

## TSF SWIVELS

### GENERAL CAUTIONS

Ratings or Working Load Limits (WLL) shown in Nobles literature and stamped onto swivels apply only to new or as new condition products. The working load limit can be affected by intentional alterations, damage, corrosion, misuse and special conditions of use. Always have your swivels regularly inspected by a competent person who may suggest repairs or condemn your swivels should anything such as the above be deleterious to the WLL.

Shock loading can greatly increase the actual loads placed on a swivel. Extraordinary conditions such as shock loading must be taken into account when selecting products for use in swivel systems.

The WLL which applies for any Nobles swivel is only for the use of the swivel as a lifting swivel under slow pivoting type rotation. The WLL applies only for pure axial loading.

Swivels must always be correctly selected and fitted for every lift. Attention must be paid to the balance and security of the load.

Never weld any part of a swivel without consulting the manufacturer. Special steels are commonly used and special welding procedures and precautions may be necessary.

### IMPORTANT

For maximum safety and efficiency, swivel lifting systems must be properly designed, used and maintained. You must understand the use of swivels in a lifting system. These instructions, and the standards to which they refer may use technical words and detailed explanations. **IF YOU DO NOT UNDERSTAND ALL WORDS AND DIAGRAMS - DO NOT MAKE ASSUMPTIONS AND GUESSES AND DO NOT USE A LIFTING SWIVEL.** For further assistance and training support contact your nearest Nobles branch.

### SWIVELLING UNDER LOAD

Nobles swivels are primarily designed for lifting tasks. As such our swivels are suited to the speeds and duty cycles associated with lifting where rotations are slow, intermittent and often induced by hand.



### WARNING

- Nobles swivels should not be used on the end of equipment applying powered rotation such as drilling and boring machines. Where such an activity is anticipated please seek the advice of Nobles' engineering department.
- Use of swivels in towing applications may cause sudden rotation or high rotation speeds that may damage a lifting swivel

### SAFE LIFTING

Please refer to the further advice overleaf and heed the cautions below.



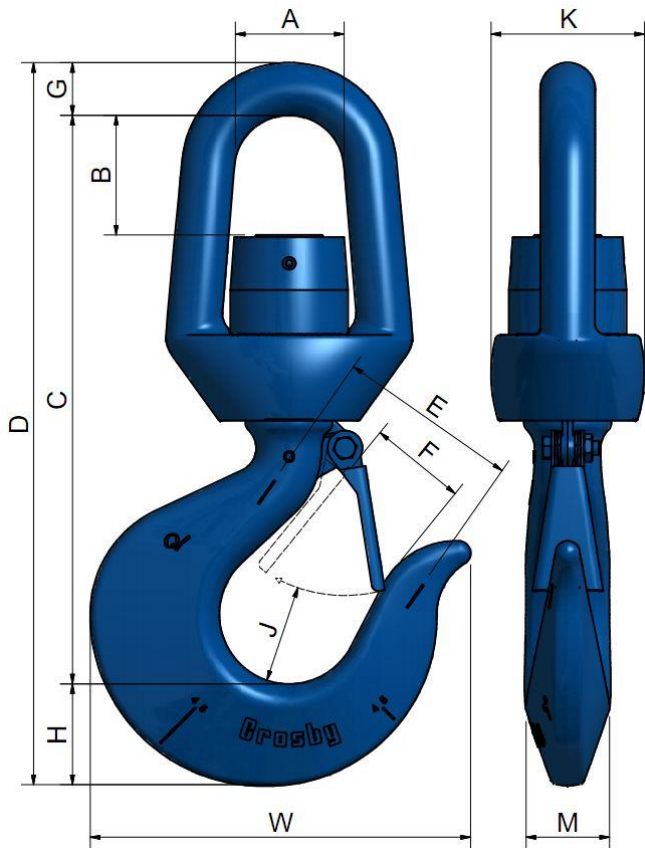
### WARNING

- Improper use of this product could result in death or serious injury.
- Never exceed the working load limit.
- Apply only axial loads to the swivel.
- Never hoist loads over or near people.
- Always operate, inspect and maintain this equipment in accordance with relevant safety standards.
- Always check the security of the swivel nut.
- If you are ever in doubt how to safely use this product contact your Nobles branch for advice - Don't Guess!
- Swivels must be subject to proof load testing in accordance with AS2318-1990 prior to being put into service or after any repair. Testing must be in accordance with our procedure to protect the bearing fitted. Please seek our advice before proof testing.
- Always ensure that the load is properly supported by the hook. Never support loads by the hook tip or latch.

## TSF SIZES

In order to standardise some of the larger TSF swivel hooks and to better satisfy the needs of customers, the TSF range has been revised.

TSF hooks all incorporate a proper roller thrust bearing so as to be able to safely rotate loads. This facility makes the Nobles TSF hook a simple way of adding rotation under load capability to a lifting system.



## WARNING

- Regularly inspect your hook for signs of wear. Original as forged dimensions are provided for reference.
- Inspections shall be carried out by a competent person who may condemn or recommend repairs to a swivel based on condition of the swivel and the data below.
- The deformation indicators are a pair of raised lines forged into the hook for enduring reference to check for hook deformation (opening out).
- The Angle Indicators are a pair of raised lines forged into the hook for enduring reference and show the maximum included angle which is allowed between two (2) slings in the hook.

## SPECIAL APPLICATIONS

Properly cared for, a Nobles TSF swivel will give reliable service for many lifts in a general purpose environment.

Nobles can supply TSF type swivels to comply with special surface treatment, certification & design requirements. Please discuss your special requirements with us.

STOCK CODE	WLL (tonnes)	A (mm)	B (mm)	C (mm)	D (mm)	DEFORMATION INDICATOR E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	M (mm)	W (mm)	CROSBY ALLOY HOOK CODE	ASS'Y TARE (kg)
STANDARD TYPE															
NJTSF015	1.5	44	30	161	205	50.8	29.5	16	29.0	29.5	38.1	23.9	102	H	1.5
NJTSF03	3	57	54	214	273	63.5	34.5	22	36.6	38.9	54.0	28.7	123	I	3.5
NJTSF06	6	79	77	268	346	76.2	40.9	32	46.2	49.3	79.0	36.6	160	J	7
NJTSF10	10	104	107	360	459	101	53.0	38	57.5	62.5	104	41.4	192	K	14.5
NJTSF125	12.5	104	100	377	481	101	57.5	38	66.0	66	95.5	49.3	212	L	16.5
NJTSF160	16	98	124	465	591	127	76.5	48	76.5	71.5	140	60.5	263	N	34.5
NJTSF200	20	98	139	466	609	127	76.5	48	76.5	71.5	140	60.5	263	N	37
NJTSF250	25	98	109	518	658	165	82.5	48	92.0	87.5	140	76.0	346	O	48
NJTSF300	32	98	111	599	764	175	76.0	48	116.0	98.5	140	76.0	357	P	68
ARTICULATED CRANE TYPE (FRANNA)															
NJTSF100F	10	76	138	396	493	101	53.0	40	57.5	62.5	114	41.4	192	K	18
NJTSF120F	12	76	134	410	515	101	57.5	40	66.0	66	114	49.3	212	L	20
NJTSF170F	17	76	127	454	570	127	76.5	40	76.5	71.5	114	60.5	264	N	26
NJTSF200F	20	98	149	484	608	127	76.5	48	76.5	71.5	140	60.5	264	N	36

TSF style hooks are regularly produced in other sizes to suit particular applications and can be produced in custom configurations when required.