

Operating instructions for attachment points (TAPG (-S) / TPB (-S) / TAPS / TAPS-E / TAPSK)

General principles regarding the utilisation of lifting accessories and their components:

The operating instructions are to be stored together with the certificate and the EC declaration of conformity.

The falling of loads, caused by the failure and / or incorrect utilisation and handling of lifting equipment or its individual parts constitutes a direct risk to the life or health of the people who are present in the danger zone of lifting processes.

These operating instructions contain information with regard to the safe utilisation and handling of the lifting accessories and their components. Before using the lifting equipment, the assigned persons are to be briefed with regard to handling and utilisation by a qualified person.

The following principles apply:

- The Working Load Limit (WLL) (see label) of the lifting equipment must correspond to the load. The lifting equipment may not be used if the label is missing or is illegible.
- No danger areas (e.g. crushing points, cutting points, trapping or impact points) may occur that may hinder or endanger the person carrying out the slinging process and / or the transport.
- The base material and the constructive design of the load must be able to hold the applied forces without deformation.
- Stress that leads to a non-uniform load distribution, e.g. which is caused as a result of an off-centre introduction of force must be taken into account when selecting the lifting accessories and their components.
- In the event that extreme stress or strong dynamic strain (shock influences) may occur, this must be taken into account when selecting the lifting equipment and the Working Load Limit (WLL).
- The lifting equipment may not be used for the transportation of persons. No persons are ever permitted to remain present in the danger area of a suspended load.
- The lifting equipment may not come into contact with acids and other aggressive agents. Attention must also be paid to the fact that acid fumes may occur in certain production processes.
- Never make unauthorised amendments to the lifting equipment (e.g. grinding, welding, bending, and attachment of parts)!
- The lifting equipment may not be exposed to any forbidden manipulation of temperature.
- Only original spare parts may be used.
- The relevant additional regulations must be observed when transporting hazardous substances.
- Lifting accessories and their components must be stored in such a manner that they are protected against being damaged and do not cause any danger.
- If damaged, the lifting equipment must be immediately taken out of circulation and has to undergo maintenance work.
- When ready to be discarded, lifting equipment is to be correctly disposed of. Attention: Any substances present that are hazardous to the environment (e.g. greases and oils) are to be disposed of separately.

Inspection and maintenance:

On a regular basis before being used, lifting equipment is to be closely inspected with regard to correct utilisation and faultless condition (e.g. screw fit, absence of strong corrosion and deformation, etc.), for example by the person carrying out the slinging process. Defective lifting equipment may not be used. It has to be tested at least once a year by a qualified person whilst taking the relevant standards and trade association regulations (e.g. DGUV Regel 109-017) into account. Every three years lifting equipment must be tested by a qualified person using a proper testing device in order to check that the product is free of cracks. The user must observe the results of the risk assessment in accordance with the occupational safety directives. The re-testing period is shortened in the event that the products are exposed to critical operating conditions. Inspection records are to be kept.

The testing coefficient (EC-Machinery Directive 2006/42/EC point 4.4.1) is defined according to the respective standards and corresponds to 2.5.

Attention: In the event of violation, the operating permission will become void.

General assembly instructions

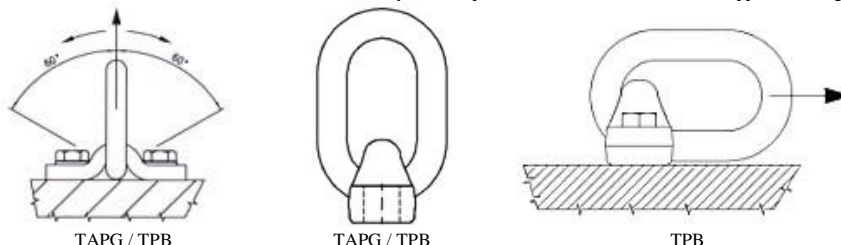
The attachment points must be easily recognisable on the load (e.g. by means of coloured marking). The attachment points are to be positioned on the load in such a manner that a flat bearing surface is created that is suitable for lifting the anticipated introduction of force.

