

FITEL® S179 Fusion Splicer

Hand-Held, Core Alignment Fusion Splicer



Features and Benefits

- Exceptional performance for fast and consistent fiber splicing
- Enhanced ease of use and portability
- High-speed splicing and heating¹
- Ruggedized body design
- Easy, intuitive operation
- Compatible with Splice-On-Connectors (SOC)
- State-of-the-art communication methods
- Quick and easy maintenance

Overview

The FITEL S179 Hand-Held, Core Alignment Fusion Splicer offers powerful performance, delivering fast and reliable optical fiber splicing even under harsh environmental conditions. By combining speed, precision, durability, portability and state-of-the-art communication methods in one unit, this fusion splicing machine opens the door to an entirely new range of applications. The FITEL S179 Fusion Splicer is highly effective for use in data centers, long-haul operations, Metro, LAN, and FTTx fiber, including ultra bend-insensitive fibers as well as large area effective fibers.

Applications

- Fiber sensors
- Manufacture of optical components
- FTTx
- LAN
- Backbone
- Enterprise
- Long-haul
- Data Centers

Product Description

Designed with users in mind, the FITEL S179 Fusion Splicer delivers rapid splicing and heating ability with consistent results, splice after splice. A large-capacity battery system helps save time by allowing 200 splicing cycles (splicing/heating) in one charge.¹ While a 4.3-inch wide LCD screen with touch panel offers easy and intuitive operation, a proportionately wide splicing chamber makes optical fiber easy to load. For improved visibility in low-light conditions, 3+1 LED lights illuminate the entire splicing chamber. A detachable, left-side V-groove makes cleaning and maintenance a breeze.

The S179 Fusion Splicer is also designed to meet the rigors of use in the field. While a substantially lower profile and lighter weight enhance portability, this splicer's canopy design and ruggedized body provide resistance to shock, water and dust exposure. A powerful, high propulsion motor (8N) helps ensure stable splicing for the most rigid indoor and drop cables. Internal battery charging, embedded Near Field Communication (NFC) and Smartphone readiness combine with other features to make the S179 one of the most powerful and user-friendly fusion splicing machines available today.

¹ In semi-auto splicing mode and regular heating mode

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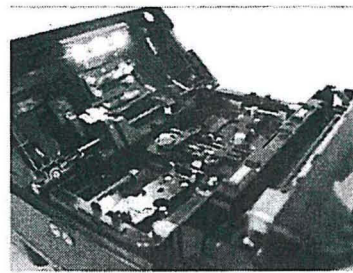
FUSION SPLICERS

New Features

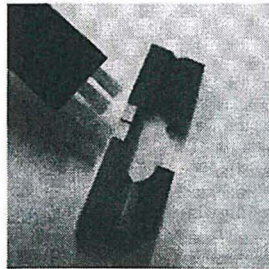
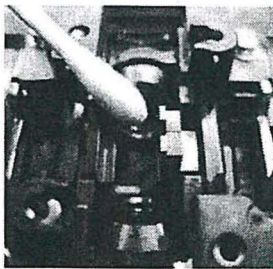
- **Touch Screen:** 4.3-inch wide LCD screen
- **Illumination lamp:** 3 upper + 1 lower LED
- **Detachable V-groove:** Easy maintenance and lens cleaning
- **NFC:** Lock and unlock splicer via smartphone (only for Android phone ver. 4.1 or after)
- **WiFi Networking:** Communication between splicer and smartphone
- **High speed:** 6 sec of splicing time and 9 sec of heating time



Touch Screen



Illumination lamp: 3+1 LED



Detachable V-groove and Easy Cleaning



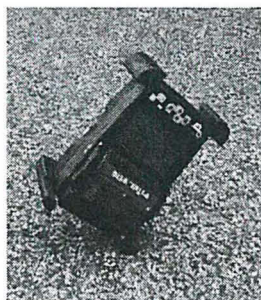
NFC: Lock and Unlock

Under Tough Environments

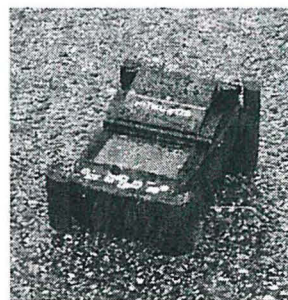
- **Shock Resistant:** Equivalent to IK07 rating Mechanical impact²
- **Drop Resistant:** 76 cm drop tests from 5 different angles³
120 cm drop tests with hard carrying case³
- **Water Resistant:** Equivalent to IPX2 rating drip proof⁴
- **Dust Resistant:** Equivalent to IP5X rating dust proof⁵



