

MAGNETIC PERPETUAL MOTION

MPM

I think I've invented a perpetual motion device. I did this seven years ago but have been too embarrassed to go against everything I have understood as scientific fact, to go public.

I believe I've shown that it works on paper – but I know it can't work. Clearly I did something wrong. I approached a fellow engineer; I gave him the parameters and asked that he do some analysis; I didn't give him the results. He analysed and came up with the same results.

The challenge I pose is this:

Please look at what I've done and tell me why it wouldn't work. [Follow the [Calculations Link](#) to check my work, follow the [Independent Verification Link](#) to check the computer analysis]. Surely there are scientists and mathematicians that can prove me wrong; do it as an intellectual challenge!

I've tried to have prototypes built but they have been awkward attempts; I'm not looking for money, I don't need investors – I need answers.

If you have the ability - **please build it!** [I've even provided [Design Drawings](#) – there are better options!]

In the very unlikely event that it works – no patent has been or will be sought; the world needs this more than any individual needs personal wealth.

Perpetual motion: “...the motion of a hypothetical machine which once set in motion would run for ever unless subject to an external force or wear.”

INTRODUCTION

MPM may well be the single most significant discovery since the original wheel. Humanity's global progress from simple mechanical devices to the present energy consuming machines and infrastructure support systems is evident everywhere. From time to time, various inventions, schemes and application to capture and transfer energy have been developed – none questioned the basics behind universal, cosmic perpetual motion or sub atomic perpetual motion.

We readily accept perpetual motion at the atomic and sub atomic level. Electrons do orbit and whilst susceptible to external forces they do rotate perpetually. Even in extreme energy deprived environments i.e. below freezing conditions and in the absence of energy from the sun, a lump of rock is still a lump of rock; its molecular structure, the constituent atoms are still there – and the electrons, perhaps geared down several quantum layers and slower, nevertheless are still orbiting as they should – this is perpetual motion in nature.

Scientific literature is full of facts on gravity and magnetism; it is also full of contradiction. Scientists have discovered orbiting planets that due to their size cannot be orbiting a distant sun – but they do; confident that we know it all?

Conservation of Energy and the Laws of Thermodynamics

Lets all agree that these laws dictate that there is no such thing as perpetual motion. Certainly we are believers in these fundamentals and the evidence that Newtonian physics works, at a practical level, surrounds us. But...

Perpetual motion is everywhere; perpetual motion is the base requirement for anything to exist. There is nothing in the perceived universe that is not in perpetual motion! The only thing that does not exist in our world is the state or rest. How can this be when we so confidently assert that perpetual motion does not exist?

We have become converts to the concept of dark matter and dark energy. We don't know how it works, why it exists and certainly don't understand its ability to interact with our environment.

Magnetism although significantly utilized in our machines and devices is not well understood. Given our definitions of force, work and the transformation of energy I posed the following questions to a PhD scientist:

“If I place a magnet onto a smooth, oily, metallic ceiling and the magnet stays there, is it doing work?” Of course he said no. The magnet is not doing any work; there is no force applied over any distance etc. So I surmised that clearly, was he to go to a play ground and hang off a horizontal “monkey bar” he could perceivably hang on for ever because he also would not have to exert any force or do any work. Conceding that he would tire and eventually fall off, I asked him why the magnet was different. Did gravity give up on it? Is it possible that the magnet continues to resist the force of gravity; that it is applying a counter force and that it is doing work and thus using energy to stay fixed to the ceiling? He couldn't answer.

To agree that the magnet is doing work he would have to acknowledge the expenditure of energy; leading to the obvious question of where the energy is coming from.

There are many ponderables that question our beliefs and test our interpretation of our physical realities; my point is simply that we may not know it all and that we should maintain an open mind on what may be possible.