The sling points are to be attached to the load so that:

- They are easily accessible without hindrance in order to attach and release the lifting equipment.
- The quantity and arrangement of the attachment points must be selected in such a manner that the load does not unexpectedly move position during transport.
- The attachment point may not be rotated whilst under load nor be used in order to turn the load.

Attention: Ensure that the link is correctly mounted and positioned.

The load binder must be set in the tensile direction and it must be able to move freely. The suspended load is not allowed to be supported at edges or on the attachment point.



The following must be observed when assembling the TAPG (-S) / TPB (-S):

These products are to be tightened using a spanner until flush with the bearing surface. Tightening torques are stated and must be observed (Table 1). It must be checked that the correct screw size, thread size and screw-in length is used. When dealing with blind holes, the thread depth must be at least 1.1 times of the screw-in length.

We recommend the following as the minimum screw-in lengths:

in steel	1	x d	
in cast iron	1.25	x d	in cast iron with strengths < 200 MPa min. 1.5 x d
in aluminium	2.5	x d	
in aluminium-magnesium alloys	2	x d	

(whereby d = thread size, e.g. when M 24 d = 24 mm)

When dealing with through holes, only the following diameters may be drilled: Nominal thread dimension of the screw + 1 mm.

The screw-down saddle also serves as the marking template. When dealing with **TAPG**, only screws with a minimum strength class of **8.8 EN 24014 (DIN 931)** may be used and only screws of **strength class 10.9** may be used with dealing with **TPB**. Only **crack-tested screws** may be used. Non-metric threads may not be used under any circumstances. In such cases, an enquiry regarding these special executions must be made with the manufacturer JDT. Clearance can only take place after prior inspection by JDT.

In the event that TAPG / TPBs are secured with screw nuts, these nuts must correspond to strength class 8 / 10 and be crack-tested.

When dealing with weldable attachment points (TAPS/TAPS-E/TAPSK), the separate welding information (SA 00 001 xx) is to be observed.

Before welding the TAPS sizes 20 to 63 the auxiliary sheet needs to be removed from the base plate.

Working load limit, temperature use and screw tightening torques

The respective working load limits are marked on the eye retainer and are listed below in tabular and graphic form. These working load limits may not be exceeded. In case of an asymmetrical load distribution, the working load limit applicable to the 2- to 4- leg sling types is the same as for 1-leg sling type with an inclination angle of 90° or the min. WLL. This corresponds to the working load limit marking on the attachment point.

If the load is transverse to the swivel direction, the nominal working load limited (90°) must not be exceeded.

Table 1
 TAPG (-S)



Anschlagart kind of attachment	1		2		2		2		3 o. 4		3 o. 4		Schraube screw [mm]	Anziehdreh- moment Tightening torque [Nm]
	Stück / number of pieces	Neigungswinkel Inclination angle	Nominal WLL min. WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]				
TAPG 3	3	0°	3.15	4.75	9.3	4.25	3.15	6.7	4.75	M20	210			
TAPG 5	5	0°	5.3	8	16	7.5	5.3	11.2	8	M24	290			
TAPG 8	8	0°	8	12	24	11.2	8	17	11.8	M27	550			

TPB (-S)



Anschlagart kind of attachment	1		1		2		2		2		2		3 o. 4		3 o. 4		Schraube screw [mm]	Anziehdreh- moment Tightening torque [Nm]
	Stück / number of pieces	Neigungswinkel Inclination angle	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]						
TPB 15	15	0°	15	15	30	30	21,2	15	31,5	22,4	M36	675						
TPB 20	20	90°	20	20	40	40	28	20	42	30	M42	1050						
TPB 25	25	0°	25	25	50	50	33,5	25	50	37,5	M45	1400						
TPB 30	30	90°	30	30	60	60	42	30	63	45	M48	1900						
TPB 32	32	0°	32	32	64	64	45	32	67	47,5	M56	2150						