Shock Resistant



Drop Resistant



Water Resistant



Dust Resistant

² IK07 rating Mechanical impact means that the machine protects against 2 joule impact, it is equivalent to 500g force from 40cm. This does not guarantee that the machine will always be undamaged under these conditions.

³ Standard operations could be carried out after conducting the above tests. These tests were performed at the Furukawa Electric Co., Ltd. laboratories with no significant damage resulting. This does not guarantee that the machine will always be undamaged under these conditions.

⁴ IPX2 rating drip proof means that the machine can be exposed to 3 mm/min drips for 10 minutes with 15 degree tilt and still function.

⁵ IP5X rating dust proof means that the machine can be exposed to dust particles with a diameter of 0.1 µm to 25 µm and still function.

FITEL® S179 Fusion Splicer

Product Specifications

Applicable Fibers	SM (ITU-T G.652, G.657A1 and G.657A2), MM (ITU-T G.651), DSF (ITU-T G.653), Cut-off Shifted Fiber (ITU-T G.654, Large Area type), NZD (ITU-T G.655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657B3)
Cladding Diameter	80 - 150 μ m
Coating Diameter	100 - 3000 μ m
Fiber Cleave Length	5 - 16 mm
Average Splice Loss	SM:0.02dB, MM:0.01dB, DSF:0.04dB, NZD:0.04dB
Splice Time	6 seconds (Semi-auto mode)
Heat Time ⁶	9 (60mm, Tyco SMOUV1120-01, coating diameter 250-900 μ m, Power mode) 13 (60mm, FITEL S921, coating diameter 250 μ m, Power mode) 15 (60mm, FITEL S921, coating diameter 900 μ m, Power mode)
Splice Programs	Max. 300
Automatic Splicing Selection	Available
Heat Programs	Max. 100
Automatic Heating Start	Available
Applicable Sleeves	20/40/60 mm
Fiber Holder	Tight Holder (loose tube applicable) or Removable Fiber Holder System
Tension Test	1.96 N
Splice Return Loss	70 dB or more
Attenuation Splice Function	Intentional high splice loss of 0.1dB to 15dB(0.1dB step) can be made for an inline fixed attenuator
Fiber Image Magnification	104X, 278X, 556X
Splice Result Storage	20,000
Image Capture Capacity	Last 100 images to be automatically captured + up to 100 images to be stored permanently
Dimension	139W x 209D x 114H mm (not including shock absorber) 179W x 246D x 131H mm (including shock absorber)
Weight	1.7 kg (without battery), 2.0 kg (with battery)
Monitor	4.3" wide color LCD monitor with touch screen
Propulsion (motor)	8 N (designed value)
Data Output	USB ver. 2.0 mini B x 1 port, Standard A x 1 port
Battery Capacity ⁷	Typical 200 splice/heat cycles, 90sec/cycle
Altitude	5000 m
Wind Protection	15 m/s
Operating Temperature	-10 to + 50 °C (without excessive humidity)
Storage Temperature	-40 to +60 °C (without excessive humidity)
Humidity	0 to + 95% RH (non-condensing)
Power Source	AC Input 100 to 240V (50/60Hz), DC Input 11 to 24 V

⁶ The heating time may vary depending on the type of sleeve. In addition, the first heating time after turning the power on can be longer than the standard heating time.

