

# APPARATUS CASTORS we move your life

ATA GIANCE





What is the best way to transport my goods from one place to another? Sure, on CASCOO castors. But which castors do I actually need for my purpose? Various influences should be taken into account when choosing the right wheels: load capacity, temperature range, ground surface, noise characteristics, working environment and of course the price. In the following we would like to provide you an overview that can be used as a guide to help you make your decision.

## Two or rather four swivel castors?

Regardless of whether you use two swivel and two fixed castors or prefer four swivel castors, both versions have their right to exist. If you have to cover long distances with your transport trolley, we recommend equipping it with two swivel and two fixed castors, as the fixed castors ensure stable straight running and the user does not have to constantly correct the direction of movement. If you have to transport your goods in narrow aisles (e.g. shopping trolleys in the supermarket), the version with four swivel castors is the right choice, as you are so flexible in lateral movements and can turn on your heel.

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## How do I calculate the maximum load capacity?

When using four castors under a transport trolley, you must always assume that one castor is "hanging" in the air - due to an uneven floor for example - and cannot contribute to the stability of the trolley. Therefore, the total load capacity of a trolley is always calculated with 3 out of 4 castors. The details of the load capacity on the following pages always refer to the dynamic properties of the respective DIN standards (EN 12530 - 12533) per castor. If you multiply these values by 3, you get the total load capacity of the trolley according to the corresponding DIN standard and its requirements.



## When do I need a braked version?

A distinction is usually made between a total brake, which blocks the direction and the run of a castor, and a directional lock, where the wheel is still moving but in terms of alignment "only" works like a fixed castor. The most common type of lock is the total lock (or double stop). It is very important to note that this is not working as a real brake, but as a lock, which only secures the transport trolley against rolling away. We guarantee the functionality here under the following definition:

#### combination of two fixed castors - one swivel castor - one swivel castor with total lock

- securing of an empty or loaded transport trolley against rolling away on basically level surfaces, but with a maximum gradient of 2%
- securing of an empty or loaded transport trolley against rolling away in light winds
- short-term detection of an empty or loaded transport trolley on truck lifting platforms in combined use with the roll-off protection of the lift

#### Combination of two fixed castors - two swivel castors with total brakes

- securing of an empty or loaded transport trolley against rolling away on surfaces with a maximum gradient of 5%
- securing of an empty or loaded transport trolley against rolling away in strong winds (does not protect against overturning of the trolley)
- detection of an empty or loaded roll container in the truck in combination with legally compliant load securing. As far as possible, the brakes should not be activated in the moving truck

[The operator is obliged to carry out the operation taking into account the applicable legislation]

# HOW TO MAKE YOUR right choice



ELASTIC

## Which material do I choose for my purpose?

Probably the most difficult question when choosing your right choice of suitable castors is the question of the material. Each material has different properties and accordingly different advantages and disadvantages as well. Material can be soft or hard, loud or quiet, solid or light and much more. On the following pages we will bring you closer to the advantages of each series and hope to be able to support you with your decision. If you have unanswered questions, please do not hesitate to contact us. On the one hand, we are happy to provide with help and advice due to many years of experience, on the other hand you may also need a special solution, which we would be happy to explain to you in a personal conversation.



## **APPARATUS CASTORS**

Apparatus castors are mainly used for the transport of light to medium-duty equipment indoors. They convince with optimal stability, low rolling resistance, noise-reduction and high mobility. Apparatus castors are often used in display constructions, medical devices, intralogistics or on catering equipment. These castors are available with plate attachment and bolt hole attachment in different dimensions.

