



Farm Machinery Testing and Training Centre
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SPECIFICATION SHEET OF TRACTOR OPERATED THRESHER

1	General		
	Name and address of manufacturer	:	
	Name and address of applicant	:	
	Name of machine	:	
	Type	:	
	Make	:	
	Model	:	
	Batch No/Code No.	:	
	Feed rate, kg/h	:	
	Serial No	:	
	Recommended drum speed, rpm	:	
	Output capacity, kg/h	:	
	Year of Manufacture	:	
2	Power unit		
	a) Type of prime mover	:	
	b) Recommended power, hp	:	
2.1	Power Transmission		
	Method of transmission	:	
2.2	Propeller shaft		
	Type	:	
	Length of shaft, mm	:	

	Maximum : Minimum :		:	
	Mass of shaft, kg		:	
	Provision of locking		:	
	Hub Dimension, mm Refer Fig 1 As per IS 4931:1995			
	Notations	As per IS:4931:1995, mm	As observed, mm	Remarks
	Dø	34.93 ± 0.03		
	dø	29.7 ± 0.7		
W	8.69 (Min)			
B	--			

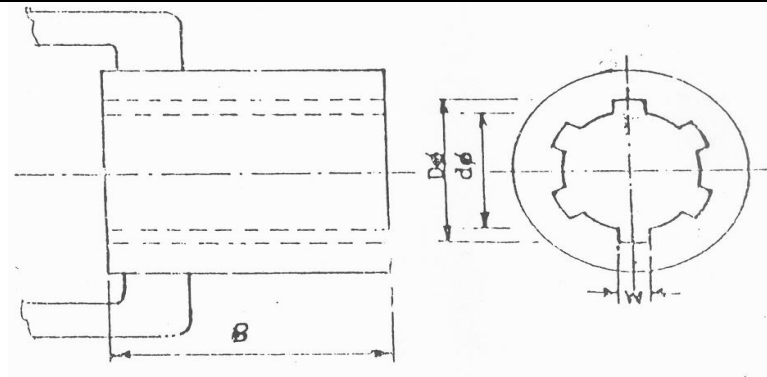


Fig 1 Hub dimensions, mm

2.3	Splined end of pinion shaft
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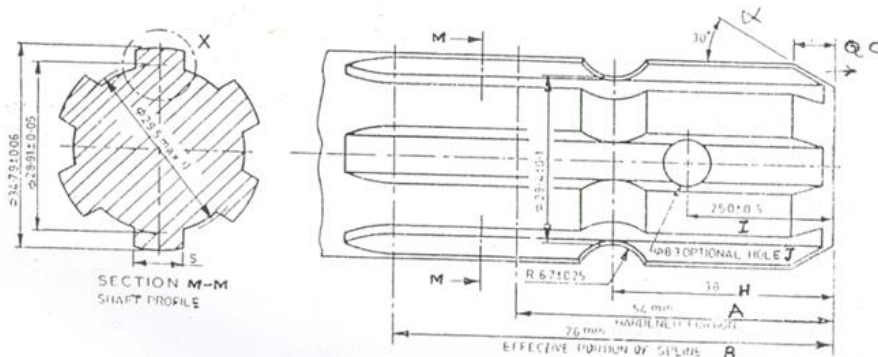
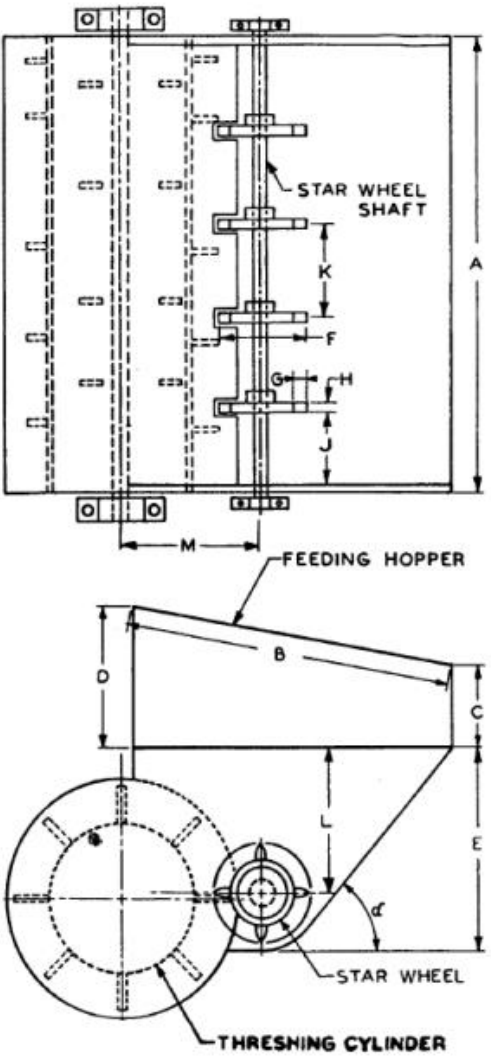


