

kodizak *POLYdrive*[®] **DRUMS**

H.I. - TEC
ANTRIEBSTECHNIK GMBH

HIGH COEFFICIENTS OF FRICTION

LOW BELT TENSION

ANTI-MAGNETIC

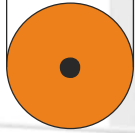
LONG LIFE



POLYdrive®
Kodiak DRUMS

The renewing of worn friction linings was yesterday – today **POLYdrive® Kodiak DRUMS** are used for conveying.

The revolutionary polymer coating allows for an easy conveyance of bulk material even when other friction linings would have long given up especially in wet conditions. High coefficients of friction, extremely acid resistance and its anti-magnetic behavior make the **POLYdrive® Kodiak DRUMS** the first choice of modern bulk material goods conveyance.



220

250

320

400

500

630

830

1000



• **PVA**

Whether drive drums in solid body (•PVA) or tension design (•PSA), you will always be served with the highest possible level of reliability and tractive power.

Our knowhow allows us to offer an upgrade of your existing drums applying our polymer casting technology (•PRA). The drum body delivered is cast onto the closest possible drum diameter (see chart).

• **PRA**



• **PSA**

- Shaft executed in St52.3 (S355J2R) or stainless steel.
- Individual production based on customer drawings.
- High quality shaft-hub-connection with locking devices (e.g. System – Bikon).

Working-Conditions	Friction Linings				
	Uncoated steel roller sleek	Polyurethane friction lining (arrow grooving)	Rubber friction lining (arrow grooving)	Ceramics friction lining (arrow grooving)	POLYdrive® Kodiak DRUMS
dry	0,35 - 0,4	0,35 - 0,4	0,4 - 0,45	0,4 - 0,45	0,80
wet	0,1	0,35	0,35	0,35 - 0,4	0,86
wet (with clay etc. contaminated)	0,05 - 0,1	0,2	0,25 - 0,3	0,35	0,80

Dealer Händler Revendeur Negociante

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drive drums for **highly efficient** conveyance
at **maximum efficiency**

About us:

- Over 25 years of operational experience in Construction and conveying technology.
- Exclusively German manufacturing.
- From H.I.-TEC developed, highly innovative friction lining in polymer casting technique that is not offered by any other competitor.
- Our customers experience gives us the confidence to grant a **4 years H.I.-TEC warranty*** on the drum shell.

That's what we heard from our customers:

- Highest coefficient of friction for easy plant operation especially with so-called "problem ribbons".
- Excellent drawstring casing in extreme wet area prevents the drum slip.
- Significantly lower belt tension at a constant flow rate leads to the relief of the system components (belt, shaft, bearings, etc.).
- High system utilization with maximum service life of the H.I.-TEC - drums lead to cost minimization in conveyance.
- Universal problem solver, by antimagnetic behavior and utmost acid resistance, especially for the recycling industry.

*= see guarantee regulations



or ...

the importance of the friction coefficient!

The friction coefficient of the drive barrel, the wrap angle and the pre-tensioning all determine the transmission of tangential force.

The dimensions of the barrel, the pre-tensioning and diverse other equipment depend primarily on the friction coefficient.

In practice, the friction coefficient fluctuates widely and depends on:

- Type and surface texture of the barrel
- Lubricants between the belt and the barrel such as water and grease
- Temperature
- Bearing pressure
- Slip velocity and sliding speed

POLYdrive kodiak DRUMS demonstrates its strength in these areas,

even with

remarkably low band tension !