Optionally available with expander, stem or threaded screw fixation

#### **EXPANDER OVERVIEW**

Expander round tube		type	inner diameter	screw dimension	material
31	EXRO1921	round tube 19.0 mm-21.5 mm	11 mm	M10x90	aluminium / nylon
N.	EXRO2124	round tube 21.5 mm-24.0 mm	11 mm	M10x90	aluminium / nylon
	EXRO2427	round tube 24.0 mm-27.0 mm	11 mm	M10x90	aluminium / nylon
	EXRO2730	round tube 27.0 mm-30.0 mm	11 mm	M10x90	aluminium / nylon
	EXRO3135	round tube 31.0 mm-35.0 mm	11 mm	M10x90	aluminium / nylon

#### Expander square tube



	type	inner diameter	screw dimension	material
EXSQ2124	square tube 21.5 mm-24.0 mm	11 mm	M10x90	aluminium / nylon
EXSQ2427	square tube 24.0 mm-27.0 mm	11 mm	M10x90	aluminium / nylon
EXSQ2730	square tube 27.0 mm-30.0 mm	11 mm	M10x90	aluminium / nylon
EXSQ3135	square tube 31.0 mm-35.0 mm	11 mm	M10x90	aluminium / nylon
EXSQ3640	square tube 36.0 mm-40.0 mm	11 mm	M10x90	aluminium / nylon

#### DIFFERENT KIND OF STEMS WITH CIRCLIP OR THREADED STEMS ON REQUEST





## **APPARATUS CASTORS** AT A GLANCE



**SERIES P2T2** PP / TPR light apparatus

page 6



**SERIES P4P4** PP light apparatus

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SERIES P2T2 PP / TPR plain bearing

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**SERIES P2T2** PP / TPR ball bearing

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SERIES P2T2 PP / TPR with expander

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SERIES P2T2 PP / TPR twin wheel castors

page 16



SERIES N4N4 PP page 18 twin wheel castors





## **SERIES P2T2**

nm:	polyp
read:	therr
axle bearing:	plain
hreadguard:	withc
oad capacity:	50 kg
wheel diameter:	50 m
emperature range:	-20°0

propylene moplastic rubber 95° shore A grey bearing / ball bearing out / full covering plastic threadguard g to 75 kg nm to 100 mm C to +60°C



swivel castor	[mm]	[mm]	[mm]	<b>↓</b> <b>↑</b> [mm]		[mm]	[kg]
5/1/(5005012121011	050	60x60	48/39x48/39	6.3	25	70	50
SAPA2C0075P2T2P0N = SAPA2C0075P2T2B42	075	60x60	48/38x48/38	6.3	25	100	75



## fixed castor

FAPBCC0050P2T2P0N FAPBCC0050P2T2B42	a 10	050	55x55	44/38.5x44/38.5	6.3	70	50
FAPCCC0075P2T2P0N FAPCCC0075P2T2B42	0.10	075	67x60	48/38x48/38	6.3	100	75



TAPA9C0050P2 TAPA9C0050P2		050	60x60	48/39x48/39	6.3	25	70	80	50
<ul> <li>TAPA2C0075P2</li> <li>TAPA2C0075P2</li> </ul>		075	60x60	48/38x48/38	6.3	25	100	80	75

- $\checkmark$  display construction and shopfitting
- ✓ medical equipment
- ✓ catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  noise-reduced running on all surfaces
- $\checkmark$  ideal load capacities designed for the application
- ✓ ball bearing as axle bearing for improved rolling resistance



bolt hole swivel castor		(mm]	[mm]		[mm]		[kg]
HAH19C0050P2T2P0N HAH19C0050P2T2B42		050	11		25	70	50
HAH12C0075P2T2P0N HAH12C0075P2T2B42		075	11		25	100	75
HSH12C0100P2T2P0N	=	100	11		32	122	60



BAH19C0050P2T2P0N BAH19C0050P2T2B42		050	11		25	70	80	50
BAH12C0075P2T2P0N	—	075	11		25	100	80	75
BAH12C0075P2T2B42	0.0							
BSH12C0100P2T2P0N		100	11		24	122	80	60



single wheel		(mm]	<b>↓</b> [mm]	<b>↓</b> [mm]	(mm]	ø		<b>[</b> kg]
single wheel 050P2T2P0N 050P2T2B42		050	19	22	8 6	M6		50
075P2T2P0N 075P2T2B42	0_0	075	25	28	8 6	M6		75
100P2T2P0N-28	=	100	25	28	8	M6		60