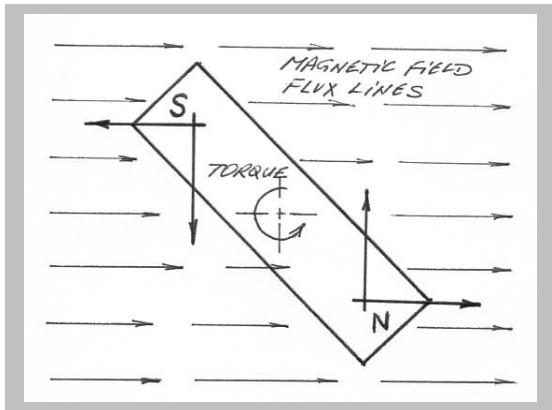
MPM - A SIMPLE CONCEPT

It is claimed that it is possible to construct a “wheel” that, with a particular placement of magnetic poles, will rotate and maintain perpetual rotation within an outer wheel exerting magnetic moments on the inner wheel.

BASIC CONFIGURATION OF THE MPM WHEEL

UNDERLYING PRINCIPLES

The MPM Wheel works because it utilises the magnetic moment [torsional force] that acts on a magnet situated in a magnetic field. The moment arises from the magnet's desire to align itself with the polarity of the magnetic field.



The strength of the forces acting on the magnet can be calculated using Coulombs Law:

$$F = m_1 m_2 / kr^2$$

Where:

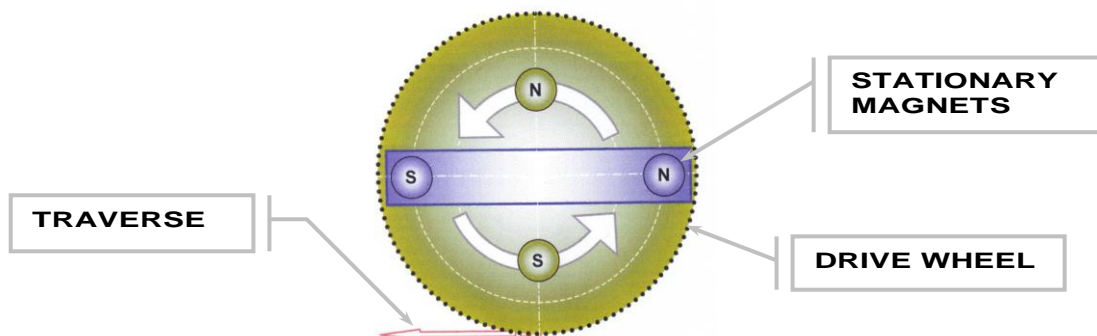
m_1 and m_2 are the strengths of the magnetic poles,

k is a constant, and

r is the distance between the poles.

DRIVE WHEEL

Drive wheels are rotated by torsional forces exerted on the wheel-mounted magnets by pairs of stationary push magnets. The wheel rotates about its axis and travels (traverses) from right to left.



