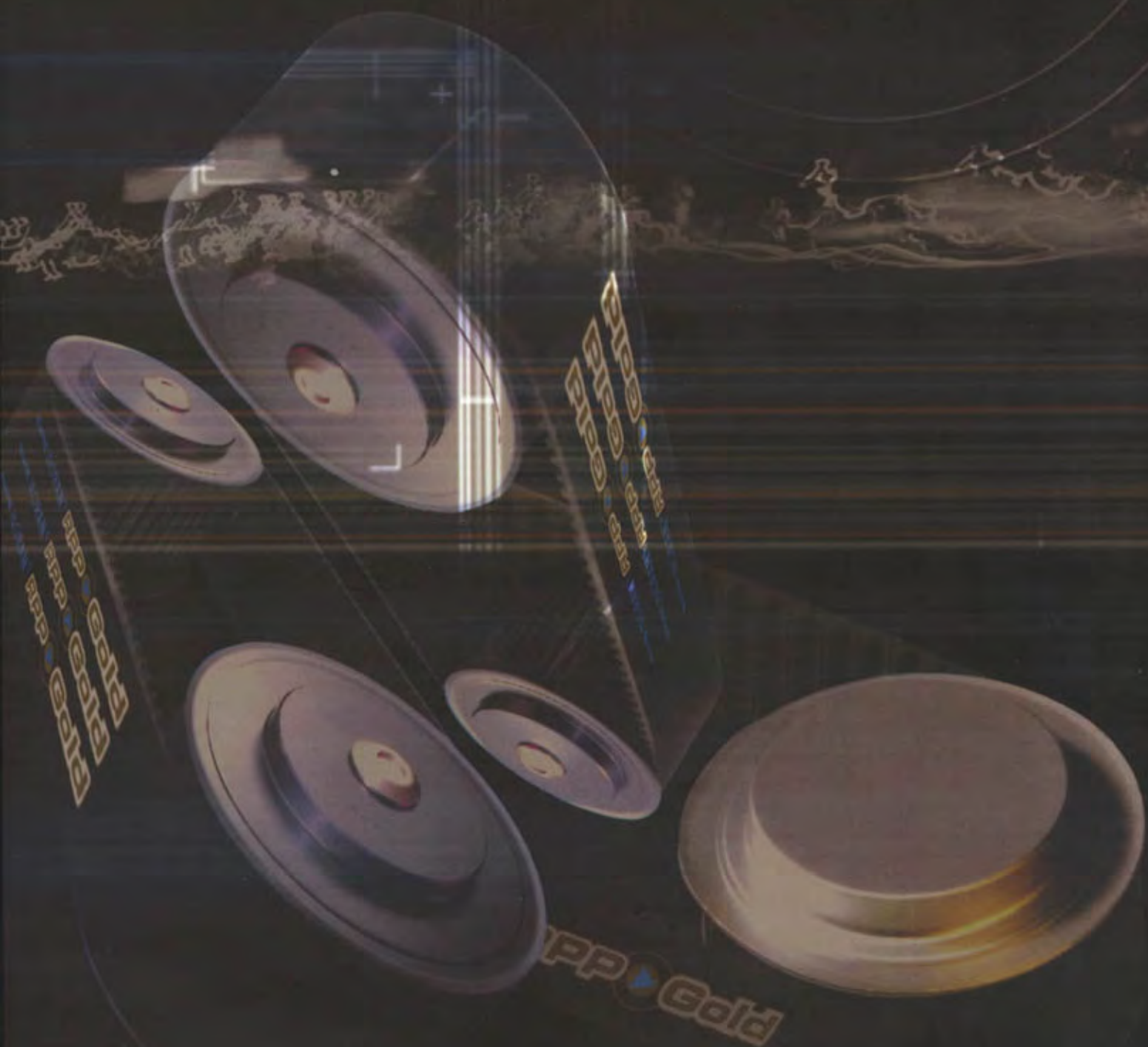


MEGARUBBER



ISORAN® RPP Gold

THE ULTIMATE POWER



**ISORAN®**

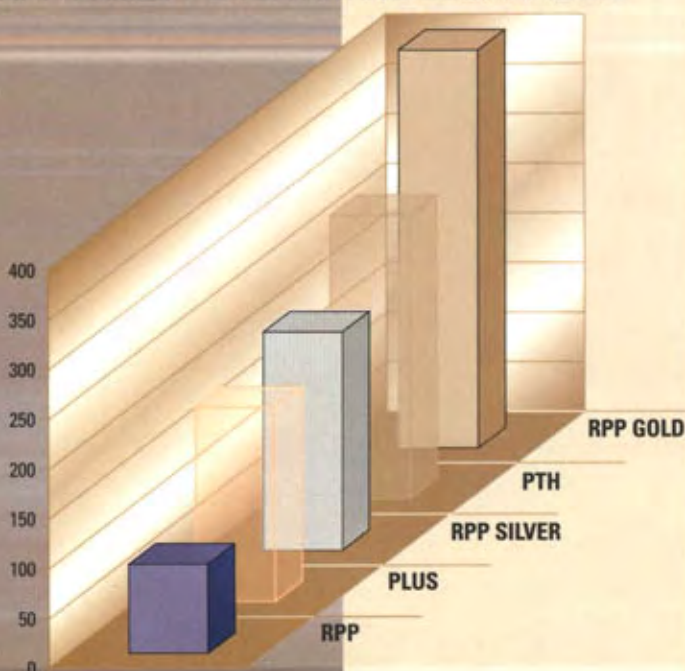
**RPP Gold**

In the last years Megadyne's research activity on timing belts has been focused on the development of a new hi-performance system, with the target to improve the "specific power" and to obtain new application opportunities against those alternative systems like gear's and chain, that have always had a disadvantage in terms of weight, noise, lubrication and maintenances costs.

**ISORAN RPP GOLD** belt system can be used in a virtually limitless range of industry application's where a high torque synchronous drive is required.

The new **ISORAN RPP GOLD** timing belt is constructed with the highest quality materials. The bonded strength of all components guarantees superior torque capacity. The new materials join forces to achieve the highest standard of quality and performance in the industry.

**RPP FAMILY POWER RATING COMPARISON**





# NEW ISORAN RPP GOLD STRUCTURE



1

**PRECISION GROUND NEOPRENE RUBBER BACKING**, designed for maximum resistance to ozone, oil, grease, heat build-up, sunlight and flex fatigue. Excellent for backside idlers.

2

## TENSION MEMBER.

The fibreglass cord is the load carrying element in the new RPP Gold belt.

The excellent characteristics of this cord guarantee incomparable tension stability both in static and dynamic conditions.

When compared with other aramid reinforced belts, the tension decay is around 50% less.

This characteristic can eliminate any kind of re-tensioning procedure, providing a real maintenance-free operation and guarantee a perfect tooth meshing, reducing abrasion, vibrations and noise. Furthermore the installation belt tension is reduced in comparison to the previous Panther belt around 25-35% with the advantage to increase the life of the other mechanical components.

3

## TOOTH FACING FABRIC

Hard wearing nylon fabric is bonded to the tooth surface to improve torque carrying capacity. The external fabric surface is impregnated with a special graphite, providing a self-lubrication feature which increases the efficiency of the drive while providing:

- Exceptional resistance to abrasion and tooth shear due to the low coefficient of friction.
- Increased drive efficiency.
- Increased belt and pulley life.