## CASCOO. LIGHT APPARATUS CASTORS.



## **SERIES P4P4**

rim:	
tread:	
axle bearing:	
threadguard:	
load capacity:	
wheel diameter:	
temperature range:	

polypropylene polypropylene black plain bearing without 30 kg 50 mm to 75 mm -20°C to +60°C



swivel castor		(mm)	(mm)	[mm]	<b>↓</b> <b>↑</b>		[mm]	[kg]
Swiver Castor								
SAPA9C0050P4P4P0N	=	050	60x60	48/39x48/39	6.3	25	70	30
SAPA2C0075P4P4P0N	—	075	60x60	48/38x48/38	6.3	25	100	30



#### fixed castor

FAPBCC0050P4P4P0N	=	050	55x55	44/38.5x44/38.5	6.3	70	30
FAPCCC0075P4P4P0N	=	075	67x60	48/38x48/38	6.3	100	30



TAPA9C0050P4P4P0N	=	050	60x60	48/39x48/39	6.3	25	70	80	30
TAPA2C0075P4P4P0N	=	075	60x60	48/38x48/38	6.3	25	100	80	30

- $\checkmark$  display construction and shopfitting
- $\checkmark$  medical equipment
- ✓ catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  economical design for simple applications
- $\checkmark$  ideal load capacities designed for the application
- $\checkmark$  flexible everyday helper



bolt hole swivel castor		(mm]	[mm]		[mm]	[mm]	[kg]
HAH19C0050P4P4P0N	=	050	11		25	70	30
HAH12C0075P4P4P0N	_	075	11		25	100	30



BAH19C0050P4P4P0N	=	050	11		25	70	80	30
BAH12C0075P4P4P0N	=	075	11		25	100	80	30



single wheel		[mm]	[mm]	[mm]	[mm]	Ø		[kg]
050P4P4P0N	=	050	13	22	6	M6		30
075P4P4P0N	=	075	23	28	8	M6		30



## CASCOO. HEAVY APPARATUS CASTORS.



## **SERIES P2T2**

nm.
tread:
axle bearing:
threadguard:
load capacity:
wheel diameter:
temperature range:

polypropylene thermoplastic rubber 95° shore A grey plain bearing without 80 kg to 100 kg 80 mm to 150 mm -20°C to +60°C



swivel castor		[mm]	[mm]		<b>↓</b> ↑ [mm]		[mm]	[kg]
SAPE5C0080P2T2P0N	=	080	77x67	61.5/56x51.5/46.5	8.5	37	111	80
SAPE5C0100P2T2P0N	=	100	77x67	61.5/56x51.5/46.5	8.5	37	135	100
SAPE5C0125P2T2P0N SAPJ5C0125P2T2P0N	=	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	40	160	100
SAPE5C0150P2T2P0N	—	150	77x67	61.5/56x51.5/46.5	8.5	40	185	100



#### fixed castor

FAPE5C0080P2T2P0N	=	080	77x67	61.5/56x51.5/46.5	8.5	111	80
FAPE5C0100P2T2P0N	=	100	77x67	61.5/56x51.5/46.5	8.5	135	100
FAPE5C0125P2T2P0N FAPJ5C0125P2T2P0N	=	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	160	100
FAPE5C0150P2T2P0N	_	150	77x67	61.5/56x51.5/46.5	8.5	185	100



TAPE5C0080P2T2P0N	—	080	77x67	61.5/56x51.5/46.5	8.5	37	111	132	80
TAPE5C0100P2T2P0N	—	100	77x67	61.5/56x51.5/46.5	8.5	37	135	132	100
TAPE5C0125P2T2P0N TAPJ5C0125P2T2P0N	—	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	40	160	132	100
TAPE5C0150P2T2P0N	=	150	77x67	61.5/56x51.5/46.5	8.5	40	185	132	100

