



Czech

# INSPECTION CERTIFICATE

Evidence number **09.089.923**

Issued in accordance with ČSN EN ISO/IEC 17020 for organization:

**DT-Výhybkárna a strojírna, a.s.**  
**Dolní 3137/100**  
**796 01 Prostějov**  
**Czech republic**

We certify the compliance of bellow specified device, based on the results performed by the checking, testing and evaluation specified in TÜV SÜD Czech Inspection report evidence number 09.089.922 dated 2016-09-12:

Name: **E/E system related to safety of point machine**  
Type designation: **DT7**  
Modification: **DT7HZKZ140101**  
Serial number: **6510056**

With requirements of ČSN EN 61508-1 ed.2:2011 (idt EN 61508-1:2010), ČSN EN 61508-2 ed.2:2011 (idt EN 61508-2:2010), ČSN EN 61508-6 ed.2:2011 (idt EN 61508-6:2010)

**as E/E system related to safety level of safety integrity SIL 3.**

### Conditions of validity:

specified in TÜV SÜD Czech Inspection report, evidence number 09.089.922 dated 2016-09-12.

Detailed technical data are specified on the page 2.

Ostrava, 2016-09-12



**TÜV SÜD Czech s.r.o. : Ing. Roman Prášek, Ph.D.**

**Detailed technical data characterizing type of product:**

Name:	<b>E/E system related to safety of point machine</b>
Type designation:	<b>DT7</b>
Minimal track gauge:	1000 mm
Switch rail opening:	32 up to 100 mm
Operating force:	5-8 kN
Torque for manual operation:	150 up to 250 Nm
Trailing force:	8 up to 10 kN
Operation time:	1 up to 2 s
Sensors of checking rods and locks:	Inductive (6x Balluff BES M18EI-PSC80B-S04G / BES02H0)
Supply voltage of inductive sensors:	24 V DC (min. 10 V DC, max 30 V DC)
Supply of electrohydraulic drive:	24V/DC 230V/AC 380V/AC 600-750V/DC

Assessed E/E system related to safety of point machine s defined by the chain of sensors – passive hub which includes following electronic components:

- Inductive sensor 6x Balluff BES02H0 (BES M18EI-PSC80B-S04G)
- Passive hub Balluff BPI003T (BPI 8M303P-2K-00-SM4CT)
- Connecting cable Balluff BCC M41C-0000-1A-049-VX8C25-100
- Coupler 2x BCC0144 (BKS-S 8-3) (for inductive sensors 5 and 6)
- Coupler 4x direct BCC0158 (BKS-S144-00) (for inductive sensors 1,2,3, and 4)
- Coupler 6x BCC02M2 (BCC M313-0000-20-001-PX0334-020) (into the hub)