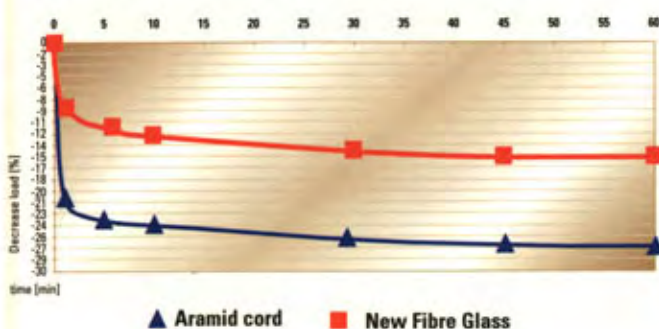
4

## BELT BODY

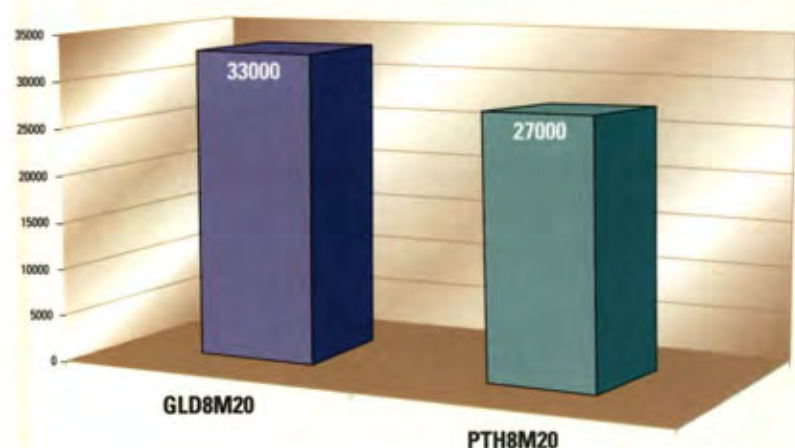
It's an innovative compound. The elastomer increases resistance to tooth shear up to 15% in comparison to the previous Panther belt. The compound guarantee an exceptional resistance to flex fatigue. According to the standards ASTM D318 the flexibility test shows an improvement in the flex fatigue resistance up to 500 times more than the previous version. Furthermore this compound is formulated to show considerable resistance to mineral oil, heat and ozone.

The higher tensile strength (10-20% than the previous Panther) and the superior flexibility of the new ISORAN RPP GOLD belt enables us to offer smaller, more compact drive systems thus offering lighter weight, higher performances and improved drive efficiency.

STATIC CREEP TEST

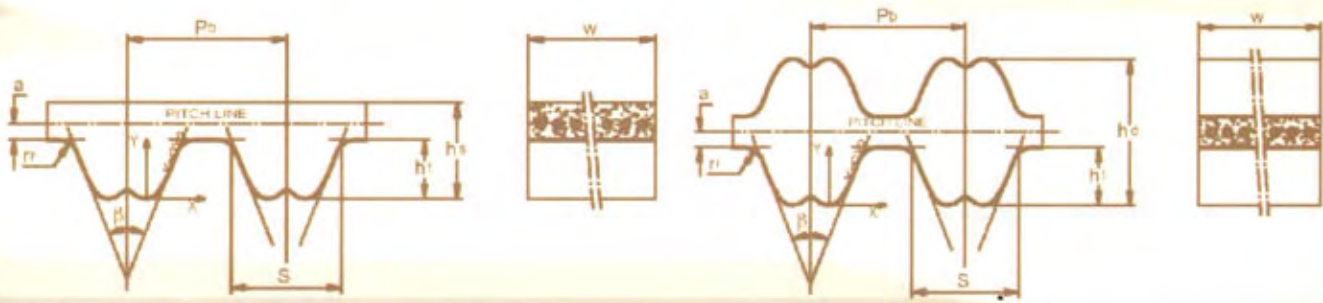


BREAKING LOAD COMPARISON PTH - GOLD





## BELT PARAMETERS



Belt type	Pitch	$\beta$	S	$h_s$	$h_d$	$h_t$	$r_r$	a
8 M	8 mm	$32^\circ$	5.5	5.4		3.2	1.00	0.686
14 M	14 mm	$32^\circ$	9.5	9.7		6.0	1.75	1.397
8 M-DD	8 mm	$32^\circ$	5.5		7.8	3.2	1.00	0.686
14 M-DD	14 mm	$32^\circ$	9.5		14.5	6.0	1.75	1.397

NOTE: On request, for special application the new **ISORAN RPP GOLD** belt construction is available even for RPP 5. For any requests please contact our technical department.