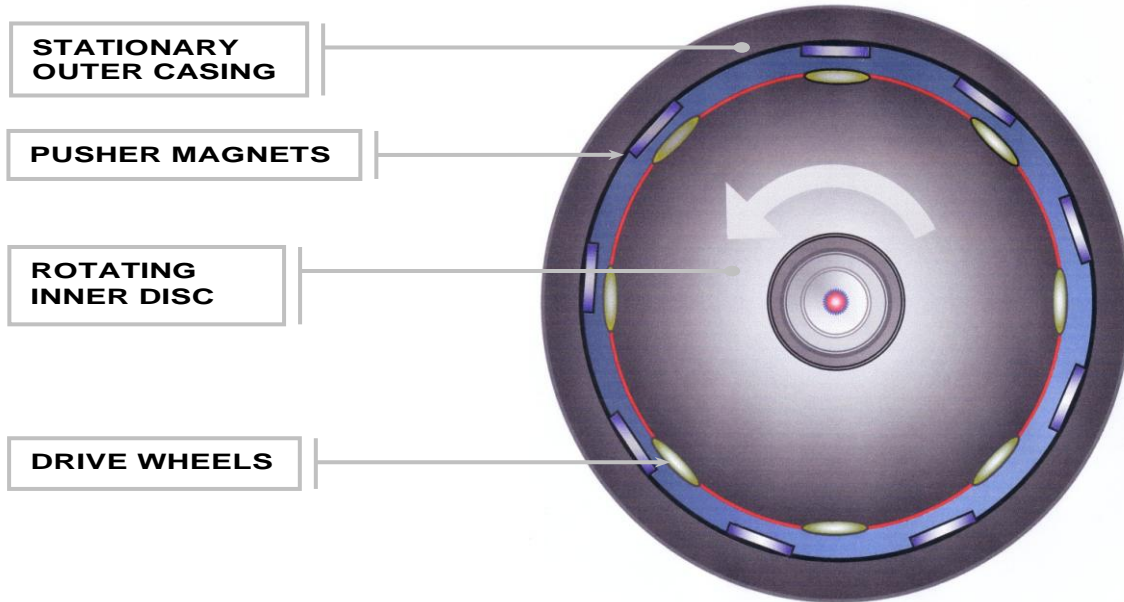
PUSHER MAGNETS

The pusher magnets are arranged along a circular track; the driver wheel passes from one pair to another but with different attitudes (non constant geometric placement of the driver wheel magnets).



Arranged as a disc, similar to a bicycle wheel, in a donut like configuration, the outer shell contains the pusher magnets. Inside this outer shell, is a rotating disc with driver wheels mounted on its edge.

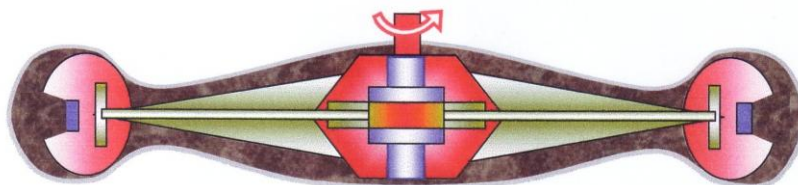
The rotation of the driver wheels “drives” and rotates the inner disc.



The rotation of the inner disc is transferred to the central core, which may be

- ❑ Fitted with an alternator to provide **electrical energy**, or
- ❑ Fitted with a gearing mechanism to provide a high-speed rotating axle i.e. direct **mechanical energy**.

A cross section of the simple rotating axle configuration is shown below:

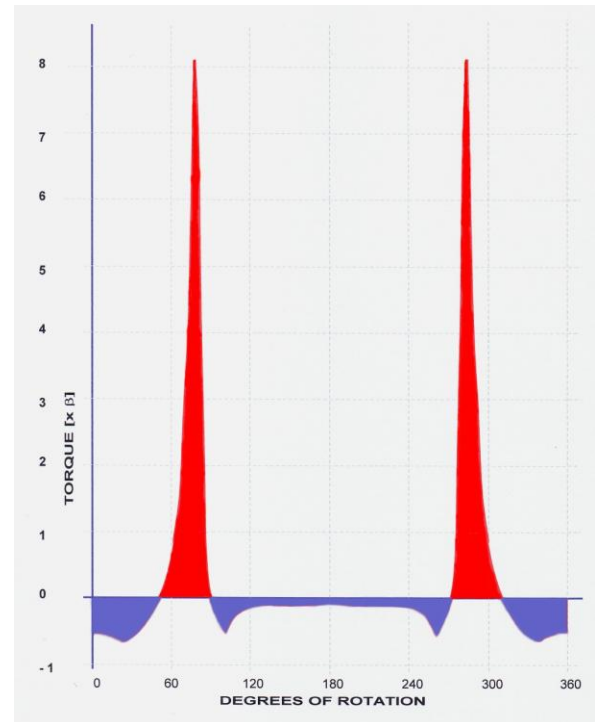
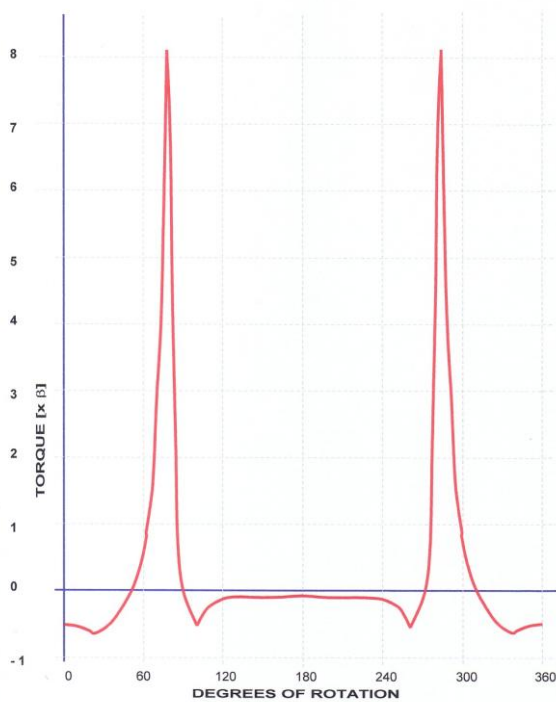


PERPETUAL MOTION

With the specific arrangements of magnets and the controlled direction of torsional forces acting on the drive wheels, there is a net torque that results in rotation of the MPM Wheel disc.

