>	<b>968</b>	<b>121</b>
<b>976-8M</b>	<b>976</b>	<b>122</b>
<b>1000-8M</b>	<b>1000</b>	<b>125</b>
<b>1040-8M</b>	<b>1040</b>	<b>130</b>
<b>1064-8M</b>	<b>1064</b>	<b>133</b>
<b>1080-8M</b>	<b>1080</b>	<b>135</b>
<b>1120-8M</b>	<b>1120</b>	<b>140</b>
<b>1128-8M</b>	<b>1128</b>	<b>141</b>
<b>1160-8M</b>	<b>1160</b>	<b>145</b>
<b>1176-8M</b>	<b>1176</b>	<b>147</b>
<b>1200-8M</b>	<b>1200</b>	<b>150</b>
<b>1216-8M</b>	<b>1216</b>	<b>152</b>
<b>1224-8M</b>	<b>1224</b>	<b>153</b>
<b>1256-8M</b>	<b>1256</b>	<b>157</b>
<b>1264-8M</b>	<b>1264</b>	<b>158</b>
<b>1280-8M</b>	<b>1280</b>	<b>160</b>
<b>1304-8M</b>	<b>1304</b>	<b>163</b>
<b>1360-8M</b>	<b>1360</b>	<b>170</b>
<b>1424-8M</b>	<b>1424</b>	<b>178</b>
<b>1432-8M</b>	<b>1432</b>	<b>179</b>
<b>1440-8M</b>	<b>1440</b>	<b>180</b>
<b>1512-8M</b>	<b>1512</b>	<b>189</b>
<b>1520-8M</b>	<b>1520</b>	<b>190</b>
<b>1552-8M</b>	<b>1552</b>	<b>194</b>
<b>1584-8M</b>	<b>1584</b>	<b>198</b>
<b>1600-8M</b>	<b>1600</b>	<b>200</b>
<b>1696-8M</b>	<b>1696</b>	<b>212</b>
<b>1728-8M</b>	<b>1728</b>	<b>216</b>
<b>1760-8M</b>	<b>1760</b>	<b>220</b>
<b>1800-8M</b>	<b>1800</b>	<b>225</b>
<b>1896-8M</b>	<b>1896</b>	<b>237</b>
<b>1904-8M</b>	<b>1904</b>	<b>238</b>
<b>2000-8M</b>	<b>2000</b>	<b>250</b>
<b>2080-8M</b>	<b>2080</b>	<b>260</b>
2200-8M	2200	275
<b>2240-8M</b>	<b>2240</b>	<b>280</b>
<b>2272-8M</b>	<b>2272</b>	<b>284</b>
<b>2400-8M</b>	<b>2400</b>	<b>300</b>
2504-8M	2504	313
<b>2600-8M</b>	<b>2600</b>	<b>325</b>
<b>2800-8M</b>	<b>2800</b>	<b>350</b>

Available in widths of 20 mm, 30 mm, 50 mm and 85 mm.

14M		
Pitch: 14 mm		
Description	Pitch length mm	Number of teeth
<b>784-14M</b>	<b>784</b>	<b>56</b>
826-14M	826	59
<b>924-14M</b>	<b>924</b>	<b>66</b>
<b>966-14M</b>	<b>966</b>	<b>69</b>
<b>1092-14M</b>	<b>1092</b>	<b>78</b>
<b>1190-14M</b>	<b>1190</b>	<b>85</b>
<b>1400-14M</b>	<b>1400</b>	<b>100</b>
<b>1610-14M</b>	<b>1610</b>	<b>115</b>
<b>1778-14M</b>	<b>1778</b>	<b>127</b>
<b>1890-14M</b>	<b>1890</b>	<b>135</b>
<b>2100-14M</b>	<b>2100</b>	<b>150</b>
<b>2310-14M</b>	<b>2310</b>	<b>165</b>
<b>2450-14M</b>	<b>2450</b>	<b>175</b>
<b>2590-14M</b>	<b>2590</b>	<b>185</b>
<b>2800-14M</b>	<b>2800</b>	<b>200</b>
<b>3150-14M</b>	<b>3150</b>	<b>225</b>
<b>3500-14M</b>	<b>3500</b>	<b>250</b>
<b>3850-14M</b>	<b>3850</b>	<b>275</b>
<b>4004-14M</b>	<b>4004</b>	<b>286</b>
<b>4326-14M</b>	<b>4326</b>	<b>309</b>
<b>4578-14M</b>	<b>4578</b>	<b>327</b>

Available in widths of 40 mm, 55 mm, 85 mm, 115 mm and 170 mm.

20M		
Pitch: 20 mm		
Description	Pitch length mm	Number of teeth
2000-20M	2000	100
2500-20M	2500	125
3400-20M	3400	170
3800-20M	3800	190
4200-20M	4200	210
4600-20M	4600	230
5000-20M	5000	250
5200-20M	5200	260
5400-20M	5400	270
5600-20M	5600	280
5800-20M	5800	290
6000-20M	6000	300
6200-20M	6200	310
6400-20M	6400	320
6600-20M	6600	330

Available in widths of 115 mm, 170 mm, 230 mm, 290 mm and 340 mm.

**PowerGrip® HTD® ordering code is composed as follows:**

**480-8M-20**

**480** - Pitch length (mm)  
**8M** - Pitch 8 mm  
**20** - Belt width (mm)

Dimensions in bold are available from stock.