- $\checkmark$  display construction and shopfitting
- $\checkmark$  medical equipment
- $\checkmark$  catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  noise-reduced running on all surfaces
- $\checkmark$  ideal load capacities designed for the application
- $\checkmark$  large diameters up to 150 mm



bolt hole swivel castor		(mm)	[mm]		[mm]	[mm]	[kg]
HAH15C0080P2T2P0N	=	080	11		37	111	80
HAH15C0100P2T2P0N	=	100	11		37	135	100
HAH15C0125P2T2P0N	=	125	11		40	160	100
HAH15C0150P2T2P0N	=	150	11		40	185	100



BAH15C0080P2T2P0N	_	080	11		37	111	132	80
BAH15C0100P2T2P0N	=	100	11		37	135	132	100
BAH15C0125P2T2P0N	=	125	11		40	160	132	100
BAH15C0150P2T2P0N	=	150	11		40	185	132	100



			_₽_			00		
single wheel		[mm]	[mm]	[mm]	[mm]	Ø		[kg]
080P2T2P0N	=	080	32	36	12	M8		80
100P2T2P0N	=	100	32	36	12	M8		100
125P2T2P0N	=	125	32	36	12	M8		100
150P2T2P0N	=	150	32	36	12	M8		100



### CASCOO. HEAVY APPARATUS CASTORS.



## **SERIES P2T2**

rim:
tread:
axle bearing:
threadguard:
load capacity:
wheel diameter:
temperature range:

polypropylene thermoplastic rubber 95° shore A grey ball bearing full covering plastic threadguard 80 kg to 100 kg 80 mm to 150 mm -20°C to +60°C



swivel castor		(mm)	[mm]		t mm]		[mm]	[kg]
SAPE5C0080P2T2B42	0_0	080	77x67	61.5/56x51.5/46.5	8.5	37	111	80
SAPE5C0100P2T2B42		100	77x67	61.5/56x51.5/46.5	8.5	37	135	100
SAPE5C0125P2T2B42 SAPJ5C0125P2T2B42	0 0	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	40	160	100
SAPE5C0150P2T2B42		150	77x67	61.5/56x51.5/46.5	8.5	40	185	100



#### fixed castor

FAPE5C0080P2T2B42	0 0	080	77x67	61.5/56x51.5/46.5	8.5	111	80
FAPE5C0100P2T2B42	0.0	100	77x67	61.5/56x51.5/46.5	8.5	135	100
FAPE5C0125P2T2B42 FAPJ5C0125P2T2B42	0_0	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	160	100
FAPE5C0150P2T2B42	0.0	150	77x67	61.5/56x51.5/46.5	8.5	185	100



TAPE5C0080P2T2B42		080	77x67	61.5/56x51.5/46.5	8.5	37	111	132	80
TAPE5C0100P2T2B42		100	77x67	61.5/56x51.5/46.5	8.5	37	135	132	100
TAPE5C0125P2T2B42 TAPJ5C0125P2T2B42	0_0	125	77x67 95x70	61.5/56x51.5/46.5 75x50	8.5 11	40	160	132	100
TAPE5C0150P2T2B42	0_0	150	77x67	61.5/56x51.5/46.5	8.5	40	185	132	100

- $\checkmark$  display construction and shopfitting
- $\checkmark$  medical equipment
- ✓ catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  noise-reduced running on all surfaces
- $\boldsymbol{\checkmark}$  ideal load capacities designed for the application
- $\checkmark$  ball bearing as axle bearing for improved rolling resistance



bolt hole swivel castor		(mm]	[mm]		[mm]	[mm]	[kg]
HAH15C0080P2T2B42	0_0	080	11		37	111	80
HAH15C0100P2T2B42		100	11		37	135	100
HAH15C0125P2T2B42	01-10	125	11		40	160	100
HAH15C0150P2T2B42	0_0	150	11		40	185	100



BAH15C0080P2T2B42	0_0	080	11		37	111	132	80
BAH15C0100P2T2B42	0-0	100	11		37	135	132	100
BAH15C0125P2T2B42	0-10	125	11		40	160	132	100
BAH15C0150P2T2B42	00	150	11		40	185	132	100



			_ [mm]	→ <mark>D</mark> +- [mm]		ø		<b>[</b> kg]
single wheel								
080P2T2B42	0-10	080	32	36	8	M8		80
100P2T2B42	0_0	100	32	36	8	M8		100
125P2T2B42	0_0	125	32	36	8	M8		100
150P2T2B42		150	32	36	8	M8		100