Fig 2 Dimensions of splined end of pinion shaft, mm

	Specification	As per IS: 4931-2004	As observed	Remarks
	D ϕ	34.79 \pm 0.06		
	d ϕ	28.91 \pm 0.05		
	B ϕ	29.4 \pm 0.1		
	S	8.69		
	R	6.7 \pm 0.25		
	α	30°		
	G	7		
	H	38		
	A	54 (Min.)		
	B	76 (Min.)		
	I	25 \pm 0.5		
	J (optional hole)	8.3		
3	Main Frame			
	Type	:		
	Size, mm	:		
	Constructional details:			
4	Crops to be threshed			
	a) Main crop	:		
	b) Other crops	:		
5	Main drive			
	Type	:		
	Size of belt	:		

	Size of driving pulley, mm	:		
	Size of driven pulley, mm	:		
	Alternate Pulleys			
	Size of driving pulley, mm	:		
	Size of driven pulley, mm	:		
	Diameter of main shaft, mm	:		
6	Threshing unit			
	Type	:		
	Diameter, mm	:		
	Width, mm	:		
	Recommended speed, rpm	:		
	No. and size of bearing	:		
	No. and size of stud/wire loop/bar/hammer	:		
7	Concave			
	Type	:		
	Diameter, mm	:		
	Width, mm	:		
	Recommended concave clearance	:		
	Method of clearance adjustment	:		
	Method of fixing	:		
8	Sieve	:	Crop 1	Crop 2
	Type of crop	:		
	Type	:		
	Number	:		

	Total length x width, mm	:		
	Effective length and width, mm	:		
	Size of hole, mm	:		
	Sieve clearance range, mm	:		
	Screen slope range	:		
	Recommended screen slope	:		
	Method of mounting	:		
9	Shaker			
	Type	:		
	Number of strokes per minute	:		
	Drive	:		
	Number and type of bearings	:		
10	Blower			
	Number	:		
	Type	:		
	Number of blades	:		
	Size of blades, mm	:		
	Diameter, mm	:		
	Recommended speed, rpm	:		
	Recommended air displacement	:		
	Provision for changing air displacement	:		
	Size of outlet opening, mm	:		
	Nos. & Size of inlet opening, mm	:		
	Drive	:		
	Number and type of bearing	:		

11	Crop feeding				
	 <p style="text-align: center;">Fig 1 Feeding hopper with feed roller</p>				
11.1	Specifications of Hopper and Feed Roller (Refer Fig 1)				
	Sr. No	Notation	As per IS: 9020-2002, mm	As measured, mm	Remarks
	1	A	400 mm more than the length of threshing cylinder i.e. 470		
	2	B	900 (Min.)		
	3	C	180 (Min.)		

	4	D	340 (Min.)			
	5	E	75(Min.)			
	6	F	280			
	7	G	45			
	8	H	20			
	9	J	75			
	10	K	220			
	11	L	350			
	12	M	450			
	13	$\alpha \pm 5$	50 \pm 5			
	14	Sheet thickness	1.6 (Min.)			
	To facilitate easy and smooth feeding of the crop during the operation, the feeding chute shall be properly mounted on the thresher.			:		
	No sharp edges shall be provided on the feeding chute			:		
	The feeding chute shall be so fixed with the thresher that it is not possible to remove it easily.			:		
	Recommended maximum feed rate			:		
12	Transport					
	Type			:		
	Number of wheels, Nos.			:		
	Size of wheels, inch			:		
	Wheel bearing			:		
	Size of wheel guard, mm			:		
	Type of towing arrangement			:		
13	Parking Stand:					
	Numbers of stand, Nos.			:		
	Size, mm			:		

	Nos. of holes and distance between two holes, mm	:	
14	Flywheel		
	Number	:	
	Size, mm	:	
	Mass, kg	:	
15	Overall dimensions		
	Length, mm	:	
	Width, mm	:	
	Height, mm	:	
	Ground clearance, mm	:	
	Total mass, kg	:	
16	Marketing/Labelling		:
	Sr. No.	Parameters	:
	1	Manufacturer's name and recognized trade-mark, if any:	:
	2	Model number	:
	3	Batch or code number, or Sr. No. if any	:
	4	Power rating, hp	:
	5	Revolutions per minute of the threshing drum and its direction of rotation	:

Place:

Date:

Signature:_____

Name:_____

Designation:_____