TAPS



Anschlagart kind of attachment	1		1		2		2		2		2		3 o. 4		3 o. 4	
	Stück / number of pieces	Neigungswinkel Inclination angle	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]				
TAPS 1	1	0°	1.6	1.12	3.2	2.24	1.6	1.12	2.36	1.7						
TAPS 2	2	90°	3	2	6	4	2.8	2	4.25	3						
TAPS 3	3	0°	4.75	3.15	9.5	6.3	4.25	3.15	6.7	4.75						
TAPS 5	5	0°	8	5.3	16	10.6	7.5	5.3	11.2	8						
TAPS 8	8	0°	12	8	24	16	11.2	8	17	11.8						
TAPS 15	15	0°	22.4	15	45	30	21.2	15	31.5	22.4						
TAPS 20	20	0°	30	20	60	40	30	20	40	30						
TAPS 25	25	0°	37.5	25	75	50	33.5	25	50	37.5						
TAPS 30	30	0°	45	30	90	60	42	30	63	45						
TAPS 35	35	0°	50	35	100	70	49	35	73,5	52,5						
TAPS 40	40	0°	60	40	120	80	56	40	85	60						
TAPS 50	50	0°	71	50	142	100	71	50	106	75						
TAPS 63	63	0°	75	63	150	126	90	63	132	95						



Anschlagart kind of attachment	1		2		2		2		3 o. 4		3 o. 4	
	Stück / number of pieces	Neigungswinkel Inclination angle	Nominal WLL min. WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]	Working load limit WLL [t]		
TAPSK 3	3	0°	3.15	3.15	6.3	4.25	3.15	6.7	4.75			
TAPSK 5	5	0°	5.3	5.3	10.6	7.5	5.3	11.2	8			
TAPSK 8	8	0°	8	8	16	11.2	8	17	11.8			

TAPSK

TAPS-E



Anschlagart kind of attachment	1		1		2		2		2		2		3 o. 4		3 o. 4	
	Stück / number of pieces		Stück / number of pieces		Stück / number of pieces		Stück / number of pieces		Stück / number of pieces		Stück / number of pieces		Stück / number of pieces		Stück / number of pieces	
Neigungswinkel Inclination angle	0°		90°		0°		90°		0°-45°		45°-60°		0°-45°		45°-60°	
	Working load limit WLL		Working load limit WLL		Working load limit WLL		Working load limit WLL		Working load limit WLL		Working load limit WLL		Working load limit WLL		Working load limit WLL	
Bezeichnung Code	[t]		[t]		[t]		[t]		[t]		[t]		[t]		[t]	
	TAPS - E 1,4	2,5	1,4	5	2,8	2	1,4	3	2,1							
TAPS - E 2,5	4	2,5	8	5	3,5	2,5	5,3	3,8								
TAPS - E 4	6	4	12	8	5,6	4	8,5	6								
TAPS - E 6,7	10	6,7	20	13,4	9,4	6,7	14,2	10,1								
TAPS - E 10	15	10	30	20	14	10	21,2	15								
TAPS - E 12,5	20	12,5	40	25	18	12,5	26,5	19								
TAPS - E 16	24	16	48	32	22,6	16	33,9	24								
TAPS - E 19	30	19	60	38	26,5	19	40	28								
TAPS - E 26,5	37,5	26,5	75	53	37	26,5	56	40								

For the attachment points to screw-on (TAPG (-S) / TPB (-S))

The working temperature of the attachment points to screw-on can be restricted by the screw used. The screw supplier must be questioned with regard to this matter. Respective to the nominal size of the screw, the tightening torques as stated in Table 1 must be taken into consideration. In the event that attachment points are to be applied in temperatures ranging from -40 (-20) and +400°C, we recommend the use of weldable attachment points.