To achieve perpetual and continued rotation, all driver wheels must be specifically located and calibrated to ensure a net torque of all combined wheels drives the wheel disc.

To demonstrate that this is possible, examine the graph, which plots the torsional force acting on a single wheel through a complete rotation past its pusher magnets:



The total net torque acting on the drive wheel is area red less area blue in the graph above. Clearly, the red area is considerably larger (327%) and demonstrates that there is resultant positive torque acting on the wheel.

As previously stated, a single drive wheel could not rotate – it would simply come to rest at an equilibrium condition. It is the combination of many wheels, providing mutual torque to each other that keeps the disc rotating. At any given moment, when a drive wheel experiences negative torque, other drive wheels experiencing a larger, positive torque support it. Provided that there is a net difference (can be -ve, in which case rotation is in opposite direction) in the total summation of all the forces acting on all wheels – perpetual motion will be created and maintained.

In a prototype involving eight (8) driver wheels (working together), the net torque on the MPM Wheel was calculated to be $+ 381.36\beta$ ($\beta = \text{constant}$). This is significant when the maximum negative torque (as shown on the graph) is a mere $- 0.62\beta$.

COMBINED DRIVER WHEELS PROVIDING A COMBINED NET TORQUE THAT IS PERPETUAL MOTION

EXAMINING THE FORCES ON A WHEEL ROTATING AND TRAVELING BETWEEN TWO MAGNETS

Assumptions and Parameters

Magnetic Poles are considered as point forces.

The wheel is mechanically restrained to prevent motion in any direction other than rotation about its axis – rotation in either direction is possible.

Magnetic poles are designed to be of equal strength [$m_1 = m_2$].

Magnetic forces are resolved into tangential forces acting on the wheel using standard vector techniques.

Forces are calculated using Coulomb's Law:

$$F = m_1 m_2 / kr^2$$

Where:

m_1 and m_2 are the strengths of the magnetic poles,

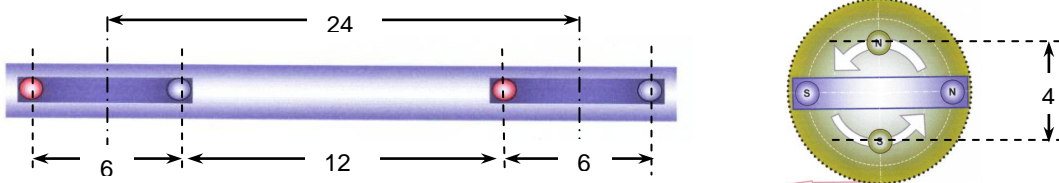
k is a constant, and

r is the distance between the poles.

The above equation is simplified to: $F = \beta/r^2$, where $m_1 m_2 / k$ is the constant β .

Geometry

Stationary “pusher” magnetic poles are positioned in pairs of opposing poles, 6 units apart [center to center] in a horizontal plane at the same level as the axle of the rotating wheel. These pairs of magnets are placed 24 units apart.



The “Drive Wheel” carries two magnets [opposing polarity] positioned 4 units apart on the wheel's diametric diagonal. The wheel is assumed to “drive” on a horizontal track i.e. it is traversing in the direction of rotation.

The wheel geometry is such that it will traverse 24 units in one revolution. That is:

$$1^\circ \text{ of rotation} = 24/360 = 0.0666 \text{ units}$$

The Drive Wheel is considered to be traversing from right to left [rotating anti-clockwise]. The sign convention adopted is:



Rotation and torque acting anti-clockwise is considered positive.

