

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認證證書

CERTIFICATE

ZERTIFIKAT



Czech

# CERTIFICATE OF THE TYPE

registration number 500/08/07/02/0 – 00.193.536

issued to the producer:

**Arrow line a.s.**  
**1. máje 34/120, blok C**  
**CZ - 703 00 Ostrava-Vítkovice**  
**IČ: 610 58 548**

for the product:

Name: **Cable tractor for wagons**  
Designation of type: **LTV – 30 PV**  
Modification:  
Place of production: **Pavela s.r.o., Lačnov 207, PSČ 756 12**

for which the evaluation, certification and audit of the quality system was performed, focused on elements securing the continuation of conformity of products in compliance with the certification system of TÜV SÜD Czech according to ČSN EN 45011:1998 and their results are given in the Report registration number 1456/70/08/BT/IZ/S of 19.9.2008.

The above mentioned type of product meets the applicable requirements of the following specifications / normative documents, which established the basis for its evaluation:

**ČSN EN 14492-1: 2007**


This certificate is valid until: **22.10.2013**

Details and conditions of validity are given in the annex to this certificate which forms the integral part of this certificate and contains 2 pages.

In Prague, 22.10.2008



Product Certification Body

  
**Ing. Ivo Dršťák**  
Head of the certifying body

**This certificate registration number 500/08/07/02/0 does not apply for the assessment according to the Law 266/1994 Sb. and for specifications and standards concerning the railway operations.**

1. The specimen of the product was applied for assessment and certification of the type on 3.7.2008
2. The Certificate was issued on the basis of the documents of the customer - Appliance for certification of 3.7.2008
3. The manufacturer is holder of the certificate ČSN EN ISO 9001:2001 issued by TÜV SÜD Czech, registration number 1982-1 of 27.9.2007, number of the audit report 0293/70/07/QM/AZ/C
4. Detailed technical data characterizing type/model of the product.

Name:	<b>Cable tractor for wagons</b>
Type series:	<b>LTV – 30 PV</b>
Travel speed:	<b>0,175 m/s</b>
Maximum traction force:	<b>40 kN</b>
Tensing force, wagon without load:	<b>16 kN, 3 MPa</b>
Tensing force with load:	<b>28 kN max., 5MPa</b>
Tractive element:	<b>Steel sixstrand rope Ø 22 mm with nominal strenght of wires 1700 MPa (DIN 3064), with nominal load-carrying capacity 336 kN, construction 6(1+6+12+18)+v</b>
Diameter of the rope :	<b>22 mm</b>
Nominal strength of the wires:	<b>1770 MPa</b>
Nom. load bearing capacity of rope	<b>336 kN</b>
Transmission gear:	<b>Bonfiglioli type 310R4</b>
Voltage system:	<b>400V TN-S</b>
Output of el. motor for shunting/type:	<b>7,5 kW / type BN 132MA4</b>
Output of el. motor for hydraulics:	<b>3kW</b>

5. List of essential components of the technical documentation:  
drawings (individual – assembly) – arch. numbers:
  - 1D-0077/Arr – mounting of the pulley – bracket,
  - 0D-0037/Arr – shunting carriage,
  - 0D-0036/Arr – frame (of the shunting carriage),
  - documentation concerning the evaluation of risks,
  - cable tractor for wagons LTV – 30 PV-operating records,
  - instructions for operation and attendance of the hydraulic set, incl. hydraulic diagram drawing number HA 2366-08 from Hydromy spol. s r.o., Uherský Brod,
  - test report concerning EMC reg. number 1092/70/08/BT/IZ/E of 21.7.2008,
  - instructions for use – cable tractor for wagons LTV – 30 PV,
  - specifications – cable tractor for wagons LTV – 30PV,
  - document shunting machinery LTV – 30 PV,
  - Accompanying technical documentacion of the firm Transmital Bonfiglioli - transmission gears of the series 300, chapters 1 until 6, Design documentation of the firm Dodávky automatizace spol. s r.o., Ostrava – denomination: „cable shunting machinery LTV-PV“ design number: 420-585 of May 2008, for Duslo a.s., Šála SR, drawings according to the list of drawings arch. number: 4-473-8213 pages 1 and 2.
6. Conditions for validity
  - The Certificate is valid only for its holder and for products and production places therein quoted.
  - The transmission of this Certificate by its holder to third parties is inadmissible as well as its using by third parties.