For the attachment points to weld on (TAPS / TAPS-E / TAPSK)

Special attention should be paid to the maximum temperature the lifting equipment can assume on an individual basis. The impact of higher temperatures on the lifting capacity (WLL) of various grades of lifting equipment is stated in the following table 2:

Table 2

Working temperature of TAPS 1 to TAPS 15, TAPS-E and TAPSK is minus 20°C – plus 400°C.

Working temperature in °C	WLL in %
minus 40°C - plus 200°C	100
plus 200°C - plus 300°C	90
plus 300°C - plus 400°C	75
above 400°C	not allowed



Translation of the original operating instructions
 In case of doubts or misunderstanding, the German version of the document is decisive.

Conformity Declaration



EG-Konformitätserklärung der Fa. JDT

EG-Konformitätserklärung
 EC Conformity Declaration
 Déclaration de conformité CE
 EG-Conformitätsverklärung
 Declaración de conformidad CEE
 Dichiarazione di conformità CE
 EY-yhdenmukaisuustodistus
 EF-Överensstemmelseerkl ring
 EG-Konformitetsf rkl ring
 Deklaracja zgodno ci WE

Im Sinne der EG Richtlinie Maschinen 2006/42 EG und weiter erg nzender Richtlinien.
 As defined by the EC Guideline Machines 2006/42 EC and other complementary guidelines.
 Dans le sens des directives CE Machines 2006/42 CE et des directives compl mentaires.
 Overeenkomstig de EG-richtlijn Machines 2006/42 EG en verdere aanvullende richtlijnen.
 Conforme a la Directiva CE de M quinas 2006/42 CE y otras Directivas suplementarias.
 Ai sensi della direttiva CE sulle macchine 2006/42 CE e altre direttive integrative.
 Koneista annettu EY-direktiivin 2006/42 EY ja muiden lis direktiivien tarkoitamassa mieless .
 I  verensst mmelse med EF-retningslinje maskiner 2006/42 EF og videre supplerende retningslinjer.
 I enlighet med EG : s Maskindirektiv 2006/42 EG samt vidare kompletterande direktiv.
 W rozumieniu dyrektywy maszynowej WE 2006/42/WE oraz uzupealnij cych dyrektyw.

Der Unterzeichnende, bevollm chtigt von der/The undersigned, empowered by/Le soussign , mandataire de/De ondergetekende, gemachtigde van de firma/El suscrito, autorizado por /a/ll sottoscritto, delegato dalla/Alekirjoittanut, yhti ni/Den undertegnede, bef ldrmasigget af/f rklarar undertecknad, bemyndigad av Nizej podpisany, upoważniony przez

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erkl rt, dass das (die) umseitig bezeichnete(n) Anschlagmittel in der von uns in Verkehr gebrachten Ausf hrung bei bestimmungsgem  er Benutzung mit den grundlegenden Sicherheits- und Gesundheitsanforderungen  bereinstimmen.
 declares that sling gear, listed overleaf, conform in its marketed design with the requisite basic safety and health requirement, provided they are used in accordance with their intended purpose.
 d clare que le mat riel de levage d crit au verso et employ  conform ment aux prescriptions, dans l'ex cution mise en circulation par nos soins, est conforme aux exigences fondamentales de s curit  et de sant .
 verklaart dat de op de achterzijde aangegeven aanslagmiddelen in de door ons in het verkeer gebrachte uitvoering bij doelmatig gebruik met de pricipi le eisen omtrent veiligheid en gezondheid  overenstemmen.
 declara que el(/os) dispositivo(s) de suspensi n mencionado(s) al dorso en la forma lanzada al mercado concuerdan con los requerimientos b sicos impuestos a la seguridad y a la salud bajo la condici n de una aplicaci n de acuerdo con los fines previstos.
 dichiara che il(/i) dispositivo(i) di arresto definito(i) a tergo, nel modello da noi distribuito, se usato(i) nel modo dovuto risponde (rispondono) ai requisiti basilari di sicurezza e sanitarie.
 vakuuttaa, ett  k  nt puolella mainittu/tut kiinnitysv line/et myyntiin tuomassamme muodossa ja sity/niit  asianmukaisesti k ytettyn  ovat perustavianaatuisten turvallisuus- ja terveysvaatimusten kanssa yhdenmukaisia.
 erkl rer, at det (de) omst ndende anslagsmiddel (-midler) i den udf relse, som vi har givet den ud, ved bestemmelsens benyttelse stemmer  verens med de grundl ggende sikkerheds- og sundhedskr v.
 att det (de) p  omst ndende s da uppf rda anslagmedlet (-medlen) i det av oss s lunda utf randet vid  ndam lsenig anv ndning  verensst mmer med de grundl ggande kraven betr ffande s kerhet och h lsa.
 o wiadcza,  e wymienione na odwrocie  rodki mocowania w wersji wprowadzonej przez nas na rynek s  zgodne z zasadniczymi wymogami dotycz cymi bezpiecze stwa i ochrony zdrowia w przypadku zastosowania zgodnego z przeznaczeniem.