Analysis

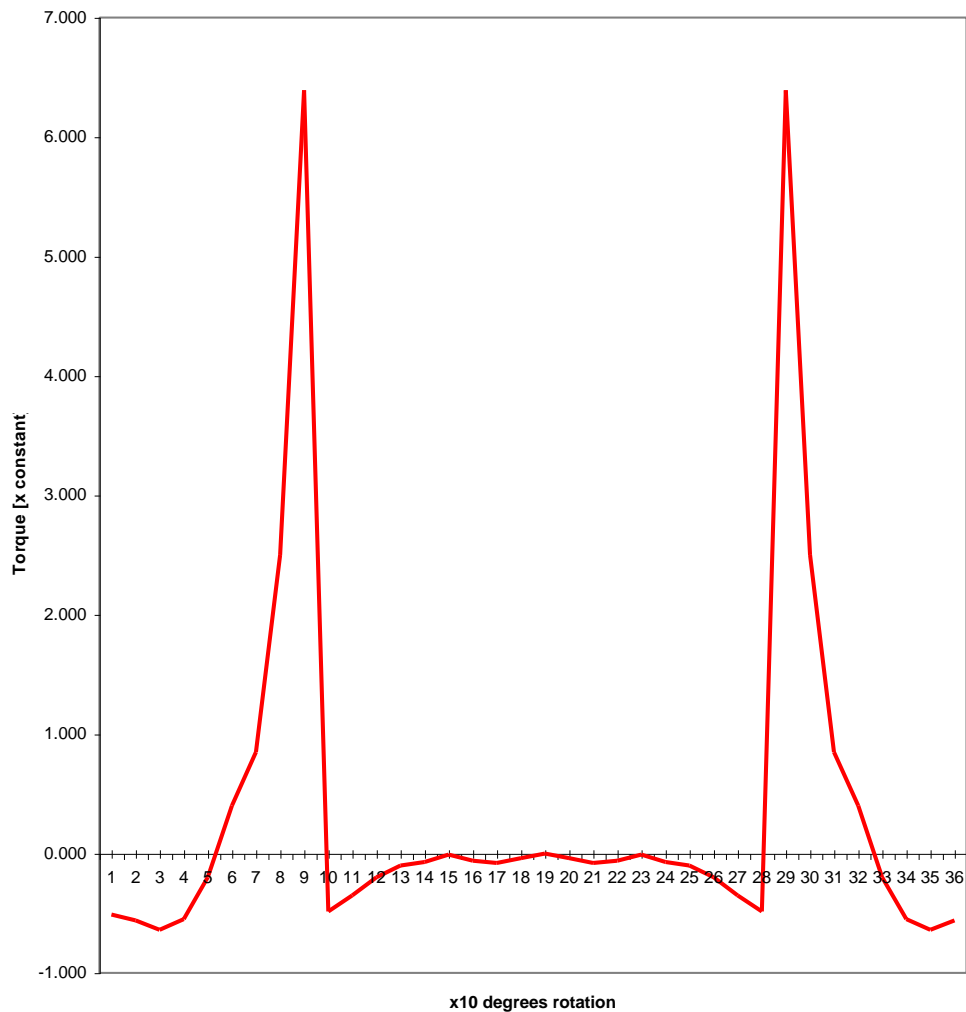
The Drive Wheel is assumed to be rotating [from right to left] and hence traversing in front of, and past, the pusher magnets.

Forces acting on the drive wheel are considered at 22.5 degree intervals, resolved into net torque acting on the wheel, [calculated separately] and tabulated below:

WHEEL POSITION [RELATIVE TO STARTING POSITION]		TORQUE
Rotation [deg]	Traverse [units]	[xβ]
0	0	-0.512
22.5	1.5	-0.624
45	3	+0.145
67.5	4.5	+1.882
77	5.133	+8.308
80	5.333	+6.392
90	6	-0.486
112.5	7.5	-0.164
135	9	-0.048
157.5	10.5	-0.062
180	12	0.000
202.5	13.5	-0.062
225	15	-0.048
247.5	16.5	-0.486
270	18	-0.164
292.5	19.5	+1.882
315	21	+0.145
337.5	22.5	-0.624
360	24	-0.512

Plotting the above torque values:

Torque Analysis



Verification Point

It is asserted that there is a net resultant positive torque on the wheel as it completes one revolution. The point to be established is simply:

The forces acting on the wheel are NOT in equilibrium.

