

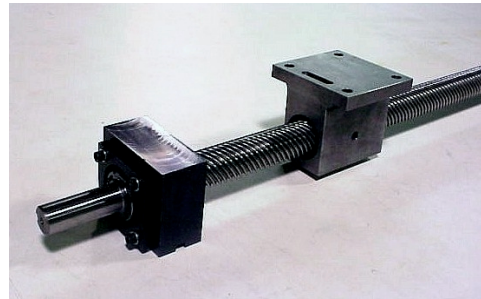
HSD1431 High Speed Drive

One complete HSD1431 High Speed Drive System consists of one DriTran epoxy composite nut, one TranTek drive screw and supports for each end. After considering all design criteria, use the ordering guide below to determine your standard part number. First, enter a three-digit *index length*, and then enter the letter that corresponds to your desired standard *mounting nut style*.

Typical Applications

- Medium duty loading and lifting
- Press-to-press transfer shuttles
- Automated parts assembly machinery

Specifications:	
Major Diameter	1.437"
Minor Diameter	1.197"
Screw Lead	3.00"
Thread Starts	12
Thread Flank Angle	22.5°
Nut Length	5.0"
Load Surface Area	13.8in ₂

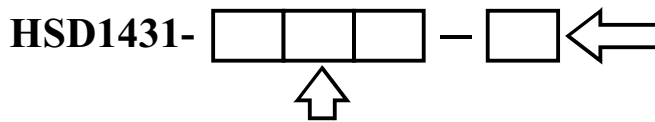


Optional Length Characteristics

Available Index *	Threaded Screw Length	Unsupported Screw Length	Total Screw Length	Critical R.P.M.	Critical Speed (ips)
36"	45.5"	45.5"	49.63"	4911	246
42"	51.5"	51.5"	55.63"	3833	192
48"	57.5"	57.5"	61.63"	3075	154
54"	63.5"	63.5"	67.63"	2521	126
60"	69.5"	69.5"	73.63"	2105	105
66"	75.5"	75.5"	79.63"	1784	89
72"	81.5"	81.5"	85.63"	1531	77
78"	87.5"	87.5"	91.63"	1328	66
84"	93.5"	93.5"	97.63"	1163	58
90"	99.5"	99.5"	103.63"	1027	51
96"	105.5"	105.5"	109.63"	913	46
102"	111.5"	111.5"	115.63"	818	41
108"	117.5"	117.5"	121.63"	736	37

* Extra room is available for shocks, bumpers, hard stops, or other design considerations

Ordering Guide



Enter a three-digit index length. For example, for a 36" index length enter "036". For available index lengths, see optional length characteristics table, above.

Mounting Nut Style

B = Block
F = Foot
R = Round

Refer to drawings on previous page.