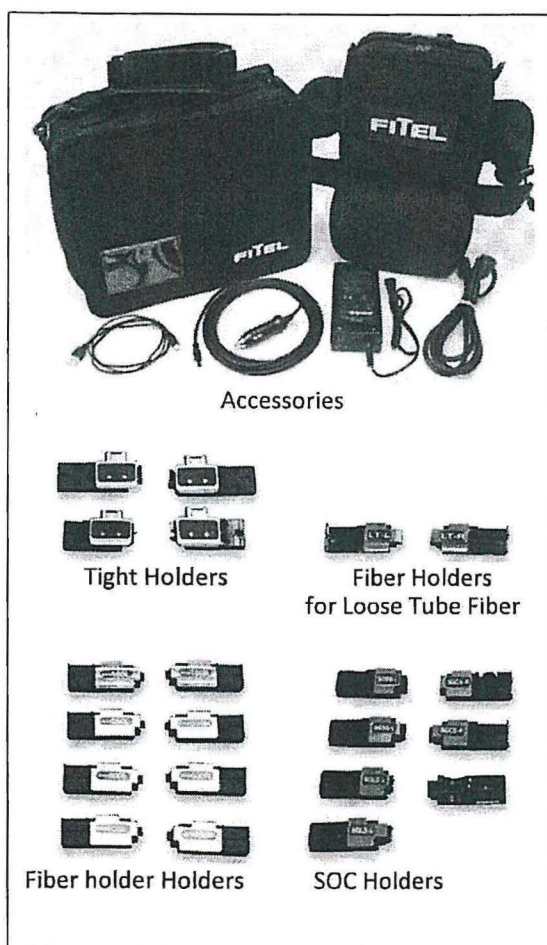
⁷ The number of splicing and heating cycles the machine can perform with a fully charged battery at 20 °C in semi-auto splicing mode and regular heating mode. The number of cycles may vary depending on the battery status and operating conditions.



Standard Package

Standard Package

Item	P/N	Quantity
FITEL S179 Fusion Splicer	S179A	1
Built-in Battery Pack	S947A	1
Hard Carrying Case	HCC-05	1
Spare Electrodes	ELR-01	1
AC Adapter	S979A	1
AC Power Cord	-	1
Cooling Tray	CTX-03	1
Cleaning Brush	VGC-01	1
Electrode Sharpener	D5111	1
Tool Case	TCC-01	1
LCD anti-reflective sheet	ARS-01	1
Instruction Manual	UMC-02	1
Quick Reference Guide	FTS-B526	1



Optional Components

Item	P/N	Quantity
USB Cable	USB-01	1
Battery Charger	S980A	1
Soft Carrying Case	SCC-01	1
Angled Stand	AGS-02	1
Working Belt	WBT-01	1
Car Cigarette Cable	CDC-04	1
Heater Clamp Base for SOC	HBS-01	1
Tight Holder		
16 mm Cleave Length	S712T-016	1 pair
10 mm Cleave Length	S712T-010	1 pair
Universal	S712T-UN	1 pair
Fiber Holder		
160 μ m coated fiber	S712S-160	1 pair
250 μ m coated fiber	S712S-250	1 pair
500 μ m coated fiber	S712S-500	1 pair
900 μ m coated fiber	S712S-900	1 pair
Fiber Holder Loose Tube Fiber (Left side)		
Loose Tube Fiber (Left side)	S712S-LT-L	1
Loose Tube Fiber (Right side)	S712S-LT-R	1
SOC Holder		
Seiko Giken FC/SC ferrule (9mm)	S712C-SGS9-L	1
Seiko Giken FC/SC ferrule (5mm)	S712C-SGS5-L	1
Seiko Giken LC ferrule (9mm)	S712C-SGL9-L	1
Seiko Giken LC ferrule (5mm)	S712C-SGL5-L	1
Seiko Giken TOUCH Plus SC (9mm)	S712C-SGS9C-R	1
Diamond E2000™/E3000™ ferrule	S712C-DM25-L	1
Seiko Giken Cordage (5mm)	S712C-SGC5-R	1
Seiko Giken Cordage (9mm)	S712C-SGC9-R	1
Diamond Cordage (5mm)	S712C-DMC5-R	1
WiFi dongle	WFD-01	1

Ordering Number Form S179A-(X1)-(X2)

Category	Code	Description
Fiber holder type	1	16 mm Tight Holder
	2	10 mm Tight Holder
	3	Fiber Holder System
	4	Universal Tight Holder
WiFi dongle	0	W/O WiFi dongle
	1	W/ WiFi dongle

FURUKAWA ELECTRIC CO., LTD.