### CASCOO. HEAVY APPARATUS CASTORS.



## **SERIES P2T2**

nm.
tread:
axle bearing:
threadguard:
load capacity:
wheel diameter:
temperature range:

polypropylene thermoplastic rubber 95° shore A grey plain bearing / ball bearing without / full covering plastic threadguard 80 kg to 100 kg 80 mm to 150 mm -20°C to +60°C





bolt hole swivel castor		[mm]	[mm]	[mm]	[mm]	[mm]	[kg]
HAX15C0080P2T2P0N	_	080	11	19-35	37	111	80
HAX15C0100P2T2P0N	=	100	11	19-35	37	135	100
HAX15C0125P2T2P0N	=	125	11	19-35	40	160	100
HAX15C0150P2T2P0N	=	150	11	19-35	40	185	100



BAX15C0080P2T2P0N	=	080	11	19-35	37	111	132	80
BAX15C0100P2T2P0N	=	100	11	19-35	37	135	132	100
BAX15C0125P2T2P0N	=	125	11	19-35	40	160	132	100
BAX15C0150P2T2P0N	=	150	11	19-35	40	185	132	100

- $\checkmark$  display construction and shopfitting
- $\checkmark$  medical equipment
- $\checkmark$  catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  noise-reduced running on all surfaces
- $\checkmark$  ideal load capacities designed for the application
- ✓ ball bearing as axle bearing for improved rolling resistance



bolt hole swivel castor		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	<b>[</b> kg]
HAX15C0080P2T2B42	0_0	080	11	21.5-40	37	111		80
HAX15C0100P2T2B42		100	11	21.5-40	37	135		100
HAX15C0125P2T2B42		125	11	21.5-40	40	160		100
HAX15C0150P2T2B42	0-0	150	11	21.5-40	40	185		100



BAX15C0080P2T2B42	0_0	080	11	21.5-40	37	111	132	80
BAX15C0100P2T2B42	0-0	100	11	21.5-40	37	135	132	100
BAX15C0125P2T2B42	0-0	125	11	21.5-40	40	160	132	100
BAX15C0150P2T2B42	0_0	150	11	21.5-40	40	185	132	100



## CASCOO. TWIN WHEEL CASTORS.



## **SERIES P2T2**

nm.
tread:
axle bearing:
threadguard:
load capacity:
wheel diameter:
temperature range:

polypropylene thermoplastic rubber 95° shore A grey plain bearing / ball bearing without / full covering plastic threadguard 70 kg to 100 kg 50 mm to 75 mm -20°C to +60°C





swivel castor		[mm]	[mm]	[mm]	<b>∳</b> ¶ [mm]	[mm]	[mm]	[kg]
SDPE6C0050P2T2P0N	=	050	60x60	48/38x48/38	6.3	25	70	70
SDPE6C0050P2T2B42		050	60x60	48/38x48/38	6.3	25	70	70
SDPE1C0075P2T2P0N	=	075	77x67	61.5/56x51.5/46.5	8.5	32	100	100
SDPE1C0075P2T2B42		075	77x67	61.5/56x51.5/46.5	8.5	32	100	100



#### swivel castor with total brake

TDPE6C0050P2T2P0N	_	050	60x60	48/38x48/38	6.3	25	70	80	70
TDPE6C0050P2T2B42	0-0	050	60x60	48/38x48/38	6.3	25	70	80	70
TDPE1C0075P2T2P0N	=	075	77x67	61.5/56x51.5/46.5	8.5	32	100	96	100
TDPE1C0075P2T2B42	0_0	075	77x67	61.5/56x51.5/46.5	8.5	32	100	96	100



			_ <b>⊢</b>					
single wheel		[mm]	[mm]	[mm]	[mm]	Ø		[kg]
050P2T2P0N	=	050	19	22	8	M6		50
075P2T2P0N	=	075	25	30	10	M8		75