The proposition is that provided that there is a net difference then this difference can be harnessed to create perpetual rotation / motion.

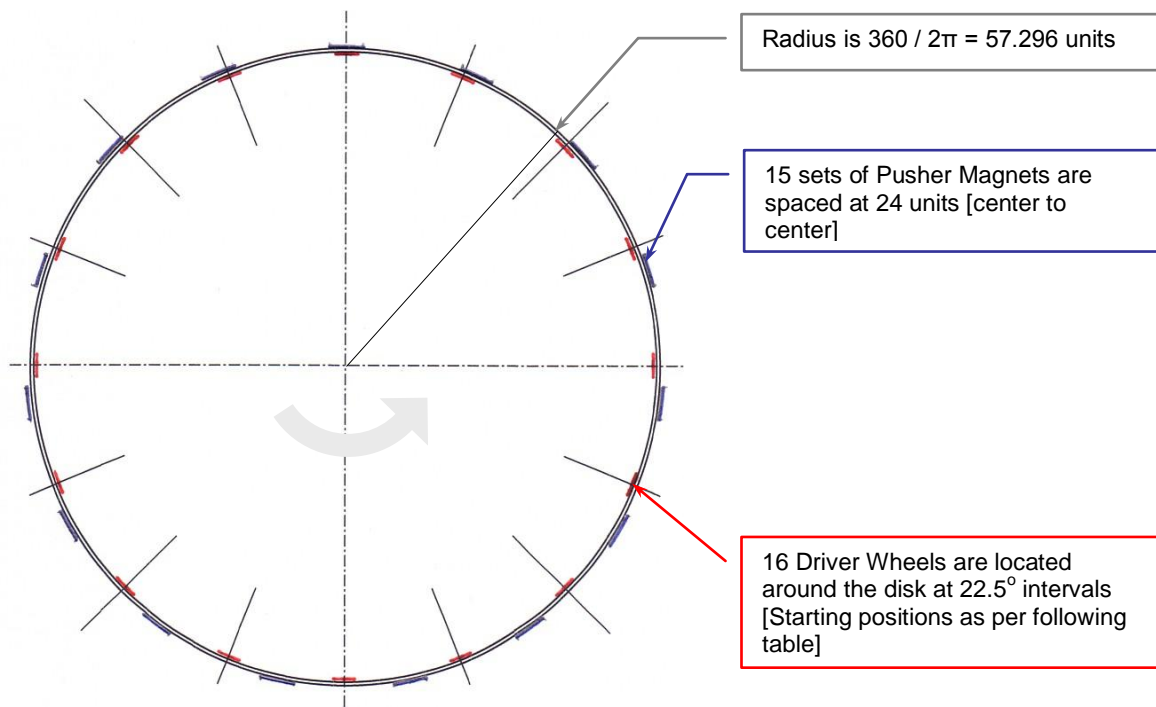
DRIVER WHEELS DRIVING THE DISC

From the above it can be seen that:

- ❑ The wheel would not turn (traverse from left to right) unassisted, as the torque is initially negative.
- ❑ The net torque is positive.

Combining a number of driver wheels as described below, ensures that the net torque produced by all driver wheels, at any given time, is positive.

Consider 16 driver wheels attached to a disc as shown:



The resultant total torque produced by the drive wheels in the direction shown is:

Starting Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Position	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	
	-0.512	-0.624	0.145	1.882	-0.486	-0.164	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	0.774
	-0.624	0.145	1.882	-0.486	-0.164	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	0.774
	0.145	1.882	-0.486	-0.164	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.774
	1.882	-0.486	-0.164	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	0.774
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	-0.164	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882	-0.486	0.774
	-0.048	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882	-0.486	-0.164	0.774
	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882	-0.486	-0.164	-0.048	0.774
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	-0.062	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882	-0.486	-0.164	-0.048	0.774
	0	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882	-0.486	-0.164	-0.048	-0.062	0.774
	-0.062	-0.048	-0.164	-0.486	1.882	0.145	-0.624	-0.512	-0.624	0.145	1.882						