Head Office:

2-3, Marunouchi 2-chome,
Chiyoda-ku, Tokyo,
100-8322, Japan
Tel: + 81 3 3286 3227
Fax: + 81 3 3286 3978
www.furukawa.co.jp
fec.abr_opt_splicer
@furukawaelectric.com

Europe:

Furukawa Electric Europe Ltd.
Furukawa House
77-85 Fulham Palace Road,
London W6 8JD, U.K.
Tel: + 44 (0) 20 7313 5300
Fax: + 44 (0) 20 7313 5310
www.furukawa.co.uk
splicers@furukawa.co.uk

North & South America:

OFS Fitel, LLC
2000 Northeast Expressway
Norcross, Georgia 30071, U.S.A
TOLL FREE: + 1 866 452 9516
Tel: + 1 678 783 1090
Fax: + 1 678 783 1093
www.ofsoptics.com
splicers@ofsoptics.com

China:

Furukawa Shanghai, Ltd.
Beijing Branch
Room 1108 Beijing Jing Guang
Center Hujialou Chaoyang
District Beijing 100020, China
Tel: + 86 10 8591 0608
Fax: + 86 10 8591 0609
www.furukawa-sh.cn

South East Asia:

Furukawa Electric
Singapore Pte. Ltd.
60 Albert Street, #13-10 OG
Albert Complex, Singapore
189969
Tel: + 65 6224 4686
Fax: + 65 6336 2635
comms@furukawa.com.sg

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AC2T-160065-9
06/2017

Popis produktu:

FITEL S179, 3D SVÁŘEČKA NA JÁDRO

FITEL S179 je svářečka optických vláken s aktivním vystředěním (3D) na jádro. Svářečka umožňuje dosáhnout svarů s nízkým vložným útlumem i v nejnáročnějších podmínkách a to díky designu odolnému proti prachu, vodě a větru. Svářečka S179 je odolná proti pádům a nárazům. Automatická kompenzace oblouku při svařování zajišťuje stabilní kvalitu svarů. Rychlé svaření, zabezpečení a dlouhá výdrž baterie, včetně rychlého nabíjení, zvyšuje operační nasazení svářečky. Nadstandardní osvětlení pracovního prostoru (4 LED) usnadňuje práci ve špatných světelných podmínkách. Jednoduché a intuitivní ovládání svářečky dotykovým LCD nebo standardní klávesnicí. Svářečka je vhodná pro svařování v FTTx, LAN, páteřních sítích, dálkových sítích, data centrech, laboratořích a výrobních linkách.

ODOLNOST SVÁŘEČKY FITEL S179

Tělo svářečky je navrženo, aby odolalo náročným podmínkám. S179 je ideální nástroj pro venkovní instalace v nepříznivém počasí.

- Odolnost proti nárazům dle standardu IK07 (přímý náraz předmětu o energii 2J)
- Odolnost proti pádům (z výšky 76 cm, z 5 různých úhlů)
- Odolnost proti vodě dle standardu IPX2
- Odolnost proti prachu dle standardu IP5X

RYCHLÉ SVAŘOVÁNÍ A ZAPÉKÁNÍ - "KDYŽ JDE O VTEŘINY"

Svářečka FITEL S179 za 6 sekund provede svar. Zapečení ochrany svaru trvá 9 sekund! Při zapékání ochrany svářečka využívá patentovaný přitlačný mechanismus, který vyvíjí tlak na ochranu svaru. Dochází k intenzivnějšímu přenosu tepla z pípky na ochranu svaru a radikálnímu snížení času zapečení.

SVAŘOVACÍ PROGRAMY SVÁŘEČKY FITEL S179

Automatický svařovací program rozeznává různé druhy vláken včetně vláken odolných ohybům. S179 svařuje vlákna G.657.A1/2, G.657.B3 (EZ-Bend) včetně kombinací s vláknem G.652.D. Předinstalované svařovací programy pro vlákna od světových výrobců OFS, Corning, Prysmian/Draka. Stabilní nízký útlum svarů zajišťuje automatická kompenzace svařovacího oblouku.