#### single wheel

050P2T2B42 050 19 22 6 M6 5	5							
	050P2T2B42	050	19	22	6	M6		50
075P2T2B42 075 25 30 8 M8 7	075P2T2B42	075	25	30	8	M8		75

#### **EXAMPLE FOR APPLICATION**

- $\checkmark$  display construction and shopfitting
- ✓ medical equipment
- ✓ catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- $\checkmark$  noise-reduced running on all surfaces
- $\checkmark$  higher load capacities by splitting on twin wheels
- $\checkmark$  can be combined with different stems or expanders



bolt hole swivel castor		(mm]	[mm]		[mm]	[mm]	[kg]
HDHHHC0050P2T2P0N		050	11		25	70	70
HDHHHC0050P2T2B42	0-10	050	11		25	70	70
HDHJJC0075P2T2P0N		075	11		32	100	100
НDHJJC0075P2T2B42	0_0	075	11		32	100	100



#### bolt hole swivel castor with total brake

BDHHHC0050P2T2P0N	=	050	11		25	70	80	70
BDHHHC0050P2T2B42	0-0	050	11		25	70	80	70
BDHJJC0075P2T2P0N	=	075	11		32	100	96	100
BDHJJC0075P2T2B42	0_0	075	11		32	100	96	100



#### bolt hole swivel castor

HDXHHC0050P2T2P0N	=	050	11		25	70	70
HDXHHC0050P2T2B42	00	050	11		25	70	70
HDXJJC0075P2T2P0N	=	075	11		32	100	100
HDXJJC0075P2T2B42	01_10	075	11		32	100	100



BDXHHC0050P2T2P0N	=	050	11		25	70	80	70
BDXHHC0050P2T2B42		050	11		25	70	80	70
BDXJJC0075P2T2P0N	=	075	11		32	100	96	100
BDXJJC0075P2T2B42	0_0	075	11		32	100	96	100



## CASCOO. TWIN WHEEL CASTORS.



## **SERIES N4N4**

rim: tread: axle bearing: threadguard: load capacity: wheel diameter: temperature range: polyamide black polyamide black plain bearing without 70 kg 50 mm to 75 mm -20°C to +60°C





swivel castor		(mm)	[mm]	[mm]	<b>↓</b> ↑		[mm]	[kg]
SDPE6C0050N4N4P0N	=	050	60x60	48/38x48/38	6.3	25	70	70
SDPE1C0075N4N4P0N	=	075	77x67	61.5/56x51.5/46.5	8.5	32	100	70



TDPE6C0050N4N4P0N	_	050	60x60	48/38x48/38	6.3	25	70	80	70
TDPE1C0075N4N4P0N	=	075	77x67	61.5/56x51.5/46.5	8.5	32	100	96	70



single wheel	[mm]	[mm]	<b>→</b> ⊖ [mm]	(mm)	ø		[kg]
050N4N4P0N	050	18	22	8	M6		70
075N4N4P0N	075	23	28	8	M8		70

- $\checkmark$  display construction and shopfitting
- $\checkmark$  medical equipment
- $\checkmark$  catering equipment (cutlery trolleys)

#### **HIGHLIGHTS AND ADVANTAGES**

- ✓ cheaper nylon option
- $\checkmark$  higher load capacities by splitting on twin wheels
- $\checkmark$  can be combined with different stems or expanders



bolt hole swivel castor		(mm]	[mm]		[mm]	[mm]	[kg]
HDHHHC0050N4N4P0N	_	050	11		25	70	70
HDHJJC0075N4N4P0N	=	075	11		32	100	70



#### bolt hole swivel castor with total brake

BDHHHC0050N4N4P0N	=	050	11		25	70	80	70
BDHJJC0075N4N4P0N	=	075	11		32	100	96	70



#### bolt hole swivel castor

HDXHHC0050N4N4P0N	—	050	11		25	70	70
HDXJJC0075N4N4P0N	_	075	11		32	100	70



BDXHHC0050N4N4P0N	=	050	11		25	70	80	70
BDXJJC0075PN4N4P0N	=	075	11		32	100	96	70





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