

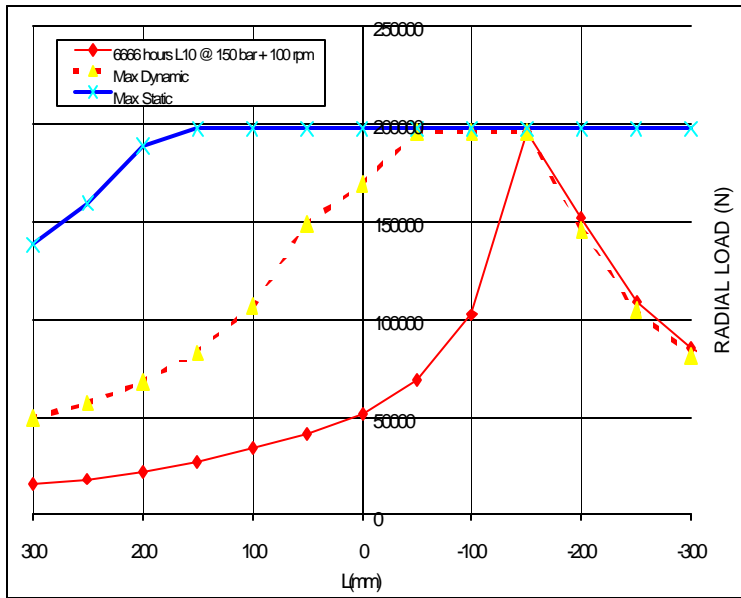
# TECHNICAL DATA SHEETS

## RADIAL LOAD CAPACITY

### Rotary Power **XK40** Drum Brake

1,2	3,4	5	6,7	8	9	10
XK	40	-	--	E	A/C/H	1

**STANDARD DUTY**



For Combined  $F_a$  &  $F_r$  Dynamic:

$$F_{rmax} = \frac{(\text{Graph Max Dynamic Load}) - (F_a \times R)}{(L + 73)} \text{ --- [N]}$$

where;  $F_a$  = Axial Load --- [N]

$L$  = Axial Offset (see "Dimensions") --- [mm]  
(+ve is outboard of wheel flange)

$R$  = Wheel Rolling Radius ---- [mm]

$F_a$  ( $F_r = 0$ ):

Max Dynamic 30 KN

Max Static 38 KN

In Both Directions

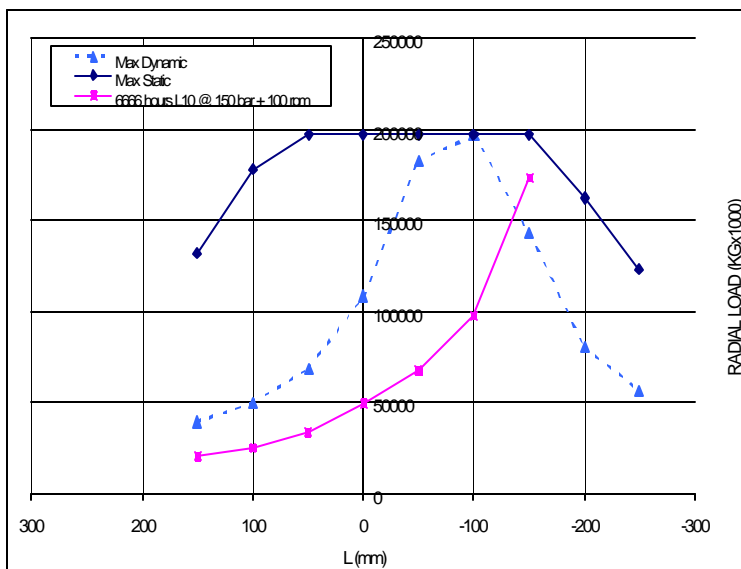
Graph L10 Values:

For any motor speed :-

$$L10 = \frac{6666 \times [100\text{rpm}]}{[\text{New Speed rpm}]} \text{ ----- hours}$$

1,2	3,4	5	6,7	8	9	10
XK	40	-	--	E	A/C/H	3

**LIGHT DUTY**



For Combined  $F_a$  &  $F_r$  Dynamic:

$$F_{rmax} = \frac{(\text{Graph Max Dynamic Load}) - (F_a \times R)}{(L + 102)} \text{ --- [N]}$$

where;  $F_a$  = Axial Load --- [N]

$L$  = Axial Offset (see "Dimensions") --- [mm]  
(+ve is outboard of wheel flange)

$R$  = Wheel Rolling Radius ---- [mm]

$F_a$  ( $F_r = 0$ ):

Max Dynamic 30 KN

Max Static 38 KN

In Both Directions

Graph L10 Values:

For any motor speed :-

$$L10 = \frac{6666 \times [100\text{rpm}]}{[\text{New Speed rpm}]} \text{ --- hours}$$