WI-FI, NFC, FITEL SMART APP

Svářečka S179 komunikuje pomocí Wi-Fi a NFC s Vaším chytrým telefonem. Díky chytrému telefonu a aplikaci FITEL SMART APP můžete svářečku ovládat, prohlížet nebo stahovat uložená data. Aplikace FITEL SMART APP je dostupná pro iOS a Android. Svářečku lze uzamknout proti zneužití pomocí NFC.

RYCHLÁ A SNADNÁ ÚDRŽBA SVÁŘEČKY FITEL S179

Unikátní odnímatelná V-drážka svářečky usnadňuje údržbu. Vyjmutím V-drážky získáte snadný přístup k čištění čoček a V-drážky samotné. Pro vyjmutí V-drážky a elektrod není nutné žádné nářadí. Konstrukce svářečky je řešena bez zrcátek nebo hranolů. Aktualizace softwaru může provádět koncový uživatel. Svářečka disponuje obrázkovým průvodcem údržby v českém jazyce.

STANDARDNÍ SESTAVA SVÁŘEČKY OBSAHUJE:

- Svářečku S179
- Lámačku S326A
- Držáky vláken pevné
- Transportní kufr pro svářečku a lámačku
- Napáječ, Li-ion baterii
- USB Wi-Fi dongle

- Držák pro odkládání ochranných svarů
- Náhradní elektrody
- Přípravek pro čištění elektrod, čistící kartáček V-drážek
- Uživatelský manuál v českém jazyce
- CE, RoHS certifikát

ZÁKLADNÍ SPECIFIKACE

- Aktivní vystředění vlákna na jádro (3D)
- Výměnné magnetické nebo pevné držáky
- Svářečka a pírka je připravena pro SOC (navazované konektory)
- Použitelná vlákna SM, MM, DSF, NZD, BIF/UBIF (vlákna odolná na ohyby)
- Průměrný vložný útlum svaru SM: 0,02 dB, MM: 0,01 dB, DSF: 0,04 dB, NZD: 0,04 dB
- Výdrž baterie 200 svarů včetně zapečení
- Životnost elektrod 5 000 svarů
- Doba svařování 6s
- Doba zapečení ochrany 9s (Tyco SMOUV1120-0, Power Mode)
- LCD 4,3" barevné, dotykové
- Wi-Fi a NFC konektivita, USB
- Hmotnost 2 kg včetně baterie
- Rozměry 179x246x131mm (rozměry včetně gumových nárazníků)

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S326 Cleaver

High Precision Optical Fiber Cleaver

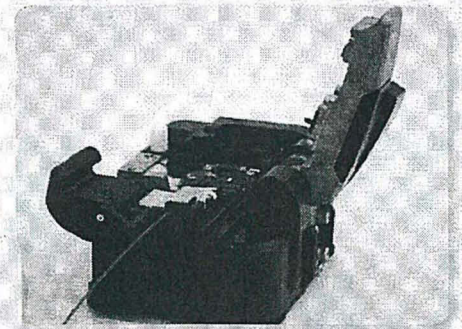
NEW

With its ergonomic and light weight design, the S326 cleaver offers the operator the versatility to cleave on a work bench or in the palm of their hand. The reduced lid size and wide opening angle facilitates fiber loading and improves stability resulting in better single and ribbon fiber cleaves. Just pressing the lever completes the fiber cleave and automatically collects the waste. With 24 positions, the long life-time blade achieves numerous cleaves. The S326 cleaver offers optical fiber cleaving for a full range of OSP and OEM applications. The S326A configuration comes with both the regular and large size fiber waste bin or users can choose the smaller S326B option without a bin.