## NEW ISORAN RPP GOLD BELT ADVANTAGES

- ▶ **ISORAN RPP GOLD** systems offer drive energy efficiency up to 98%. This results in a reduction of energy consumption as much as 5% over other power transmission systems.
- ▶ Upgrade of the existing transmission without changing the pulleys.
- ▶ Perfect interchangeability with parabolic pulley profile RPP and HTD.
- ▶ Quiet, maintenance-free operation.
- ▶ Better tooth jump resistance.
- ▶ Excellent for backside idlers.
- ▶ Superior Antistatic Properties conforming to the BS 2050.
- ▶ The cord doesn't absorb moisture so the belts don't shrink or stretch like aramid belts.
- ▶ Belts require no special handling or storage considerations such as plastic bags and desiccants. The resulting dimensional stability assures consistent, reliable performance.

**NOTE: THE OLD PANTHER BELT CONSTRUCTION DOESN'T WORK WITH THE NEW ISORAN RPP GOLD PULLEYS OVER 100 TEETH. THIS ALSO MEANS THAT THE NEW ISORAN RPP GOLD BELT DOESN'T WORK WITH OLD RPP PANTHER PULLEYS OVER 100 TEETH.**



# AVAILABLE LENGTHS

## ISORAN RPP GOLD 8

PITCH AND LENGTH DESIGNATION	PITCH LENGTH [mm]	NUMBER OF TEETH
288-GLD8	288	36
320-GLD8	320	40
352-GLD8	352	44
360-GLD8	360	45
384-GLD8	384	48
408-GLD8	408	51
456-GLD8	456	57
480-GLD8	480	60
536-GLD8	536	67
544-GLD8	544	68
560-GLD8	560	70
600-GLD8	600	75
608-GLD8	608	76
632-GLD8	632	79
640-GLD8	640	80
680-GLD8	680	85
720-GLD8	720	90
800-GLD8	800	100
840-GLD8	840	105
880-GLD8	880	110
896-GLD8	896	112
920-GLD8	920	115
960-GLD8	960	120
1000-GLD8	1000	125
1040-GLD8	1040	130
1080-GLD8	1080	135
1120-GLD8	1120	140
1200-GLD8	1200	150
1224-GLD8	1224	153
1280-GLD8	1280	160
1352-GLD8	1352	169
1440-GLD8	1440	180
1464-GLD8	1464	183
1600-GLD8	1600	200
1760-GLD8	1760	220
1800-GLD8	1800	225
2000-GLD8	2000	250
2200-GLD8	2200	275
2400-GLD8	2400	300
2520-GLD8	2520	315
2600-GLD8	2600	325
2800-GLD8	2800	350
3048-GLD8	3048	381
3280-GLD8	3280	410
3600-GLD8	3600	450
4400-GLD8	4400	550

## ISORAN RPP GOLD 14

PITCH AND LENGTH DESIGNATION	PITCH LENGTH [mm]	NUMBER OF TEETH
966-GLD14	966	69
994-GLD14	994	71
1092-GLD14	1092	78
1106-GLD14	1106	79
1190-GLD14	1190	85
1260-GLD14	1260	90
1288-GLD14	1288	92
1344-GLD14	1344	96
1400-GLD14	1400	100
1442-GLD14	1442	103
1568-GLD14	1568	112
1610-GLD14	1610	115
1764-GLD14	1764	126
1778-GLD14	1778	127
1848-GLD14	1848	132
1890-GLD14	1890	135
1904-GLD14	1904	136
1960-GLD14	1960	140
2100-GLD14	2100	150
2240-GLD14	2240	160
2310-GLD14	2310	165
2380-GLD14	2380	170
2450-GLD14	2450	175
2590-GLD14	2590	185
2660-GLD14	2660	190
2800-GLD14	2800	200
3150-GLD14	3150	225
3360-GLD14	3360	240
3500-GLD14	3500	250
3850-GLD14	3850	275
3920-GLD14	3920	280
4326-GLD14	4326	309
4578-GLD14	4578	327
4956-GLD14	4956	354