EG-Richtlinien
 EC Guidelines
 Directives CE
 EG-richtlijnen
 Directivas CEE
 Direttive CE
 EY-direktiivit
 EF-retningslinier
 EG-Direktiv
 Dyrektywy EG

EG Richtlinien Maschinen ge ndert durch
 EC Guideline for Machines amended by
 Directives CE Machines modifi e en
 EG-richtlijn machines gewijzigd door
 Directiva CEE "Maquinas" modificada por
 Direttive CE sulle macchine cambiate con
 Koneista annettu EY-direktiivi muutettu direktiivilla
 EF retningslinje maskiner forandret gennem
 EG:s Maskindirektiv  ndrat genom
 Dyrektywy maszynowe EG zmienione w drodze

2006/42 EG

Harmoniserte Normen
 Harmonized standards
 Normes harmonis es
 Overeenkomstige normen
 Normas armonizadas
 Norme armonizzate
 Harmonisoidut standardit
 Harmonerete normer
 Harmoniserade standarder
 Normy zharmonizowane

EN ISO 12100

- EN 818-1
- EN 818-2
- EN 818-3
- EN 818-4
- EN 818-5
- EN 818-6
- EN 818-7
- EN 1677-1
- EN 1677-2
- EN 1677-3
- EN 1677-4
- EN 1677-5
- EN 1677-6
- EN 13155
- EN 13889

Angewendete nationale Normen /
 Applied national standards
 Normes nationales appliqu es
 Toegepaste nationale normen
 Normas nacionales aplicadas
 Norme nazionali applicate
 Sovelletut kansalliset standardit
 Brugte nationale normer
 Nationella normer som till mpats
 Stosowane normy krajowe

- DIN 685-2
- DIN 685-3
- DIN 685-4
- DIN 685-5
- DIN 5688-1
- DIN 5688-3
- DIN 5692
- DIN 5687-1
- PAS 1061
- DIN 695
- DIN 32891

R. Aberspach
 Leitung Qualit tswesen

Dokumentationsverantwortlich: R.Aberspach in Fa. J.D. Theile, Letmather Str. 26-45, D-58239 Schwerte

UKCA Declaration of Conformity

The undersigned, empowered by
 J.D. Theile GmbH & Co. KG, Postfach 18 29, D-58213 Schwerte, Germany

declares that sling gear, listed overleaf and marked with UKCA, conform in its marketed design with the requisite basic safety and health requirement, provided they are used in accordance with their intended purpose.

- Applicable standards :
- UK Guideline Supply of Machinery (Safety) regulation 2008
 - BS EN 818-1 - BS EN 818-7
 - BS EN 1677-1 - BS EN 1677-6
 - BS EN ISO 12100 / BS EN 13155 / BS EN 13889

T. Muchowski
 Managing Director