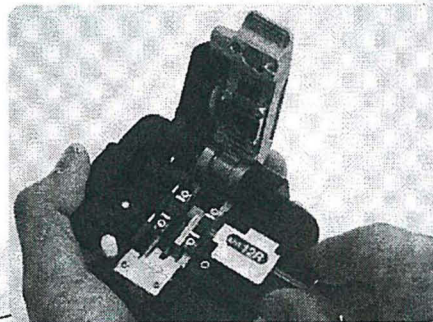


Key Features

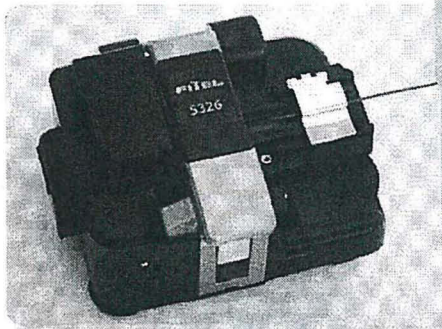
- Simple operation
- Easy fiber loading
- Durable and reliable design
- Wide lid opening
- Long blade life
- Light weight (About 30% reduced from previous model)
- High capacity waste bin (S326A)



Wide Lid Opening Angle



Operation On Hand



Operation On Desktop

Bound to *Innovate*

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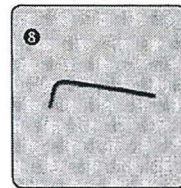
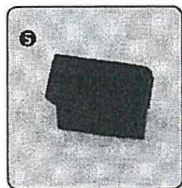
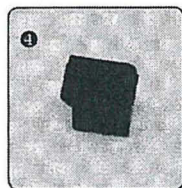
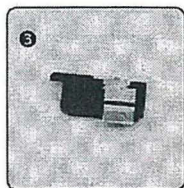
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SPECIFICATIONS

Items	Description
Applicable Fibers	All fiber types
Fiber Count	Single to 12 ribbon fiber
Clad Diameter	125 μ m
Coating Diameter	Single fiber: 250 to 900 μ m Ribbon fiber: 280 to 400 μ m (thickness)
Cleave Length	Single fiber: Fixed length 10 & 16 mm, Variable length 3 to 20 mm Ribbon fiber: Fixed length 10 mm
Blade Life *1	48000 fibers (2000 fibers $\times$ 24 positions)
Dimensions	S326A: 96W $\times$ 79D $\times$ 56H mm S326B: 60W $\times$ 79D $\times$ 56H mm
Weight	S326A: 250 g S326B: 195 g

STANDARD PACKAGE

Item	P/N	Quantity	
		S326A	S326B
① S326A Main Body	S326A-01	1	—
② S326B Main Body	S326B-01	—	1
③ Single Fiber Adapter	S326X-11	1	1
④ Normal Fiber Waste Bin	S326X-12	2	—
⑤ Large Capacity Fiber Waste Bin	S326X-13	1	—
⑥ Semi-hard Case	S326X-14	1	—
⑦ Soft Case	S326X-15	—	1
⑧ Hexagonal Wrench	S326X-16	1	1
Operation Manual	FTS-B423	1	1



Contact Us:

**Fusion Splicer Customer Service,
Training and Service Center**
Toll Free: 866-452-9516
Phone: 678-783-1090
Fax: 678-783-1093
Email: splicers@ofsoptics.com

OFS Corporate Headquarters
2000 Northeast Expressway
Norcross, Georgia 30071, USA
Toll Free: 888-Fiber-Help
Intl. Phone: 770-798-5555
Email: ofs@ofsoptics.com



Our company has configured the environmental management system at each of our plants worldwide, and acquired ISO 14001 certification.

For additional information please contact your sales representative. You can also visit our website at:

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Doc ID: FITEL-S326
Publish Date: 0714

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**FURUKAWA
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Popis produktu:

Furukawa FITEL S326A

je automatický typ lámačky optických vláken, který provádí zalomení optických vláken v jediném kroku. Lámačka je vybavena automatickým odvozem odpadního vlákna do košíku. Zalamovat lze všechny typy vláken (od jednoho vlákna až po ribbonové pásky s 12 vlákny). Lámačku je možné používat s výměnnými držáky vláken nebo pevným adaptérem s měřítkem. Lámačka Furukawa FITEL S326A je vybavena čepelí s 24 pozicemi, kde na každé pozici lze zalomit cca 2000 vláken. Celkem zalomíte 48 000 vláken bez výměny čepele. Součástí lámačky Furukawa FITEL S326A je odpadní košík pro zalomené zbytky vláken ve variantách standardní a velkokapacitní košík. Lámačka je dodávána v malém odolném plastovém kufříku.